Linear Shafts from Automotion Components

L1770 - Hardened steel shafts

For use with linear bearings.

Ø6 to Ø60

L1771 - Hardened hollow shafts

For use with linear bearings. Hollowed for lighter weight.

Ø12 to Ø50

L1772 - Hardened Stainless shafts

For use with linear bearings

Anti-corrosion.

Ø6 to Ø60

L1773 - Stainless 303 shafts

Soft stainless, high anti-corrosion.

Not for use with ball bush linear bearings.

Ø6 to Ø60

L1774 - Stainless 316 shafts

Soft stainless, very high anti-corrosion.

Not for use with ball bushing linear bearings.

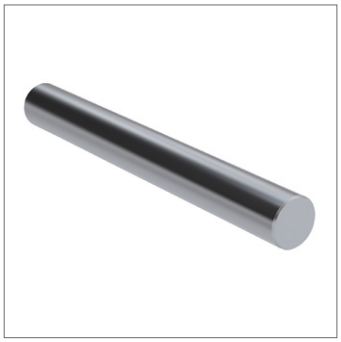
Ø6 to Ø60

L1778 - Aluminium shafts

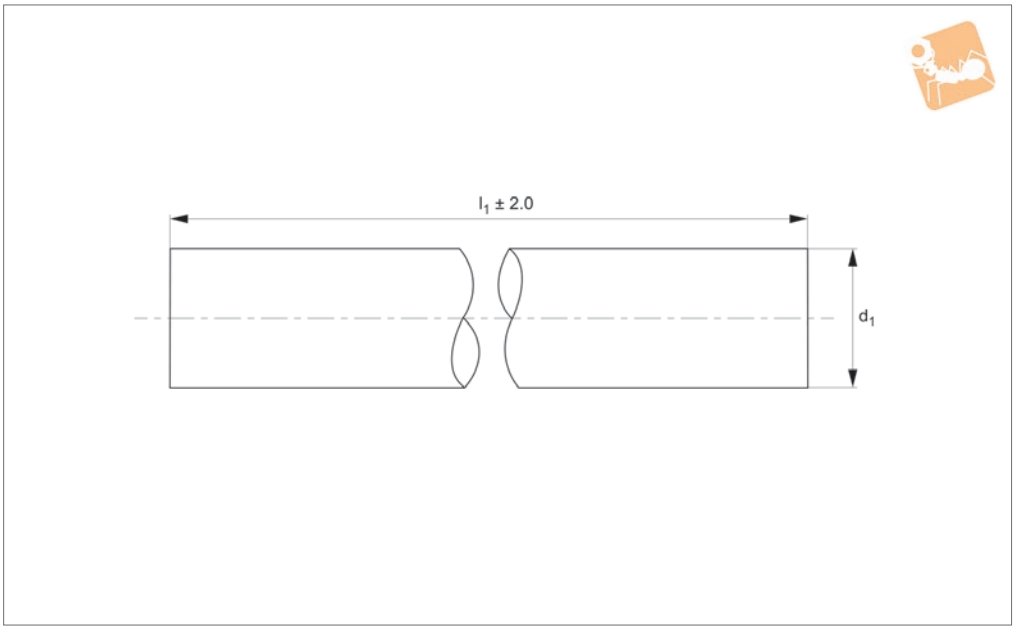
Light weight, non-magnetic.

Ø10 to Ø50

5Ø Hardened Steel Shafts



L1770.05



Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,3mm/m.

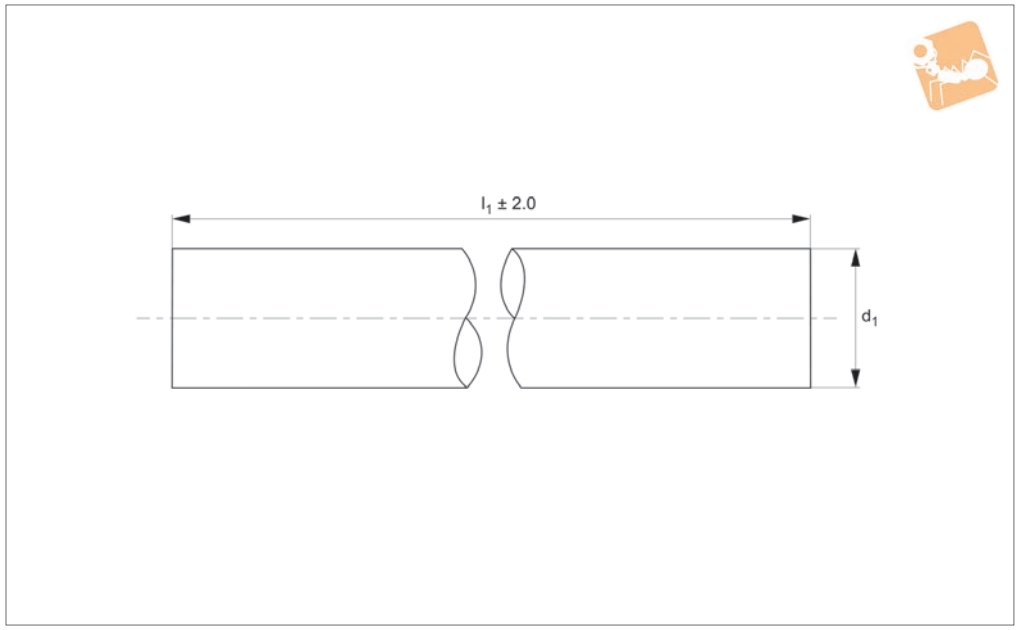
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

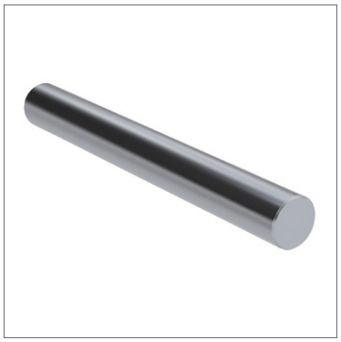
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.05-0100	5	100	0.4	0.016
L1770.05-0150	5	150	0.4	0.024
L1770.05-0200	5	200	0.4	0.032
L1770.05-0250	5	250	0.4	0.040
L1770.05-0300	5	300	0.4	0.048
L1770.05-0350	5	350	0.4	0.056
L1770.05-0400	5	400	0.4	0.064
L1770.05-0450	5	450	0.4	0.072
L1770.05-0500	5	500	0.4	0.080
L1770.05-0550	5	550	0.4	0.088
L1770.05-0600	5	600	0.4	0.096
L1770.05-0650	5	650	0.4	0.104
L1770.05-0700	5	700	0.4	0.112
L1770.05-0750	5	750	0.4	0.120
L1770.05-0800	5	800	0.4	0.128
L1770.05-0850	5	850	0.4	0.136
L1770.05-0900	5	900	0.4	0.144
L1770.05-0950	5	950	0.4	0.152
L1770.05-1000	5	1000	0.4	0.160
L1770.05-1050	5	1050	0.4	0.168
L1770.05-1100	5	1100	0.4	0.176
L1770.05-1150	5	1150	0.4	0.184
L1770.05-1200	5	1200	0.4	0.192
L1770.05-1250	5	1250	0.4	0.200
L1770.05-1300	5	1300	0.4	0.208
L1770.05-1350	5	1350	0.4	0.216
L1770.05-1400	5	1400	0.4	0.224
L1770.05-1450	5	1450	0.4	0.232
L1770.05-1500	5	1500	0.4	0.240
L1770.05-1550	5	1550	0.4	0.248
L1770.05-1600	5	1600	0.4	0.256

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.05-1650	5	1650	0.4	0.264
L1770.05-1700	5	1700	0.4	0.272
L1770.05-1750	5	1750	0.4	0.280
L1770.05-1800	5	1800	0.4	0.288
L1770.05-1850	5	1850	0.4	0.296
L1770.05-1900	5	1900	0.4	0.304
L1770.05-1950	5	1950	0.4	0.312
L1770.05-2000	5	2000	0.4	0.320
L1770.05-2050	5	2050	0.4	0.328
L1770.05-2100	5	2100	0.4	0.336
L1770.05-2150	5	2150	0.4	0.344
L1770.05-2200	5	2200	0.4	0.352
L1770.05-2250	5	2250	0.4	0.360
L1770.05-2300	5	2300	0.4	0.368
L1770.05-2350	5	2350	0.4	0.376
L1770.05-2400	5	2400	0.4	0.384
L1770.05-2450	5	2450	0.4	0.392
L1770.05-2500	5	2500	0.4	0.400
L1770.05-2550	5	2550	0.4	0.408
L1770.05-2600	5	2600	0.4	0.416
L1770.05-2650	5	2650	0.4	0.424
L1770.05-2700	5	2700	0.4	0.432
L1770.05-2750	5	2750	0.4	0.440
L1770.05-2800	5	2800	0.4	0.448
L1770.05-2850	5	2850	0.4	0.456
L1770.05-2900	5	2900	0.4	0.464
L1770.05-2950	5	2950	0.4	0.472
L1770.05-3000	5	3000	0.4	0.480
L1770.05-3050	5	3050	0.4	0.488
L1770.05-3100	5	3100	0.4	0.496
L1770.05-3150	5	3150	0.4	0.504
L1770.05-3200	5	3200	0.4	0.512
L1770.05-3250	5	3250	0.4	0.520
L1770.05-3300	5	3300	0.4	0.528
L1770.05-3350	5	3350	0.4	0.536
L1770.05-3400	5	3400	0.4	0.544
L1770.05-3450	5	3450	0.4	0.552
L1770.05-3500	5	3500	0.4	0.560
L1770.05-3550	5	3550	0.4	0.568
L1770.05-3600	5	3600	0.4	0.576
L1770.05-3650	5	3650	0.4	0.584
L1770.05-3700	5	3700	0.4	0.592
L1770.05-3750	5	3750	0.4	0.600
L1770.05-3800	5	3800	0.4	0.608
L1770.05-3850	5	3850	0.4	0.616
L1770.05-3900	5	3900	0.4	0.624
L1770.05-3950	5	3950	0.4	0.632
L1770.05-4000	5	4000	0.4	0.640
L1770.05-4050	5	4050	0.4	0.648
L1770.05-4100	5	4100	0.4	0.656
L1770.05-4150	5	4150	0.4	0.664
L1770.05-4200	5	4200	0.4	0.672
L1770.05-4250	5	4250	0.4	0.680
L1770.05-4300	5	4300	0.4	0.688
L1770.05-4350	5	4350	0.4	0.696
L1770.05-4400	5	4400	0.4	0.704
L1770.05-4450	5	4450	0.4	0.712
L1770.05-4500	5	4500	0.4	0.720
L1770.05-4550	5	4550	0.4	0.728
L1770.05-4600	5	4600	0.4	0.736
L1770.05-4650	5	4650	0.4	0.744
L1770.05-4700	5	4700	0.4	0.752
L1770.05-4750	5	4750	0.4	0.760
L1770.05-4800	5	4800	0.4	0.768
L1770.05-4850	5	4850	0.4	0.776
L1770.05-4900	5	4900	0.4	0.784
L1770.05-4950	5	4950	0.4	0.792
L1770.05-5000	5	5000	0.4	0.800

5Ø Hardened Steel Shafts

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.05-5050	5	5050	0.4	0.808
L1770.05-5100	5	5100	0.4	0.816
L1770.05-5150	5	5150	0.4	0.824
L1770.05-5200	5	5200	0.4	0.832
L1770.05-5250	5	5250	0.4	0.840
L1770.05-5300	5	5300	0.4	0.848
L1770.05-5350	5	5350	0.4	0.856
L1770.05-5400	5	5400	0.4	0.864
L1770.05-5450	5	5450	0.4	0.872
L1770.05-5500	5	5500	0.4	0.880
L1770.05-5550	5	5550	0.4	0.888
L1770.05-5600	5	5600	0.4	0.896
L1770.05-5650	5	5650	0.4	0.904
L1770.05-5700	5	5700	0.4	0.912
L1770.05-5750	5	5750	0.4	0.920
L1770.05-5800	5	5800	0.4	0.928
L1770.05-5850	5	5850	0.4	0.936
L1770.05-5900	5	5900	0.4	0.944
L1770.05-5950	5	5950	0.4	0.952
L1770.05-6000	5	6000	0.4	0.960





L1770.06

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,3mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

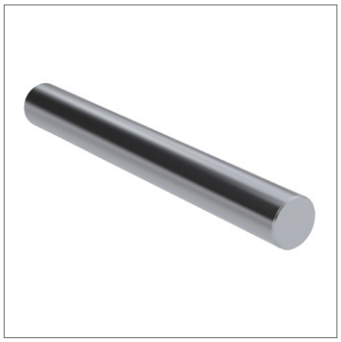
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.06-0100	6	100	0.4	0.023
L1770.06-0150	6	150	0.4	0.035
L1770.06-0200	6	200	0.4	0.046
L1770.06-0250	6	250	0.4	0.058
L1770.06-0300	6	300	0.4	0.069
L1770.06-0350	6	350	0.4	0.081
L1770.06-0400	6	400	0.4	0.092
L1770.06-0450	6	450	0.4	0.104
L1770.06-0500	6	500	0.4	0.115
L1770.06-0550	6	550	0.4	0.127
L1770.06-0600	6	600	0.4	0.138
L1770.06-0650	6	650	0.4	0.150
L1770.06-0700	6	700	0.4	0.161
L1770.06-0750	6	750	0.4	0.173
L1770.06-0800	6	800	0.4	0.184
L1770.06-0850	6	850	0.4	0.196
L1770.06-0900	6	900	0.4	0.207
L1770.06-0950	6	950	0.4	0.219
L1770.06-1000	6	1000	0.4	0.230
L1770.06-1050	6	1050	0.4	0.242
L1770.06-1100	6	1100	0.4	0.253
L1770.06-1150	6	1150	0.4	0.265
L1770.06-1200	6	1200	0.4	0.276
L1770.06-1250	6	1250	0.4	0.288
L1770.06-1300	6	1300	0.4	0.299
L1770.06-1350	6	1350	0.4	0.311
L1770.06-1400	6	1400	0.4	0.322
L1770.06-1450	6	1450	0.4	0.334
L1770.06-1500	6	1500	0.4	0.345
L1770.06-1550	6	1550	0.4	0.357
L1770.06-1600	6	1600	0.4	0.368

6Ø Hardened Steel Shafts

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.06-1650	6	1650	0.4	0.380
L1770.06-1700	6	1700	0.4	0.391
L1770.06-1750	6	1750	0.4	0.403
L1770.06-1800	6	1800	0.4	0.414
L1770.06-1850	6	1850	0.4	0.426
L1770.06-1900	6	1900	0.4	0.437
L1770.06-1950	6	1950	0.4	0.449
L1770.06-2000	6	2000	0.4	0.460
L1770.06-2050	6	2050	0.4	0.472
L1770.06-2100	6	2100	0.4	0.483
L1770.06-2150	6	2150	0.4	0.495
L1770.06-2200	6	2200	0.4	0.506
L1770.06-2250	6	2250	0.4	0.518
L1770.06-2300	6	2300	0.4	0.529
L1770.06-2350	6	2350	0.4	0.541
L1770.06-2400	6	2400	0.4	0.552
L1770.06-2450	6	2450	0.4	0.564
L1770.06-2500	6	2500	0.4	0.575
L1770.06-2550	6	2550	0.4	0.587
L1770.06-2600	6	2650	0.4	0.598
L1770.06-2650	6	2650	0.4	0.610
L1770.06-2700	6	2700	0.4	0.621
L1770.06-2750	6	2750	0.4	0.633
L1770.06-2800	6	2800	0.4	0.644
L1770.06-2850	6	2850	0.4	0.656
L1770.06-2900	6	2900	0.4	0.667
L1770.06-2950	6	2950	0.4	0.679
L1770.06-3000	6	3000	0.4	0.690
L1770.06-3050	6	3050	0.4	0.702
L1770.06-3100	6	3100	0.4	0.713
L1770.06-3150	6	3150	0.4	0.725
L1770.06-3200	6	3200	0.4	0.736
L1770.06-3250	6	3250	0.4	0.748
L1770.06-3300	6	3300	0.4	0.759
L1770.06-3350	6	3350	0.4	0.771
L1770.06-3400	6	3400	0.4	0.782
L1770.06-3450	6	3450	0.4	0.794
L1770.06-3500	6	3500	0.4	0.805
L1770.06-3550	6	3550	0.4	0.817
L1770.06-3600	6	3600	0.4	0.828
L1770.06-3650	6	3650	0.4	0.840
L1770.06-3700	6	3700	0.4	0.851
L1770.06-3750	6	3750	0.4	0.863
L1770.06-3800	6	3800	0.4	0.874
L1770.06-3850	6	3850	0.4	0.886
L1770.06-3900	6	3900	0.4	0.897
L1770.06-3950	6	3950	0.4	0.909
L1770.06-4000	6	4000	0.4	0.920
L1770.06-4050	6	4050	0.4	0.932
L1770.06-4100	6	4100	0.4	0.943
L1770.06-4150	6	4150	0.4	0.955
L1770.06-4200	6	4200	0.4	0.966
L1770.06-4250	6	4250	0.4	0.978
L1770.06-4300	6	4300	0.4	0.989
L1770.06-4350	6	4350	0.4	1.001
L1770.06-4400	6	4400	0.4	1.012
L1770.06-4450	6	4450	0.4	1.024
L1770.06-4500	6	4500	0.4	1.035
L1770.06-4550	6	4550	0.4	1.047
L1770.06-4600	6	4600	0.4	1.058
L1770.06-4650	6	4650	0.4	1.070
L1770.06-4700	6	4700	0.4	1.081
L1770.06-4750	6	4750	0.4	1.093
L1770.06-4800	6	4800	0.4	1.104
L1770.06-4850	6	4850	0.4	1.116
L1770.06-4900	6	4900	0.4	1.127
L1770.06-4950	6	4950	0.4	1.139
L1770.06-5000	6	5000	0.4	1.150

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.06-5050	6	5050	0.4	1.162
L1770.06-5100	6	5100	0.4	1.173
L1770.06-5150	6	5150	0.4	1.185
L1770.06-5200	6	5200	0.4	1.196
L1770.06-5250	6	5250	0.4	1.208
L1770.06-5300	6	5300	0.4	1.219
L1770.06-5350	6	5350	0.4	1.231
L1770.06-5400	6	5400	0.4	1.242
L1770.06-5450	6	5450	0.4	1.254
L1770.06-5500	6	5500	0.4	1.265
L1770.06-5550	6	5550	0.4	1.277
L1770.06-5600	6	5600	0.4	1.288
L1770.06-5650	6	5650	0.4	1.300
L1770.06-5700	6	5700	0.4	1.311
L1770.06-5750	6	5750	0.4	1.323
L1770.06-5800	6	5800	0.4	1.334
L1770.06-5850	6	5850	0.4	1.346
L1770.06-5900	6	5900	0.4	1.357
L1770.06-5950	6	5950	0.4	1.369
L1770.06-6000	6	6000	0.4	1.380

8Ø Hardened Steel Shafts



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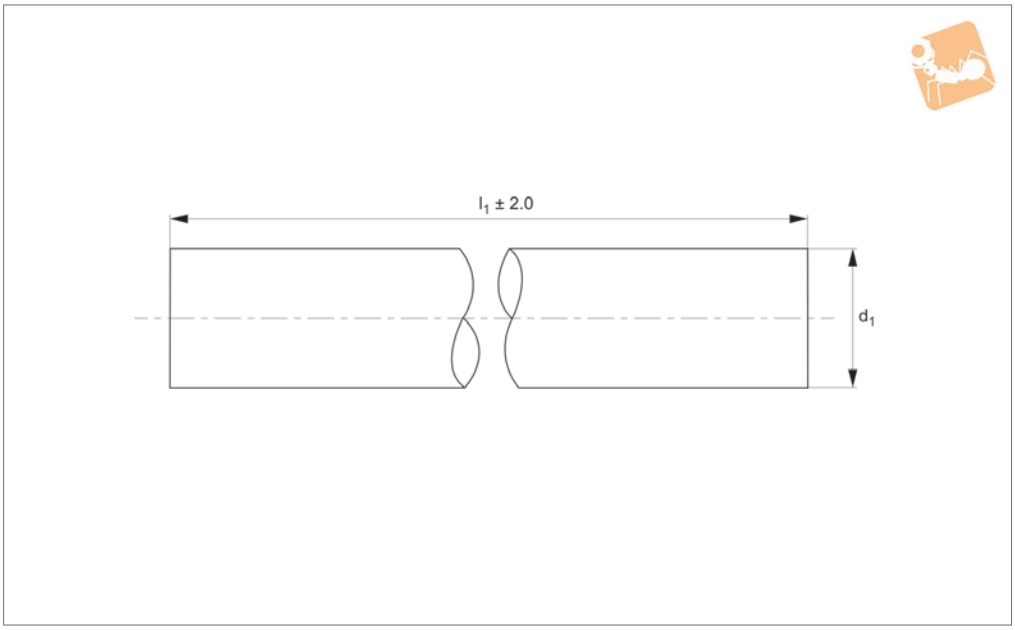

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Yield stress: >325 N/mm², tensile strength: >630 N/mm².

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,3mm/m.

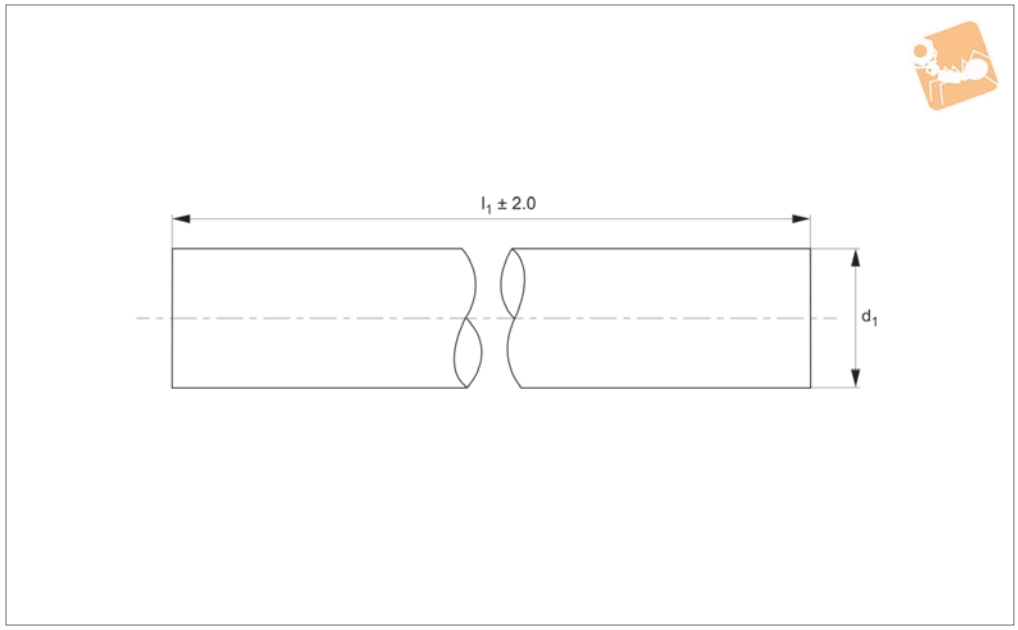
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

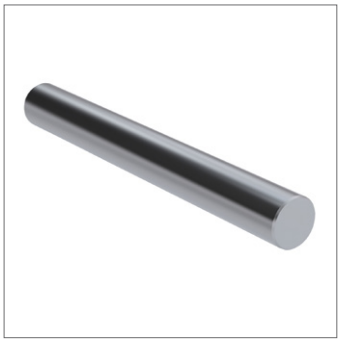
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.08-0100	8	100	0.4	0.040
L1770.08-0150	8	150	0.4	0.060
L1770.08-0200	8	200	0.4	0.080
L1770.08-0250	8	250	0.4	0.100
L1770.08-0300	8	300	0.4	0.120
L1770.08-0350	8	350	0.4	0.140
L1770.08-0400	8	400	0.4	0.160
L1770.08-0450	8	450	0.4	0.180
L1770.08-0500	8	500	0.4	0.200
L1770.08-0550	8	550	0.4	0.220
L1770.08-0600	8	600	0.4	0.240
L1770.08-0650	8	650	0.4	0.260
L1770.08-0700	8	700	0.4	0.280
L1770.08-0750	8	750	0.4	0.300
L1770.08-0800	8	800	0.4	0.320
L1770.08-0850	8	850	0.4	0.340
L1770.08-0900	8	900	0.4	0.360
L1770.08-0950	8	950	0.4	0.380
L1770.08-1000	8	1000	0.4	0.400
L1770.08-1050	8	1050	0.4	0.420
L1770.08-1100	8	1100	0.4	0.440
L1770.08-1150	8	1150	0.4	0.460
L1770.08-1200	8	1200	0.4	0.480
L1770.08-1250	8	1250	0.4	0.500
L1770.08-1300	8	1300	0.4	0.520
L1770.08-1350	8	1350	0.4	0.540
L1770.08-1400	8	1400	0.4	0.560
L1770.08-1450	8	1450	0.4	0.580
L1770.08-1500	8	1500	0.4	0.600
L1770.08-1550	8	1550	0.4	0.620
L1770.08-1600	8	1600	0.4	0.640

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.08-1650	8	1650	0.4	0.660
L1770.08-1700	8	1700	0.4	0.680
L1770.08-1750	8	1750	0.4	0.700
L1770.08-1800	8	1800	0.4	0.720
L1770.08-1850	8	1850	0.4	0.740
L1770.08-1900	8	1900	0.4	0.760
L1770.08-1950	8	1950	0.4	0.780
L1770.08-2000	8	2000	0.4	0.800
L1770.08-2050	8	2050	0.4	0.820
L1770.08-2100	8	2100	0.4	0.840
L1770.08-2150	8	2150	0.4	0.860
L1770.08-2200	8	2200	0.4	0.880
L1770.08-2250	8	2250	0.4	0.900
L1770.08-2300	8	2300	0.4	0.920
L1770.08-2350	8	2350	0.4	0.940
L1770.08-2400	8	2400	0.4	0.960
L1770.08-2450	8	2450	0.4	0.980
L1770.08-2500	8	2500	0.4	1.000
L1770.08-2550	8	2550	0.4	1.020
L1770.08-2600	8	2600	0.4	1.040
L1770.08-2650	8	2650	0.4	1.060
L1770.08-2700	8	2700	0.4	1.080
L1770.08-2750	8	2750	0.4	1.100
L1770.08-2800	8	2800	0.4	1.120
L1770.08-2850	8	2850	0.4	1.140
L1770.08-2900	8	2900	0.4	1.160
L1770.08-2950	8	2950	0.4	1.180
L1770.08-3000	8	3000	0.4	1.200
L1770.08-3050	8	3050	0.4	1.220
L1770.08-3100	8	3100	0.4	1.240
L1770.08-3150	8	3150	0.4	1.260
L1770.08-3200	8	3200	0.4	1.280
L1770.08-3250	8	3250	0.4	1.300
L1770.08-3300	8	3300	0.4	1.320
L1770.08-3350	8	3350	0.4	1.340
L1770.08-3400	8	3400	0.4	1.360
L1770.08-3450	8	3450	0.4	1.380
L1770.08-3500	8	3500	0.4	1.400
L1770.08-3550	8	3550	0.4	1.420
L1770.08-3600	8	3600	0.4	1.440
L1770.08-3650	8	3650	0.4	1.460
L1770.08-3700	8	3700	0.4	1.480
L1770.08-3750	8	3750	0.4	1.500
L1770.08-3800	8	3800	0.4	1.520
L1770.08-3850	8	3850	0.4	1.540
L1770.08-3900	8	3900	0.4	1.560
L1770.08-3950	8	3950	0.4	1.580
L1770.08-4000	8	4000	0.4	1.600
L1770.08-4050	8	4050	0.4	1.620
L1770.08-4100	8	4100	0.4	1.640
L1770.08-4150	8	4150	0.4	1.660
L1770.08-4200	8	4200	0.4	1.680
L1770.08-4250	8	4250	0.4	1.700
L1770.08-4300	8	4300	0.4	1.720
L1770.08-4350	8	4350	0.4	1.740
L1770.08-4400	8	4400	0.4	1.760
L1770.08-4450	8	4450	0.4	1.780
L1770.08-4500	8	4500	0.4	1.800
L1770.08-4550	8	4550	0.4	1.820
L1770.08-4600	8	4600	0.4	1.840
L1770.08-4650	8	4650	0.4	1.860
L1770.08-4700	8	4700	0.4	1.880
L1770.08-4750	8	4750	0.4	1.900
L1770.08-4800	8	4800	0.4	1.920
L1770.08-4850	8	4850	0.4	1.940
L1770.08-4900	8	4900	0.4	1.960
L1770.08-4950	8	4950	0.4	1.980
L1770.08-5000	8	5000	0.4	2.000

8Ø Hardened Steel Shafts

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.08-5050	8	5050	0.4	2.020
L1770.08-5100	8	5100	0.4	2.040
L1770.08-5150	8	5150	0.4	2.060
L1770.08-5200	8	5200	0.4	2.080
L1770.08-5250	8	5250	0.4	2.100
L1770.08-5300	8	5300	0.4	2.120
L1770.08-5350	8	5350	0.4	2.140
L1770.08-5400	8	5400	0.4	2.160
L1770.08-5450	8	5450	0.4	2.180
L1770.08-5500	8	5500	0.4	2.200
L1770.08-5550	8	5550	0.4	2.220
L1770.08-5600	8	5600	0.4	2.240
L1770.08-5650	8	5650	0.4	2.260
L1770.08-5700	8	5700	0.4	2.280
L1770.08-5750	8	5750	0.4	2.300
L1770.08-5800	8	5800	0.4	2.320
L1770.08-5850	8	5850	0.4	2.340
L1770.08-5900	8	5900	0.4	2.360
L1770.08-5950	8	5950	0.4	2.380
L1770.08-6000	8	6000	0.4	2.400





L1770.10

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

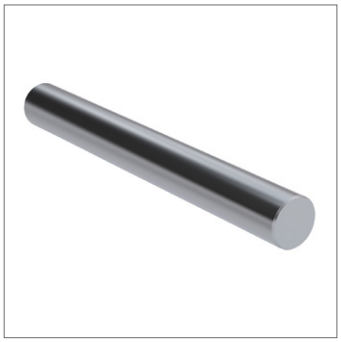
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.10-0100	10	100	0.4	0.062
L1770.10-0150	10	150	0.4	0.093
L1770.10-0200	10	200	0.4	0.124
L1770.10-0250	10	250	0.4	0.155
L1770.10-0300	10	300	0.4	0.186
L1770.10-0350	10	350	0.4	0.217
L1770.10-0400	10	400	0.4	0.248
L1770.10-0450	10	450	0.4	0.279
L1770.10-0500	10	500	0.4	0.310
L1770.10-0550	10	550	0.4	0.341
L1770.10-0600	10	600	0.4	0.372
L1770.10-0650	10	650	0.4	0.403
L1770.10-0700	10	700	0.4	0.434
L1770.10-0750	10	750	0.4	0.465
L1770.10-0800	10	800	0.4	0.496
L1770.10-0850	10	850	0.4	0.527
L1770.10-0900	10	900	0.4	0.558
L1770.10-0950	10	950	0.4	0.589
L1770.10-1000	10	1000	0.4	0.620
L1770.10-1050	10	1050	0.4	0.651
L1770.10-1100	10	1100	0.4	0.682
L1770.10-1150	10	1150	0.4	0.713
L1770.10-1200	10	1200	0.4	0.744
L1770.10-1250	10	1250	0.4	0.775
L1770.10-1300	10	1300	0.4	0.806
L1770.10-1350	10	1350	0.4	0.837
L1770.10-1400	10	1400	0.4	0.868
L1770.10-1450	10	1450	0.4	0.899
L1770.10-1500	10	1500	0.4	0.930
L1770.10-1550	10	1550	0.4	0.961
L1770.10-1600	10	1600	0.4	0.992

10Ø Hardened Steel Shafts

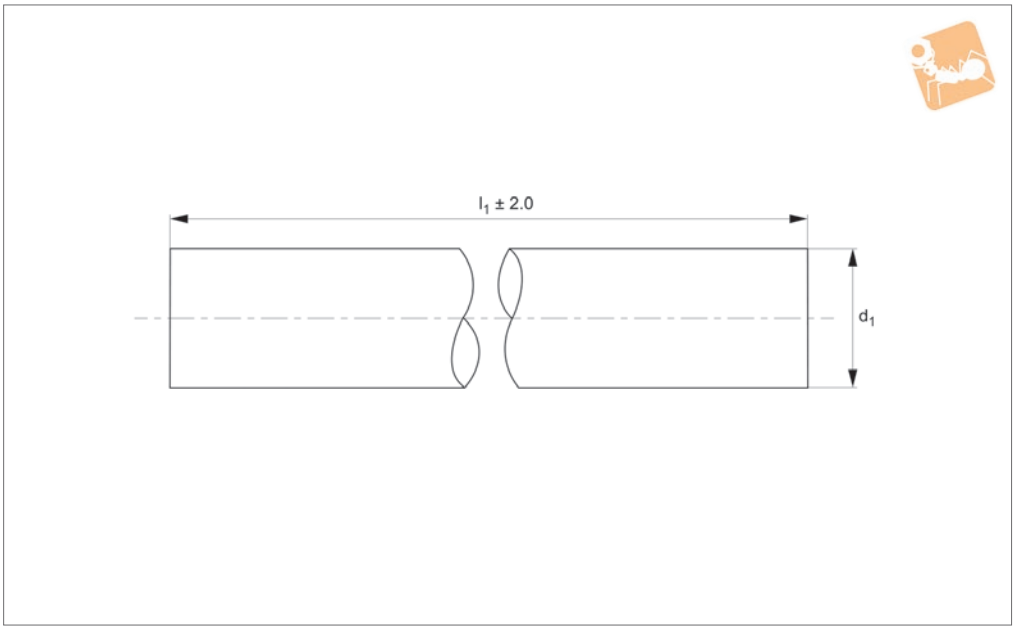
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.10-1650	10	1650	0.4	1.023
L1770.10-1700	10	1700	0.4	1.054
L1770.10-1750	10	1750	0.4	1.085
L1770.10-1800	10	1800	0.4	1.116
L1770.10-1850	10	1850	0.4	1.147
L1770.10-1900	10	1900	0.4	1.178
L1770.10-1950	10	1950	0.4	1.209
L1770.10-2000	10	2000	0.4	1.240
L1770.10-2050	10	2050	0.4	1.271
L1770.10-2100	10	2100	0.4	1.302
L1770.10-2150	10	2150	0.4	1.333
L1770.10-2200	10	2200	0.4	1.364
L1770.10-2250	10	2250	0.4	1.395
L1770.10-2300	10	2300	0.4	1.426
L1770.10-2350	10	2350	0.4	1.457
L1770.10-2400	10	2400	0.4	1.488
L1770.10-2450	10	2450	0.4	1.519
L1770.10-2500	10	2500	0.4	1.550
L1770.10-2550	10	2550	0.4	1.581
L1770.10-2600	10	2600	0.4	1.612
L1770.10-2650	10	2650	0.4	1.643
L1770.10-2700	10	2700	0.4	1.674
L1770.10-2750	10	2750	0.4	1.705
L1770.10-2800	10	2800	0.4	1.736
L1770.10-2850	10	2850	0.4	1.767
L1770.10-2900	10	2900	0.4	1.798
L1770.10-2950	10	2950	0.4	1.829
L1770.10-3000	10	3000	0.4	1.860
L1770.10-3050	10	3050	0.4	1.891
L1770.10-3100	10	3100	0.4	1.922
L1770.10-3150	10	3150	0.4	1.953
L1770.10-3200	10	3200	0.4	1.984
L1770.10-3250	10	3250	0.4	2.015
L1770.10-3300	10	3300	0.4	2.046
L1770.10-3350	10	3350	0.4	2.077
L1770.10-3400	10	3400	0.4	2.108
L1770.10-3450	10	3450	0.4	2.139
L1770.10-3500	10	3500	0.4	2.170
L1770.10-3550	10	3550	0.4	2.201
L1770.10-3600	10	3600	0.4	2.232
L1770.10-3650	10	3650	0.4	2.263
L1770.10-3700	10	3700	0.4	2.294
L1770.10-3750	10	3750	0.4	2.325
L1770.10-3800	10	3800	0.4	2.356
L1770.10-3850	10	3850	0.4	2.387
L1770.10-3900	10	3900	0.4	2.418
L1770.10-3950	10	3950	0.4	2.449
L1770.10-4000	10	4000	0.4	2.480
L1770.10-4050	10	4050	0.4	2.511
L1770.10-4100	10	4100	0.4	2.542
L1770.10-4150	10	4150	0.4	2.573
L1770.10-4200	10	4200	0.4	2.604
L1770.10-4250	10	4250	0.4	2.635
L1770.10-4300	10	4300	0.4	2.666
L1770.10-4350	10	4350	0.4	2.697
L1770.10-4400	10	4400	0.4	2.728
L1770.10-4450	10	4450	0.4	2.759
L1770.10-4500	10	4500	0.4	2.790
L1770.10-4550	10	4550	0.4	2.821
L1770.10-4600	10	4600	0.4	2.852
L1770.10-4650	10	4650	0.4	2.883
L1770.10-4700	10	4700	0.4	2.914
L1770.10-4750	10	4750	0.4	2.945
L1770.10-4800	10	4800	0.4	2.976
L1770.10-4850	10	4850	0.4	3.007
L1770.10-4900	10	4900	0.4	3.038
L1770.10-4950	10	4950	0.4	3.069
L1770.10-5000	10	5000	0.4	3.100

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.10-5050	10	5050	0.4	3.131
L1770.10-5100	10	5100	0.4	3.162
L1770.10-5150	10	5150	0.4	3.193
L1770.10-5200	10	5200	0.4	3.224
L1770.10-5250	10	5250	0.4	3.255
L1770.10-5300	10	5300	0.4	3.286
L1770.10-5350	10	5350	0.4	3.317
L1770.10-5400	10	5400	0.4	3.348
L1770.10-5450	10	5450	0.4	3.379
L1770.10-5500	10	5500	0.4	3.410
L1770.10-5550	10	5550	0.4	3.441
L1770.10-5600	10	5600	0.4	3.472
L1770.10-5650	10	5650	0.4	3.503
L1770.10-5700	10	5700	0.4	3.534
L1770.10-5750	10	5750	0.4	3.565
L1770.10-5800	10	5800	0.4	3.596
L1770.10-5850	10	5850	0.4	3.627
L1770.10-5900	10	5900	0.4	3.658
L1770.10-5950	10	5950	0.4	3.689
L1770.10-6000	10	6000	0.4	3.720

12Ø Hardened Steel Shafts



L1770.12



Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm², tensile strength: >630 N/mm².

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,2mm/m.

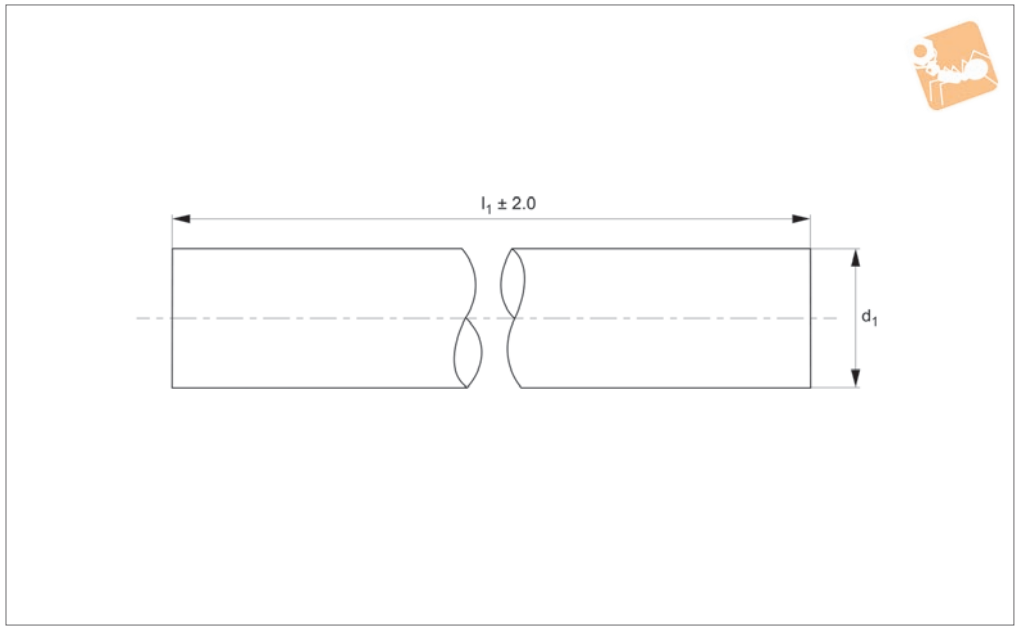
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

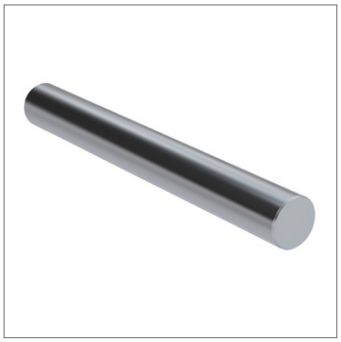
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.12-0100	12	100	0.6	0.089
L1770.12-0150	12	150	0.6	0.134
L1770.12-0200	12	200	0.6	0.178
L1770.12-0250	12	250	0.6	0.223
L1770.12-0300	12	300	0.6	0.267
L1770.12-0350	12	350	0.6	0.312
L1770.12-0400	12	400	0.6	0.356
L1770.12-0450	12	450	0.6	0.401
L1770.12-0500	12	500	0.6	0.445
L1770.12-0550	12	550	0.6	0.490
L1770.12-0600	12	600	0.6	0.534
L1770.12-0650	12	650	0.6	0.579
L1770.12-0700	12	700	0.6	0.623
L1770.12-0750	12	750	0.6	0.668
L1770.12-0800	12	800	0.6	0.712
L1770.12-0850	12	850	0.6	0.757
L1770.12-0900	12	900	0.6	0.801
L1770.12-0950	12	950	0.6	0.846
L1770.12-1000	12	1000	0.6	0.890
L1770.12-1050	12	1050	0.6	0.935
L1770.12-1100	12	1100	0.6	0.979
L1770.12-1150	12	1150	0.6	1.024
L1770.12-1200	12	1200	0.6	1.068
L1770.12-1250	12	1250	0.6	1.113
L1770.12-1300	12	1300	0.6	1.157
L1770.12-1350	12	1350	0.6	1.202
L1770.12-1400	12	1400	0.6	1.246
L1770.12-1450	12	1450	0.6	1.291
L1770.12-1500	12	1500	0.6	1.335
L1770.12-1550	12	1550	0.6	1.380
L1770.12-1600	12	1600	0.6	1.424

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.12-1650	12	1650	0.6	1.469
L1770.12-1700	12	1700	0.6	1.513
L1770.12-1750	12	1750	0.6	1.558
L1770.12-1800	12	1800	0.6	1.602
L1770.12-1850	12	1850	0.6	1.647
L1770.12-1900	12	1900	0.6	1.691
L1770.12-1950	12	1950	0.6	1.736
L1770.12-2000	12	2000	0.6	1.780
L1770.12-2050	12	2050	0.6	1.825
L1770.12-2100	12	2100	0.6	1.869
L1770.12-2150	12	2150	0.6	1.914
L1770.12-2200	12	2200	0.6	1.958
L1770.12-2250	12	2500	0.6	2.003
L1770.12-2300	12	2300	0.6	2.047
L1770.12-2350	12	2350	0.6	2.092
L1770.12-2400	12	2400	0.6	2.136
L1770.12-2450	12	2450	0.6	2.181
L1770.12-2500	12	2500	0.6	2.225
L1770.12-2550	12	2550	0.6	2.270
L1770.12-2600	12	2600	0.6	2.314
L1770.12-2650	12	2650	0.6	2.359
L1770.12-2700	12	2700	0.6	2.403
L1770.12-2750	12	2750	0.6	2.448
L1770.12-2800	12	2800	0.6	2.492
L1770.12-2850	12	2850	0.6	2.537
L1770.12-2900	12	2900	0.6	2.581
L1770.12-2950	12	2950	0.6	2.626
L1770.12-3000	12	3000	0.6	2.670
L1770.12-3050	12	3050	0.6	2.715
L1770.12-3100	12	3100	0.6	2.759
L1770.12-3150	12	3150	0.6	2.804
L1770.12-3200	12	3200	0.6	2.848
L1770.12-3250	12	3250	0.6	2.893
L1770.12-3300	12	3300	0.6	2.937
L1770.12-3350	12	3350	0.6	2.982
L1770.12-3400	12	3400	0.6	3.026
L1770.12-3450	12	3450	0.6	3.071
L1770.12-3500	12	3500	0.6	3.115
L1770.12-3550	12	3550	0.6	3.160
L1770.12-3600	12	3600	0.6	3.204
L1770.12-3650	12	3650	0.6	3.249
L1770.12-3700	12	3700	0.6	3.293
L1770.12-3750	12	3750	0.6	3.338
L1770.12-3800	12	3800	0.6	3.382
L1770.12-3850	12	3850	0.6	3.427
L1770.12-3900	12	3900	0.6	3.471
L1770.12-3950	12	3950	0.6	3.516
L1770.12-4000	12	4000	0.6	3.560
L1770.12-4050	12	4050	0.6	3.605
L1770.12-4100	12	4100	0.6	3.649
L1770.12-4150	12	4150	0.6	3.694
L1770.12-4200	12	4200	0.6	3.738
L1770.12-4250	12	4250	0.6	3.783
L1770.12-4300	12	4300	0.6	3.827
L1770.12-4350	12	4350	0.6	3.872
L1770.12-4400	12	4400	0.6	3.916
L1770.12-4450	12	4450	0.6	3.961
L1770.12-4500	12	4500	0.6	4.005
L1770.12-4550	12	4550	0.6	4.050
L1770.12-4600	12	4600	0.6	4.094
L1770.12-4650	12	4650	0.6	4.139
L1770.12-4700	12	4700	0.6	4.183
L1770.12-4750	12	4750	0.6	4.228
L1770.12-4800	12	4800	0.6	4.272
L1770.12-4850	12	4850	0.6	4.317
L1770.12-4900	12	4900	0.6	4.361
L1770.12-4950	12	4950	0.6	4.406
L1770.12-5000	12	5000	0.6	4.450

12Ø Hardened Steel Shafts

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.12-5050	12	5050	0.6	4.495
L1770.12-5100	12	5100	0.6	4.539
L1770.12-5150	12	5150	0.6	4.584
L1770.12-5200	12	5200	0.6	4.628
L1770.12-5250	12	5250	0.6	4.673
L1770.12-5300	12	5300	0.6	4.717
L1770.12-5350	12	5350	0.6	4.762
L1770.12-5400	12	5400	0.6	4.806
L1770.12-5450	12	5450	0.6	4.851
L1770.12-5500	12	5500	0.6	4.895
L1770.12-5550	12	5550	0.6	4.940
L1770.12-5600	12	5600	0.6	4.984
L1770.12-5650	12	5650	0.6	5.029
L1770.12-5700	12	5700	0.6	5.073
L1770.12-5750	12	5750	0.6	5.118
L1770.12-5800	12	5800	0.6	5.162
L1770.12-5850	12	5850	0.6	5.207
L1770.12-5900	12	5900	0.6	5.251
L1770.12-5950	12	5950	0.6	5.296
L1770.12-6000	12	6000	0.6	5.340





L1770.16

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

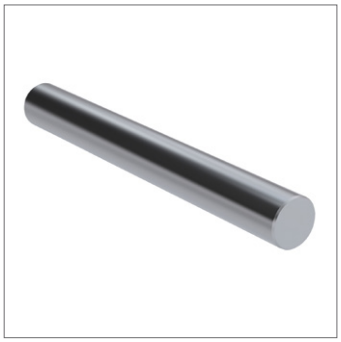
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.16-0100	16	100	0.6	0.158
L1770.16-0150	16	150	0.6	0.237
L1770.16-0200	16	200	0.6	0.316
L1770.16-0250	16	250	0.6	0.395
L1770.16-0300	16	300	0.6	0.474
L1770.16-0350	16	350	0.6	0.553
L1770.16-0400	16	400	0.6	0.632
L1770.16-0450	16	450	0.6	0.711
L1770.16-0500	16	500	0.6	0.790
L1770.16-0550	16	550	0.6	0.869
L1770.16-0600	16	600	0.6	0.948
L1770.16-0650	16	650	0.6	1.027
L1770.16-0700	16	700	0.6	1.106
L1770.16-0750	16	750	0.6	1.185
L1770.16-0800	16	800	0.6	1.264
L1770.16-0850	16	850	0.6	1.343
L1770.16-0900	16	900	0.6	1.422
L1770.16-0950	16	950	0.6	1.501
L1770.16-1000	16	1000	0.6	1.580
L1770.16-1050	16	1050	0.6	1.659
L1770.16-1100	16	1100	0.6	1.738
L1770.16-1150	16	1150	0.6	1.817
L1770.16-1200	16	1200	0.6	1.896
L1770.16-1250	16	1250	0.6	1.975
L1770.16-1300	16	1300	0.6	2.054
L1770.16-1350	16	1350	0.6	2.133
L1770.16-1400	16	1400	0.6	2.212
L1770.16-1450	16	1450	0.6	2.291
L1770.16-1500	16	1500	0.6	2.370
L1770.16-1550	16	1550	0.6	2.449
L1770.16-1600	16	1600	0.6	2.528

16Ø Hardened Steel Shafts

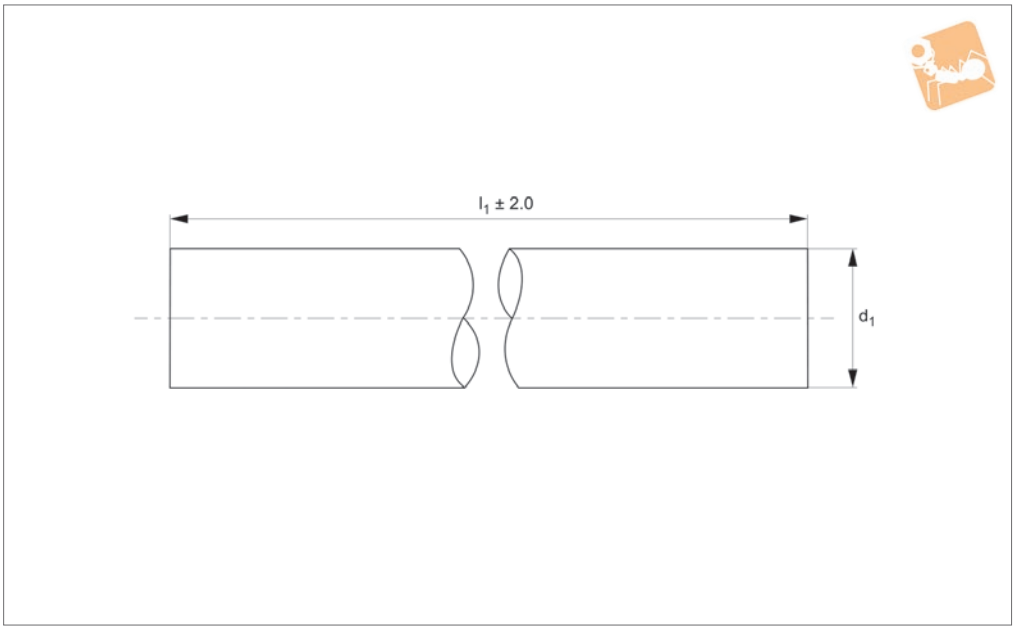
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.16-1650	16	1650	0.6	2.607
L1770.16-1700	16	1700	0.6	2.686
L1770.16-1750	16	1750	0.6	2.765
L1770.16-1800	16	1800	0.6	2.844
L1770.16-1850	16	1850	0.6	2.923
L1770.16-1900	16	1900	0.6	3.002
L1770.16-1950	16	1950	0.6	3.081
L1770.16-2000	16	2000	0.6	3.160
L1770.16-2050	16	2050	0.6	3.239
L1770.16-2100	16	2100	0.6	3.318
L1770.16-2150	16	2150	0.6	3.397
L1770.16-2200	16	2200	0.6	3.476
L1770.16-2250	16	2250	0.6	3.555
L1770.16-2300	16	2300	0.6	3.634
L1770.16-2350	16	2350	0.6	3.713
L1770.16-2400	16	2400	0.6	3.792
L1770.16-2450	16	2450	0.6	3.871
L1770.16-2500	16	2500	0.6	3.950
L1770.16-2550	16	2550	0.6	4.029
L1770.16-2600	16	2600	0.6	4.108
L1770.16-2650	16	2650	0.6	4.187
L1770.16-2700	16	2700	0.6	4.266
L1770.16-2750	16	2750	0.6	4.345
L1770.16-2800	16	2800	0.6	4.424
L1770.16-2850	16	2850	0.6	4.503
L1770.16-2900	16	2900	0.6	4.582
L1770.16-2950	16	2950	0.6	4.661
L1770.16-3000	16	3000	0.6	4.740
L1770.16-3050	16	3050	0.6	4.819
L1770.16-3100	16	3100	0.6	4.898
L1770.16-3150	16	3150	0.6	4.977
L1770.16-3200	16	3200	0.6	5.056
L1770.16-3250	16	3250	0.6	5.135
L1770.16-3300	16	3300	0.6	5.214
L1770.16-3350	16	3350	0.6	5.293
L1770.16-3400	16	3400	0.6	5.372
L1770.16-3450	16	3450	0.6	5.451
L1770.16-3500	16	3500	0.6	5.530
L1770.16-3550	16	3550	0.6	5.609
L1770.16-3600	16	3600	0.6	5.688
L1770.16-3650	16	3650	0.6	5.767
L1770.16-3700	16	3700	0.6	5.846
L1770.16-3750	16	3750	0.6	5.925
L1770.16-3800	16	3800	0.6	6.004
L1770.16-3850	16	3850	0.6	6.083
L1770.16-3900	16	3900	0.6	6.162
L1770.16-3950	16	3950	0.6	6.241
L1770.16-4000	16	4000	0.6	6.320
L1770.16-4050	16	4050	0.6	6.399
L1770.16-4100	16	4100	0.6	6.478
L1770.16-4150	16	4150	0.6	6.557
L1770.16-4200	16	4200	0.6	6.636
L1770.16-4250	16	4250	0.6	6.715
L1770.16-4300	16	4300	0.6	6.794
L1770.16-4350	16	4350	0.6	6.873
L1770.16-4400	16	4400	0.6	6.952
L1770.16-4450	16	4450	0.6	7.031
L1770.16-4500	16	4500	0.6	7.110
L1770.16-4550	16	4500	0.6	7.189
L1770.16-4600	16	4600	0.6	7.268
L1770.16-4650	16	4650	0.6	7.347
L1770.16-4700	16	4700	0.6	7.426
L1770.16-4750	16	4750	0.6	7.505
L1770.16-4800	16	4800	0.6	7.584
L1770.16-4850	16	4850	0.6	7.663
L1770.16-4900	16	4900	0.6	7.742
L1770.16-4950	16	4950	0.6	7.821
L1770.16-5000	16	5000	0.6	7.900

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.16-5050	16	5050	0.6	7.979
L1770.16-5100	16	5100	0.6	8.058
L1770.16-5150	16	5150	0.6	8.137
L1770.16-5200	16	5200	0.6	8.216
L1770.16-5250	16	5250	0.6	8.295
L1770.16-5300	16	5300	0.6	8.374
L1770.16-5350	16	5350	0.6	8.453
L1770.16-5400	16	5400	0.6	8.532
L1770.16-5450	16	5450	0.6	8.611
L1770.16-5500	16	5500	0.6	8.690
L1770.16-5550	16	5550	0.6	8.769
L1770.16-5600	16	5600	0.6	8.848
L1770.16-5650	16	5650	0.6	8.927
L1770.16-5700	16	5700	0.6	9.006
L1770.16-5750	16	5750	0.6	9.085
L1770.16-5800	16	5800	0.6	9.164
L1770.16-5850	16	5850	0.6	9.243
L1770.16-5900	16	5900	0.6	9.322
L1770.16-5950	16	5950	0.6	9.401
L1770.16-6000	16	6000	0.6	9.480

20Ø Hardened Steel Shafts



L1770.20



Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,2mm/m.

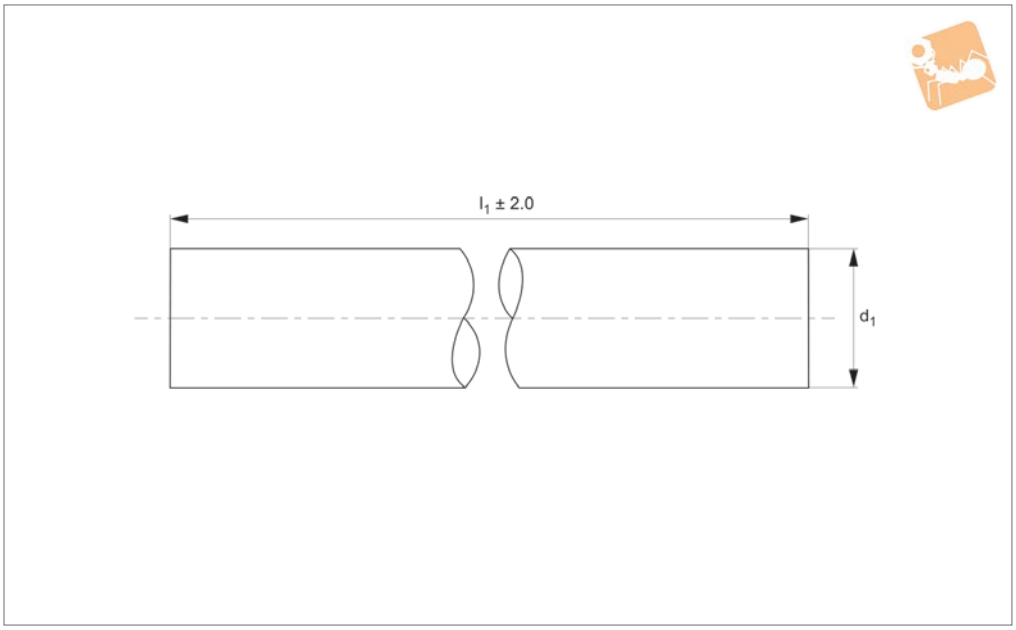
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

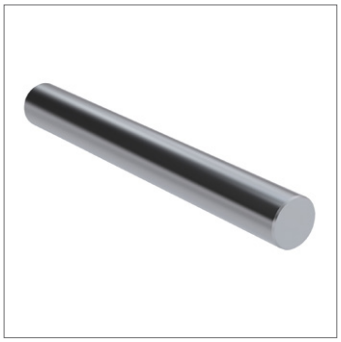
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.20-0100	20	100	0.9	0.247
L1770.20-0150	20	150	0.9	0.371
L1770.20-0200	20	200	0.9	0.494
L1770.20-0250	20	250	0.9	0.618
L1770.20-0300	20	300	0.9	0.741
L1770.20-0350	20	350	0.9	0.865
L1770.20-0400	20	400	0.9	0.988
L1770.20-0450	20	450	0.9	1.112
L1770.20-0500	20	500	0.9	1.235
L1770.20-0550	20	550	0.9	1.359
L1770.20-0600	20	600	0.9	1.482
L1770.20-0650	20	650	0.9	1.606
L1770.20-0700	20	700	0.9	1.729
L1770.20-0750	20	750	0.9	1.853
L1770.20-0800	20	800	0.9	1.976
L1770.20-0850	20	850	0.9	2.100
L1770.20-0900	20	900	0.9	2.223
L1770.20-0950	20	950	0.9	2.347
L1770.20-1000	20	1000	0.9	2.470
L1770.20-1050	20	1050	0.9	2.594
L1770.20-1100	20	1100	0.9	2.717
L1770.20-1150	20	1150	0.9	2.841
L1770.20-1200	20	1200	0.9	2.964
L1770.20-1250	20	1250	0.9	3.088
L1770.20-1300	20	1300	0.9	3.211
L1770.20-1350	20	1350	0.9	3.335
L1770.20-1400	20	1400	0.9	3.458
L1770.20-1450	20	1450	0.9	3.582
L1770.20-1500	20	1500	0.9	3.705
L1770.20-1550	20	1550	0.9	3.829
L1770.20-1600	20	1600	0.9	3.952

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.20-1650	20	1650	0.9	4.076
L1770.20-1700	20	1700	0.9	4.199
L1770.20-1750	20	1750	0.9	4.323
L1770.20-1800	20	1800	0.9	4.446
L1770.20-1850	20	1850	0.9	4.570
L1770.20-1900	20	1900	0.9	4.693
L1770.20-1950	20	1950	0.9	4.817
L1770.20-2000	20	2000	0.9	4.940
L1770.20-2050	20	2050	0.9	5.064
L1770.20-2100	20	2100	0.9	5.187
L1770.20-2150	20	2150	0.9	5.311
L1770.20-2200	20	2200	0.9	5.434
L1770.20-2250	20	2250	0.9	5.558
L1770.20-2300	20	2300	0.9	5.681
L1770.20-2350	20	2350	0.9	5.805
L1770.20-2400	20	2400	0.9	5.928
L1770.20-2450	20	2450	0.9	6.052
L1770.20-2500	20	2500	0.9	6.175
L1770.20-2550	20	2550	0.9	6.299
L1770.20-2600	20	2600	0.9	6.422
L1770.20-2650	20	2650	0.9	6.546
L1770.20-2700	20	2700	0.9	6.669
L1770.20-2750	20	2750	0.9	6.793
L1770.20-2800	20	2800	0.9	6.916
L1770.20-2850	20	2850	0.9	7.040
L1770.20-2900	20	2900	0.9	7.163
L1770.20-2950	20	2950	0.9	7.287
L1770.20-3000	20	3000	0.9	7.410
L1770.20-3050	20	3050	0.9	7.534
L1770.20-3100	20	3100	0.9	7.657
L1770.20-3150	20	3150	0.9	7.781
L1770.20-3200	20	3200	0.9	7.904
L1770.20-3250	20	3250	0.9	8.028
L1770.20-3300	20	3300	0.9	8.151
L1770.20-3350	20	3350	0.9	8.275
L1770.20-3400	20	3400	0.9	8.398
L1770.20-3450	20	3450	0.9	8.522
L1770.20-3500	20	3500	0.9	8.645
L1770.20-3550	20	3550	0.9	8.769
L1770.20-3600	20	3600	0.9	8.892
L1770.20-3650	20	3650	0.9	9.016
L1770.20-3700	20	3700	0.9	9.139
L1770.20-3750	20	3750	0.9	9.263
L1770.20-3800	20	3800	0.9	9.386
L1770.20-3850	20	3850	0.9	9.510
L1770.20-3900	20	3900	0.9	9.633
L1770.20-3950	20	3950	0.9	9.757
L1770.20-4000	20	4000	0.9	9.880
L1770.20-4050	20	4050	0.9	10.004
L1770.20-4100	20	4100	0.9	10.127
L1770.20-4150	20	4150	0.9	10.251
L1770.20-4200	20	4200	0.9	10.374
L1770.20-4250	20	4250	0.9	10.498
L1770.20-4300	20	4300	0.9	10.621
L1770.20-4350	20	4350	0.9	10.745
L1770.20-4400	20	4400	0.9	10.868
L1770.20-4450	20	4450	0.9	10.992
L1770.20-4500	20	4500	0.9	11.115
L1770.20-4550	20	4550	0.9	11.239
L1770.20-4600	20	4600	0.9	11.362
L1770.20-4650	20	4650	0.9	11.486
L1770.20-4700	20	4700	0.9	11.609
L1770.20-4750	20	4750	0.9	11.733
L1770.20-4800	20	4800	0.9	11.856
L1770.20-4850	20	4850	0.9	11.980
L1770.20-4900	20	4900	0.9	12.103
L1770.20-4950	20	4950	0.9	12.227
L1770.20-5000	20	5000	0.9	12.350

20Ø Hardened Steel Shafts

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1770.20-5050	20	5050	0.9	12.474
L1770.20-5100	20	5100	0.9	12.597
L1770.20-5150	20	5150	0.9	12.721
L1770.20-5200	20	5200	0.9	12.844
L1770.20-5250	20	5250	0.9	12.968
L1770.20-5300	20	5300	0.9	13.091
L1770.20-5350	20	5350	0.9	13.215
L1770.20-5400	20	5400	0.9	13.338
L1770.20-5450	20	5450	0.9	13.462
L1770.20-5500	20	5500	0.9	13.585
L1770.20-5550	20	5550	0.9	13.709
L1770.20-5600	20	5600	0.9	13.832
L1770.20-5650	20	5650	0.9	13.956
L1770.20-5700	20	5700	0.9	14.079
L1770.20-5750	20	5750	0.9	14.203
L1770.20-5800	20	5800	0.9	14.326
L1770.20-5850	20	5850	0.9	14.450
L1770.20-5900	20	5900	0.9	14.573
L1770.20-5950	20	5950	0.9	14.697
L1770.20-6000	20	6000	0.9	14.820





L1770.25

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.25-0100	25	100	0.9	0.385
L1770.25-0150	25	150	0.9	0.578
L1770.25-0200	25	200	0.9	0.770
L1770.25-0250	25	250	0.9	0.963
L1770.25-0300	25	300	0.9	1.155
L1770.25-0350	25	350	0.9	1.348
L1770.25-0400	25	400	0.9	1.540
L1770.25-0450	25	450	0.9	1.733
L1770.25-0500	25	500	0.9	1.925
L1770.25-0550	25	550	0.9	2.118
L1770.25-0600	25	600	0.9	2.310
L1770.25-0650	25	650	0.9	2.503
L1770.25-0700	25	700	0.9	2.695
L1770.25-0750	25	750	0.9	2.888
L1770.25-0800	25	800	0.9	3.080
L1770.25-0850	25	850	0.9	3.273
L1770.25-0900	25	900	0.9	3.465
L1770.25-0950	25	950	0.9	3.658
L1770.25-1000	25	1000	0.9	3.850
L1770.25-1050	25	1050	0.9	4.043
L1770.25-1100	25	1100	0.9	4.235
L1770.25-1150	25	1150	0.9	4.428
L1770.25-1200	25	1200	0.9	4.620
L1770.25-1250	25	1250	0.9	4.813
L1770.25-1300	25	1300	0.9	5.005
L1770.25-1350	25	1350	0.9	5.198
L1770.25-1400	25	1400	0.9	5.390
L1770.25-1450	25	1450	0.9	5.583
L1770.25-1500	25	1500	0.9	5.775
L1770.25-1550	25	1550	0.9	5.968
L1770.25-1600	25	1600	0.9	6.160

25Ø Hardened Steel Shafts

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.25-1650	25	1650	0.9	6.353
L1770.25-1700	25	1700	0.9	6.545
L1770.25-1750	25	1750	0.9	6.738
L1770.25-1800	25	1800	0.9	6.930
L1770.25-1850	25	1850	0.9	7.123
L1770.25-1900	25	1900	0.9	7.315
L1770.25-1950	25	1950	0.9	7.508
L1770.25-2000	25	2000	0.9	7.700
L1770.25-2050	25	2050	0.9	7.893
L1770.25-2100	25	2100	0.9	8.085
L1770.25-2150	25	2150	0.9	8.278
L1770.25-2200	25	2200	0.9	8.470
L1770.25-2250	25	2250	0.9	8.663
L1770.25-2300	25	2300	0.9	8.855
L1770.25-2350	25	2350	0.9	9.048
L1770.25-2400	25	2400	0.9	9.240
L1770.25-2450	25	2450	0.9	9.433
L1770.25-2500	25	2500	0.9	9.625
L1770.25-2550	25	2550	0.9	9.818
L1770.25-2600	25	2600	0.9	10.010
L1770.25-2650	25	2650	0.9	10.203
L1770.25-2700	25	2700	0.9	10.395
L1770.25-2750	25	2750	0.9	10.588
L1770.25-2800	25	2800	0.9	10.780
L1770.25-2850	25	2850	0.9	10.973
L1770.25-2900	25	2900	0.9	11.165
L1770.25-2950	25	2950	0.9	11.358
L1770.25-3000	25	3000	0.9	11.550
L1770.25-3050	25	3050	0.9	11.743
L1770.25-3100	25	3100	0.9	11.935
L1770.25-3150	25	3150	0.9	12.128
L1770.25-3200	25	3200	0.9	12.320
L1770.25-3250	25	3250	0.9	12.513
L1770.25-3300	25	3300	0.9	12.705
L1770.25-3350	25	3350	0.9	12.898
L1770.25-3400	25	3400	0.9	13.090
L1770.25-3450	25	3450	0.9	13.283
L1770.25-3500	25	3500	0.9	13.475
L1770.25-3550	25	3550	0.9	13.668
L1770.25-3600	25	3600	0.9	13.860
L1770.25-3650	25	3650	0.9	14.053
L1770.25-3700	25	3700	0.9	14.245
L1770.25-3750	25	3750	0.9	14.438
L1770.25-3800	25	3800	0.9	14.630
L1770.25-3850	25	3850	0.9	14.823
L1770.25-3900	25	3900	0.9	15.015
L1770.25-3950	25	3950	0.9	15.208
L1770.25-4000	25	4000	0.9	15.400
L1770.25-4050	25	4050	0.9	15.593
L1770.25-4100	25	4100	0.9	15.785
L1770.25-4150	25	4150	0.9	15.978
L1770.25-4200	25	4200	0.9	16.170
L1770.25-4250	25	4250	0.9	16.363
L1770.25-4300	25	4300	0.9	16.555
L1770.25-4350	25	4350	0.9	16.748
L1770.25-4400	25	4400	0.9	16.940
L1770.25-4450	25	4450	0.9	17.133
L1770.25-4500	25	4500	0.9	17.325
L1770.25-4550	25	4550	0.9	17.518
L1770.25-4600	25	4600	0.9	17.710
L1770.25-4650	25	4650	0.9	17.903
L1770.25-4700	25	4700	0.9	18.095
L1770.25-4750	25	4750	0.9	18.288
L1770.25-4800	25	4800	0.9	18.480
L1770.25-4850	25	4850	0.9	18.673
L1770.25-4900	25	4900	0.9	18.865
L1770.25-4950	25	4950	0.9	19.058
L1770.25-5000	25	5000	0.9	19.250

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.25-5050	25	5050	0.9	19.443
L1770.25-5100	25	5100	0.9	19.635
L1770.25-5150	25	5150	0.9	19.828
L1770.25-5200	25	5200	0.9	20.020
L1770.25-5250	25	5250	0.9	20.213
L1770.25-5300	25	5300	0.9	20.405
L1770.25-5350	25	5350	0.9	20.598
L1770.25-5400	25	5400	0.9	20.790
L1770.25-5450	25	5450	0.9	20.983
L1770.25-5500	25	5500	0.9	21.175
L1770.25-5550	25	5550	0.9	21.368
L1770.25-5600	25	5600	0.9	21.560
L1770.25-5650	25	5650	0.9	21.753
L1770.25-5700	25	5700	0.9	21.945
L1770.25-5750	25	5750	0.9	22.138
L1770.25-5800	25	5800	0.9	22.330
L1770.25-5850	25	5850	0.9	22.523
L1770.25-5900	25	5900	0.9	22.715
L1770.25-5950	25	5950	0.9	22.908
L1770.25-6000	25	6000	0.9	23.100

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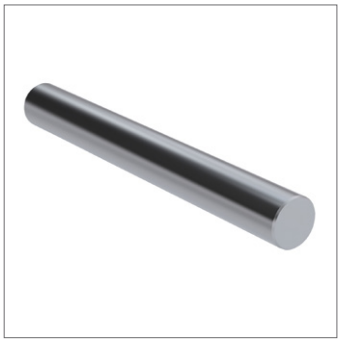

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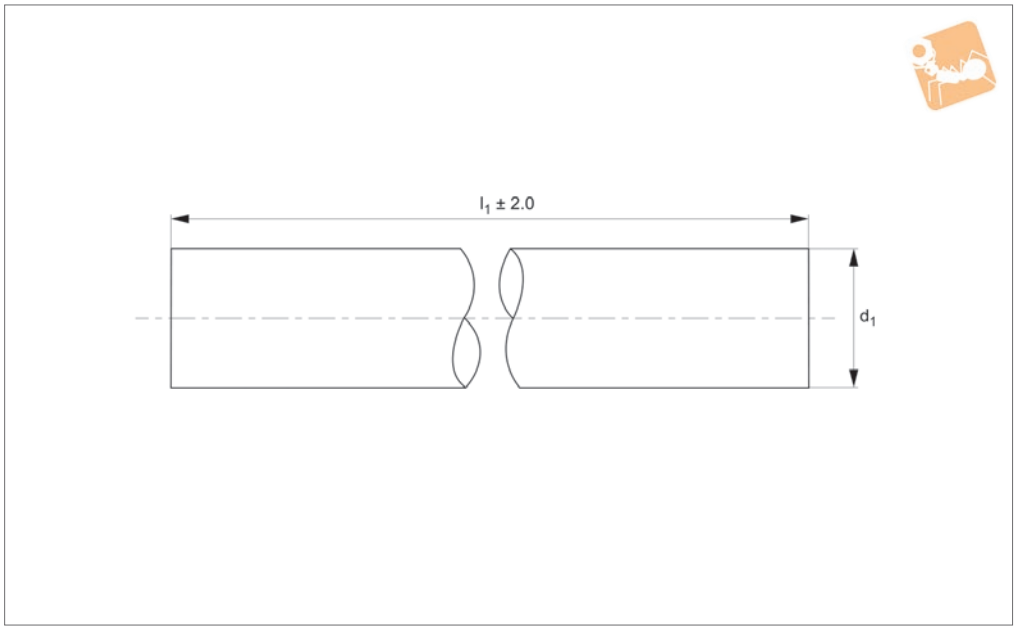

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm², tensile strength: >630 N/mm².

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d_1	l	l_1	Depth of hardness min.	Weight kg
L1770.30-0100	30	100	100	1.5	0.555
L1770.30-0150	30	150	150	1.5	0.833
L1770.30-0200	30	200	200	1.5	1.110
L1770.30-0250	30	250	250	1.5	1.388
L1770.30-0300	30	300	300	1.5	1.665
L1770.30-0350	30	350	350	1.5	1.943
L1770.30-0400	30	400	400	1.5	2.220
L1770.30-0450	30	450	450	1.5	2.498
L1770.30-0500	30	500	500	1.5	2.775
L1770.30-0550	30	550	550	1.5	3.053
L1770.30-0600	30	600	600	1.5	3.330
L1770.30-0650	30	650	650	1.5	3.608
L1770.30-0700	30	700	700	1.5	3.885
L1770.30-0750	30	750	750	1.5	4.163
L1770.30-0800	30	800	800	1.5	4.440
L1770.30-0850	30	-	850	1.5	4.718
L1770.30-0900	30	-	900	1.5	4.995
L1770.30-0950	30	-	950	1.5	5.273
L1770.30-1000	30	-	1000	1.5	5.550
L1770.30-1050	30	-	1050	1.5	5.828
L1770.30-1100	30	-	1100	1.5	6.105
L1770.30-1150	30	-	1150	1.5	6.383
L1770.30-1200	30	-	1200	1.5	6.660
L1770.30-1250	30	-	1250	1.5	6.938
L1770.30-1300	30	-	1300	1.5	7.215
L1770.30-1350	30	-	1350	1.5	7.493
L1770.30-1400	30	-	1400	1.5	7.770
L1770.30-1450	30	-	1450	1.5	8.048
L1770.30-1500	30	-	1500	1.5	8.325
L1770.30-1550	30	-	1550	1.5	8.603
L1770.30-1600	30	-	1600	1.5	8.880

Order No.	d_1	l	l_1	Depth of hardness min.	Weight kg
L1770.30-1650	30	-	1650	1.5	9.158
L1770.30-1700	30	-	1700	1.5	9.435
L1770.30-1750	30	-	1750	1.5	9.713
L1770.30-1800	30	-	1800	1.5	9.990
L1770.30-1850	30	-	1850	1.5	10.268
L1770.30-1900	30	-	1900	1.5	10.545
L1770.30-1950	30	-	1950	1.5	10.823
L1770.30-2000	30	-	2000	1.5	11.100
L1770.30-2050	30	-	2050	1.5	11.378
L1770.30-2100	30	-	2100	1.5	11.655
L1770.30-2150	30	-	2150	1.5	11.933
L1770.30-2200	30	-	2200	1.5	12.210
L1770.30-2250	30	-	2250	1.5	12.488
L1770.30-2300	30	-	2300	1.5	12.765
L1770.30-2350	30	-	2350	1.5	13.043
L1770.30-2400	30	-	2400	1.5	13.320
L1770.30-2450	30	-	2450	1.5	13.598
L1770.30-2500	30	-	2500	1.5	13.875
L1770.30-2550	30	-	2550	1.5	14.153
L1770.30-2600	30	-	2600	1.5	14.430
L1770.30-2650	30	-	2650	1.5	14.708
L1770.30-2700	30	-	2700	1.5	14.985
L1770.30-2750	30	-	2750	1.5	15.263
L1770.30-2800	30	-	2800	1.5	15.540
L1770.30-2850	30	-	2850	1.5	15.818
L1770.30-2900	30	-	2900	1.5	16.095
L1770.30-2950	30	-	2950	1.5	16.373
L1770.30-3000	30	-	3000	1.5	16.650
L1770.30-3050	30	-	3050	1.5	16.928
L1770.30-3100	30	-	3100	1.5	17.205
L1770.30-3150	30	-	3150	1.5	17.483
L1770.30-3200	30	-	3200	1.5	17.760
L1770.30-3250	30	-	3250	1.5	18.038
L1770.30-3300	30	-	3300	1.5	18.315
L1770.30-3350	30	-	3350	1.5	18.593
L1770.30-3400	30	-	3400	1.5	18.870
L1770.30-3450	30	-	3450	1.5	19.148
L1770.30-3500	30	-	3500	1.5	19.425
L1770.30-3550	30	-	3550	1.5	19.703
L1770.30-3600	30	-	3600	1.5	19.980
L1770.30-3650	30	-	3650	1.5	20.258
L1770.30-3700	30	-	3700	1.5	20.535
L1770.30-3750	30	-	3750	1.5	20.813
L1770.30-3800	30	-	3800	1.5	21.090
L1770.30-3850	30	-	3850	1.5	21.368
L1770.30-3900	30	-	3900	1.5	21.645
L1770.30-3950	30	-	3950	1.5	21.923
L1770.30-4000	30	-	4000	1.5	22.200
L1770.30-4050	30	-	4050	1.5	22.478
L1770.30-4100	30	-	4100	1.5	22.755
L1770.30-4150	30	-	4150	1.5	23.033
L1770.30-4200	30	-	4200	1.5	23.310
L1770.30-4250	30	-	4250	1.5	23.588
L1770.30-4300	30	-	4300	1.5	23.865
L1770.30-4350	30	-	4350	1.5	24.143
L1770.30-4400	30	-	4400	1.5	24.420
L1770.30-4450	30	-	4450	1.5	24.698
L1770.30-4500	30	-	4500	1.5	24.975
L1770.30-4550	30	-	4550	1.5	25.253
L1770.30-4600	30	-	4600	1.5	25.530
L1770.30-4650	30	-	4650	1.5	25.808
L1770.30-4700	30	-	4700	1.5	26.085
L1770.30-4750	30	-	4750	1.5	26.363
L1770.30-4800	30	-	4800	1.5	26.640
L1770.30-4850	30	-	4850	1.5	26.918
L1770.30-4900	30	-	4900	1.5	27.195
L1770.30-4950	30	-	4950	1.5	27.473
L1770.30-5000	30	-	5000	1.5	27.750

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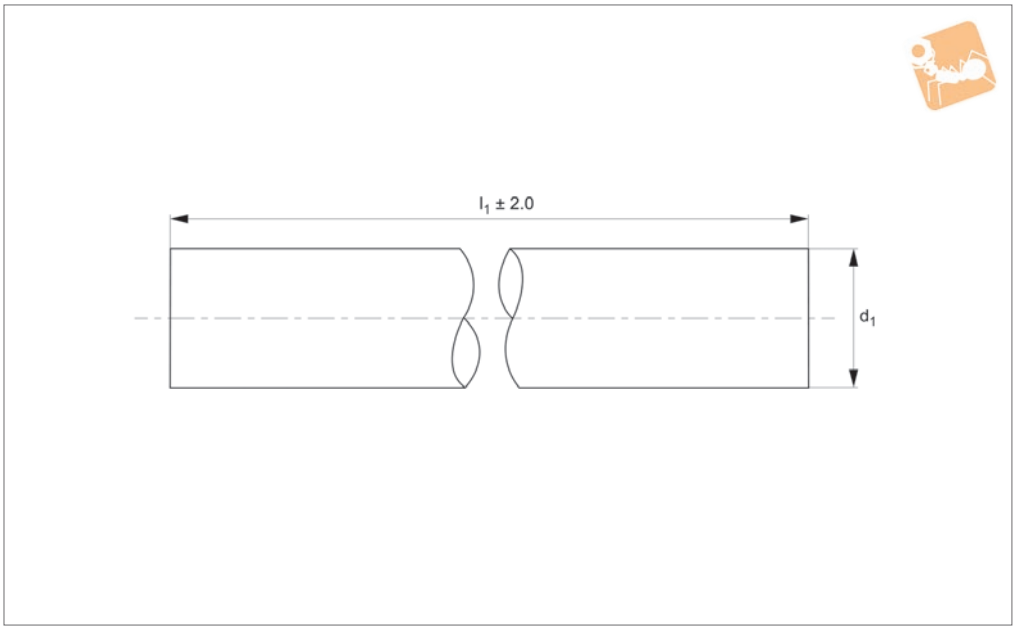
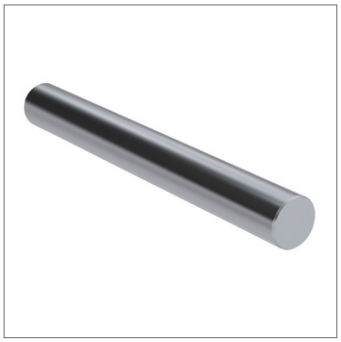
Order No.	d_1	l	l_1	Depth of hardness min.	Weight kg
L1770.30-5050	30	-	5050	1.5	28.028
L1770.30-5100	30	-	5100	1.5	28.305
L1770.30-5150	30	-	5150	1.5	28.583
L1770.30-5200	30	-	5200	1.5	28.860
L1770.30-5250	30	-	5250	1.5	29.138
L1770.30-5300	30	-	5300	1.5	29.415
L1770.30-5350	30	-	5350	1.5	29.693
L1770.30-5400	30	-	5400	1.5	29.970
L1770.30-5450	30	-	5450	1.5	30.248
L1770.30-5500	30	-	5500	1.5	30.525
L1770.30-5550	30	-	5550	1.5	30.803
L1770.30-5600	30	-	5600	1.5	31.080
L1770.30-5650	30	-	5650	1.5	31.358
L1770.30-5700	30	-	5700	1.5	31.635
L1770.30-5750	30	-	5750	1.5	31.913
L1770.30-5800	30	-	5800	1.5	32.190
L1770.30-5850	30	-	5850	1.5	32.468
L1770.30-5900	30	-	5900	1.5	32.745
L1770.30-5950	30	-	5950	1.5	33.023
L1770.30-6000	30	-	6000	1.5	33.300





L1770.40

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.40-0100	40	100	1.5	0.987
L1770.40-0150	40	150	1.5	1.481
L1770.40-0200	40	200	1.5	1.974
L1770.40-0250	40	250	1.5	2.468
L1770.40-0300	40	300	1.5	2.961
L1770.40-0350	40	350	1.5	3.455
L1770.40-0400	40	400	1.5	3.948
L1770.40-0450	40	450	1.5	4.442
L1770.40-0500	40	500	1.5	4.935
L1770.40-0550	40	550	1.5	5.429
L1770.40-0600	40	600	1.5	5.922
L1770.40-0650	40	650	1.5	6.416
L1770.40-0700	40	700	1.5	6.909
L1770.40-0750	40	750	1.5	7.403
L1770.40-0800	40	800	1.5	7.896
L1770.40-0850	40	850	1.5	8.390
L1770.40-0900	40	900	1.5	8.883
L1770.40-0950	40	950	1.5	9.377
L1770.40-1000	40	1000	1.5	9.870
L1770.40-1050	40	1050	1.5	10.364
L1770.40-1100	40	1100	1.5	10.857
L1770.40-1150	40	1150	1.5	11.351
L1770.40-1200	40	1200	1.5	11.844
L1770.40-1250	40	1250	1.5	12.338
L1770.40-1300	40	1300	1.5	12.831
L1770.40-1350	40	1350	1.5	13.325
L1770.40-1400	40	1400	1.5	13.818
L1770.40-1450	40	1450	1.5	14.312
L1770.40-1500	40	1500	1.5	14.805
L1770.40-1550	40	1550	1.5	15.299
L1770.40-1600	40	1600	1.5	15.792

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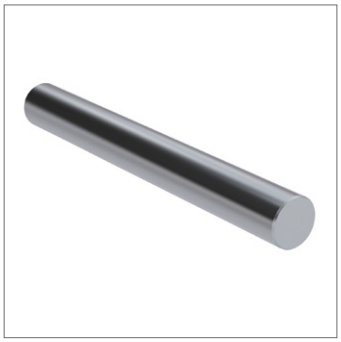
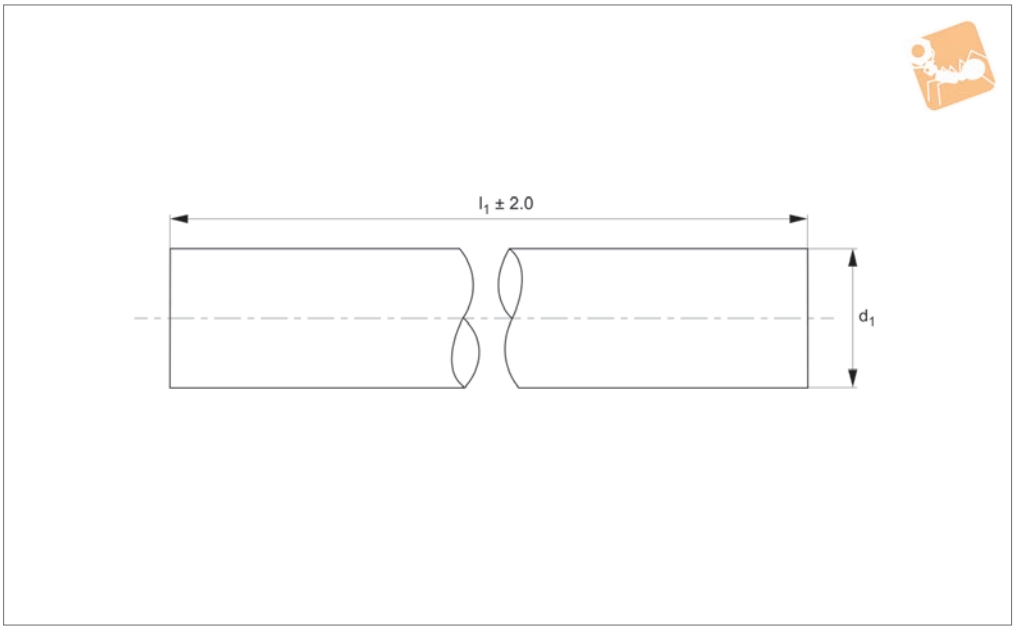
Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.40-1650	40	1650	1.5	16.286
L1770.40-1700	40	1700	1.5	16.779
L1770.40-1750	40	1750	1.5	17.273
L1770.40-1800	40	1800	1.5	17.766
L1770.40-1850	40	1850	1.5	18.260
L1770.40-1900	40	1900	1.5	18.753
L1770.40-1950	40	1950	1.5	19.247
L1770.40-2000	40	2000	1.5	19.740
L1770.40-2050	40	2050	1.5	20.234
L1770.40-2100	40	2100	1.5	20.727
L1770.40-2150	40	2150	1.5	21.221
L1770.40-2200	40	2200	1.5	21.714
L1770.40-2250	40	2250	1.5	22.208
L1770.40-2300	40	2300	1.5	22.701
L1770.40-2350	40	2350	1.5	23.195
L1770.40-2400	40	2400	1.5	23.688
L1770.40-2450	40	2450	1.5	24.182
L1770.40-2500	40	2500	1.5	24.675
L1770.40-2550	40	2550	1.5	25.169
L1770.40-2600	40	2600	1.5	25.662
L1770.40-2650	40	2650	1.5	26.156
L1770.40-2700	40	2700	1.5	26.649
L1770.40-2750	40	2750	1.5	27.143
L1770.40-2800	40	2800	1.5	27.636
L1770.40-2850	40	2850	1.5	28.130
L1770.40-2900	40	2900	1.5	28.623
L1770.40-2950	40	2950	1.5	29.117
L1770.40-3000	40	3000	1.5	29.610
L1770.40-3050	40	3050	1.5	30.104
L1770.40-3100	40	3100	1.5	30.597
L1770.40-3150	40	3150	1.5	31.091
L1770.40-3200	40	3200	1.5	31.584
L1770.40-3250	40	3250	1.5	32.078
L1770.40-3300	40	3300	1.5	32.571
L1770.40-3350	40	3350	1.5	33.065
L1770.40-3400	40	3400	1.5	33.558
L1770.40-3450	40	3450	1.5	34.052
L1770.40-3500	40	3500	1.5	34.545
L1770.40-3550	40	3550	1.5	35.039
L1770.40-3600	40	3600	1.5	35.532
L1770.40-3650	40	3650	1.5	36.026
L1770.40-3700	40	3700	1.5	36.519
L1770.40-3750	40	3750	1.5	37.013
L1770.40-3800	40	3800	1.5	37.506
L1770.40-3850	40	3850	1.5	38.000
L1770.40-3900	40	3900	1.5	38.493
L1770.40-3950	40	3950	1.5	38.987
L1770.40-4000	40	4000	1.5	39.480
L1770.40-4050	40	4050	1.5	39.974
L1770.40-4100	40	4100	1.5	40.467
L1770.40-4150	40	4150	1.5	40.961
L1770.40-4200	40	4200	1.5	41.454
L1770.40-4250	40	4250	1.5	41.948
L1770.40-4300	40	4300	1.5	42.441
L1770.40-4350	40	4350	1.5	42.935
L1770.40-4400	40	4400	1.5	43.428
L1770.40-4450	40	4450	1.5	43.922
L1770.40-4500	40	4500	1.5	44.415
L1770.40-4550	40	4550	1.5	44.909
L1770.40-4600	40	4600	1.5	45.402
L1770.40-4650	40	4650	1.5	45.896
L1770.40-4700	40	4700	1.5	46.389
L1770.40-4750	40	4750	1.5	46.883
L1770.40-4800	40	4800	1.5	47.376
L1770.40-4850	40	4850	1.5	47.870
L1770.40-4900	40	4900	1.5	48.363
L1770.40-4950	40	4950	1.5	48.857
L1770.40-5000	40	5000	1.5	49.350

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.40-5050	40	5050	1.5	49.844
L1770.40-5100	40	5100	1.5	50.337
L1770.40-5150	40	5150	1.5	50.831
L1770.40-5200	40	5200	1.5	51.324
L1770.40-5250	40	5250	1.5	51.818
L1770.40-5300	40	5300	1.5	52.311
L1770.40-5350	40	5350	1.5	52.805
L1770.40-5400	40	5400	1.5	53.298
L1770.40-5450	40	5450	1.5	53.792
L1770.40-5500	40	5500	1.5	54.285
L1770.40-5550	40	5550	1.5	54.779
L1770.40-5600	40	5600	1.5	55.272
L1770.40-5650	40	5650	1.5	55.766
L1770.40-5700	40	5700	1.5	56.259
L1770.40-5750	40	5750	1.5	56.753
L1770.40-5800	40	5800	1.5	57.246
L1770.40-5850	40	5850	1.5	57.740
L1770.40-5900	40	5900	1.5	58.233
L1770.40-5950	40	5950	1.5	58.727
L1770.40-6000	40	6000	1.5	59.220

50Ø Hardened Steel Shafts



L1770.50



Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm², tensile strength: >630 N/mm².

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

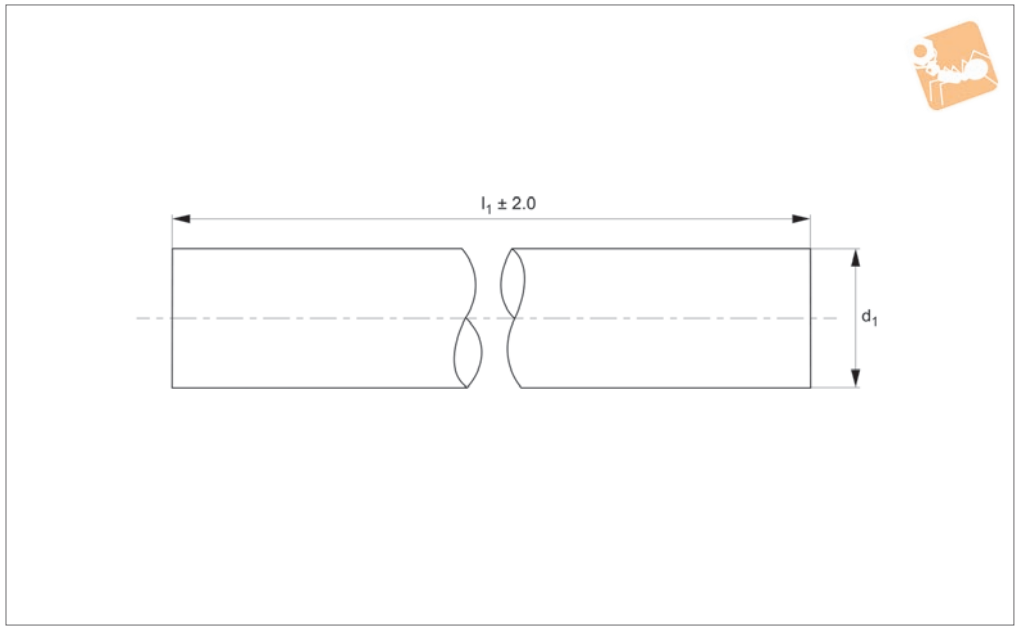
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

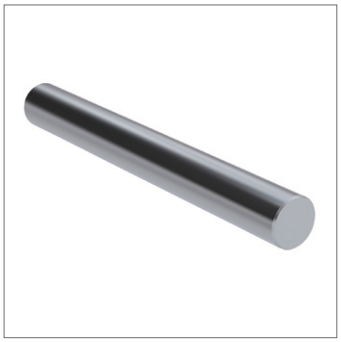
Order No.	d tol. h6	d_1	l_1	Depth of hardness min.	Weight kg
L1770.50-0100	-	50	100	1.5	1.540
L1770.50-0150	-	50	150	1.5	2.310
L1770.50-0200	-	50	200	1.5	3.080
L1770.50-0250	-	50	250	1.5	3.850
L1770.50-0300	-	50	300	1.5	4.620
L1770.50-0350	-	50	350	1.5	5.390
L1770.50-0400	-	50	400	1.5	6.160
L1770.50-0450	-	50	450	1.5	6.930
L1770.50-0500	-	50	500	1.5	7.700
L1770.50-0550	-	50	550	1.5	8.470
L1770.50-0600	-	50	600	1.5	9.240
L1770.50-0650	-	50	650	1.5	10.010
L1770.50-0700	-	50	700	1.5	10.780
L1770.50-0750	-	50	750	1.5	11.550
L1770.50-0800	-	50	800	1.5	12.320
L1770.50-0850	-	50	850	1.5	13.090
L1770.50-0900	-	50	900	1.5	13.860
L1770.50-1000	-	50	1000	1.5	15.400
L1770.50-1050	-	50	1050	1.5	16.170
L1770.50-1100	-	50	1100	1.5	16.940
L1770.50-1150	-	50	1150	1.5	17.710
L1770.50-1200	-	50	1200	1.5	18.480
L1770.50-1250	-	50	1250	1.5	19.250
L1770.50-1300	-	50	1300	1.5	20.020
L1770.50-1350	-	50	1350	1.5	20.790
L1770.50-1400	-	50	1400	1.5	21.560
L1770.50-1450	-	50	1450	1.5	22.330
L1770.50-1500	-	50	1500	1.5	23.100
L1770.50-1550	-	50	1550	1.5	23.870
L1770.50-1600	-	50	1600	1.5	24.640
L1770.50-1650	-	50	1650	1.5	25.410

Order No.	d tol. h6	d_1	l_1	Depth of hardness min.	Weight kg
L1770.50-1700	-	50	1700	1.5	26.180
L1770.50-1750	-	50	1750	1.5	26.950
L1770.50-1800	-	50	1800	1.5	27.720
L1770.50-1850	-	50	1850	1.5	28.490
L1770.50-1900	-	50	1900	1.5	29.260
L1770.50-1950	-	50	1950	1.5	30.030
L1770.50-2000	-	50	2000	1.5	30.800
L1770.50-2050	-	50	2050	1.5	31.570
L1770.50-2100	-	50	2100	1.5	32.340
L1770.50-2150	-	50	2150	1.5	33.110
L1770.50-2200	-	50	2200	1.5	33.880
L1770.50-2250	-	50	2250	1.5	34.650
L1770.50-2300	-	50	2300	1.5	35.420
L1770.50-2350	-	50	2350	1.5	36.190
L1770.50-2400	-	50	2400	1.5	36.960
L1770.50-2450	-	50	2450	1.5	37.730
L1770.50-2500	-	50	2500	1.5	38.500
L1770.50-2550	-	50	2550	1.5	39.270
L1770.50-2600	-	50	2600	1.5	40.040
L1770.50-2650	-	50	2650	1.5	40.810
L1770.50-2700	-	50	2700	1.5	41.580
L1770.50-2750	-	50	2750	1.5	42.350
L1770.50-2800	-	50	2800	1.5	43.120
L1770.50-2850	-	50	2850	1.5	43.890
L1770.50-2900	-	50	2900	1.5	44.660
L1770.50-2950	-	50	2950	1.5	45.430
L1770.50-3000	-	50	3000	1.5	46.200
L1770.50-3050	-	50	3050	1.5	46.970
L1770.50-3100	-	50	3100	1.5	47.740
L1770.50-3150	-	50	3150	1.5	48.510
L1770.50-3200	-	50	3200	1.5	49.280
L1770.50-3250	-	50	3250	1.5	50.050
L1770.50-3300	-	50	3300	1.5	50.820
L1770.50-3350	-	50	3350	1.5	51.590
L1770.50-3400	-	50	3400	1.5	52.360
L1770.50-3450	-	50	3450	1.5	53.130
L1770.50-3500	-	50	3500	1.5	53.900
L1770.50-3550	-	50	3550	1.5	54.670
L1770.50-3600	-	50	3600	1.5	55.440
L1770.50-3650	-	50	3650	1.5	56.210
L1770.50-3700	-	50	3700	1.5	56.980
L1770.50-3750	-	50	3750	1.5	57.750
L1770.50-3800	-	50	3800	1.5	58.520
L1770.50-3850	-	50	3850	1.5	59.290
L1770.50-3900	-	50	3900	1.5	60.060
L1770.50-3950	-	50	3950	1.5	60.830
L1770.50-4000	-	50	4000	1.5	61.600
L1770.50-4050	-	50	4050	1.5	62.370
L1770.50-4100	-	50	4100	1.5	63.140
L1770.50-4150	-	50	4150	1.5	63.910
L1770.50-4200	-	50	4200	1.5	64.680
L1770.50-4250	-	50	4250	1.5	65.450
L1770.50-4300	-	50	4300	1.5	66.220
L1770.50-4350	-	50	4350	1.5	66.990
L1770.50-4400	-	50	4400	1.5	67.760
L1770.50-4450	-	50	4450	1.5	68.530
L1770.50-4500	-	50	4500	1.5	69.300
L1770.50-4550	-	50	4550	1.5	70.070
L1770.50-4600	-	50	4600	1.5	70.840
L1770.50-4650	-	50	4650	1.5	71.610
L1770.50-4700	-	50	4700	1.5	72.380
L1770.50-4750	-	50	4750	1.5	73.150
L1770.50-4800	-	50	4800	1.5	73.920
L1770.50-4850	-	50	4850	1.5	74.690
L1770.50-4900	-	50	4900	1.5	75.460
L1770.50-4950	-	50	4950	1.5	76.230
L1770.50-5000	-	50	5000	1.5	77.000
L1770.50-5050	-	50	5050	1.5	77.770

50Ø Hardened Steel Shafts

Order No.	d tol. h6	d_1	l_1	Depth of hardness min.	Weight kg
L1770.50-5100	-	50	5100	1.5	78.540
L1770.50-5150	-	50	5150	1.5	79.310
L1770.50-5200	50	-	5200	1.5	80.080
L1770.50-5250	50	-	5250	1.5	80.850
L1770.50-5300	50	-	5300	1.5	81.620
L1770.50-5350	50	-	5350	1.5	82.390
L1770.50-5400	50	-	5400	1.5	83.160
L1770.50-5450	50	-	5450	1.5	83.930
L1770.50-5500	50	-	5500	1.5	84.700
L1770.50-5550	50	-	5550	1.5	85.470
L1770.50-5600	50	-	5600	1.5	86.240
L1770.50-5650	-	50	5650	1.5	87.010
L1770.50-5700	-	50	5700	1.5	87.780
L1770.50-5750	-	50	5750	1.5	88.550
L1770.50-5800	-	50	5800	1.5	89.320
L1770.50-5850	-	50	5850	1.5	90.090
L1770.50-5900	-	50	5900	1.5	90.860
L1770.50-5950	-	50	5950	1.5	91.630
L1770.50-6000	50	-	6000	1.5	92.400





L1770.60

Material
Carbon steel (070M55,Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >325 N/mm^2, tensile strength: >630 N/mm^2.

Technical Notes
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.60-0100	60	100	1.5	2.220
L1770.60-0150	60	150	1.5	3.330
L1770.60-0200	60	200	1.5	4.440
L1770.60-0250	60	250	1.5	5.550
L1770.60-0300	60	300	1.5	6.660
L1770.60-0350	60	350	1.5	7.770
L1770.60-0400	60	400	1.5	8.880
L1770.60-0450	60	450	1.5	9.990
L1770.60-0500	60	500	1.5	11.100
L1770.60-0550	60	550	1.5	12.210
L1770.60-0600	60	600	1.5	13.320
L1770.60-0650	60	650	1.5	14.430
L1770.60-0700	60	700	1.5	15.540
L1770.60-0750	60	750	1.5	16.650
L1770.60-0800	60	800	1.5	17.760
L1770.60-0850	60	850	1.5	18.870
L1770.60-0900	60	900	1.5	19.980
L1770.60-0950	60	950	1.5	21.090
L1770.60-1000	60	1000	1.5	22.200
L1770.60-1050	60	1050	1.5	23.310
L1770.60-1100	60	1100	1.5	24.420
L1770.60-1150	60	1150	1.5	25.530
L1770.60-1200	60	1200	1.5	26.640
L1770.60-1250	60	1250	1.5	27.750
L1770.60-1300	60	1300	1.5	28.860
L1770.60-1350	60	1350	1.5	29.970
L1770.60-1400	60	1400	1.5	31.080
L1770.60-1450	60	1450	1.5	32.190
L1770.60-1500	60	1500	1.5	33.300

60Ø Hardened Steel Shafts

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.60-1550	60	1550	1.5	34.410
L1770.60-1600	60	1600	1.5	35.520
L1770.60-1650	60	1650	1.5	36.630
L1770.60-1700	60	1700	1.5	37.740
L1770.60-1750	60	1750	1.5	38.850
L1770.60-1800	60	1800	1.5	39.960
L1770.60-1850	60	1850	1.5	41.070
L1770.60-1900	60	1900	1.5	42.180
L1770.60-1950	60	1950	1.5	43.290
L1770.60-2000	60	2000	1.5	44.400
L1770.60-2050	60	2050	1.5	45.510
L1770.60-2100	60	2100	1.5	46.620
L1770.60-2150	60	2150	1.5	47.730
L1770.60-2200	60	2200	1.5	48.840
L1770.60-2250	60	2250	1.5	49.950
L1770.60-2300	60	2300	1.5	51.060
L1770.60-2350	60	2350	1.5	52.170
L1770.60-2400	60	2400	1.5	53.280
L1770.60-2450	60	2450	1.5	54.390
L1770.60-2500	60	2500	1.5	55.500
L1770.60-2550	60	2550	1.5	56.610
L1770.60-2600	60	2600	1.5	57.720
L1770.60-2650	60	2650	1.5	58.830
L1770.60-2700	60	2700	1.5	59.940
L1770.60-2750	60	2750	1.5	61.050
L1770.60-2800	60	2800	1.5	62.160
L1770.60-2850	60	2850	1.5	63.270
L1770.60-2900	60	2900	1.5	64.380
L1770.60-2950	60	2950	1.5	65.490
L1770.60-3000	60	3000	1.5	66.600
L1770.60-3050	60	3050	1.5	67.710
L1770.60-3100	60	3100	1.5	68.820
L1770.60-3150	60	3150	1.5	69.930
L1770.60-3200	60	3200	1.5	71.040
L1770.60-3250	60	3250	1.5	72.150
L1770.60-3300	60	3300	1.5	73.260
L1770.60-3350	60	3350	1.5	74.370
L1770.60-3400	60	3400	1.5	75.480
L1770.60-3450	60	3450	1.5	76.590
L1770.60-3500	60	3500	1.5	77.700
L1770.60-3550	60	3550	1.5	78.810
L1770.60-3600	60	3600	1.5	79.920
L1770.60-3650	60	3650	1.5	81.030
L1770.60-3700	60	3700	1.5	82.140
L1770.60-3750	60	3750	1.5	83.250
L1770.60-3800	60	3800	1.5	84.360
L1770.60-3850	60	3850	1.5	85.470
L1770.60-3900	60	3900	1.5	86.580
L1770.60-3950	60	3950	1.5	87.690
L1770.60-4000	60	4000	1.5	88.800
L1770.60-4050	60	4050	1.5	89.910
L1770.60-4100	60	4100	1.5	91.020
L1770.60-4150	60	4150	1.5	92.130
L1770.60-4200	60	4200	1.5	93.240
L1770.60-4250	60	4250	1.5	94.350
L1770.60-4300	60	4300	1.5	95.460
L1770.60-4350	60	4350	1.5	96.570
L1770.60-4400	60	4400	1.5	97.680
L1770.60-4450	60	4450	1.5	98.790
L1770.60-4500	60	4500	1.5	99.900
L1770.60-4550	60	4550	1.5	101.010
L1770.60-4600	60	4600	1.5	102.120
L1770.60-4650	60	4650	1.5	103.230
L1770.60-4700	60	4700	1.5	104.340
L1770.60-4750	60	4750	1.5	105.450
L1770.60-4800	60	4800	1.5	106.560
L1770.60-4850	60	4850	1.5	107.670
L1770.60-4900	60	4900	1.5	108.780

Order No.	d_1	l_1	Depth of hardness min.	Weight kg
L1770.60-4950	60	4950	1.5	109.890
L1770.60-5000	60	5000	1.5	111.000
L1770.60-5050	60	5050	1.5	112.110
L1770.60-5100	60	5100	1.5	113.220
L1770.60-5150	60	5150	1.5	114.330
L1770.60-5200	60	5200	1.5	115.440
L1770.60-5250	60	5250	1.5	116.550
L1770.60-5300	60	5300	1.5	117.660
L1770.60-5350	60	5350	1.5	118.770
L1770.60-5400	60	5400	1.5	119.880
L1770.60-5450	60	5450	1.5	120.990
L1770.60-5500	60	5500	1.5	122.100
L1770.60-5550	60	5550	1.5	123.210
L1770.60-5600	60	5600	1.5	124.320
L1770.60-5650	60	5650	1.5	125.430
L1770.60-5700	60	5700	1.5	126.540
L1770.60-5750	60	5750	1.5	127.650
L1770.60-5800	60	5800	1.5	128.760
L1770.60-5850	60	5850	1.5	129.870
L1770.60-5900	60	5900	1.5	130.980
L1770.60-5950	60	5950	1.5	132.090
L1770.60-6000	60	6000	1.5	133.200

Linear Shafts from Automotion Components

Hardened steel linear shafting (L1770 – L1771)

Carbon steel to BS 070M55 hardened to 60-65 HRC. Carbon Steel B.S. 070M55 is a medium carbon steel which is used when greater strength and hardness is desired than in it's as rolled condition. Extreme size accuracy, straightness and concentricity are combined to minimise wear in high speed applications. Suitable for use with all types of linear bushings.

Corrosion resistant steel (L1772)

440C is a high carbon chromium martensitic stainless steel, generally supplied in the annealed condition with a maximum hardness of 50-55 HR_C. Characterised by good corrosion resistance in mild domestic and industrial environments, including fresh water, organic materials, mild acids, various petroleum products, coupled with extreme high strength, hardness and wear resistance when in the hardened and tempered condition. Used for parts requiring a combination of excellent wear resistance, plus reasonable corrosion resistance. Typical applications are: ball bearings and races, bushings, cutlery, chisels, knife blades, pump parts, surgical instruments, valve seats etc. Material magnetic in all conditions. Suitable for use with all types of linear bushings.

Stainless steel AISI 303 (L1773)

303 is a free machining chromium-nickel austenitic stainless steel with good strength and good corrosion resistance, as supplied in the annealed condition. Characterised by excellent machinability and non galling properties due to its higher sulphur content, which has the effect of slightly lowering its corrosion resistance. It is however, fairly resistant to general atmospheric corrosion, general foodstuffs, sterilizing solutions, dyestuffs, most organic chemicals, plus some inorganic chemicals. But has very limited resistance to acids. 303 cannot be hardened by thermal treatment, but strength and hardness can be increased substantially by cold working, with subsequent reduction in ductility. It is used primarily for production runs involving extensive machining, or complex parts requiring excellent machinability. Typical uses are: architectural components, food processing equipment, dairy equipment, dying industry, hardware and kitchenware manufacturing and allied industries. Commonly used to manufacture bolts and nuts, bushes, gears, shafts, valve bodies and fittings etc. Material is non magnetic in the annealed condition, but can become mildly magnetic following heavy cold working. Annealing is required to rectify if necessary.

Not suitable for use with linear ball bushings, please use ceramic bearings.

Stainless steel AISI 303 (L1774)

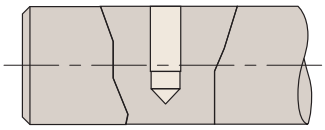
316 is a chromium-nickel-molybdenum austenitic stainless steel with good strength and excellent corrosion resistance, as supplied in the annealed condition. Characterised by high corrosion resistance in marine and industrial atmospheres, it exhibits excellent resistance to chloride attack and against complex sulphur compounds employed in the pulp and paper processing industries. The addition of 2% to 3% of molybdenum increases its resistance to pitting corrosion and improves its creep resistance at elevated temperatures. Also it displays good oxidation resistance at elevated temperatures and has excellent weldability. AISI 316 cannot be hardened by thermal treatment, but strength and hardness can be increased substantially by cold working, with subsequent reduction in ductility. It is used extensively by the marine, chemical, petrochemical, pulp and paper, textile, transport, manufacturing and allied industries. Typical uses are: architectural components, textile equipment, pulp and paper processing equipment, marine equipment and fittings, photographic equipment and x-ray equipment etc. Material non magnetic in the annealed condition, but can become mildly magnetic following heavy cold working. Annealing is required to rectify if necessary.

Note: Optimum corrosion resistance is achieved in the annealed condition. Not suitable for use with linear ball bushings; please use ceramic bearings.

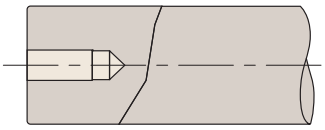
As well as standard cut to length shafting, Automotion can offer many specials including imperial shafts, different tolerances and non-standard diameters.

We can also machine shafts to your requirements so if you have a specific requirement, please contact our Sales team. Below are examples of just some of the machining we can do to shafting on a quick turnaround.

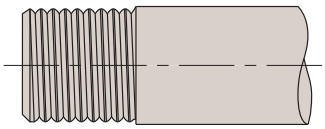
Drilled and tapped radial hole



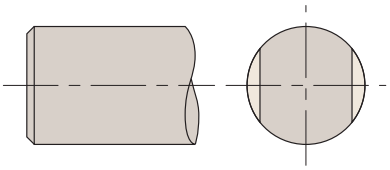
Drilled and tapped coaxial hole



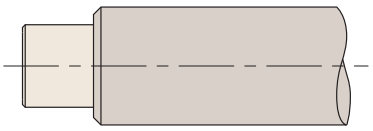
Threaded diameters



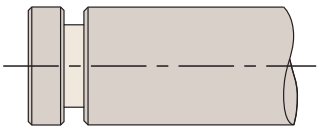
Flats



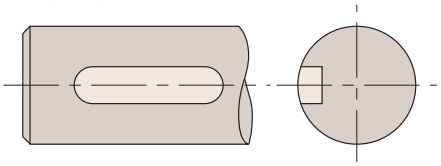
Reduced diameter



Circlip groove

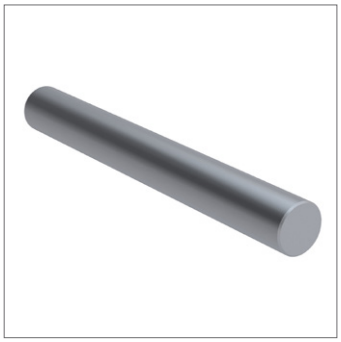


Keyways



Linear Shafts from Automotion Components

Ø6 Hardened Stainless Shafts
for linear bearings



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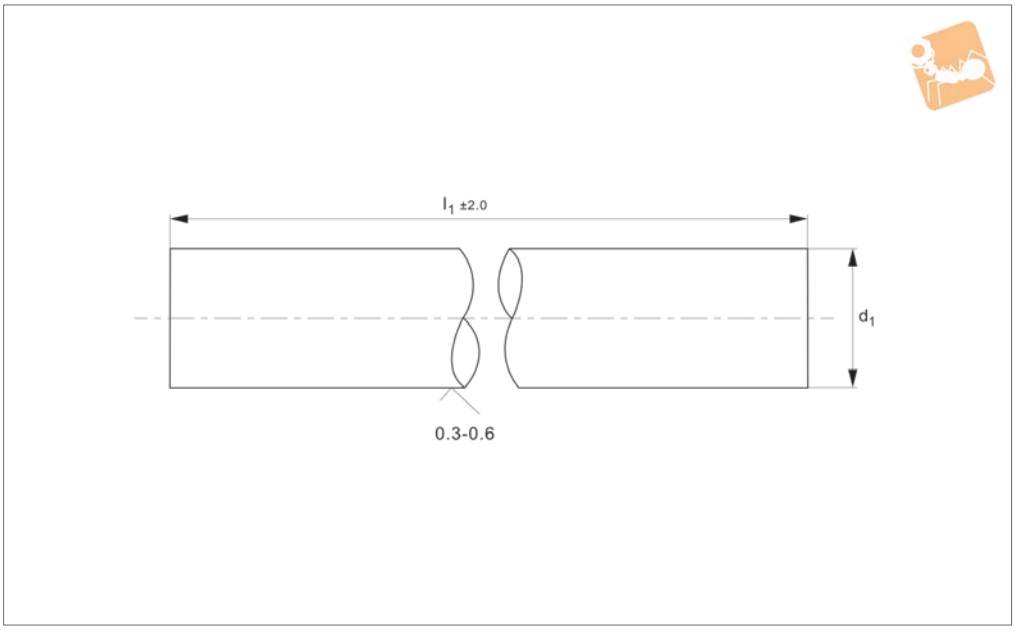


Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

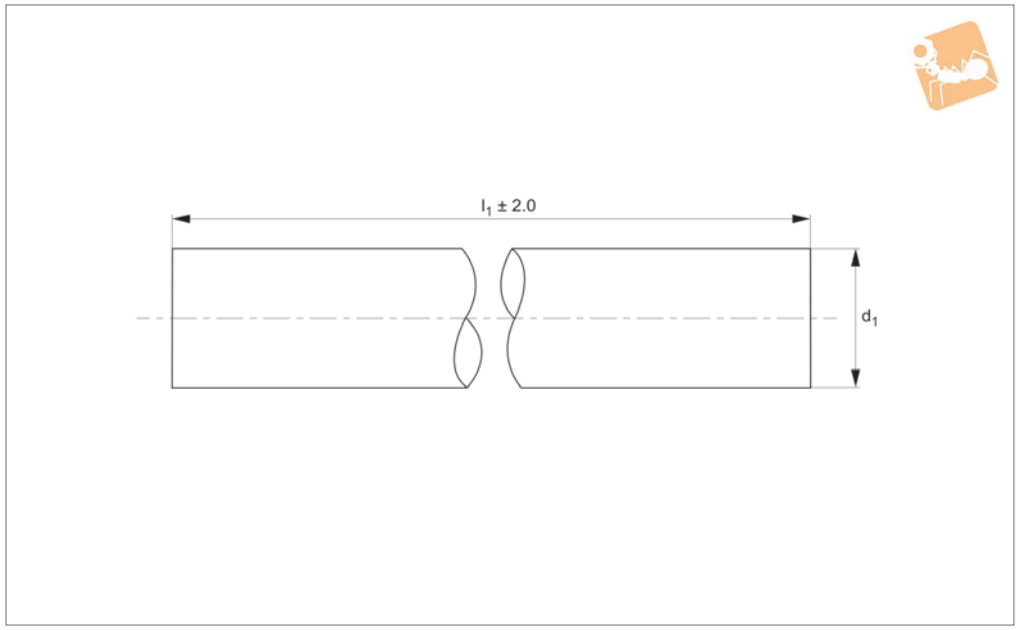
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.06-0100	6	100	0.4	0.023
L1772.06-0150	6	150	0.4	0.035
L1772.06-0200	6	200	0.4	0.046
L1772.06-0250	6	250	0.4	0.058
L1772.06-0300	6	300	0.4	0.069
L1772.06-0350	6	350	0.4	0.081
L1772.06-0400	6	400	0.4	0.092
L1772.06-0450	6	450	0.4	0.104
L1772.06-0500	6	500	0.4	0.115
L1772.06-0550	6	550	0.4	0.127
L1772.06-0600	6	600	0.4	0.138
L1772.06-0650	6	650	0.4	0.150
L1772.06-0700	6	700	0.4	0.161
L1772.06-0750	6	750	0.4	0.173
L1772.06-0800	6	800	0.4	0.184
L1772.06-0850	6	850	0.4	0.196
L1772.06-0900	6	900	0.4	0.207
L1772.06-0950	6	950	0.4	0.219
L1772.06-1000	6	1000	0.4	0.230
L1772.06-1050	6	1050	0.4	0.242
L1772.06-1100	6	1100	0.4	0.253
L1772.06-1150	6	1150	0.4	0.265
L1772.06-1200	6	1200	0.4	0.276
L1772.06-1250	6	1250	0.4	0.288
L1772.06-1300	6	1300	0.4	0.299
L1772.06-1350	6	1350	0.4	0.311
L1772.06-1400	6	1400	0.4	0.322
L1772.06-1450	6	1450	0.4	0.334
L1772.06-1500	6	1500	0.4	0.345
L1772.06-1550	6	1550	0.4	0.357
L1772.06-1600	6	1600	0.4	0.368

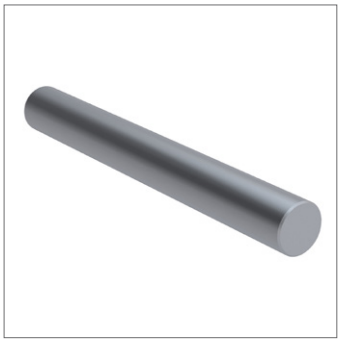
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.06-1650	6	1650	0.4	0.380
L1772.06-1700	6	1700	0.4	0.391
L1772.06-1750	6	1750	0.4	0.403
L1772.06-1800	6	1800	0.4	0.414
L1772.06-1850	6	1850	0.4	0.426
L1772.06-1900	6	1900	0.4	0.437
L1772.06-1950	6	1950	0.4	0.449
L1772.06-2000	6	2000	0.4	0.460
L1772.06-2050	6	2050	0.4	0.472
L1772.06-2100	6	2100	0.4	0.483
L1772.06-2150	6	2150	0.4	0.495
L1772.06-2200	6	2200	0.4	0.506
L1772.06-2250	6	2250	0.4	0.518
L1772.06-2300	6	2300	0.4	0.529
L1772.06-2350	6	2350	0.4	0.541
L1772.06-2400	6	2400	0.4	0.552
L1772.06-2450	6	2450	0.4	0.564
L1772.06-2500	6	2500	0.4	0.575
L1772.06-2550	6	2550	0.4	0.587
L1772.06-2600	6	2600	0.4	0.598
L1772.06-2650	6	2650	0.4	0.610
L1772.06-2700	6	2700	0.4	0.621
L1772.06-2750	6	2750	0.4	0.633
L1772.06-2800	6	2800	0.4	0.644
L1772.06-2850	6	2850	0.4	0.656
L1772.06-2900	6	2900	0.4	0.667
L1772.06-2950	6	2950	0.4	0.679
L1772.06-3000	6	3000	0.4	0.690
L1772.06-3050	6	3050	0.4	0.702
L1772.06-3100	6	3100	0.4	0.713
L1772.06-3150	6	3150	0.4	0.725
L1772.06-3200	6	3200	0.4	0.736
L1772.06-3250	6	3250	0.4	0.748
L1772.06-3300	6	3300	0.4	0.759
L1772.06-3350	6	3350	0.4	0.771
L1772.06-3400	6	3400	0.4	0.782
L1772.06-3450	6	3450	0.4	0.794
L1772.06-3500	6	3500	0.4	0.805
L1772.06-3550	6	3550	0.4	0.817
L1772.06-3600	6	3600	0.4	0.828
L1772.06-3650	6	3650	0.4	0.840
L1772.06-3700	6	3700	0.4	0.851
L1772.06-3750	6	3750	0.4	0.863
L1772.06-3800	6	3800	0.4	0.874
L1772.06-3850	6	3850	0.4	0.886
L1772.06-3900	6	3900	0.4	0.897
L1772.06-3950	6	3950	0.4	0.909
L1772.06-4000	6	4000	0.4	0.920
L1772.06-4050	6	4050	0.4	0.932
L1772.06-4100	6	4100	0.4	0.943
L1772.06-4150	6	4150	0.4	0.955
L1772.06-4200	6	4200	0.4	0.966
L1772.06-4250	6	4250	0.4	0.978
L1772.06-4300	6	4300	0.4	0.989
L1772.06-4350	6	4350	0.4	1.001
L1772.06-4400	6	4400	0.4	1.012
L1772.06-4450	6	4450	0.4	1.024
L1772.06-4500	6	4500	0.4	1.035
L1772.06-4550	6	4550	0.4	1.047
L1772.06-4600	6	4600	0.4	1.058
L1772.06-4650	6	4650	0.4	1.070
L1772.06-4700	6	4700	0.4	1.081
L1772.06-4750	6	4750	0.4	1.093
L1772.06-4800	6	4800	0.4	1.104
L1772.06-4850	6	4850	0.4	1.116
L1772.06-4900	6	4900	0.4	1.127
L1772.06-4950	6	4950	0.4	1.139
L1772.06-5000	6	5000	0.4	1.150

Ø6 Hardened Stainless Shafts

for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.06-5050	6	5050	0.4	1.162
L1772.06-5100	6	5100	0.4	1.173
L1772.06-5150	6	5150	0.4	1.185
L1772.06-5200	6	5200	0.4	1.196
L1772.06-5250	6	5250	0.4	1.208
L1772.06-5300	6	5300	0.4	1.219
L1772.06-5350	6	5350	0.4	1.231
L1772.06-5400	6	5400	0.4	1.242
L1772.06-5450	6	5450	0.4	1.254
L1772.06-5500	6	5500	0.4	1.265
L1772.06-5550	6	5550	0.4	1.277
L1772.06-5600	6	5600	0.4	1.288
L1772.06-5650	6	5650	0.4	1.300
L1772.06-5700	6	5700	0.4	1.311
L1772.06-5750	6	5750	0.4	1.323
L1772.06-5800	6	5800	0.4	1.334
L1772.06-5850	6	5850	0.4	1.346
L1772.06-5900	6	5900	0.4	1.357
L1772.06-5950	6	5950	0.4	1.369
L1772.06-6000	6	6000	0.4	1.380





L1772.08

Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

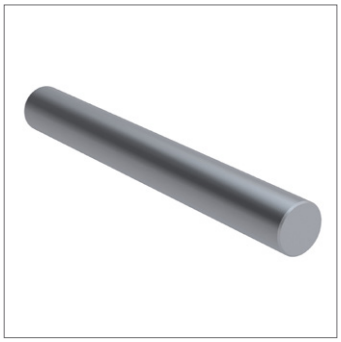
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.08-0100	8	100	0.4	0.040
L1772.08-0150	8	150	0.4	0.060
L1772.08-0200	8	200	0.4	0.080
L1772.08-0250	8	250	0.4	0.100
L1772.08-0300	8	300	0.4	0.120
L1772.08-0350	8	350	0.4	0.140
L1772.08-0400	8	400	0.4	0.160
L1772.08-0450	8	450	0.4	0.180
L1772.08-0500	8	500	0.4	0.200
L1772.08-0550	8	550	0.4	0.220
L1772.08-0600	8	600	0.4	0.240
L1772.08-0650	8	650	0.4	0.260
L1772.08-0700	8	700	0.4	0.280
L1772.08-0750	8	750	0.4	0.300
L1772.08-0800	8	800	0.4	0.320
L1772.08-0850	8	850	0.4	0.340
L1772.08-0900	8	900	0.4	0.360
L1772.08-0950	8	950	0.4	0.380
L1772.08-1000	8	1000	0.4	0.400
L1772.08-1050	8	1050	0.4	0.420
L1772.08-1100	8	1100	0.4	0.440
L1772.08-1150	8	1150	0.4	0.460
L1772.08-1200	8	1200	0.4	0.480
L1772.08-1250	8	1250	0.4	0.500
L1772.08-1300	8	1300	0.4	0.520
L1772.08-1350	8	1350	0.4	0.540
L1772.08-1400	8	1400	0.4	0.560
L1772.08-1450	8	1450	0.4	0.580
L1772.08-1500	8	1500	0.4	0.600
L1772.08-1550	8	1550	0.4	0.620
L1772.08-1600	8	1600	0.4	0.640

Ø8 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.08-1650	8	1650	0.4	0.660
L1772.08-1700	8	1700	0.4	0.680
L1772.08-1750	8	1750	0.4	0.700
L1772.08-1800	8	1800	0.4	0.720
L1772.08-1850	8	1850	0.4	0.740
L1772.08-1900	8	1900	0.4	0.760
L1772.08-1950	8	1950	0.4	0.780
L1772.08-2000	8	2000	0.4	0.800
L1772.08-2050	8	2050	0.4	0.820
L1772.08-2100	8	2100	0.4	0.840
L1772.08-2150	8	2150	0.4	0.860
L1772.08-2200	8	2200	0.4	0.880
L1772.08-2250	8	2250	0.4	0.900
L1772.08-2300	8	2300	0.4	0.920
L1772.08-2350	8	2350	0.4	0.940
L1772.08-2400	8	2400	0.4	0.960
L1772.08-2450	8	2450	0.4	0.980
L1772.08-2500	8	2500	0.4	1.000
L1772.08-2550	8	2550	0.4	1.020
L1772.08-2600	8	2600	0.4	1.040
L1772.08-2650	8	2650	0.4	1.060
L1772.08-2700	8	2700	0.4	1.080
L1772.08-2750	8	2750	0.4	1.100
L1772.08-2800	8	2800	0.4	1.120
L1772.08-2850	8	2850	0.4	1.140
L1772.08-2900	8	2900	0.4	1.160
L1772.08-2950	8	2950	0.4	1.180
L1772.08-3000	8	3000	0.4	1.200
L1772.08-3050	8	3050	0.4	1.220
L1772.08-3100	8	3100	0.4	1.240
L1772.08-3150	8	3150	0.4	1.260
L1772.08-3200	8	3200	0.4	1.280
L1772.08-3250	8	3250	0.4	1.300
L1772.08-3300	8	3300	0.4	1.320
L1772.08-3350	8	3350	0.4	1.340
L1772.08-3400	8	3400	0.4	1.360
L1772.08-3450	8	3450	0.4	1.380
L1772.08-3500	8	3500	0.4	1.400
L1772.08-3550	8	3550	0.4	1.420
L1772.08-3600	8	3600	0.4	1.440
L1772.08-3650	8	3650	0.4	1.460
L1772.08-3700	8	3700	0.4	1.480
L1772.08-3750	8	3750	0.4	1.500
L1772.08-3800	8	3800	0.4	1.520
L1772.08-3850	8	3850	0.4	1.540
L1772.08-3900	8	3900	0.4	1.560
L1772.08-3950	8	3950	0.4	1.580
L1772.08-4000	8	4000	0.4	1.600
L1772.08-4050	8	4050	0.4	1.620
L1772.08-4100	8	4100	0.4	1.640
L1772.08-4150	8	4150	0.4	1.660
L1772.08-4200	8	4200	0.4	1.680
L1772.08-4250	8	4250	0.4	1.700
L1772.08-4300	8	4300	0.4	1.720
L1772.08-4350	8	4350	0.4	1.740
L1772.08-4400	8	4400	0.4	1.760
L1772.08-4450	8	4450	0.4	1.780
L1772.08-4500	8	4500	0.4	1.800
L1772.08-4550	8	4550	0.4	1.820
L1772.08-4600	8	4600	0.4	1.840
L1772.08-4650	8	4650	0.4	1.860
L1772.08-4700	8	4700	0.4	1.880
L1772.08-4750	8	4750	0.4	1.900
L1772.08-4800	8	4800	0.4	1.920
L1772.08-4850	8	4850	0.4	1.940
L1772.08-4900	8	4900	0.4	1.960
L1772.08-4950	8	4950	0.4	1.980
L1772.08-5000	8	5000	0.4	2.000

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.08-5050	8	5050	0.4	2.020
L1772.08-5100	8	5100	0.4	2.040
L1772.08-5150	8	5150	0.4	2.060
L1772.08-5200	8	5200	0.4	2.080
L1772.08-5250	8	5250	0.4	2.100
L1772.08-5300	8	5300	0.4	2.120
L1772.08-5350	8	5350	0.4	2.140
L1772.08-5400	8	5400	0.4	2.160
L1772.08-5450	8	5450	0.4	2.180
L1772.08-5500	8	5500	0.4	2.200
L1772.08-5550	8	5550	0.4	2.220
L1772.08-5600	8	5600	0.4	2.240
L1772.08-5650	8	5650	0.4	2.260
L1772.08-5700	8	5700	0.4	2.280
L1772.08-5750	8	5750	0.4	2.300
L1772.08-5800	8	5800	0.4	2.320
L1772.08-5850	8	5850	0.4	2.340
L1772.08-5900	8	5900	0.4	2.360
L1772.08-5950	8	5950	0.4	2.380
L1772.08-6000	8	6000	0.4	2.400

Ø10 Hardened Stainless Shafts
for linear bearings



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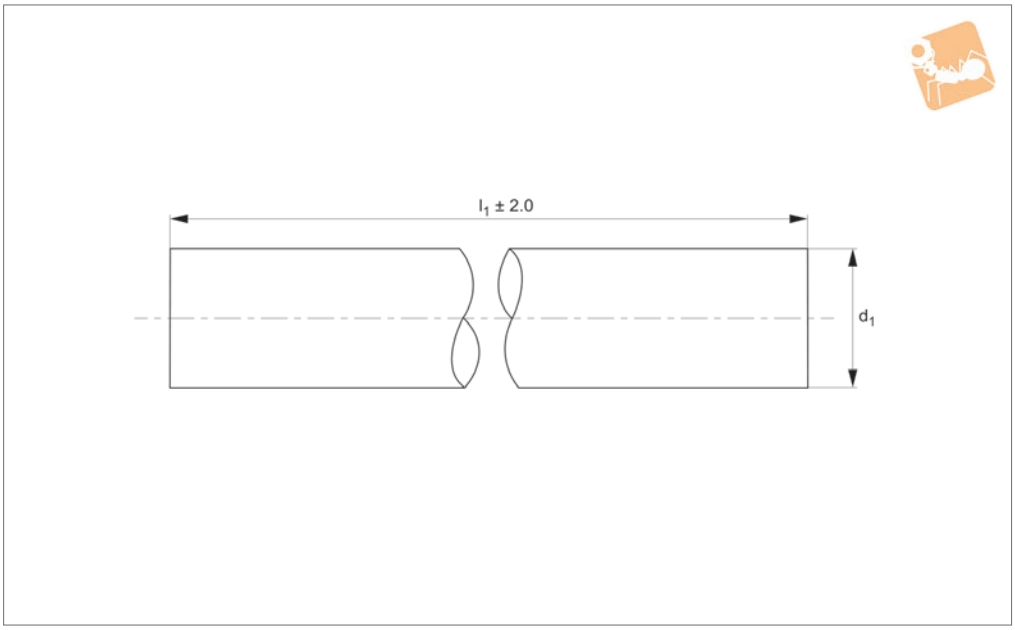


Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,2mm/m.

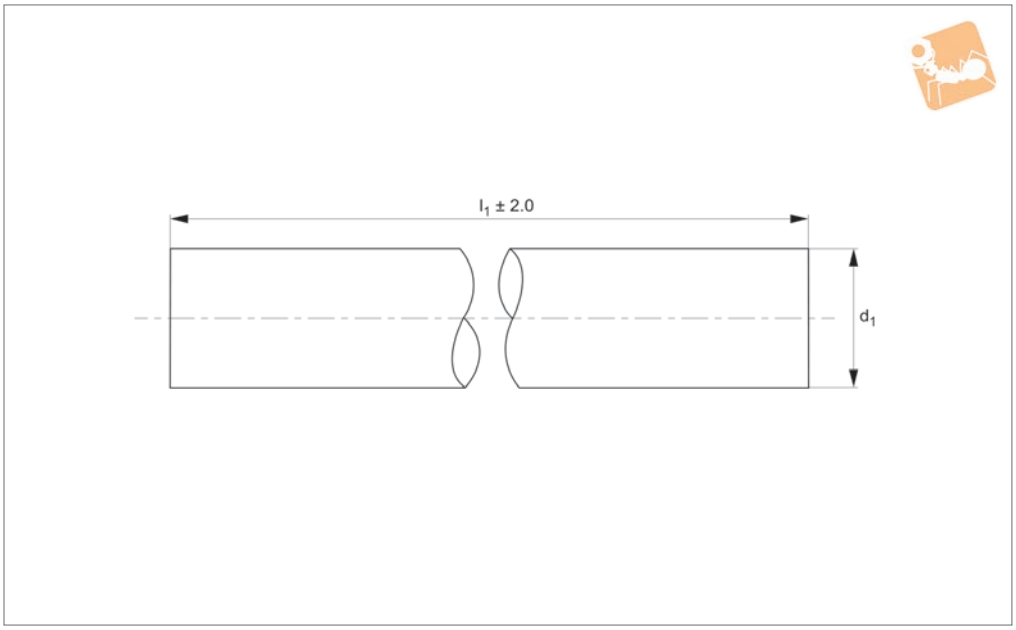
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

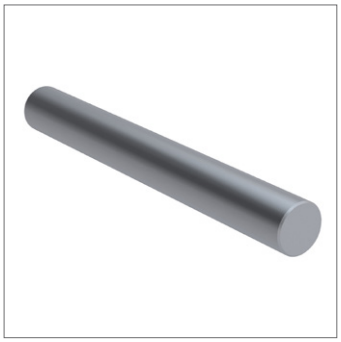
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.10-0100	10	100	0.4	0.062
L1772.10-0150	10	150	0.4	0.093
L1772.10-0200	10	200	0.4	0.124
L1772.10-0250	10	250	0.4	0.155
L1772.10-0300	10	300	0.4	0.186
L1772.10-0350	10	350	0.4	0.217
L1772.10-0400	10	400	0.4	0.248
L1772.10-0450	10	450	0.4	0.279
L1772.10-0500	10	500	0.4	0.310
L1772.10-0550	10	550	0.4	0.341
L1772.10-0600	10	600	0.4	0.372
L1772.10-0650	10	650	0.4	0.403
L1772.10-0700	10	700	0.4	0.434
L1772.10-0750	10	750	0.4	0.465
L1772.10-0800	10	800	0.4	0.496
L1772.10-0850	10	850	0.4	0.527
L1772.10-0900	10	900	0.4	0.558
L1772.10-0950	10	950	0.4	0.589
L1772.10-1000	10	1000	0.4	0.620
L1772.10-1050	10	1050	0.4	0.651
L1772.10-1100	10	1100	0.4	0.682
L1772.10-1150	10	1150	0.4	0.713
L1772.10-1200	10	1200	0.4	0.744
L1772.10-1250	10	1250	0.4	0.775
L1772.10-1300	10	1300	0.4	0.806
L1772.10-1350	10	1350	0.4	0.837
L1772.10-1400	10	1400	0.4	0.868
L1772.10-1450	10	1450	0.4	0.899
L1772.10-1500	10	1500	0.4	0.930
L1772.10-1550	10	1550	0.4	0.961
L1772.10-1600	10	1600	0.4	0.992

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.10-1650	10	1650	0.4	1.023
L1772.10-1700	10	1700	0.4	1.054
L1772.10-1750	10	1750	0.4	1.085
L1772.10-1800	10	1800	0.4	1.116
L1772.10-1850	10	1850	0.4	1.147
L1772.10-1900	10	1900	0.4	1.178
L1772.10-1950	10	1950	0.4	1.209
L1772.10-2000	10	2000	0.4	1.240
L1772.10-2050	10	2050	0.4	1.271
L1772.10-2100	10	2100	0.4	1.302
L1772.10-2150	10	2150	0.4	1.333
L1772.10-2200	10	2200	0.4	1.364
L1772.10-2250	10	2250	0.4	1.395
L1772.10-2300	10	2300	0.4	1.426
L1772.10-2350	10	2350	0.4	1.457
L1772.10-2400	10	2400	0.4	1.488
L1772.10-2450	10	2450	0.4	1.519
L1772.10-2500	10	2500	0.4	1.550
L1772.10-2550	10	2550	0.4	1.581
L1772.10-2600	10	2600	0.4	1.612
L1772.10-2650	10	2650	0.4	1.643
L1772.10-2700	10	2700	0.4	1.674
L1772.10-2750	10	2750	0.4	1.705
L1772.10-2800	10	2800	0.4	1.736
L1772.10-2850	10	2850	0.4	1.767
L1772.10-2900	10	2900	0.4	1.798
L1772.10-2950	10	2950	0.4	1.829
L1772.10-3000	10	3000	0.4	1.860
L1772.10-3050	10	3050	0.4	1.891
L1772.10-3100	10	3100	0.4	1.922
L1772.10-3150	10	3150	0.4	1.953
L1772.10-3200	10	3200	0.4	1.984
L1772.10-3250	10	3250	0.4	2.015
L1772.10-3300	10	3300	0.4	2.046
L1772.10-3350	10	3350	0.4	2.077
L1772.10-3400	10	3400	0.4	2.108
L1772.10-3450	10	3450	0.4	2.139
L1772.10-3500	10	3500	0.4	2.170
L1772.10-3550	10	3550	0.4	2.201
L1772.10-3600	10	3600	0.4	2.232
L1772.10-3650	10	3650	0.4	2.263
L1772.10-3700	10	3700	0.4	2.294
L1772.10-3750	10	3750	0.4	2.325
L1772.10-3800	10	3800	0.4	2.356
L1772.10-3850	10	3850	0.4	2.387
L1772.10-3900	10	3900	0.4	2.418
L1772.10-3950	10	3950	0.4	2.449
L1772.10-4000	10	4000	0.4	2.480
L1772.10-4050	10	4050	0.4	2.511
L1772.10-4100	10	4100	0.4	2.542
L1772.10-4150	10	4150	0.4	2.573
L1772.10-4200	10	4200	0.4	2.604
L1772.10-4250	10	4250	0.4	2.635
L1772.10-4300	10	4300	0.4	2.666
L1772.10-4350	10	4350	0.4	2.697
L1772.10-4400	10	4400	0.4	2.728
L1772.10-4450	10	4450	0.4	2.759
L1772.10-4500	10	4500	0.4	2.790
L1772.10-4550	10	4550	0.4	2.821
L1772.10-4600	10	4600	0.4	2.852
L1772.10-4650	10	4650	0.4	2.883
L1772.10-4700	10	4700	0.4	2.914
L1772.10-4750	10	4750	0.4	2.945
L1772.10-4800	10	4800	0.4	2.976
L1772.10-4850	10	4850	0.4	3.007
L1772.10-4900	10	4900	0.4	3.038
L1772.10-4950	10	4950	0.4	3.069
L1772.10-5000	10	5000	0.4	3.100

Ø10 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.10-5050	10	5050	0.4	3.131
L1772.10-5100	10	5100	0.4	3.162
L1772.10-5150	10	5150	0.4	3.193
L1772.10-5200	10	5200	0.4	3.224
L1772.10-5250	10	5250	0.4	3.255
L1772.10-5300	10	5300	0.4	3.286
L1772.10-5350	10	5350	0.4	3.317
L1772.10-5400	10	5400	0.4	3.348
L1772.10-5450	10	5450	0.4	3.379
L1772.10-5500	10	5500	0.4	3.410
L1772.10-5550	10	5550	0.4	3.441
L1772.10-5600	10	5600	0.4	3.472
L1772.10-5650	10	5650	0.4	3.503
L1772.10-5700	10	5700	0.4	3.534
L1772.10-5750	10	5750	0.4	3.565
L1772.10-5800	10	5800	0.4	3.596
L1772.10-5850	10	5850	0.4	3.627
L1772.10-5900	10	5900	0.4	3.658
L1772.10-5950	10	5950	0.4	3.689
L1772.10-6000	10	6000	0.4	3.720





L1772.12

Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

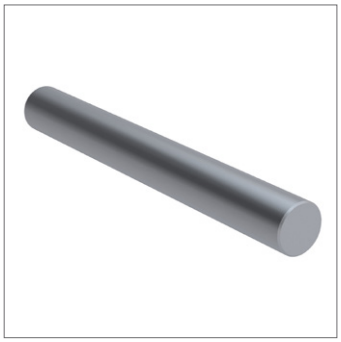
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.12-0100	12	100	0.6	0.089
L1772.12-0150	12	150	0.6	0.134
L1772.12-0200	12	200	0.6	0.178
L1772.12-0250	12	250	0.6	0.223
L1772.12-0300	12	300	0.6	0.267
L1772.12-0350	12	350	0.6	0.312
L1772.12-0400	12	400	0.6	0.356
L1772.12-0450	12	450	0.6	0.401
L1772.12-0500	12	500	0.6	0.445
L1772.12-0550	12	550	0.6	0.490
L1772.12-0600	12	600	0.6	0.534
L1772.12-0650	12	650	0.6	0.579
L1772.12-0700	12	700	0.6	0.623
L1772.12-0750	12	750	0.6	0.668
L1772.12-0800	12	800	0.6	0.712
L1772.12-0850	12	850	0.6	0.757
L1772.12-0900	12	900	0.6	0.801
L1772.12-0950	12	950	0.6	0.846
L1772.12-1000	12	1000	0.6	0.890
L1772.12-1050	12	1050	0.6	0.935
L1772.12-1100	12	1100	0.6	0.979
L1772.12-1150	12	1150	0.6	1.024
L1772.12-1200	12	1200	0.6	1.068
L1772.12-1250	12	1250	0.6	1.113
L1772.12-1300	12	1300	0.6	1.157
L1772.12-1350	12	1350	0.6	1.202
L1772.12-1400	12	1400	0.6	1.246
L1772.12-1450	12	1450	0.6	1.291
L1772.12-1500	12	1500	0.6	1.335
L1772.12-1550	12	1550	0.6	1.380
L1772.12-1600	12	1600	0.6	1.424

Ø12 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.12-1650	12	1650	0.6	1.469
L1772.12-1700	12	1700	0.6	1.513
L1772.12-1750	12	1750	0.6	1.558
L1772.12-1800	12	1800	0.6	1.602
L1772.12-1850	12	1850	0.6	1.647
L1772.12-1900	12	1900	0.6	1.691
L1772.12-1950	12	1950	0.6	1.736
L1772.12-2000	12	2000	0.6	1.780
L1772.12-2050	12	2050	0.6	1.825
L1772.12-2100	12	2100	0.6	1.869
L1772.12-2150	12	2150	0.6	1.914
L1772.12-2200	12	2200	0.6	1.958
L1772.12-2250	12	2250	0.6	2.003
L1772.12-2300	12	2300	0.6	2.047
L1772.12-2350	12	2350	0.6	2.092
L1772.12-2400	12	2400	0.6	2.136
L1772.12-2450	12	2450	0.6	2.181
L1772.12-2500	12	2500	0.6	2.225
L1772.12-2550	12	2550	0.6	2.270
L1772.12-2600	12	2600	0.6	2.314
L1772.12-2650	12	2650	0.6	2.359
L1772.12-2700	12	2700	0.6	2.403
L1772.12-2750	12	2750	0.6	2.448
L1772.12-2800	12	2800	0.6	2.492
L1772.12-2850	12	2850	0.6	2.537
L1772.12-2900	12	2900	0.6	2.581
L1772.12-2950	12	2950	0.6	2.626
L1772.12-3000	12	3000	0.6	2.670
L1772.12-3050	12	3050	0.6	2.715
L1772.12-3100	12	3100	0.6	2.759
L1772.12-3150	12	3150	0.6	2.804
L1772.12-3200	12	3200	0.6	2.848
L1772.12-3250	12	3250	0.6	2.893
L1772.12-3300	12	3300	0.6	2.937
L1772.12-3350	12	3350	0.6	2.982
L1772.12-3400	12	3400	0.6	3.026
L1772.12-3450	12	3450	0.6	3.071
L1772.12-3500	12	3500	0.6	3.115
L1772.12-3550	12	3550	0.6	3.160
L1772.12-3600	12	3600	0.6	3.204
L1772.12-3650	12	3650	0.6	3.249
L1772.12-3700	12	3700	0.6	3.293
L1772.12-3750	12	3750	0.6	3.338
L1772.12-3800	12	3800	0.6	3.382
L1772.12-3850	12	3850	0.6	3.427
L1772.12-3900	12	3900	0.6	3.471
L1772.12-3950	12	3950	0.6	3.516
L1772.12-4000	12	4000	0.6	3.560
L1772.12-4050	12	4050	0.6	3.605
L1772.12-4100	12	4100	0.6	3.649
L1772.12-4150	12	4150	0.6	3.694
L1772.12-4200	12	4200	0.6	3.738
L1772.12-4250	12	4250	0.6	3.783
L1772.12-4300	12	4300	0.6	3.827
L1772.12-4350	12	4350	0.6	3.872
L1772.12-4400	12	4400	0.6	3.916
L1772.12-4450	12	4450	0.6	3.961
L1772.12-4500	12	4500	0.6	4.005
L1772.12-4550	12	4550	0.6	4.050
L1772.12-4600	12	4600	0.6	4.094
L1772.12-4650	12	4650	0.6	4.139
L1772.12-4700	12	4700	0.6	4.183
L1772.12-4750	12	4750	0.6	4.228
L1772.12-4800	12	4800	0.6	4.272
L1772.12-4850	12	4850	0.6	4.317
L1772.12-4900	12	4900	0.6	4.361
L1772.12-4950	12	4950	0.6	4.406
L1772.12-5000	12	5000	0.6	4.450

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.12-5050	12	5050	0.6	4.495
L1772.12-5100	12	5100	0.6	4.539
L1772.12-5150	12	5150	0.6	4.584
L1772.12-5200	12	5200	0.6	4.628
L1772.12-5250	12	5250	0.6	4.673
L1772.12-5300	12	5300	0.6	4.717
L1772.12-5350	12	5350	0.6	4.762
L1772.12-5400	12	5400	0.6	4.806
L1772.12-5450	12	5450	0.6	4.851
L1772.12-5500	12	5500	0.6	4.895
L1772.12-5550	12	5550	0.6	4.940
L1772.12-5600	12	5600	0.6	4.984
L1772.12-5650	12	5650	0.6	5.029
L1772.12-5700	12	5700	0.6	5.073
L1772.12-5750	12	5750	0.6	5.118
L1772.12-5800	12	5800	0.6	5.162
L1772.12-5850	12	5850	0.6	5.207
L1772.12-5900	12	5900	0.6	5.251
L1772.12-5950	12	5950	0.6	5.296
L1772.12-6000	12	6000	0.6	5.340

Ø16 Hardened Stainless Shafts
for linear bearings



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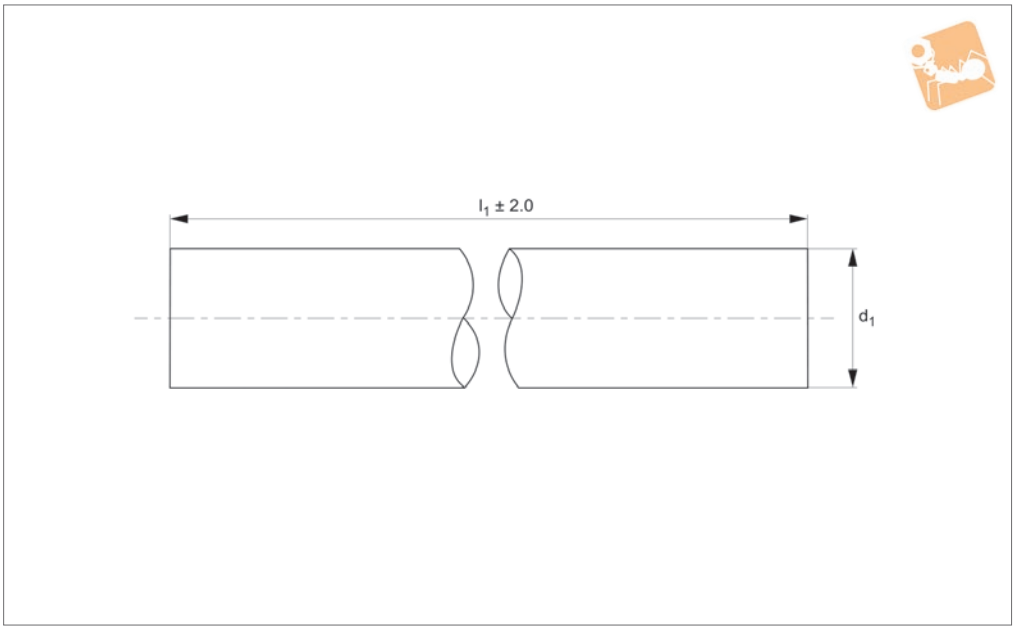


Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

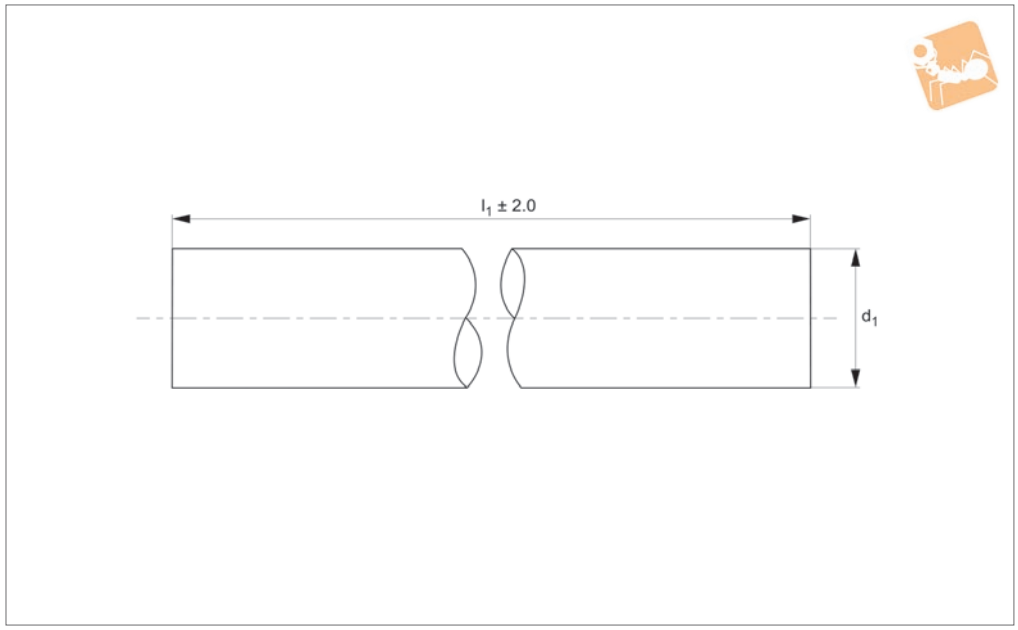
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.16-0100	16	100	0.6	0.158
L1772.16-0150	16	150	0.6	0.237
L1772.16-0200	16	200	0.6	0.316
L1772.16-0250	16	250	0.6	0.395
L1772.16-0300	16	300	0.6	0.474
L1772.16-0350	16	350	0.6	0.553
L1772.16-0400	16	400	0.6	0.632
L1772.16-0450	16	450	0.6	0.711
L1772.16-0500	16	500	0.6	0.790
L1772.16-0550	16	550	0.6	0.869
L1772.16-0600	16	600	0.6	0.948
L1772.16-0650	16	650	0.6	1.027
L1772.16-0700	16	700	0.6	1.106
L1772.16-0750	16	750	0.6	1.185
L1772.16-0800	16	800	0.6	1.264
L1772.16-0850	16	850	0.6	1.343
L1772.16-0900	16	900	0.6	1.422
L1772.16-0950	16	950	0.6	1.501
L1772.16-1000	16	1000	0.6	1.580
L1772.16-1050	16	1050	0.6	1.659
L1772.16-1100	16	1100	0.6	1.738
L1772.16-1150	16	1150	0.6	1.817
L1772.16-1200	16	1200	0.6	1.896
L1772.16-1250	16	1250	0.6	1.975
L1772.16-1300	16	1300	0.6	2.054
L1772.16-1350	16	1350	0.6	2.133
L1772.16-1400	16	1400	0.6	2.212
L1772.16-1450	16	1450	0.6	2.291
L1772.16-1500	16	1500	0.6	2.370
L1772.16-1550	16	1550	0.6	2.449
L1772.16-1600	16	1600	0.6	2.528

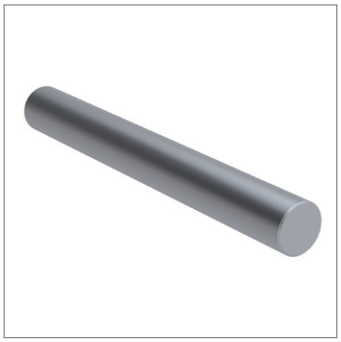
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.16-1650	16	1650	0.6	2.607
L1772.16-1700	16	1700	0.6	2.686
L1772.16-1750	16	1750	0.6	2.765
L1772.16-1800	16	1800	0.6	2.844
L1772.16-1850	16	1850	0.6	2.923
L1772.16-1900	16	1900	0.6	3.002
L1772.16-1950	16	1950	0.6	3.081
L1772.16-2000	16	2000	0.6	3.160
L1772.16-2050	16	2050	0.6	3.239
L1772.16-2100	16	2100	0.6	3.318
L1772.16-2150	16	2150	0.6	3.397
L1772.16-2200	16	2200	0.6	3.476
L1772.16-2250	16	2250	0.6	3.555
L1772.16-2300	16	2300	0.6	3.634
L1772.16-2350	16	2350	0.6	3.713
L1772.16-2400	16	2400	0.6	3.792
L1772.16-2450	16	2450	0.6	3.871
L1772.16-2500	16	2500	0.6	3.950
L1772.16-2550	16	2550	0.6	4.029
L1772.16-2600	16	2600	0.6	4.108
L1772.16-2650	16	2650	0.6	4.187
L1772.16-2700	16	2700	0.6	4.266
L1772.16-2750	16	2750	0.6	4.345
L1772.16-2800	16	2800	0.6	4.424
L1772.16-2850	16	2850	0.6	4.503
L1772.16-2900	16	2900	0.6	4.582
L1772.16-2950	16	2950	0.6	4.661
L1772.16-3000	16	3000	0.6	4.740
L1772.16-3050	16	3050	0.6	4.819
L1772.16-3100	16	3100	0.6	4.898
L1772.16-3150	16	3150	0.6	4.977
L1772.16-3200	16	3200	0.6	5.056
L1772.16-3250	16	3250	0.6	5.135
L1772.16-3300	16	3300	0.6	5.214
L1772.16-3350	16	3350	0.6	5.293
L1772.16-3400	16	3400	0.6	5.372
L1772.16-3450	16	3450	0.6	5.451
L1772.16-3500	16	3500	0.6	5.530
L1772.16-3550	16	3550	0.6	5.609
L1772.16-3600	16	3600	0.6	5.688
L1772.16-3650	16	3650	0.6	5.767
L1772.16-3700	16	3700	0.6	5.846
L1772.16-3750	16	3750	0.6	5.925
L1772.16-3800	16	3800	0.6	6.004
L1772.16-3850	16	3850	0.6	6.083
L1772.16-3900	16	3900	0.6	6.162
L1772.16-3950	16	3950	0.6	6.241
L1772.16-4000	16	4000	0.6	6.320
L1772.16-4050	16	4050	0.6	6.399
L1772.16-4100	16	4100	0.6	6.478
L1772.16-4150	16	4150	0.6	6.557
L1772.16-4200	16	4200	0.6	6.636
L1772.16-4250	16	4250	0.6	6.715
L1772.16-4300	16	4300	0.6	6.794
L1772.16-4350	16	4350	0.6	6.873
L1772.16-4400	16	4400	0.6	6.952
L1772.16-4450	16	4450	0.6	7.031
L1772.16-4500	16	4500	0.6	7.110
L1772.16-4550	16	4550	0.6	7.189
L1772.16-4600	16	4600	0.6	7.268
L1772.16-4650	16	4650	0.6	7.347
L1772.16-4700	16	4700	0.6	7.426
L1772.16-4750	16	4750	0.6	7.505
L1772.16-4800	16	4800	0.6	7.584
L1772.16-4850	16	4850	0.6	7.663
L1772.16-4900	16	4900	0.6	7.742
L1772.16-4950	16	4950	0.6	7.821
L1772.16-5000	16	5000	0.6	7.900

Ø16 Hardened Stainless Shafts

for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.16-5050	16	5050	0.6	7.979
L1772.16-5100	16	5100	0.6	8.058
L1772.16-5150	16	5150	0.6	8.137
L1772.16-5200	16	5200	0.6	8.216
L1772.16-5250	16	5250	0.6	8.295
L1772.16-5300	16	5300	0.6	8.374
L1772.16-5350	16	5350	0.6	8.453
L1772.16-5400	16	5400	0.6	8.532
L1772.16-5450	16	5450	0.6	8.611
L1772.16-5500	16	5500	0.6	8.690
L1772.16-5550	16	5550	0.6	8.769
L1772.16-5600	16	5600	0.6	8.848
L1772.16-5650	16	5650	0.6	8.927
L1772.16-5700	16	5700	0.6	9.006
L1772.16-5750	16	5750	0.6	9.085
L1772.16-5800	16	5800	0.6	9.164
L1772.16-5850	16	5850	0.6	9.243
L1772.16-5900	16	5900	0.6	9.322
L1772.16-5950	16	5950	0.6	9.401
L1772.16-6000	16	6000	0.6	9.480





L1772.20

Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

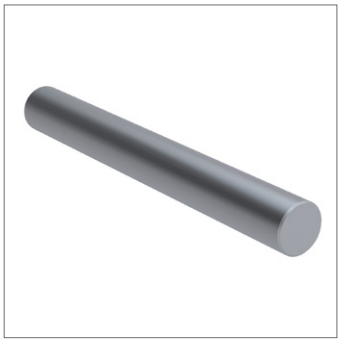
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.20-0100	20	100	0.9	0.247
L1772.20-0150	20	150	0.9	0.371
L1772.20-0200	20	200	0.9	0.494
L1772.20-0250	20	250	0.9	0.618
L1772.20-0300	20	300	0.9	0.741
L1772.20-0350	20	350	0.9	0.865
L1772.20-0400	20	400	0.9	0.988
L1772.20-0450	20	450	0.9	1.112
L1772.20-0500	20	500	0.9	1.235
L1772.20-0550	20	550	0.9	1.359
L1772.20-0600	20	600	0.9	1.482
L1772.20-0650	20	650	0.9	1.606
L1772.20-0700	20	700	0.9	1.729
L1772.20-0750	20	750	0.9	1.853
L1772.20-0800	20	800	0.9	1.976
L1772.20-0850	20	850	0.9	2.100
L1772.20-0900	20	900	0.9	2.223
L1772.20-0950	20	950	0.9	2.347
L1772.20-1000	20	1000	0.9	2.470
L1772.20-1050	20	1050	0.9	2.594
L1772.20-1100	20	1100	0.9	2.717
L1772.20-1150	20	1150	0.9	2.841
L1772.20-1200	20	1200	0.9	2.964
L1772.20-1250	20	1250	0.9	3.088
L1772.20-1300	20	1300	0.9	3.211
L1772.20-1350	20	1350	0.9	3.335
L1772.20-1400	20	1400	0.9	3.458
L1772.20-1450	20	1450	0.9	3.582
L1772.20-1500	20	1500	0.9	3.705
L1772.20-1550	20	1550	0.9	3.829
L1772.20-1600	20	1600	0.9	3.952

Ø20 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.20-1650	20	1650	0.9	4.076
L1772.20-1700	20	1700	0.9	4.199
L1772.20-1750	20	1750	0.9	4.323
L1772.20-1800	20	1800	0.9	4.446
L1772.20-1850	20	1850	0.9	4.570
L1772.20-1900	20	1900	0.9	4.693
L1772.20-1950	20	1950	0.9	4.817
L1772.20-2000	20	2000	0.9	4.940
L1772.20-2050	20	2050	0.9	5.064
L1772.20-2100	20	2100	0.9	5.187
L1772.20-2150	20	2150	0.9	5.311
L1772.20-2200	20	2200	0.9	5.434
L1772.20-2250	20	2200	0.9	5.558
L1772.20-2300	20	2300	0.9	5.681
L1772.20-2350	20	2350	0.9	5.805
L1772.20-2400	20	2400	0.9	5.928
L1772.20-2450	20	2450	0.9	6.052
L1772.20-2500	20	2500	0.9	6.175
L1772.20-2550	20	2550	0.9	6.299
L1772.20-2600	20	2600	0.9	6.422
L1772.20-2650	20	2650	0.9	6.546
L1772.20-2700	20	2700	0.9	6.669
L1772.20-2750	20	2750	0.9	6.793
L1772.20-2800	20	2800	0.9	6.916
L1772.20-2850	20	2850	0.9	7.040
L1772.20-2900	20	2900	0.9	7.163
L1772.20-2950	20	2950	0.9	7.287
L1772.20-3000	20	3000	0.9	7.410
L1772.20-3050	20	3050	0.9	7.534
L1772.20-3100	20	3100	0.9	7.657
L1772.20-3150	20	3150	0.9	7.781
L1772.20-3200	20	3200	0.9	7.904
L1772.20-3250	20	3250	0.9	8.028
L1772.20-3300	20	3300	0.9	8.151
L1772.20-3350	20	3350	0.9	8.275
L1772.20-3400	20	3400	0.9	8.398
L1772.20-3450	20	3450	0.9	8.522
L1772.20-3500	20	3500	0.9	8.645
L1772.20-3550	20	3550	0.9	8.769
L1772.20-3600	20	3600	0.9	8.892
L1772.20-3650	20	3650	0.9	9.016
L1772.20-3700	20	3700	0.9	9.139
L1772.20-3750	20	3750	0.9	9.263
L1772.20-3800	20	3800	0.9	9.386
L1772.20-3850	20	3850	0.9	9.510
L1772.20-3900	20	3900	0.9	9.633
L1772.20-3950	20	3950	0.9	9.757
L1772.20-4000	20	4000	0.9	9.880
L1772.20-4050	20	4050	0.9	10.004
L1772.20-4100	20	4100	0.9	10.127
L1772.20-4150	20	4150	0.9	10.251
L1772.20-4200	20	4200	0.9	10.374
L1772.20-4250	20	4250	0.9	10.498
L1772.20-4300	20	4300	0.9	10.621
L1772.20-4350	20	4350	0.9	10.745
L1772.20-4400	20	4400	0.9	10.868
L1772.20-4450	20	4450	0.9	10.992
L1772.20-4500	20	4500	0.9	11.115
L1772.20-4550	20	4550	0.9	11.239
L1772.20-4600	20	4600	0.9	11.362
L1772.20-4650	20	4650	0.9	11.486
L1772.20-4700	20	4700	0.9	11.609
L1772.20-4750	20	4750	0.9	11.733
L1772.20-4800	20	4800	0.9	11.856
L1772.20-4850	20	4850	0.9	11.980
L1772.20-4900	20	4900	0.9	12.103
L1772.20-4950	20	4950	0.9	12.227
L1772.20-5000	20	5000	0.9	12.350

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.20-5050	20	5050	0.9	12.474
L1772.20-5100	20	5100	0.9	12.597
L1772.20-5150	20	5150	0.9	12.721
L1772.20-5200	20	5200	0.9	12.844
L1772.20-5250	20	5250	0.9	12.968
L1772.20-5300	20	5300	0.9	13.091
L1772.20-5350	20	5350	0.9	13.215
L1772.20-5400	20	5400	0.9	13.338
L1772.20-5450	20	5450	0.9	13.462
L1772.20-5500	20	5500	0.9	13.585
L1772.20-5550	20	5550	0.9	13.709
L1772.20-5600	20	5600	0.9	13.832
L1772.20-5650	20	5650	0.9	13.956
L1772.20-5700	20	5700	0.9	14.079
L1772.20-5750	20	5750	0.9	14.203
L1772.20-5800	20	5800	0.9	14.326
L1772.20-5850	20	5850	0.9	14.450
L1772.20-5900	20	5900	0.9	14.573
L1772.20-5950	20	5950	0.9	14.697
L1772.20-6000	20	6000	0.9	14.820

Ø25 Hardened Stainless Shafts
for linear bearings



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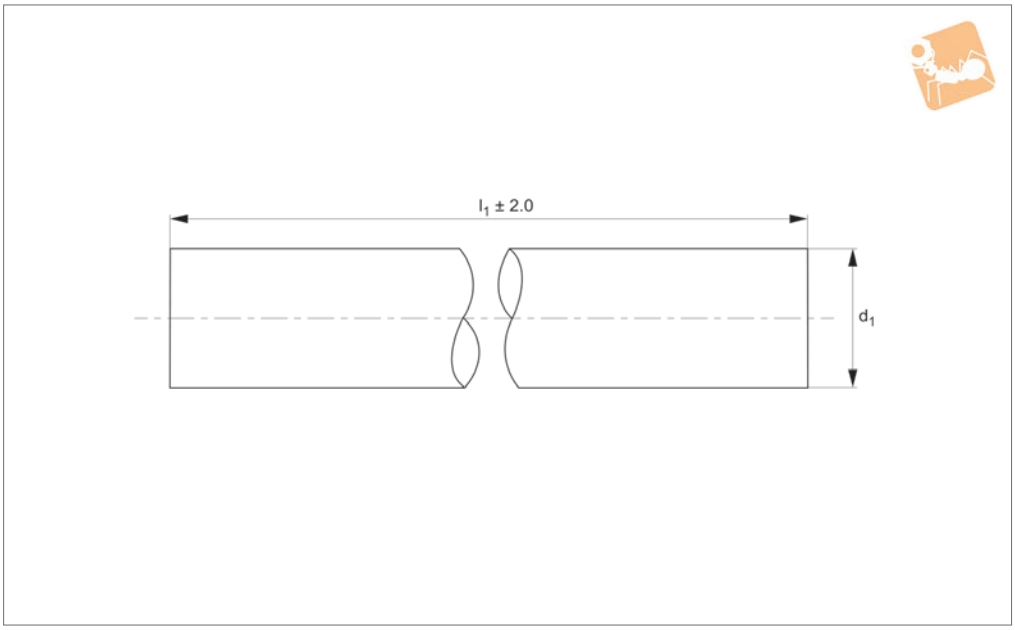


Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

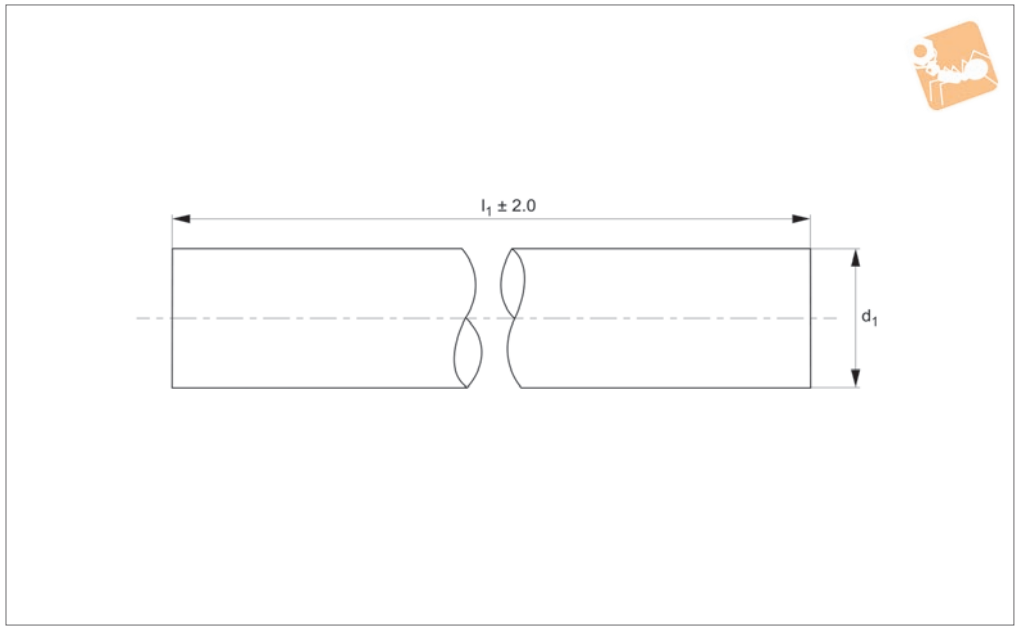
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.25-0100	25	100	0.9	0.385
L1772.25-0150	25	150	0.9	0.578
L1772.25-0200	25	200	0.9	0.770
L1772.25-0250	25	250	0.9	0.963
L1772.25-0300	25	300	0.9	1.155
L1772.25-0350	25	350	0.9	1.348
L1772.25-0400	25	400	0.9	1.540
L1772.25-0450	25	450	0.9	1.733
L1772.25-0500	25	500	0.9	1.925
L1772.25-0550	25	550	0.9	2.118
L1772.25-0600	25	600	0.9	2.310
L1772.25-0650	25	650	0.9	2.503
L1772.25-0700	25	700	0.9	2.695
L1772.25-0750	25	750	0.9	2.888
L1772.25-0800	25	800	0.9	3.080
L1772.25-0850	25	850	0.9	3.273
L1772.25-0900	25	900	0.9	3.465
L1772.25-0950	25	950	0.9	3.658
L1772.25-1000	25	1000	0.9	3.850
L1772.25-1050	25	1050	0.9	4.043
L1772.25-1100	25	1100	0.9	4.235
L1772.25-1150	25	1150	0.9	4.428
L1772.25-1200	25	1200	0.9	4.620
L1772.25-1250	25	1250	0.9	4.813
L1772.25-1300	25	1300	0.9	5.005
L1772.25-1350	25	1350	0.9	5.198
L1772.25-1400	25	1400	0.9	5.390
L1772.25-1450	25	1450	0.9	5.583
L1772.25-1500	25	1500	0.9	5.775
L1772.25-1550	25	1550	0.9	5.968
L1772.25-1600	25	1600	0.9	6.160

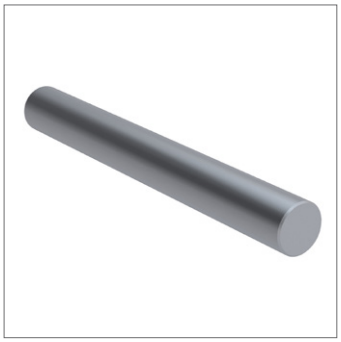
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.25-1650	25	1650	0.9	6.353
L1772.25-1700	25	1700	0.9	6.545
L1772.25-1750	25	1750	0.9	6.738
L1772.25-1800	25	1800	0.9	6.930
L1772.25-1850	25	1850	0.9	7.123
L1772.25-1900	25	1900	0.9	7.315
L1772.25-1950	25	1950	0.9	7.508
L1772.25-2000	25	2000	0.9	7.700
L1772.25-2050	25	2050	0.9	7.893
L1772.25-2100	25	2100	0.9	8.085
L1772.25-2150	25	2150	0.9	8.278
L1772.25-2200	25	2200	0.9	8.470
L1772.25-2250	25	2250	0.9	8.663
L1772.25-2300	25	2300	0.9	8.855
L1772.25-2350	25	2350	0.9	9.048
L1772.25-2400	25	2400	0.9	9.240
L1772.25-2450	25	2450	0.9	9.433
L1772.25-2500	25	2500	0.9	9.625
L1772.25-2550	25	2550	0.9	9.818
L1772.25-2600	25	2600	0.9	10.010
L1772.25-2650	25	2650	0.9	10.203
L1772.25-2700	25	2700	0.9	10.395
L1772.25-2750	25	2750	0.9	10.588
L1772.25-2800	25	2800	0.9	10.780
L1772.25-2850	25	2850	0.9	10.973
L1772.25-2900	25	2900	0.9	11.165
L1772.25-2950	25	2950	0.9	11.358
L1772.25-3000	25	3000	0.9	11.550
L1772.25-3050	25	3050	0.9	11.743
L1772.25-3100	25	3100	0.9	11.935
L1772.25-3150	25	3150	0.9	12.128
L1772.25-3200	25	3200	0.9	12.320
L1772.25-3250	25	3250	0.9	12.513
L1772.25-3300	25	3300	0.9	12.705
L1772.25-3350	25	3350	0.9	12.898
L1772.25-3400	25	3400	0.9	13.090
L1772.25-3450	25	3450	0.9	13.283
L1772.25-3500	25	3500	0.9	13.475
L1772.25-3550	25	3550	0.9	13.668
L1772.25-3600	25	3600	0.9	13.860
L1772.25-3650	25	3650	0.9	14.053
L1772.25-3700	25	3700	0.9	14.245
L1772.25-3750	25	3750	0.9	14.438
L1772.25-3800	25	3800	0.9	14.630
L1772.25-3850	25	3850	0.9	14.823
L1772.25-3900	25	3900	0.9	15.015
L1772.25-3950	25	3950	0.9	15.208
L1772.25-4000	25	4000	0.9	15.400
L1772.25-4050	25	4050	0.9	15.593
L1772.25-4100	25	4100	0.9	15.785
L1772.25-4150	25	4150	0.9	15.978
L1772.25-4200	25	4200	0.9	16.170
L1772.25-4250	25	4250	0.9	16.363
L1772.25-4300	25	4300	0.9	16.555
L1772.25-4350	25	4350	0.9	16.748
L1772.25-4400	25	4400	0.9	16.940
L1772.25-4450	25	4450	0.9	17.133
L1772.25-4500	25	4500	0.9	17.325
L1772.25-4550	25	4550	0.9	17.518
L1772.25-4600	25	4600	0.9	17.710
L1772.25-4650	25	4650	0.9	17.903
L1772.25-4700	25	4700	0.9	18.095
L1772.25-4750	25	4750	0.9	18.288
L1772.25-4800	25	4800	0.9	18.480
L1772.25-4850	25	4850	0.9	18.673
L1772.25-4900	25	4900	0.9	18.865
L1772.25-4950	25	4950	0.9	19.058
L1772.25-5000	25	5000	0.9	19.250

Ø25 Hardened Stainless Shafts

for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.25-5050	25	5050	0.9	19.443
L1772.25-5100	25	5100	0.9	19.635
L1772.25-5150	25	5150	0.9	19.828
L1772.25-5200	25	5200	0.9	20.020
L1772.25-5250	25	5250	0.9	20.213
L1772.25-5300	25	5300	0.9	20.405
L1772.25-5350	25	5350	0.9	20.598
L1772.25-5400	25	5400	0.9	20.790
L1772.25-5450	25	5450	0.9	20.983
L1772.25-5500	25	5500	0.9	21.175
L1772.25-5550	25	5550	0.9	21.368
L1772.25-5600	25	5600	0.9	21.560
L1772.25-5650	25	5650	0.9	21.753
L1772.25-5700	25	5700	0.9	21.945
L1772.25-5750	25	5750	0.9	22.138
L1772.25-5800	25	5800	0.9	22.330
L1772.25-5850	25	5850	0.9	22.523
L1772.25-5900	25	5900	0.9	22.715
L1772.25-5950	25	5950	0.9	22.908
L1772.25-6000	25	6000	0.9	23.100





L1772.30

Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

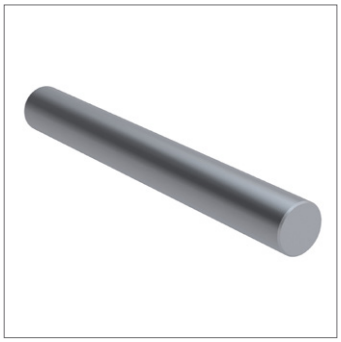
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.30-0100	30	100	1.5	0.555
L1772.30-0150	30	150	1.5	0.833
L1772.30-0200	30	200	1.5	1.110
L1772.30-0250	30	250	1.5	1.388
L1772.30-0300	30	300	1.5	1.665
L1772.30-0350	30	350	1.5	1.943
L1772.30-0400	30	400	1.5	2.220
L1772.30-0450	30	450	1.5	2.498
L1772.30-0500	30	500	1.5	2.775
L1772.30-0550	30	550	1.5	3.053
L1772.30-0600	30	600	1.5	3.330
L1772.30-0650	30	650	1.5	3.608
L1772.30-0700	30	700	1.5	3.885
L1772.30-0750	30	750	1.5	4.163
L1772.30-0800	30	800	1.5	4.440
L1772.30-0850	30	850	1.5	4.718
L1772.30-0900	30	900	1.5	4.995
L1772.30-0950	30	950	1.5	5.273
L1772.30-1000	30	1000	1.5	5.550
L1772.30-1050	30	1050	1.5	5.828
L1772.30-1100	30	1100	1.5	6.105
L1772.30-1150	30	1150	1.5	6.383
L1772.30-1200	30	1200	1.5	6.660
L1772.30-1250	30	1250	1.5	6.938
L1772.30-1300	30	1300	1.5	7.215
L1772.30-1350	30	1350	1.5	7.493
L1772.30-1400	30	1400	1.5	7.770
L1772.30-1450	30	1450	1.5	8.048
L1772.30-1500	30	1500	1.5	8.325
L1772.30-1550	30	1550	1.5	8.603
L1772.30-1600	30	1600	1.5	8.880

Ø30 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.30-1650	30	1650	1.5	9.158
L1772.30-1700	30	1700	1.5	9.435
L1772.30-1750	30	1750	1.5	9.713
L1772.30-1800	30	1800	1.5	9.990
L1772.30-1850	30	1850	1.5	10.268
L1772.30-1900	30	1900	1.5	10.545
L1772.30-1950	30	1950	1.5	10.823
L1772.30-2000	30	2000	1.5	11.100
L1772.30-2050	30	2050	1.5	11.378
L1772.30-2100	30	2100	1.5	11.655
L1772.30-2150	30	2150	1.5	11.933
L1772.30-2200	30	2200	1.5	12.210
L1772.30-2250	30	2250	1.5	12.488
L1772.30-2300	30	2300	1.5	12.765
L1772.30-2350	30	2350	1.5	13.043
L1772.30-2400	30	2400	1.5	13.320
L1772.30-2450	30	2450	1.5	13.598
L1772.30-2500	30	2500	1.5	13.875
L1772.30-2550	30	2550	1.5	14.153
L1772.30-2600	30	2600	1.5	14.430
L1772.30-2650	30	2650	1.5	14.708
L1772.30-2700	30	2700	1.5	14.985
L1772.30-2750	30	2750	1.5	15.263
L1772.30-2800	30	2800	1.5	15.540
L1772.30-2850	30	2850	1.5	15.818
L1772.30-2900	30	2900	1.5	16.095
L1772.30-2950	30	2950	1.5	16.373
L1772.30-3000	30	3000	1.5	16.650
L1772.30-3050	30	3050	1.5	16.928
L1772.30-3100	30	3100	1.5	17.205
L1772.30-3150	30	3150	1.5	17.483
L1772.30-3200	30	3200	1.5	17.760
L1772.30-3250	30	3250	1.5	18.038
L1772.30-3300	30	3300	1.5	18.315
L1772.30-3350	30	3350	1.5	18.593
L1772.30-3400	30	3400	1.5	18.870
L1772.30-3450	30	3450	1.5	19.148
L1772.30-3500	30	3500	1.5	19.425
L1772.30-3550	30	3550	1.5	19.703
L1772.30-3600	30	3600	1.5	19.980
L1772.30-3650	30	3650	1.5	20.258
L1772.30-3700	30	3700	1.5	20.535
L1772.30-3750	30	3750	1.5	20.813
L1772.30-3800	30	3800	1.5	21.090
L1772.30-3850	30	3850	1.5	21.368
L1772.30-3900	30	3900	1.5	21.645
L1772.30-3950	30	3950	1.5	21.923
L1772.30-4000	30	4000	1.5	22.200
L1772.30-4050	30	4050	1.5	22.478
L1772.30-4100	30	4100	1.5	22.755
L1772.30-4150	30	4150	1.5	23.033
L1772.30-4200	30	4200	1.5	23.310
L1772.30-4250	30	4250	1.5	23.588
L1772.30-4300	30	4300	1.5	23.865
L1772.30-4350	30	4350	1.5	24.143
L1772.30-4400	30	4400	1.5	24.420
L1772.30-4450	30	4450	1.5	24.698
L1772.30-4500	30	4500	1.5	24.975
L1772.30-4550	30	4550	1.5	25.253
L1772.30-4600	30	4600	1.5	25.530
L1772.30-4650	30	4650	1.5	25.808
L1772.30-4700	30	4700	1.5	26.085
L1772.30-4750	30	4750	1.5	26.363
L1772.30-4800	30	4800	1.5	26.640
L1772.30-4850	30	4850	1.5	26.918
L1772.30-4900	30	4900	1.5	27.195
L1772.30-4950	30	4950	1.5	27.473
L1772.30-5000	30	5000	1.5	27.750

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.30-5050	30	5050	1.5	28.028
L1772.30-5100	30	5100	1.5	28.305
L1772.30-5150	30	5150	1.5	28.583
L1772.30-5200	30	5200	1.5	28.860
L1772.30-5250	30	5250	1.5	29.138
L1772.30-5300	30	5300	1.5	29.415
L1772.30-5350	30	5350	1.5	29.693
L1772.30-5400	30	5400	1.5	29.970
L1772.30-5450	30	5450	1.5	30.248
L1772.30-5500	30	5500	1.5	30.525
L1772.30-5550	30	5550	1.5	30.803
L1772.30-5600	30	5600	1.5	31.080
L1772.30-5650	30	5650	1.5	31.358
L1772.30-5700	30	5700	1.5	31.635
L1772.30-5750	30	5750	1.5	31.913
L1772.30-5800	30	5800	1.5	32.190
L1772.30-5850	30	5850	1.5	32.468
L1772.30-5900	30	5900	1.5	32.745
L1772.30-5950	30	5950	1.5	33.023
L1772.30-6000	30	6000	1.5	33.300

Ø40 Hardened Stainless Shafts
for linear bearings



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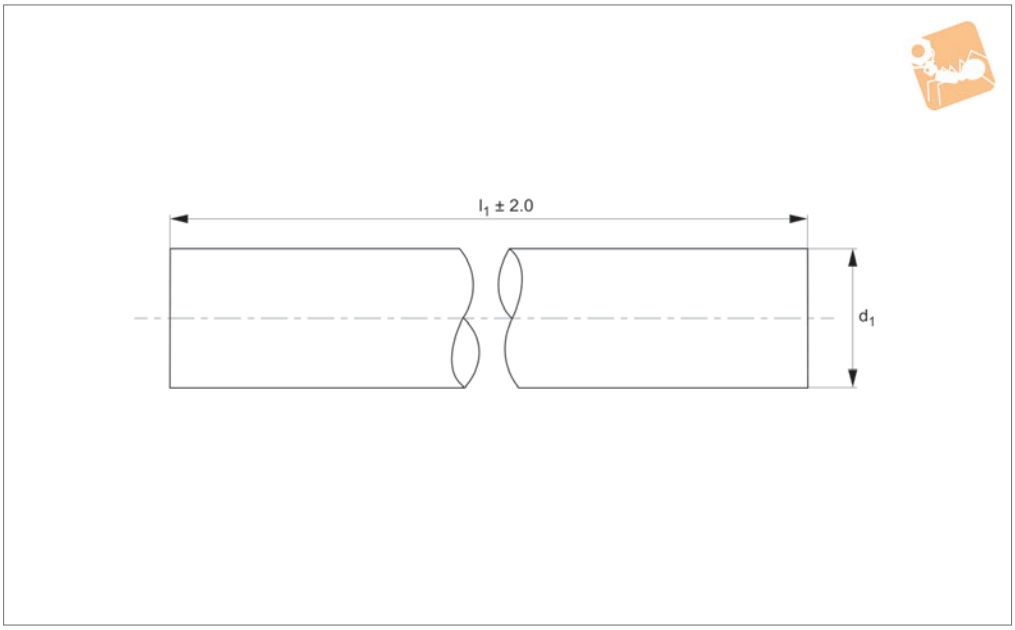


Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

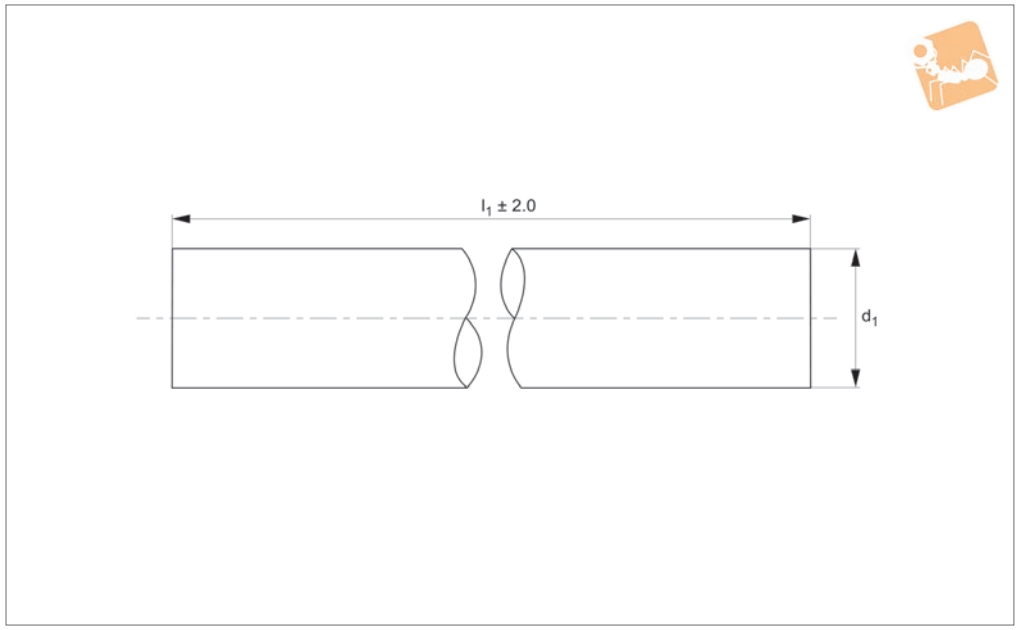
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

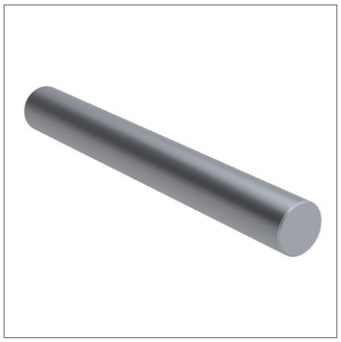
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.40-0100	40	100	1.5	0.987
L1772.40-0150	40	150	1.5	1.481
L1772.40-0200	40	200	1.5	1.974
L1772.40-0250	40	250	1.5	2.468
L1772.40-0300	40	300	1.5	2.961
L1772.40-0350	40	350	1.5	3.455
L1772.40-0400	40	400	1.5	3.948
L1772.40-0450	40	450	1.5	4.442
L1772.40-0500	40	500	1.5	4.935
L1772.40-0550	40	550	1.5	5.429
L1772.40-0600	40	600	1.5	5.922
L1772.40-0650	40	650	1.5	6.416
L1772.40-0700	40	700	1.5	6.909
L1772.40-0750	40	750	1.5	7.403
L1772.40-0800	40	800	1.5	7.896
L1772.40-0850	40	850	1.5	8.390
L1772.40-0900	40	900	1.5	8.883
L1772.40-0950	40	950	1.5	9.377
L1772.40-1000	40	1000	1.5	9.870
L1772.40-1050	40	1050	1.5	10.364
L1772.40-1100	40	1100	1.5	10.857
L1772.40-1150	40	1150	1.5	11.351
L1772.40-1200	40	1200	1.5	11.844
L1772.40-1250	40	1250	1.5	12.338
L1772.40-1300	40	1300	1.5	12.831
L1772.40-1350	40	1350	1.5	13.325
L1772.40-1400	40	1400	1.5	13.818
L1772.40-1450	40	1450	1.5	14.312
L1772.40-1500	40	1500	1.5	14.805
L1772.40-1550	40	1550	1.5	15.299
L1772.40-1600	40	1600	1.5	15.792

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.40-1650	40	1650	1.5	16.286
L1772.40-1700	40	1700	1.5	16.779
L1772.40-1750	40	1750	1.5	17.273
L1772.40-1800	40	1800	1.5	17.766
L1772.40-1850	40	1850	1.5	18.260
L1772.40-1900	40	1900	1.5	18.753
L1772.40-1950	40	1950	1.5	19.247
L1772.40-2000	40	2000	1.5	19.740
L1772.40-2050	40	2050	1.5	20.234
L1772.40-2100	40	2100	1.5	20.727
L1772.40-2150	40	2150	1.5	21.221
L1772.40-2200	40	2200	1.5	21.714
L1772.40-2250	40	2250	1.5	22.208
L1772.40-2300	40	2300	1.5	22.701
L1772.40-2350	40	2350	1.5	23.195
L1772.40-2400	40	2400	1.5	23.688
L1772.40-2450	40	2450	1.5	24.182
L1772.40-2500	40	2500	1.5	24.675
L1772.40-2550	40	2550	1.5	25.169
L1772.40-2600	40	2600	1.5	25.662
L1772.40-2650	40	2650	1.5	26.156
L1772.40-2700	40	2700	1.5	26.649
L1772.40-2750	40	2750	1.5	27.143
L1772.40-2800	40	2800	1.5	27.636
L1772.40-2850	40	2850	1.5	28.130
L1772.40-2900	40	2900	1.5	28.623
L1772.40-2950	40	2950	1.5	29.117
L1772.40-3000	40	3000	1.5	29.610
L1772.40-3050	40	3050	1.5	30.104
L1772.40-3100	40	3100	1.5	30.597
L1772.40-3150	40	3150	1.5	31.091
L1772.40-3200	40	3200	1.5	31.584
L1772.40-3250	40	3250	1.5	32.078
L1772.40-3300	40	3300	1.5	32.571
L1772.40-3350	40	3350	1.5	33.065
L1772.40-3400	40	3400	1.5	33.558
L1772.40-3450	40	3450	1.5	34.052
L1772.40-3500	40	3500	1.5	34.545
L1772.40-3550	40	3550	1.5	35.039
L1772.40-3600	40	3600	1.5	35.532
L1772.40-3650	40	3650	1.5	36.026
L1772.40-3700	40	3700	1.5	36.519
L1772.40-3750	40	3750	1.5	37.013
L1772.40-3800	40	3800	1.5	37.506
L1772.40-3850	40	3850	1.5	38.000
L1772.40-3900	40	3900	1.5	38.493
L1772.40-3950	40	3950	1.5	38.987
L1772.40-4000	40	4000	1.5	39.480
L1772.40-4050	40	4050	1.5	39.974
L1772.40-4100	40	4100	1.5	40.467
L1772.40-4150	40	4150	1.5	40.961
L1772.40-4200	40	4200	1.5	41.454
L1772.40-4250	40	4250	1.5	41.948
L1772.40-4300	40	4300	1.5	42.441
L1772.40-4350	40	4350	1.5	42.935
L1772.40-4400	40	4400	1.5	43.428
L1772.40-4450	40	4450	1.5	43.922
L1772.40-4500	40	4500	1.5	44.415
L1772.40-4550	40	4550	1.5	44.909
L1772.40-4600	40	4600	1.5	45.402
L1772.40-4650	40	4650	1.5	45.896
L1772.40-4700	40	4700	1.5	46.389
L1772.40-4750	40	4750	1.5	46.883
L1772.40-4800	40	4800	1.5	47.376
L1772.40-4850	40	4850	1.5	47.870
L1772.40-4900	40	4900	1.5	48.363
L1772.40-4950	40	4950	1.5	48.857
L1772.40-5000	40	5000	1.5	49.350

Ø40 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.40-5050	40	5050	1.5	49.844
L1772.40-5100	40	5100	1.5	50.337
L1772.40-5150	40	5150	1.5	50.831
L1772.40-5200	40	5200	1.5	51.324
L1772.40-5250	40	5250	1.5	51.818
L1772.40-5300	40	5300	1.5	52.311
L1772.40-5350	40	5350	1.5	52.805
L1772.40-5400	40	5400	1.5	53.298
L1772.40-5450	40	5450	1.5	53.792
L1772.40-5500	40	5500	1.5	54.285
L1772.40-5550	40	5550	1.5	54.779
L1772.40-5600	40	5600	1.5	55.272
L1772.40-5650	40	5650	1.5	55.766
L1772.40-5700	40	5700	1.5	56.259
L1772.40-5750	40	5750	1.5	56.753
L1772.40-5800	40	5800	1.5	57.246
L1772.40-5850	40	5850	1.5	57.740
L1772.40-5900	40	5900	1.5	58.233
L1772.40-5950	40	5950	1.5	58.727
L1772.40-6000	40	6000	1.5	59.220





L1772.50

Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

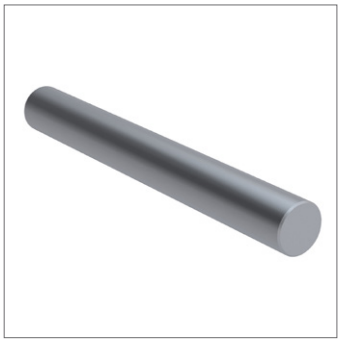
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.50-0100	50	100	1.5	1.540
L1772.50-0150	50	150	1.5	2.310
L1772.50-0200	50	200	1.5	3.080
L1772.50-0250	50	250	1.5	3.850
L1772.50-0300	50	300	1.5	4.620
L1772.50-0350	50	350	1.5	5.390
L1772.50-0400	50	400	1.5	6.160
L1772.50-0450	50	450	1.5	6.930
L1772.50-0500	50	500	1.5	7.700
L1772.50-0550	50	550	1.5	8.470
L1772.50-0600	50	600	1.5	9.240
L1772.50-0650	50	650	1.5	10.010
L1772.50-0700	50	700	1.5	10.780
L1772.50-0750	50	750	1.5	11.550
L1772.50-0800	50	800	1.5	12.320
L1772.50-0850	50	850	1.5	13.090
L1772.50-0900	50	900	1.5	13.860
L1772.50-1000	50	1000	1.5	15.400
L1772.50-1050	50	1050	1.5	16.170
L1772.50-1100	50	1100	1.5	16.940
L1772.50-1150	50	1150	1.5	17.710
L1772.50-1200	50	1200	1.5	18.480
L1772.50-1250	50	1250	1.5	19.250
L1772.50-1300	50	1300	1.5	20.020
L1772.50-1350	50	1350	1.5	20.790
L1772.50-1400	50	1400	1.5	21.560
L1772.50-1450	50	1450	1.5	22.330
L1772.50-1500	50	1500	1.5	23.100
L1772.50-1550	50	1550	1.5	23.870
L1772.50-1600	50	1600	1.5	24.640
L1772.50-1650	50	1650	1.5	25.410

Ø50 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.50-1700	50	1700	1.5	26.180
L1772.50-1750	50	1750	1.5	26.950
L1772.50-1800	50	1800	1.5	27.720
L1772.50-1850	50	1850	1.5	28.490
L1772.50-1900	50	1900	1.5	29.260
L1772.50-1950	50	1950	1.5	30.030
L1772.50-2000	50	2000	1.5	30.800
L1772.50-2050	50	2050	1.5	31.570
L1772.50-2100	50	2100	1.5	32.340
L1772.50-2150	50	2150	1.5	33.110
L1772.50-2200	50	2200	1.5	33.880
L1772.50-2250	50	2250	1.5	34.650
L1772.50-2300	50	2300	1.5	35.420
L1772.50-2350	50	2350	1.5	36.190
L1772.50-2400	50	2400	1.5	36.960
L1772.50-2450	50	2450	1.5	37.730
L1772.50-2500	50	2500	1.5	38.500
L1772.50-2550	50	2550	1.5	39.270
L1772.50-2600	50	2600	1.5	40.040
L1772.50-2650	50	2650	1.5	40.810
L1772.50-2700	50	2700	1.5	41.580
L1772.50-2750	50	2750	1.5	42.350
L1772.50-2800	50	2800	1.5	43.120
L1772.50-2850	50	2850	1.5	43.890
L1772.50-2900	50	2900	1.5	44.660
L1772.50-2950	50	2950	1.5	45.430
L1772.50-3000	50	3000	1.5	46.200
L1772.50-3050	50	3050	1.5	46.970
L1772.50-3100	50	3100	1.5	47.740
L1772.50-3150	50	3150	1.5	48.510
L1772.50-3200	50	3200	1.5	49.280
L1772.50-3250	50	3250	1.5	50.050
L1772.50-3300	50	3300	1.5	50.820
L1772.50-3350	50	3350	1.5	51.590
L1772.50-3400	50	3400	1.5	52.360
L1772.50-3450	50	3450	1.5	53.130
L1772.50-3500	50	3500	1.5	53.900
L1772.50-3550	50	3550	1.5	54.670
L1772.50-3600	50	3600	1.5	55.440
L1772.50-3650	50	3650	1.5	56.210
L1772.50-3700	50	3700	1.5	56.980
L1772.50-3750	50	3750	1.5	57.750
L1772.50-3800	50	3800	1.5	58.520
L1772.50-3850	50	3850	1.5	59.290
L1772.50-3900	50	3900	1.5	60.060
L1772.50-3950	50	3950	1.5	60.830
L1772.50-4000	50	4000	1.5	61.600
L1772.50-4050	50	4050	1.5	62.370
L1772.50-4100	50	4100	1.5	63.140
L1772.50-4150	50	4150	1.5	63.910
L1772.50-4200	50	4200	1.5	64.680
L1772.50-4250	50	4250	1.5	65.450
L1772.50-4300	50	4300	1.5	66.220
L1772.50-4350	50	4350	1.5	66.990
L1772.50-4400	50	4400	1.5	67.760
L1772.50-4450	50	4450	1.5	68.530
L1772.50-4500	50	4500	1.5	69.300
L1772.50-4550	50	4550	1.5	70.070
L1772.50-4600	50	4600	1.5	70.840
L1772.50-4650	50	4650	1.5	71.610
L1772.50-4700	50	4700	1.5	72.380
L1772.50-4750	50	4750	1.5	73.150
L1772.50-4800	50	4800	1.5	73.920
L1772.50-4850	50	4850	1.5	74.690
L1772.50-4900	50	4900	1.5	75.460
L1772.50-4950	50	4950	1.5	76.230
L1772.50-5000	50	5000	1.5	77.000
L1772.50-5050	50	5050	1.5	77.770

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.50-5100	50	5100	1.5	78.540
L1772.50-5150	50	5150	1.5	79.310
L1772.50-5200	50	5200	1.5	80.080
L1772.50-5250	50	5250	1.5	80.850
L1772.50-5300	50	5300	1.5	81.620
L1772.50-5350	50	5350	1.5	82.390
L1772.50-5400	50	5400	1.5	83.160
L1772.50-5450	50	5450	1.5	83.930
L1772.50-5500	50	5500	1.5	84.700
L1772.50-5550	50	5550	1.5	85.470
L1772.50-5600	50	5600	1.5	86.240
L1772.50-5650	50	5650	1.5	87.010
L1772.50-5700	50	5700	1.5	87.780
L1772.50-5750	50	5750	1.5	88.550
L1772.50-5800	50	5800	1.5	89.320
L1772.50-5850	50	5850	1.5	90.090
L1772.50-5900	50	5900	1.5	90.860
L1772.50-5950	50	5950	1.5	91.630
L1772.50-6000	50	6000	1.5	92.400

Ø60 Hardened Stainless Shafts
for linear bearings



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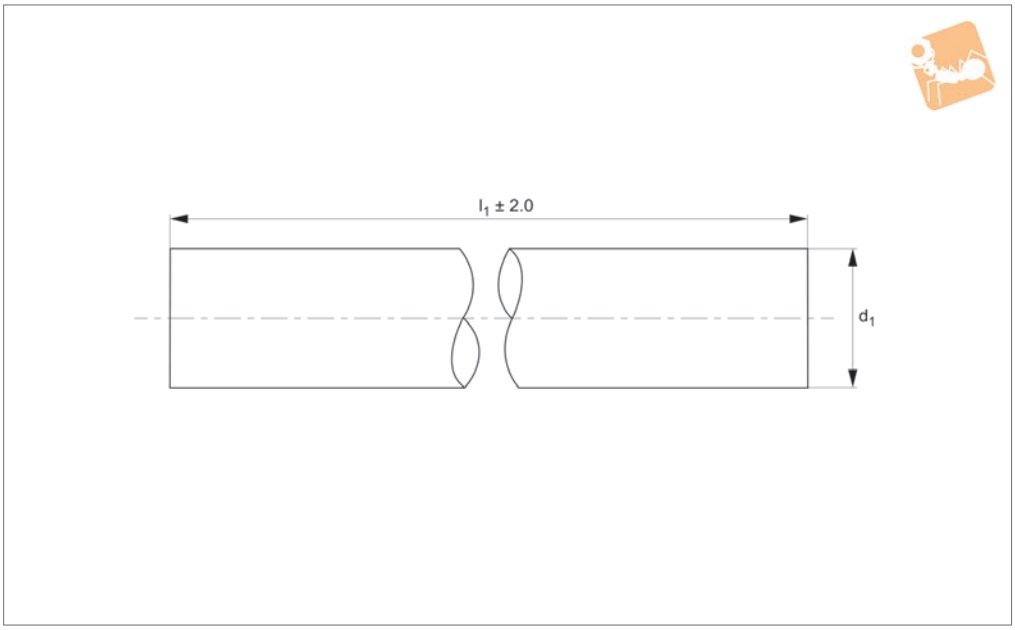


Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm^2.
Tensile strength: >785 N/mm^2.

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0,1mm/m.

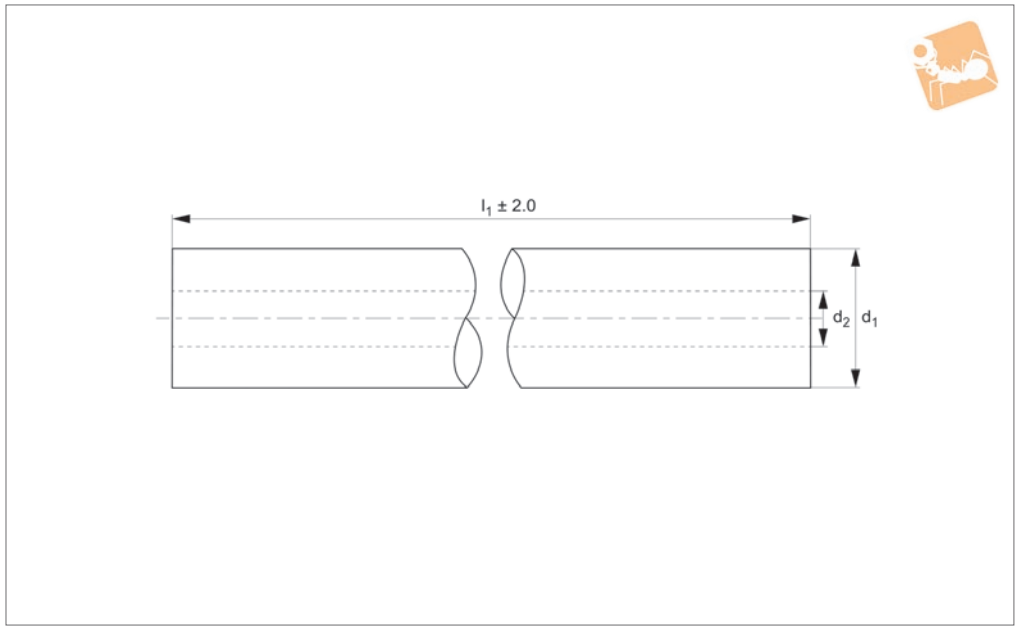
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

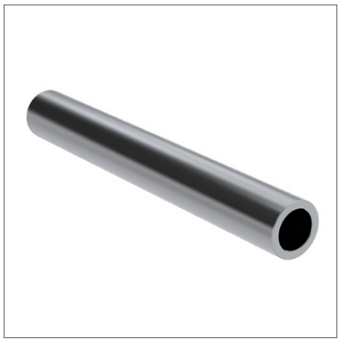
Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.60-0100	60	100	1.5	2.220
L1772.60-0150	60	150	1.5	3.330
L1772.60-0200	60	200	1.5	4.440
L1772.60-0250	60	250	1.5	5.550
L1772.60-0300	60	300	1.5	6.660
L1772.60-0350	60	350	1.5	7.770
L1772.60-0400	60	400	1.5	8.880
L1772.60-0450	60	450	1.5	9.990
L1772.60-0500	60	500	1.5	11.100
L1772.60-0550	60	550	1.5	12.210
L1772.60-0600	60	600	1.5	13.320
L1772.60-0650	60	650	1.5	14.430
L1772.60-0700	60	700	1.5	15.540
L1772.60-0750	60	750	1.5	16.650
L1772.60-0800	60	800	1.5	17.760
L1772.60-0850	60	850	1.5	18.870
L1772.60-0900	60	900	1.5	19.980
L1772.60-0950	60	950	1.5	21.090
L1772.60-1000	60	1000	1.5	22.200
L1772.60-1050	60	1050	1.5	23.310
L1772.60-1100	60	1100	1.5	24.420
L1772.60-1150	60	1150	1.5	25.530
L1772.60-1200	60	1200	1.5	26.640
L1772.60-1250	60	1250	1.5	27.750
L1772.60-1300	60	1300	1.5	28.860
L1772.60-1350	60	1350	1.5	29.970
L1772.60-1400	60	1400	1.5	31.080
L1772.60-1450	60	1450	1.5	32.190
L1772.60-1500	60	1500	1.5	33.300
L1772.60-1550	60	1550	1.5	34.410
L1772.60-1600	60	1600	1.5	35.520

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.60-1650	60	1650	1.5	36.630
L1772.60-1700	60	1700	1.5	37.740
L1772.60-1750	60	1750	1.5	38.850
L1772.60-1800	60	1800	1.5	39.960
L1772.60-1850	60	1850	1.5	41.070
L1772.60-1900	60	1900	1.5	42.180
L1772.60-1950	60	1950	1.5	43.290
L1772.60-2000	60	2000	1.5	44.400
L1772.60-2050	60	2050	1.5	45.510
L1772.60-2100	60	2100	1.5	46.620
L1772.60-2150	60	2150	1.5	47.730
L1772.60-2200	60	2200	1.5	48.840
L1772.60-2250	60	2250	1.5	49.950
L1772.60-2300	60	2300	1.5	51.060
L1772.60-2350	60	2350	1.5	52.170
L1772.60-2400	60	2400	1.5	53.280
L1772.60-2450	60	2450	1.5	54.390
L1772.60-2500	60	2500	1.5	55.500
L1772.60-2550	60	2550	1.5	56.610
L1772.60-2600	60	2600	1.5	57.720
L1772.60-2650	60	2650	1.5	58.830
L1772.60-2700	60	2700	1.5	59.940
L1772.60-2750	60	2750	1.5	61.050
L1772.60-2800	60	2800	1.5	62.160
L1772.60-2850	60	2850	1.5	63.270
L1772.60-2900	60	2900	1.5	64.380
L1772.60-2950	60	2950	1.5	65.490
L1772.60-3000	60	3000	1.5	66.600
L1772.60-3050	60	3050	1.5	67.710
L1772.60-3100	60	3100	1.5	68.820
L1772.60-3150	60	3150	1.5	69.930
L1772.60-3200	60	3200	1.5	71.040
L1772.60-3250	60	3250	1.5	72.150
L1772.60-3300	60	3300	1.5	73.260
L1772.60-3350	60	3350	1.5	74.370
L1772.60-3400	60	3400	1.5	75.480
L1772.60-3450	60	3450	1.5	76.590
L1772.60-3500	60	3500	1.5	77.700
L1772.60-3550	60	3550	1.5	78.810
L1772.60-3600	60	3600	1.5	79.920
L1772.60-3650	60	3650	1.5	81.030
L1772.60-3700	60	3700	1.5	82.140
L1772.60-3750	60	3750	1.5	83.250
L1772.60-3800	60	3800	1.5	84.360
L1772.60-3850	60	3850	1.5	85.470
L1772.60-3900	60	3900	1.5	86.580
L1772.60-3950	60	3950	1.5	87.690
L1772.60-4000	60	4000	1.5	88.800
L1772.60-4050	60	4050	1.5	89.910
L1772.60-4100	60	4100	1.5	91.020
L1772.60-4150	60	4150	1.5	92.130
L1772.60-4200	60	4200	1.5	93.240
L1772.60-4250	60	4250	1.5	94.350
L1772.60-4300	60	4300	1.5	95.460
L1772.60-4350	60	4350	1.5	96.570
L1772.60-4400	60	4400	1.5	97.680
L1772.60-4450	60	4450	1.5	98.790
L1772.60-4500	60	4500	1.5	99.900
L1772.60-4550	60	4550	1.5	101.010
L1772.60-4600	60	4600	1.5	102.120
L1772.60-4650	60	4650	1.5	103.230
L1772.60-4700	60	4700	1.5	104.340
L1772.60-4750	60	4750	1.5	105.450
L1772.60-4800	60	4800	1.5	106.560
L1772.60-4850	60	4850	1.5	107.670
L1772.60-4900	60	4900	1.5	108.780
L1772.60-4950	60	4950	1.5	109.890
L1772.60-5000	60	5000	1.5	111.000

Ø60 Hardened Stainless Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	Depth of hardness min.	Weight kg
L1772.60-5050	60	5050	1.5	112.110
L1772.60-5100	60	5100	1.5	113.220
L1772.60-5150	60	5150	1.5	114.330
L1772.60-5200	60	5200	1.5	115.440
L1772.60-5250	60	5250	1.5	116.550
L1772.60-5300	60	5300	1.5	117.660
L1772.60-5350	60	5350	1.5	118.770
L1772.60-5400	60	5400	1.5	119.880
L1772.60-5450	60	5450	1.5	120.990
L1772.60-5500	60	5500	1.5	122.100
L1772.60-5550	60	5550	1.5	123.210
L1772.60-5600	60	5600	1.5	124.320
L1772.60-5650	60	5650	1.5	125.430
L1772.60-5700	60	5700	1.5	126.540
L1772.60-5750	60	5750	1.5	127.650
L1772.60-5800	60	5800	1.5	128.760
L1772.60-5850	60	5850	1.5	129.870
L1772.60-5900	60	5900	1.5	130.980
L1772.60-5950	60	5950	1.5	132.090
L1772.60-6000	60	6000	1.5	133.200





L1771.12

Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

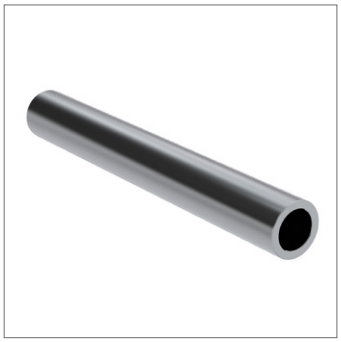
Order No.	d_1 tol. h6	l_1	d_2	Depth of hardness min.
L1771.12-0100	12	100	4	0.4
L1771.12-0150	12	150	4	0.4
L1771.12-0200	12	200	4	0.4
L1771.12-0250	12	250	4	0.4
L1771.12-0300	12	300	4	0.4
L1771.12-0350	12	350	4	0.4
L1771.12-0400	12	400	4	0.4
L1771.12-0450	12	450	4	0.4
L1771.12-0500	12	500	4	0.4
L1771.12-0550	12	550	4	0.4
L1771.12-0600	12	600	4	0.4
L1771.12-0650	12	650	4	0.4
L1771.12-0700	12	700	4	0.4
L1771.12-0750	12	750	4	0.4
L1771.12-0800	12	800	4	0.4
L1771.12-0850	12	850	4	0.4
L1771.12-0900	12	900	4	0.4
L1771.12-0950	12	950	4	0.4
L1771.12-1000	12	1000	4	0.4
L1771.12-1050	12	1050	4	0.4
L1771.12-1100	12	1100	4	0.4
L1771.12-1150	12	1150	4	0.4
L1771.12-1200	12	1200	4	0.4
L1771.12-1250	12	1250	4	0.4
L1771.12-1300	12	1300	4	0.4
L1771.12-1350	12	1350	4	0.4
L1771.12-1400	12	1400	4	0.4
L1771.12-1450	12	1450	4	0.4
L1771.12-1500	12	1500	4	0.4
L1771.12-1550	12	1550	4	0.4
L1771.12-1600	12	1600	4	0.4

12Ø Hardened Hollow Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	d_2	Depth of hardness min.
L1771.12-1650	12	1650	4	0.4
L1771.12-1700	12	1700	4	0.4
L1771.12-1750	12	1750	4	0.4
L1771.12-1800	12	1800	4	0.4
L1771.12-1850	12	1850	4	0.4
L1771.12-1900	12	1900	4	0.4
L1771.12-1950	12	1950	4	0.4
L1771.12-2000	12	2000	4	0.4
L1771.12-2050	12	2050	4	0.4
L1771.12-2100	12	2100	4	0.4
L1771.12-2150	12	2150	4	0.4
L1771.12-2200	12	2200	4	0.4
L1771.12-2250	12	2250	4	0.4
L1771.12-2300	12	2300	4	0.4
L1771.12-2350	12	2350	4	0.4
L1771.12-2400	12	2400	4	0.4
L1771.12-2450	12	2450	4	0.4
L1771.12-2500	12	2500	4	0.4
L1771.12-2550	12	2550	4	0.4
L1771.12-2600	12	2600	4	0.4
L1771.12-2650	12	2650	4	0.4
L1771.12-2700	12	2700	4	0.4
L1771.12-2750	12	2750	4	0.4
L1771.12-2800	12	2800	4	0.4
L1771.12-2850	12	2850	4	0.4
L1771.12-2900	12	2900	4	0.4
L1771.12-2950	12	2950	4	0.4
L1771.12-3000	12	3000	4	0.4
L1771.12-3050	12	3050	4	0.4
L1771.12-3100	12	3100	4	0.4
L1771.12-3150	12	3150	4	0.4
L1771.12-3200	12	3200	4	0.4
L1771.12-3250	12	3250	4	0.4
L1771.12-3300	12	3300	4	0.4
L1771.12-3350	12	3350	4	0.4
L1771.12-3400	12	3400	4	0.4
L1771.12-3450	12	3450	4	0.4
L1771.12-3500	12	3500	4	0.4
L1771.12-3550	12	3550	4	0.4
L1771.12-3600	12	3600	4	0.4
L1771.12-3650	12	3650	4	0.4
L1771.12-3700	12	3700	4	0.4
L1771.12-3750	12	3750	4	0.4
L1771.12-3800	12	3800	4	0.4
L1771.12-3850	12	3850	4	0.4
L1771.12-3900	12	3900	4	0.4
L1771.12-3950	12	3950	4	0.4
L1771.12-4000	12	4000	4	0.4
L1771.12-4050	12	4050	4	0.4
L1771.12-4100	12	4100	4	0.4
L1771.12-4150	12	4150	4	0.4
L1771.12-4200	12	4200	4	0.4
L1771.12-4250	12	4250	4	0.4
L1771.12-4300	12	4300	4	0.4
L1771.12-4350	12	4350	4	0.4
L1771.12-4400	12	4400	4	0.4
L1771.12-4450	12	4450	4	0.4
L1771.12-4500	12	4500	4	0.4
L1771.12-4550	12	4550	4	0.4
L1771.12-4600	12	4600	4	0.4
L1771.12-4650	12	4650	4	0.4
L1771.12-4700	12	4700	4	0.4
L1771.12-4750	12	4750	4	0.4
L1771.12-4800	12	4800	4	0.4
L1771.12-4850	12	4850	4	0.4
L1771.12-4900	12	4900	4	0.4
L1771.12-4950	12	4950	4	0.4
L1771.12-5000	12	5000	4	0.4

Order No.	d_1 tol. h6	l_1	d_2	Depth of hardness min.
L1771.12-5050	12	5050	4	0.4
L1771.12-5100	12	5100	4	0.4
L1771.12-5150	12	5150	4	0.4
L1771.12-5200	12	5200	4	0.4
L1771.12-5250	12	5250	4	0.4
L1771.12-5300	12	5300	4	0.4
L1771.12-5350	12	5350	4	0.4
L1771.12-5400	12	5400	4	0.4
L1771.12-5450	12	5450	4	0.4
L1771.12-5500	12	5500	4	0.4
L1771.12-5550	12	5550	4	0.4
L1771.12-5600	12	5600	4	0.4
L1771.12-5650	12	5650	4	0.4
L1771.12-5700	12	5700	4	0.4
L1771.12-5750	12	5750	4	0.4
L1771.12-5800	12	5800	4	0.4
L1771.12-5850	12	5850	4	0.4
L1771.12-5900	12	5900	4	0.4
L1771.12-5950	12	5950	4	0.4
L1771.12-6000	12	6000	4	0.4

16Ø Hardened Hollow Shafts
for linear bearings



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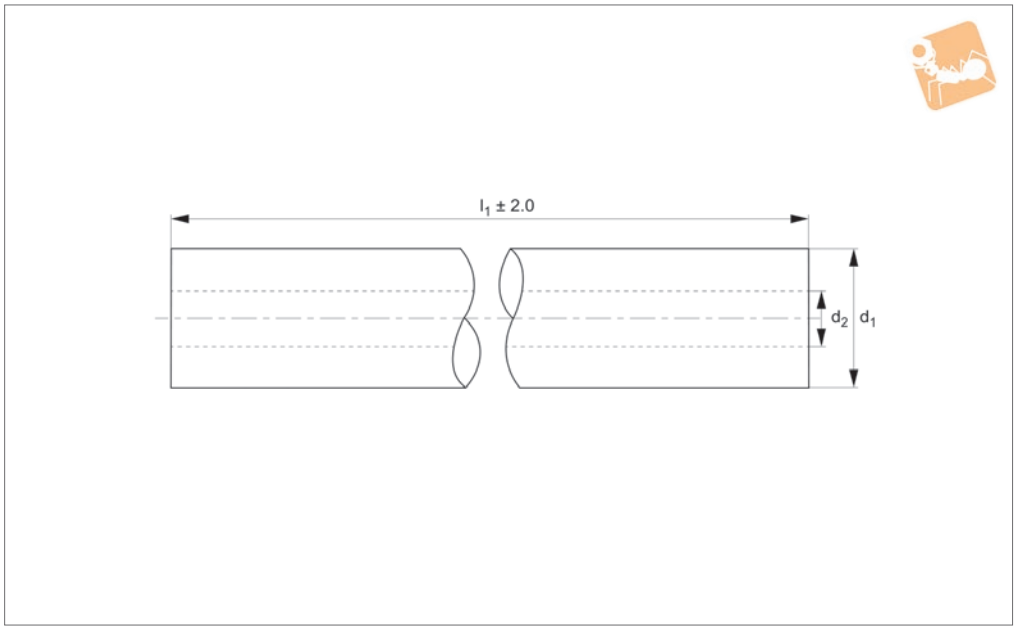


Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

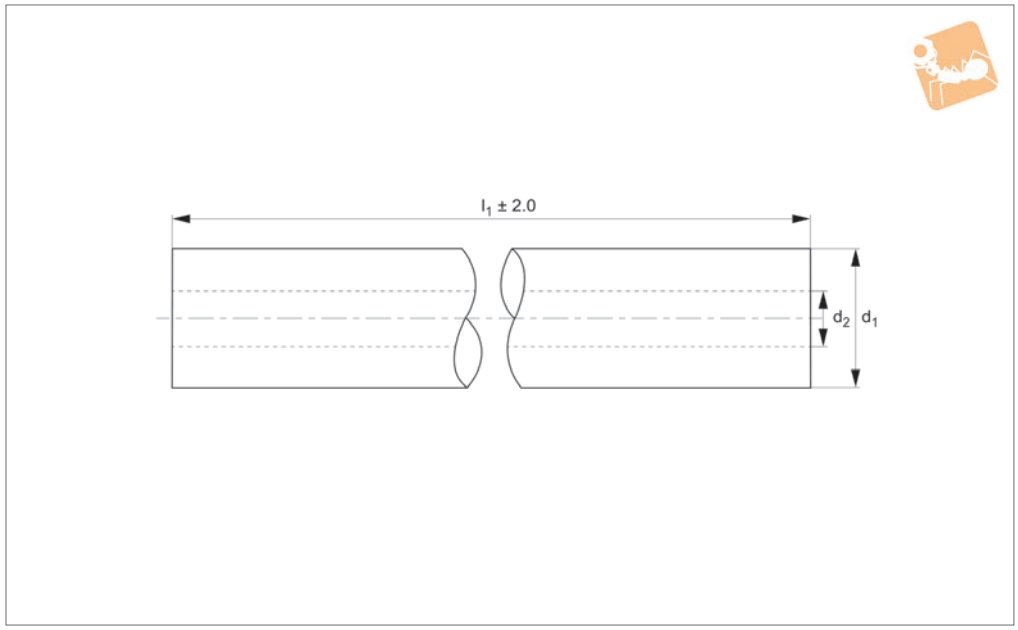
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.16-0100	16	100	7	0.4
L1771.16-0150	16	150	7	0.4
L1771.16-0200	16	200	7	0.4
L1771.16-0250	16	250	7	0.4
L1771.16-0300	16	300	7	0.4
L1771.16-0350	16	350	7	0.4
L1771.16-0400	16	400	7	0.4
L1771.16-0450	16	450	7	0.4
L1771.16-0500	16	500	7	0.4
L1771.16-0550	16	550	7	0.4
L1771.16-0600	16	600	7	0.4
L1771.16-0650	16	650	7	0.4
L1771.16-0700	16	700	7	0.4
L1771.16-0750	16	750	7	0.4
L1771.16-0800	16	800	7	0.4
L1771.16-0850	16	850	7	0.4
L1771.16-0900	16	900	7	0.4
L1771.16-1000	16	1000	7	0.4
L1771.16-1050	16	1050	7	0.4
L1771.16-1100	16	1100	7	0.4
L1771.16-1150	16	1150	7	0.4
L1771.16-1200	16	1200	7	0.4
L1771.16-1250	16	1250	7	0.4
L1771.16-1300	16	1300	7	0.4
L1771.16-1350	16	1350	7	0.4
L1771.16-1400	16	1400	7	0.4
L1771.16-1450	16	1450	7	0.4
L1771.16-1500	16	1500	7	0.4
L1771.16-1550	16	1550	7	0.4
L1771.16-1600	16	1600	7	0.4
L1771.16-1650	16	1650	7	0.4

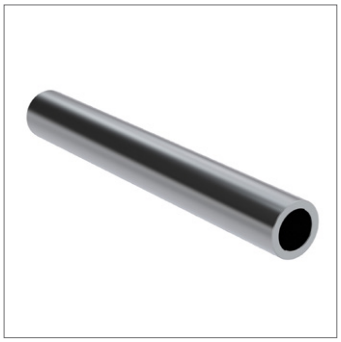
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.16-1700	16	1700	7	0.4
L1771.16-1750	16	1750	7	0.4
L1771.16-1800	16	1800	7	0.4
L1771.16-1850	16	1850	7	0.4
L1771.16-1900	16	1900	7	0.4
L1771.16-1950	16	1950	7	0.4
L1771.16-2000	16	2000	7	0.4
L1771.16-2050	16	2050	7	0.4
L1771.16-2100	16	2100	7	0.4
L1771.16-2150	16	2150	7	0.4
L1771.16-2200	16	2200	7	0.4
L1771.16-2250	16	2250	7	0.4
L1771.16-2300	16	2300	7	0.4
L1771.16-2350	16	2350	7	0.4
L1771.16-2400	16	2400	7	0.4
L1771.16-2450	16	2450	7	0.4
L1771.16-2500	16	2500	7	0.4
L1771.16-2550	16	2550	7	0.4
L1771.16-2600	16	2600	7	0.4
L1771.16-2650	16	2650	7	0.4
L1771.16-2700	16	2700	7	0.4
L1771.16-2750	16	2750	7	0.4
L1771.16-2800	16	2800	7	0.4
L1771.16-2850	16	2850	7	0.4
L1771.16-2900	16	2900	7	0.4
L1771.16-2950	16	2950	7	0.4
L1771.16-3000	16	3000	7	0.4
L1771.16-3050	16	3050	7	0.4
L1771.16-3100	16	3100	7	0.4
L1771.16-3150	16	3150	7	0.4
L1771.16-3200	16	3200	7	0.4
L1771.16-3250	16	3250	7	0.4
L1771.16-3300	16	3300	7	0.4
L1771.16-3350	16	3350	7	0.4
L1771.16-3400	16	3400	7	0.4
L1771.16-3450	16	3450	7	0.4
L1771.16-3500	16	3500	7	0.4
L1771.16-3550	16	3550	7	0.4
L1771.16-3600	16	3600	7	0.4
L1771.16-3650	16	3650	7	0.4
L1771.16-3700	16	3700	7	0.4
L1771.16-3750	16	3750	7	0.4
L1771.16-3800	16	3800	7	0.4
L1771.16-3850	16	3850	7	0.4
L1771.16-3900	16	3900	7	0.4
L1771.16-3950	16	3950	7	0.4
L1771.16-4000	16	4000	7	0.4
L1771.16-4050	16	4050	7	0.4
L1771.16-4100	16	4100	7	0.4
L1771.16-4150	16	4150	7	0.4
L1771.16-4200	16	4200	7	0.4
L1771.16-4250	16	4250	7	0.4
L1771.16-4300	16	4300	7	0.4
L1771.16-4350	16	4350	7	0.4
L1771.16-4400	16	4400	7	0.4
L1771.16-4450	16	4450	7	0.4
L1771.16-4500	16	4500	7	0.4
L1771.16-4550	16	4550	7	0.4
L1771.16-4600	16	4600	7	0.4
L1771.16-4650	16	4650	7	0.4
L1771.16-4700	16	4700	7	0.4
L1771.16-4750	16	4750	7	0.4
L1771.16-4800	16	4800	7	0.4
L1771.16-4850	16	4850	7	0.4
L1771.16-4900	16	4900	7	0.4
L1771.16-4950	16	4950	7	0.4
L1771.16-5000	16	5000	7	0.4
L1771.16-5050	16	5050	7	0.4

16Ø Hardened Hollow Shafts

for linear bearings

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.16-5100	16	5100	7	0.4
L1771.16-5150	16	5150	7	0.4
L1771.16-5200	16	5200	7	0.4
L1771.16-5250	16	5250	7	0.4
L1771.16-5300	16	5300	7	0.4
L1771.16-5350	16	5350	7	0.4
L1771.16-5400	16	5400	7	0.4
L1771.16-5450	16	5450	7	0.4
L1771.16-5500	16	5500	7	0.4
L1771.16-5550	16	5550	7	0.4
L1771.16-5600	16	5600	7	0.4
L1771.16-5650	16	5650	7	0.4
L1771.16-5700	16	5700	7	0.4
L1771.16-5750	16	5750	7	0.4
L1771.16-5800	16	5800	7	0.4
L1771.16-5850	16	5850	7	0.4
L1771.16-5900	16	5900	7	0.4
L1771.16-5950	16	5950	7	0.4
L1771.16-6000	16	6000	7	0.4





L1771.20

Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

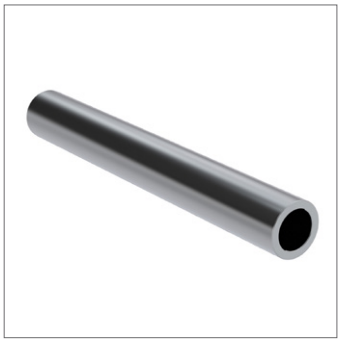
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.20-0100	20	100	14	0.4
L1771.20-0150	20	150	14	0.4
L1771.20-0200	20	200	14	0.4
L1771.20-0250	20	250	14	0.4
L1771.20-0300	20	300	14	0.4
L1771.20-0350	20	350	14	0.4
L1771.20-0400	20	400	14	0.4
L1771.20-0450	20	450	14	0.4
L1771.20-0500	20	500	14	0.4
L1771.20-0550	20	550	14	0.4
L1771.20-0600	20	600	14	0.4
L1771.20-0650	20	650	14	0.4
L1771.20-0700	20	700	14	0.4
L1771.20-0750	20	750	14	0.4
L1771.20-0800	20	800	14	0.4
L1771.20-0850	20	850	14	0.4
L1771.20-0900	20	900	14	0.4
L1771.20-0950	20	950	14	0.4
L1771.20-1000	20	1000	14	0.4
L1771.20-1050	20	1050	14	0.4
L1771.20-1100	20	1100	14	0.4
L1771.20-1150	20	1150	14	0.4
L1771.20-1200	20	1200	14	0.4
L1771.20-1250	20	1250	14	0.4
L1771.20-1300	20	1300	14	0.4
L1771.20-1350	20	1350	14	0.4
L1771.20-1400	20	1400	14	0.4
L1771.20-1450	20	1450	14	0.4
L1771.20-1500	20	1500	14	0.4
L1771.20-1550	20	1550	14	0.4
L1771.20-1600	20	1600	14	0.4

20Ø Hardened Hollow Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.20-1650	20	1650	14	0.4
L1771.20-1700	20	1700	14	0.4
L1771.20-1750	20	1750	14	0.4
L1771.20-1800	20	1800	14	0.4
L1771.20-1850	20	1850	14	0.4
L1771.20-1900	20	1900	14	0.4
L1771.20-1950	20	1950	14	0.4
L1771.20-2000	20	2000	14	0.4
L1771.20-2050	20	2050	14	0.4
L1771.20-2100	20	2100	14	0.4
L1771.20-2150	20	2150	14	0.4
L1771.20-2200	20	2200	14	0.4
L1771.20-2250	20	2250	14	0.4
L1771.20-2300	20	2300	14	0.4
L1771.20-2350	20	2350	14	0.4
L1771.20-2400	20	2400	14	0.4
L1771.20-2450	20	2450	14	0.4
L1771.20-2500	20	2500	14	0.4
L1771.20-2550	20	2550	14	0.4
L1771.20-2600	20	2600	14	0.4
L1771.20-2650	20	2650	14	0.4
L1771.20-2700	20	2700	14	0.4
L1771.20-2750	20	2750	14	0.4
L1771.20-2800	20	2800	14	0.4
L1771.20-2850	20	2850	14	0.4
L1771.20-2900	20	2900	14	0.4
L1771.20-2950	20	2950	14	0.4
L1771.20-3000	20	3000	14	0.4
L1771.20-3050	20	3050	14	0.4
L1771.20-3100	20	3100	14	0.4
L1771.20-3150	20	3150	14	0.4
L1771.20-3200	20	3200	14	0.4
L1771.20-3250	20	3250	14	0.4
L1771.20-3300	20	3300	14	0.4
L1771.20-3350	20	3350	14	0.4
L1771.20-3400	20	3400	14	0.4
L1771.20-3450	20	3450	14	0.4
L1771.20-3500	20	3500	14	0.4
L1771.20-3550	20	3550	14	0.4
L1771.20-3600	20	3600	14	0.4
L1771.20-3650	20	3650	14	0.4
L1771.20-3700	20	3700	14	0.4
L1771.20-3750	20	3750	14	0.4
L1771.20-3800	20	3800	14	0.4
L1771.20-3850	20	3850	14	0.4
L1771.20-3900	20	3900	14	0.4
L1771.20-3950	20	3950	14	0.4
L1771.20-4000	20	4000	14	0.4
L1771.20-4050	20	4050	14	0.4
L1771.20-4100	20	4100	14	0.4
L1771.20-4150	20	4150	14	0.4
L1771.20-4200	20	4200	14	0.4
L1771.20-4250	20	4250	14	0.4
L1771.20-4300	20	4300	14	0.4
L1771.20-4350	20	4350	14	0.4
L1771.20-4400	20	4400	14	0.4
L1771.20-4450	20	4450	14	0.4
L1771.20-4500	20	4500	14	0.4
L1771.20-4550	20	4550	14	0.4
L1771.20-4600	20	4600	14	0.4
L1771.20-4650	20	4650	14	0.4
L1771.20-4700	20	4700	14	0.4
L1771.20-4750	20	4750	14	0.4
L1771.20-4800	20	4800	14	0.4
L1771.20-4850	20	4850	14	0.4
L1771.20-4900	20	4900	14	0.4
L1771.20-4950	20	4950	14	0.4
L1771.20-5000	20	5000	14	0.4

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.20-5050	20	5050	14	0.4
L1771.20-5100	20	5100	14	0.4
L1771.20-5150	20	5150	14	0.4
L1771.20-5200	20	5200	14	0.4
L1771.20-5250	20	5250	14	0.4
L1771.20-5300	20	5300	14	0.4
L1771.20-5350	20	5350	14	0.4
L1771.20-5400	20	5400	14	0.4
L1771.20-5450	20	5450	14	0.4
L1771.20-5500	20	5500	14	0.4
L1771.20-5550	20	5550	14	0.4
L1771.20-5600	20	5600	14	0.4
L1771.20-5650	20	5650	14	0.4
L1771.20-5700	20	5700	14	0.4
L1771.20-5750	20	5750	14	0.4
L1771.20-5800	20	5800	14	0.4
L1771.20-5850	20	5850	14	0.4
L1771.20-5900	20	5900	14	0.4
L1771.20-5950	20	5950	14	0.4
L1771.20-6000	20	6000	14	0.4

25Ø Hardened Hollow Shafts
for linear bearings



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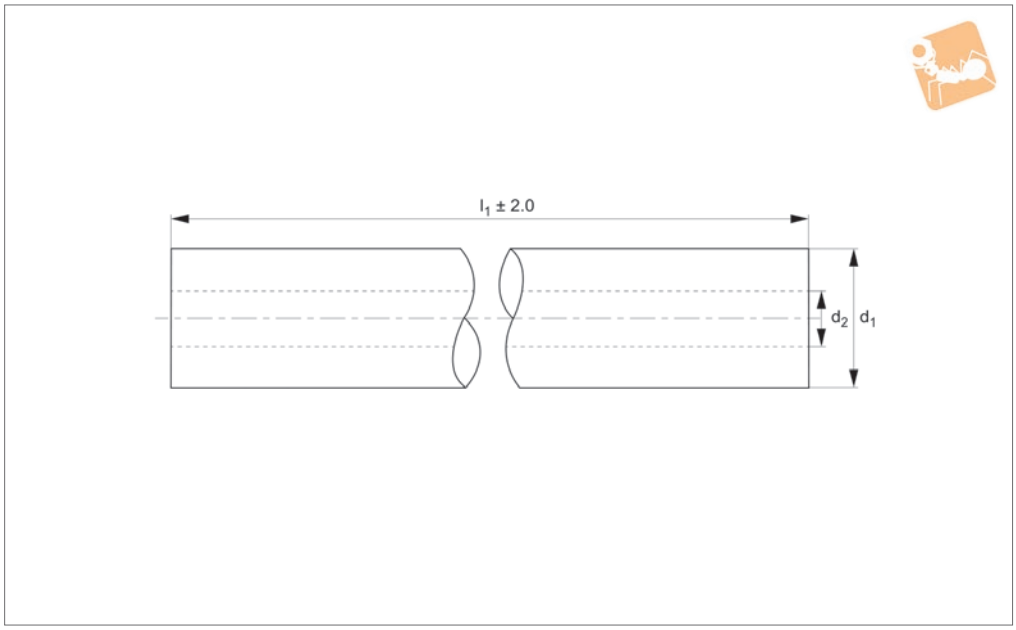


Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

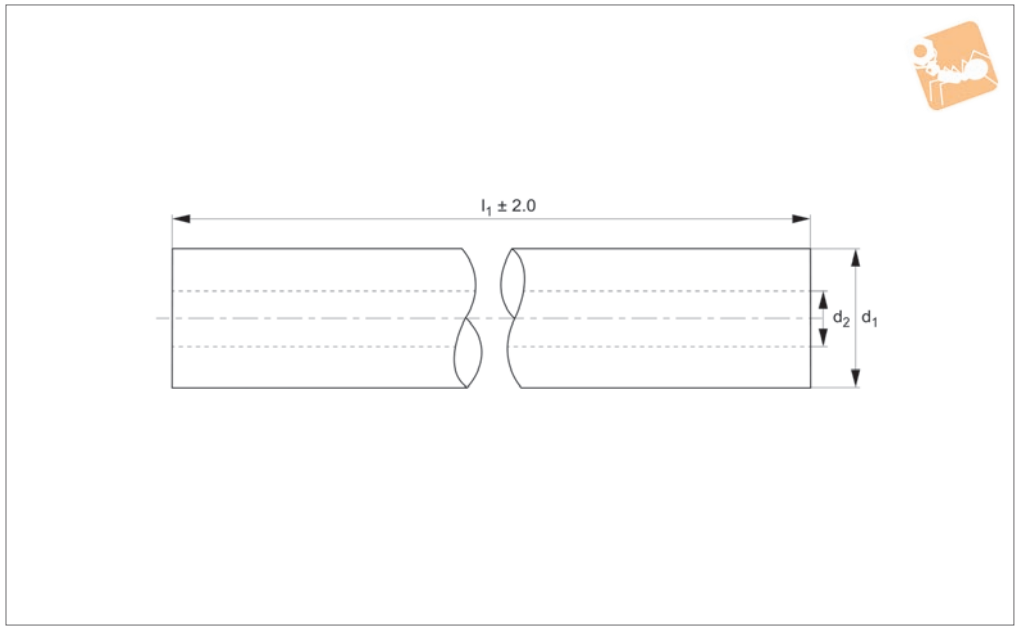
Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

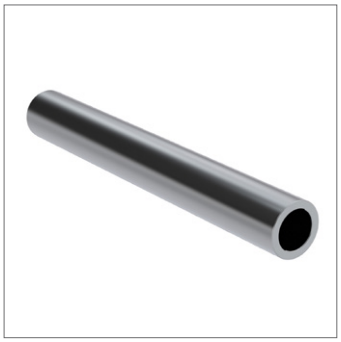
Order No.	d_1 tol. h6	l_1	d_2	Depth of hardness min.
L1771.25-0100	25	100	15	0.4
L1771.25-0150	25	150	15	0.4
L1771.25-0200	25	200	15	0.4
L1771.25-0250	25	250	15	0.4
L1771.25-0300	25	300	15	0.4
L1771.25-0350	25	350	15	0.4
L1771.25-0400	25	400	15	0.4
L1771.25-0450	25	450	15	0.4
L1771.25-0500	25	500	15	0.4
L1771.25-0550	25	550	15	0.4
L1771.25-0600	25	600	15	0.4
L1771.25-0650	25	650	15	0.4
L1771.25-0700	25	700	15	0.4
L1771.25-0750	25	750	15	0.4
L1771.25-0800	25	800	15	0.4
L1771.25-0850	25	850	15	0.4
L1771.25-0900	25	900	15	0.4
L1771.25-0950	25	950	15	0.4
L1771.25-1000	25	1000	15	0.4
L1771.25-1050	25	1050	15	0.4
L1771.25-1100	25	1100	15	0.4
L1771.25-1150	25	1150	15	0.4
L1771.25-1200	25	1200	15	0.4
L1771.25-1250	25	1250	15	0.4
L1771.25-1300	25	1300	15	0.4
L1771.25-1350	25	1350	15	0.4
L1771.25-1400	25	1400	15	0.4
L1771.25-1450	25	1450	15	0.4
L1771.25-1500	25	1500	15	0.4
L1771.25-1550	25	1550	15	0.4
L1771.25-1600	25	1600	15	0.4

Order No.	d_1 tol. h6	l_1	d_2	Depth of hardness min.
L1771.25-1650	25	1650	15	0.4
L1771.25-1700	25	1700	15	0.4
L1771.25-1750	25	1750	15	0.4
L1771.25-1800	25	1800	15	0.4
L1771.25-1850	25	1850	15	0.4
L1771.25-1900	25	1900	15	0.4
L1771.25-1950	25	1950	15	0.4
L1771.25-2000	25	2000	15	0.4
L1771.25-2050	25	2050	15	0.4
L1771.25-2100	25	2100	15	0.4
L1771.25-2150	25	2150	15	0.4
L1771.25-2200	25	2200	15	0.4
L1771.25-2250	25	2250	15	0.4
L1771.25-2300	25	2300	15	0.4
L1771.25-2350	25	2350	15	0.4
L1771.25-2400	25	2400	15	0.4
L1771.25-2450	25	2450	15	0.4
L1771.25-2500	25	2500	15	0.4
L1771.25-2550	25	2550	15	0.4
L1771.25-2600	25	2600	15	0.4
L1771.25-2650	25	2650	15	0.4
L1771.25-2700	25	2700	15	0.4
L1771.25-2750	25	2750	15	0.4
L1771.25-2800	25	2800	15	0.4
L1771.25-2850	25	2850	15	0.4
L1771.25-2900	25	2900	15	0.4
L1771.25-2950	25	2950	15	0.4
L1771.25-3000	25	3000	15	0.4
L1771.25-3050	25	3050	15	0.4
L1771.25-3100	25	3100	15	0.4
L1771.25-3150	25	3150	15	0.4
L1771.25-3200	25	3200	15	0.4
L1771.25-3250	25	3250	15	0.4
L1771.25-3300	25	3300	15	0.4
L1771.25-3350	25	3350	15	0.4
L1771.25-3400	25	3400	15	0.4
L1771.25-3450	25	3450	15	0.4
L1771.25-3500	25	3500	15	0.4
L1771.25-3550	25	3550	15	0.4
L1771.25-3600	25	3600	15	0.4
L1771.25-3650	25	3650	15	0.4
L1771.25-3700	25	3700	15	0.4
L1771.25-3750	25	3750	15	0.4
L1771.25-3800	25	3800	15	0.4
L1771.25-3850	25	3850	15	0.4
L1771.25-3900	25	3900	15	0.4
L1771.25-3950	25	3950	15	0.4
L1771.25-4000	25	4000	15	0.4
L1771.25-4050	25	4050	15	0.4
L1771.25-4100	25	4100	15	0.4
L1771.25-4150	25	4150	15	0.4
L1771.25-4200	25	4200	15	0.4
L1771.25-4250	25	4250	15	0.4
L1771.25-4300	25	4300	15	0.4
L1771.25-4350	25	4350	15	0.4
L1771.25-4400	25	4400	15	0.4
L1771.25-4450	25	4450	15	0.4
L1771.25-4500	25	4500	15	0.4
L1771.25-4550	25	4550	15	0.4
L1771.25-4600	25	4600	15	0.4
L1771.25-4650	25	4650	15	0.4
L1771.25-4700	25	4700	15	0.4
L1771.25-4750	25	4750	15	0.4
L1771.25-4800	25	4800	15	0.4
L1771.25-4850	25	4850	15	0.4
L1771.25-4900	25	4900	15	0.4
L1771.25-4950	25	4950	15	0.4
L1771.25-5000	25	5000	15	0.4

25Ø Hardened Hollow Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	d_2	Depth of hardness min.
L1771.25-5050	25	5050	15	0.4
L1771.25-5100	25	5100	15	0.4
L1771.25-5150	25	5150	15	0.4
L1771.25-5200	25	5200	15	0.4
L1771.25-5250	25	5250	15	0.4
L1771.25-5300	25	5300	15	0.4
L1771.25-5350	25	5350	15	0.4
L1771.25-5400	25	5400	15	0.4
L1771.25-5450	25	5450	15	0.4
L1771.25-5500	25	5500	15	0.4
L1771.25-5550	25	5550	15	0.4
L1771.25-5600	25	5600	15	0.4
L1771.25-5650	25	5650	15	0.4
L1771.25-5700	25	5700	15	0.4
L1771.25-5750	25	5750	15	0.4
L1771.25-5800	25	5800	15	0.4
L1771.25-5850	25	5850	15	0.4
L1771.25-5900	25	5900	15	0.4
L1771.25-5950	25	5950	15	0.4
L1771.25-6000	25	6000	15	0.4





L1771.30

Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

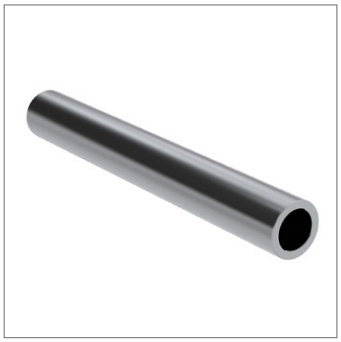
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.30-0100	30	100	18	0.6
L1771.30-0150	30	150	18	0.6
L1771.30-0200	30	200	18	0.6
L1771.30-0250	30	250	18	0.6
L1771.30-0300	30	300	18	0.6
L1771.30-0350	30	350	18	0.6
L1771.30-0400	30	400	18	0.6
L1771.30-0450	30	450	18	0.6
L1771.30-0500	30	500	18	0.6
L1771.30-0550	30	550	18	0.6
L1771.30-0600	30	600	18	0.6
L1771.30-0650	30	650	18	0.6
L1771.30-0700	30	700	18	0.6
L1771.30-0750	30	750	18	0.6
L1771.30-0800	30	800	18	0.6
L1771.30-0850	30	850	18	0.6
L1771.30-0900	30	900	18	0.6
L1771.30-0950	30	950	18	0.6
L1771.30-1000	30	1000	18	0.6
L1771.30-1050	30	1050	18	0.6
L1771.30-1100	30	1100	18	0.6
L1771.30-1150	30	1150	18	0.6
L1771.30-1200	30	1200	18	0.6
L1771.30-1250	30	1250	18	0.6
L1771.30-1300	30	1300	18	0.6
L1771.30-1350	30	1350	18	0.6
L1771.30-1400	30	1400	18	0.6
L1771.30-1450	30	1450	18	0.6
L1771.30-1500	30	1500	18	0.6
L1771.30-1550	30	1550	18	0.6
L1771.30-1600	30	1600	18	0.6

30Ø Hardened Hollow Shafts
for linear bearings

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.30-1650	30	1650	18	0.6
L1771.30-1700	30	1700	18	0.6
L1771.30-1750	30	1750	18	0.6
L1771.30-1800	30	1800	18	0.6
L1771.30-1850	30	1850	18	0.6
L1771.30-1900	30	1900	18	0.6
L1771.30-1950	30	1950	18	0.6
L1771.30-2000	30	2000	18	0.6
L1771.30-2050	30	2050	18	0.6
L1771.30-2100	30	2100	18	0.6
L1771.30-2150	30	2150	18	0.6
L1771.30-2200	30	2200	18	0.6
L1771.30-2250	30	2250	18	0.6
L1771.30-2300	30	2300	18	0.6
L1771.30-2350	30	2350	18	0.6
L1771.30-2400	30	2400	18	0.6
L1771.30-2450	30	2450	18	0.6
L1771.30-2500	30	2500	18	0.6
L1771.30-2550	30	2550	18	0.6
L1771.30-2600	30	2600	18	0.6
L1771.30-2650	30	2650	18	0.6
L1771.30-2700	30	2700	18	0.6
L1771.30-2750	30	2750	18	0.6
L1771.30-2800	30	2800	18	0.6
L1771.30-2850	30	2850	18	0.6
L1771.30-2900	30	2900	18	0.6
L1771.30-2950	30	2950	18	0.6
L1771.30-3000	30	3000	18	0.6
L1771.30-3050	30	3050	18	0.6
L1771.30-3100	30	3100	18	0.6
L1771.30-3150	30	3150	18	0.6
L1771.30-3200	30	3200	18	0.6
L1771.30-3250	30	3250	18	0.6
L1771.30-3300	30	3300	18	0.6
L1771.30-3350	30	3350	18	0.6
L1771.30-3400	30	3400	18	0.6
L1771.30-3450	30	3450	18	0.6
L1771.30-3500	30	3500	18	0.6
L1771.30-3550	30	3550	18	0.6
L1771.30-3600	30	3600	18	0.6
L1771.30-3650	30	3650	18	0.6
L1771.30-3700	30	3700	18	0.6
L1771.30-3750	30	3750	18	0.6
L1771.30-3800	30	3800	18	0.6
L1771.30-3850	30	3850	18	0.6
L1771.30-3900	30	3900	18	0.6
L1771.30-3950	30	3950	18	0.6
L1771.30-4000	30	4000	18	0.6
L1771.30-4050	30	4050	18	0.6
L1771.30-4100	30	4100	18	0.6
L1771.30-4150	30	4150	18	0.6
L1771.30-4200	30	4200	18	0.6
L1771.30-4250	30	4250	18	0.6
L1771.30-4300	30	4300	18	0.6
L1771.30-4350	30	4350	18	0.6
L1771.30-4400	30	4400	18	0.6
L1771.30-4450	30	4450	18	0.6
L1771.30-4500	30	4500	18	0.6
L1771.30-4550	30	4550	18	0.6
L1771.30-4600	30	4600	18	0.6
L1771.30-4650	30	4650	18	0.6
L1771.30-4700	30	4700	18	0.6
L1771.30-4750	30	4750	18	0.6
L1771.30-4800	30	4800	18	0.6
L1771.30-4850	30	4850	18	0.6
L1771.30-4900	30	4900	18	0.6
L1771.30-4950	30	4950	18	0.6
L1771.30-5000	30	5000	18	0.6

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.30-5050	30	5050	18	0.6
L1771.30-5100	30	5100	18	0.6
L1771.30-5150	30	5150	18	0.6
L1771.30-5200	30	5200	18	0.6
L1771.30-5250	30	5250	18	0.6
L1771.30-5300	30	5300	18	0.6
L1771.30-5350	30	5350	18	0.6
L1771.30-5400	30	5400	18	0.6
L1771.30-5450	30	5450	18	0.6
L1771.30-5500	30	5500	18	0.6
L1771.30-5550	30	5550	18	0.6
L1771.30-5600	30	5600	18	0.6
L1771.30-5650	30	5650	18	0.6
L1771.30-5700	30	5700	18	0.6
L1771.30-5750	30	5750	18	0.6
L1771.30-5800	30	5800	18	0.6
L1771.30-5850	30	5850	18	0.6
L1771.30-5900	30	5900	18	0.6
L1771.30-5950	30	5950	18	0.6
L1771.30-6000	30	6000	18	0.6

40Ø Hardened Hollow Shafts
for linear bearings



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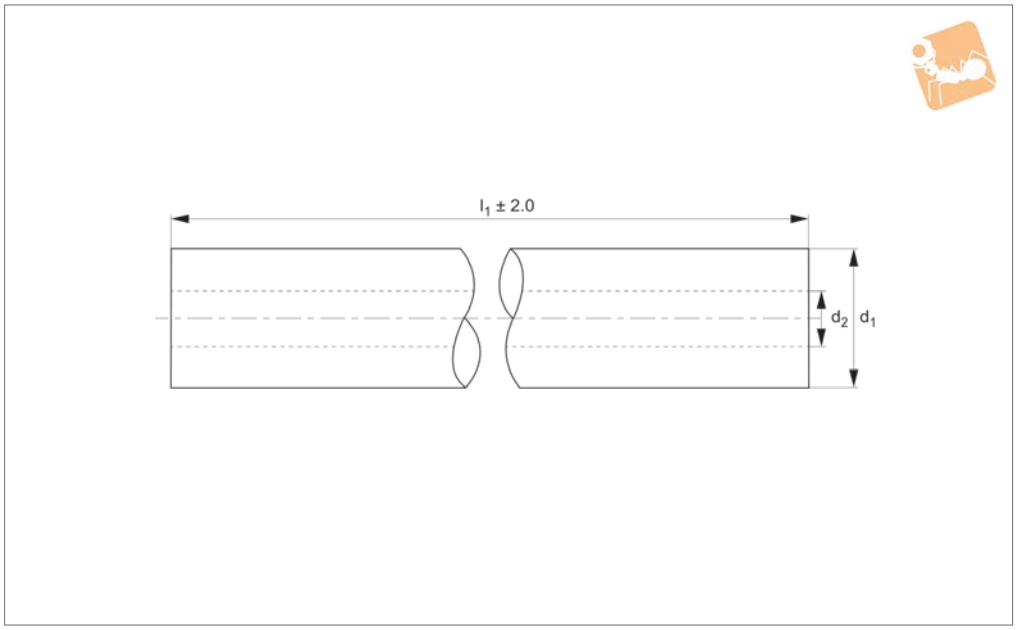


Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

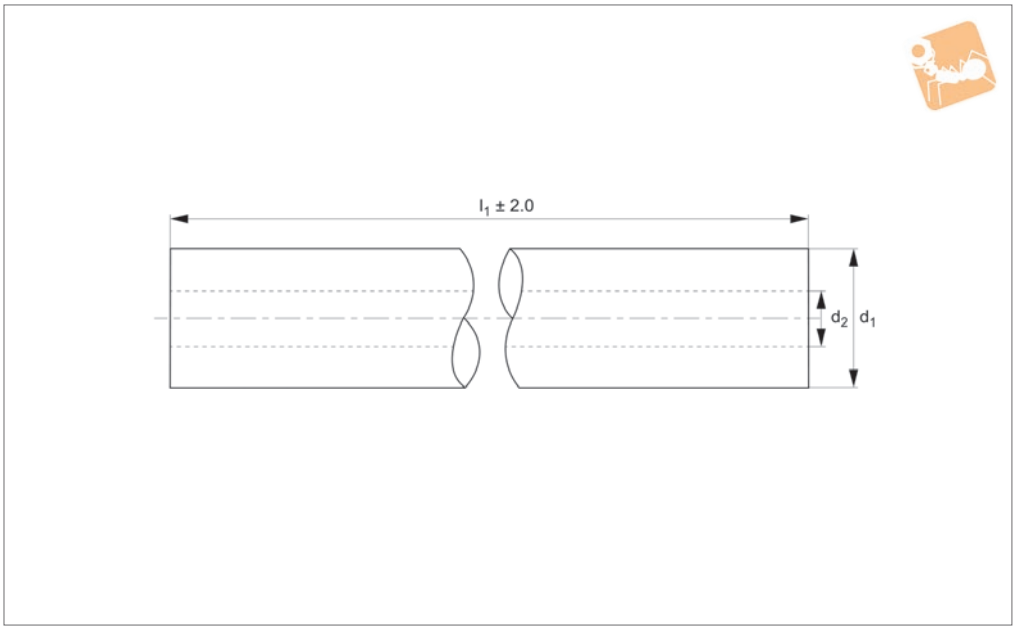
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.40-0100	40	100	28	0.6
L1771.40-0150	40	150	28	0.6
L1771.40-0200	40	200	28	0.6
L1771.40-0250	40	250	28	0.6
L1771.40-0300	40	300	28	0.6
L1771.40-0350	40	350	28	0.6
L1771.40-0400	40	400	28	0.6
L1771.40-0450	40	450	28	0.6
L1771.40-0500	40	500	28	0.6
L1771.40-0550	40	550	28	0.6
L1771.40-0600	40	600	28	0.6
L1771.40-0650	40	650	28	0.6
L1771.40-0700	40	700	28	0.6
L1771.40-0750	40	750	28	0.6
L1771.40-0800	40	800	28	0.6
L1771.40-0850	40	850	28	0.6
L1771.40-0900	40	900	28	0.6
L1771.40-0950	40	950	28	0.6
L1771.40-1000	40	1000	28	0.6
L1771.40-1050	40	1050	28	0.6
L1771.40-1100	40	1100	28	0.6
L1771.40-1150	40	1150	28	0.6
L1771.40-1200	40	1200	28	0.6
L1771.40-1250	40	1250	28	0.6
L1771.40-1300	40	1300	28	0.6
L1771.40-1350	40	1350	28	0.6
L1771.40-1400	40	1400	28	0.6
L1771.40-1450	40	1450	28	0.6
L1771.40-1500	40	1500	28	0.6
L1771.40-1550	40	1550	28	0.6
L1771.40-1600	40	1600	28	0.6

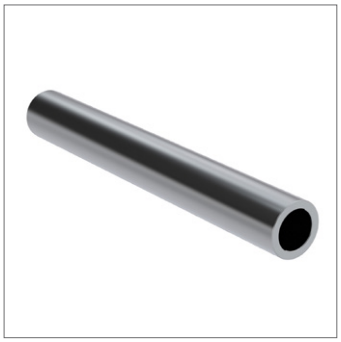
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.40-1650	40	1650	28	0.6
L1771.40-1700	40	1700	28	0.6
L1771.40-1750	40	1750	28	0.6
L1771.40-1800	40	1800	28	0.6
L1771.40-1850	40	1850	28	0.6
L1771.40-1900	40	1900	28	0.6
L1771.40-1950	40	1950	28	0.6
L1771.40-2000	40	2000	28	0.6
L1771.40-2050	40	2050	28	0.6
L1771.40-2100	40	2100	28	0.6
L1771.40-2150	40	2150	28	0.6
L1771.40-2200	40	2200	28	0.6
L1771.40-2250	40	2250	28	0.6
L1771.40-2300	40	2300	28	0.6
L1771.40-2350	40	2350	28	0.6
L1771.40-2400	40	2400	28	0.6
L1771.40-2450	40	2450	28	0.6
L1771.40-2500	40	2500	28	0.6
L1771.40-2550	40	2550	28	0.6
L1771.40-2600	40	2600	28	0.6
L1771.40-2650	40	2650	28	0.6
L1771.40-2700	40	2700	28	0.6
L1771.40-2750	40	2750	28	0.6
L1771.40-2800	40	2800	28	0.6
L1771.40-2850	40	2850	28	0.6
L1771.40-2900	40	2900	28	0.6
L1771.40-2950	40	2950	28	0.6
L1771.40-3000	40	3000	28	0.6
L1771.40-3050	40	3050	28	0.6
L1771.40-3100	40	3100	28	0.6
L1771.40-3150	40	3150	28	0.6
L1771.40-3200	40	3200	28	0.6
L1771.40-3250	40	3250	28	0.6
L1771.40-3300	40	3300	28	0.6
L1771.40-3350	40	3350	28	0.6
L1771.40-3400	40	3400	28	0.6
L1771.40-3450	40	3450	28	0.6
L1771.40-3500	40	3500	28	0.6
L1771.40-3550	40	3550	28	0.6
L1771.40-3600	40	3600	28	0.6
L1771.40-3650	40	3650	28	0.6
L1771.40-3700	40	3700	28	0.6
L1771.40-3750	40	3750	28	0.6
L1771.40-3800	40	3800	28	0.6
L1771.40-3850	40	3850	28	0.6
L1771.40-3900	40	3900	28	0.6
L1771.40-3950	40	3950	28	0.6
L1771.40-4000	40	4000	28	0.6
L1771.40-4050	40	4050	28	0.6
L1771.40-4100	40	4100	28	0.6
L1771.40-4150	40	4150	28	0.6
L1771.40-4200	40	4200	28	0.6
L1771.40-4250	40	4250	28	0.6
L1771.40-4300	40	4300	28	0.6
L1771.40-4350	40	4350	28	0.6
L1771.40-4400	40	4400	28	0.6
L1771.40-4450	40	4450	28	0.6
L1771.40-4500	40	4500	28	0.6
L1771.40-4550	40	4550	28	0.6
L1771.40-4600	40	4600	28	0.6
L1771.40-4650	40	4650	28	0.6
L1771.40-4700	40	4700	28	0.6
L1771.40-4750	40	4750	28	0.6
L1771.40-4800	40	4800	28	0.6
L1771.40-4850	40	4850	28	0.6
L1771.40-4900	40	4900	28	0.6
L1771.40-4950	40	4950	28	0.6
L1771.40-5000	40	5000	28	0.6

40Ø Hardened Hollow Shafts

for linear bearings

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.40-5050	40	5050	28	0.6
L1771.40-5100	40	5100	28	0.6
L1771.40-5150	40	5150	28	0.6
L1771.40-5200	40	5200	28	0.6
L1771.40-5250	40	5250	28	0.6
L1771.40-5300	40	5300	28	0.6
L1771.40-5350	40	5350	28	0.6
L1771.40-5400	40	5400	28	0.6
L1771.40-5450	40	5450	28	0.6
L1771.40-5500	40	5500	28	0.6
L1771.40-5550	40	5550	28	0.6
L1771.40-5600	40	5600	28	0.6
L1771.40-5650	40	5650	28	0.6
L1771.40-5700	40	5700	28	0.6
L1771.40-5750	40	5750	28	0.6
L1771.40-5800	40	5800	28	0.6
L1771.40-5850	40	5850	28	0.6
L1771.40-5900	40	5900	28	0.6
L1771.40-5950	40	5950	28	0.6
L1771.40-6000	40	6000	28	0.6





L1771.50

Material
Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Technical Notes
Used in linear bearing and guideway systems where weight reduction is important.
Tolerance, h6 standard, special tolerances upon request.
Suitable for use with linear bearings.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

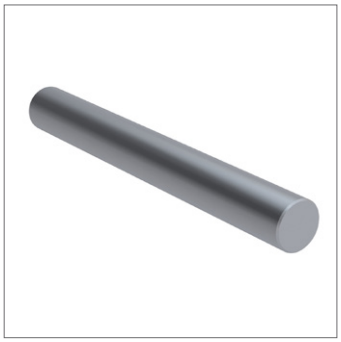
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.50-0100	50	100	28	0.6
L1771.50-0150	50	150	28	0.6
L1771.50-0200	50	200	28	0.6
L1771.50-0250	50	250	28	0.6
L1771.50-0300	50	300	28	0.6
L1771.50-0350	50	350	28	0.6
L1771.50-0400	50	400	28	0.6
L1771.50-0450	50	450	28	0.6
L1771.50-0500	50	500	28	0.6
L1771.50-0550	50	550	28	0.6
L1771.50-0600	50	600	28	0.6
L1771.50-0650	50	650	28	0.6
L1771.50-0700	50	700	28	0.6
L1771.50-0750	50	750	28	0.6
L1771.50-0800	50	800	28	0.6
L1771.50-0850	50	850	28	0.6
L1771.50-0900	50	900	28	0.6
L1771.50-0950	50	950	28	0.6
L1771.50-1000	50	1000	28	0.6
L1771.50-1050	50	1050	28	0.6
L1771.50-1100	50	1100	28	0.6
L1771.50-1150	50	1150	28	0.6
L1771.50-1200	50	1200	28	0.6
L1771.50-1250	50	1250	28	0.6
L1771.50-1300	50	1300	28	0.6
L1771.50-1350	50	1350	28	0.6
L1771.50-1400	50	1400	28	0.6
L1771.50-1450	50	1450	28	0.6
L1771.50-1500	50	1500	28	0.6
L1771.50-1550	50	1550	28	0.6
L1771.50-1600	50	1600	28	0.6

50Ø Hardened Hollow Shafts
for linear bearings

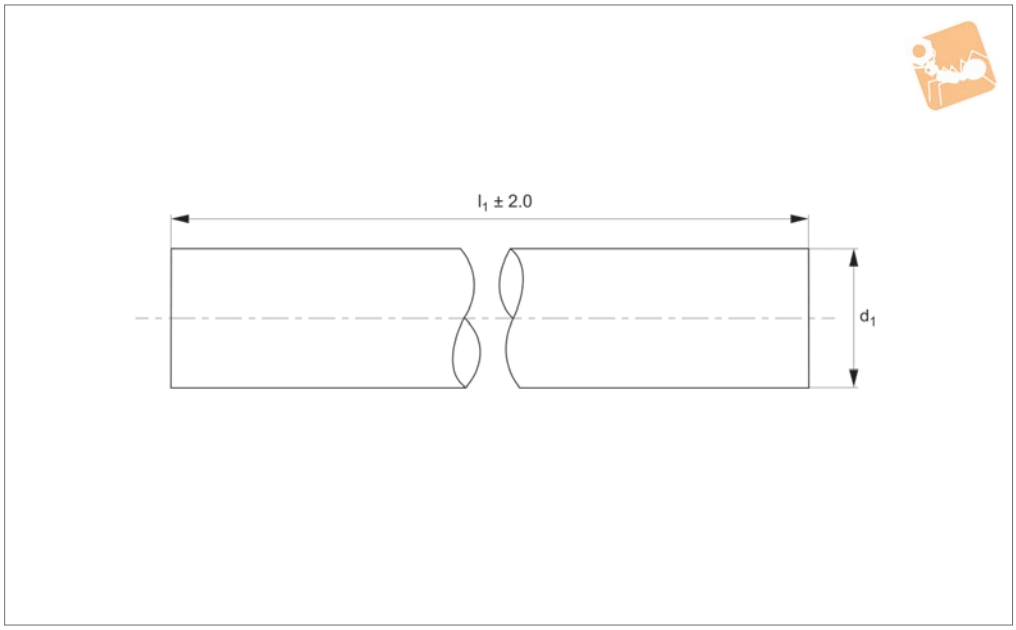
Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.50-1650	50	1650	28	0.6
L1771.50-1700	50	1700	28	0.6
L1771.50-1750	50	1750	28	0.6
L1771.50-1800	50	1800	28	0.6
L1771.50-1850	50	1850	28	0.6
L1771.50-1900	50	1900	28	0.6
L1771.50-1950	50	1950	28	0.6
L1771.50-2000	50	2000	28	0.6
L1771.50-2050	50	2050	28	0.6
L1771.50-2100	50	2100	28	0.6
L1771.50-2150	50	2150	28	0.6
L1771.50-2200	50	2200	28	0.6
L1771.50-2250	50	2250	28	0.6
L1771.50-2300	50	2300	28	0.6
L1771.50-2350	50	2350	28	0.6
L1771.50-2400	50	2400	28	0.6
L1771.50-2450	50	2450	28	0.6
L1771.50-2500	50	2500	28	0.6
L1771.50-2550	50	2550	28	0.6
L1771.50-2600	50	2600	28	0.6
L1771.50-2650	50	2650	28	0.6
L1771.50-2700	50	2700	28	0.6
L1771.50-2750	50	2750	28	0.6
L1771.50-2800	50	2800	28	0.6
L1771.50-2850	50	2850	28	0.6
L1771.50-2900	50	2900	28	0.6
L1771.50-2950	50	2950	28	0.6
L1771.50-3000	50	3000	28	0.6
L1771.50-3050	50	3050	28	0.6
L1771.50-3100	50	3100	28	0.6
L1771.50-3150	50	3150	28	0.6
L1771.50-3200	50	3200	28	0.6
L1771.50-3250	50	3250	28	0.6
L1771.50-3300	50	3300	28	0.6
L1771.50-3350	50	3350	28	0.6
L1771.50-3400	50	3400	28	0.6
L1771.50-3450	50	3450	28	0.6
L1771.50-3500	50	3500	28	0.6
L1771.50-3550	50	3550	28	0.6
L1771.50-3600	50	3600	28	0.6
L1771.50-3650	50	3650	28	0.6
L1771.50-3700	50	3700	28	0.6
L1771.50-3750	50	3750	28	0.6
L1771.50-3800	50	3800	28	0.6
L1771.50-3850	50	3850	28	0.6
L1771.50-3900	50	3900	28	0.6
L1771.50-3950	50	3950	28	0.6
L1771.50-4000	50	4000	28	0.6
L1771.50-4050	50	4050	28	0.6
L1771.50-4100	50	4100	28	0.6
L1771.50-4150	50	4150	28	0.6
L1771.50-4200	50	4200	28	0.6
L1771.50-4250	50	4250	28	0.6
L1771.50-4300	50	4300	28	0.6
L1771.50-4350	50	4350	28	0.6
L1771.50-4400	50	4400	28	0.6
L1771.50-4450	50	4450	28	0.6
L1771.50-4500	50	4500	28	0.6
L1771.50-4550	50	4550	28	0.6
L1771.50-4600	50	4600	28	0.6
L1771.50-4650	50	4650	28	0.6
L1771.50-4700	50	4700	28	0.6
L1771.50-4750	50	4750	28	0.6
L1771.50-4800	50	4800	28	0.6
L1771.50-4850	50	4850	28	0.6
L1771.50-4900	50	4900	28	0.6
L1771.50-4950	50	4950	28	0.6
L1771.50-5000	50	5000	28	0.6

Order No.	d_1 tol. h6	l_1	d_2 tol. h6	Depth of hardness min.
L1771.50-5050	50	5050	28	0.6
L1771.50-5100	50	5100	28	0.6
L1771.50-5150	50	5150	28	0.6
L1771.50-5200	50	5200	28	0.6
L1771.50-5250	50	5250	28	0.6
L1771.50-5300	50	5300	28	0.6
L1771.50-5350	50	5350	28	0.6
L1771.50-5400	50	5400	28	0.6
L1771.50-5450	50	5450	28	0.6
L1771.50-5500	50	5500	28	0.6
L1771.50-5550	50	5550	28	0.6
L1771.50-5600	50	5600	28	0.6
L1771.50-5650	50	5650	28	0.6
L1771.50-5700	50	5700	28	0.6
L1771.50-5750	50	5750	28	0.6
L1771.50-5800	50	5800	28	0.6
L1771.50-5850	50	5850	28	0.6
L1771.50-5900	50	5900	28	0.6
L1771.50-5950	50	5950	28	0.6
L1771.50-6000	50	6000	28	0.6

6Ø Stainless AISI 303 Shafts
soft



L1773.06



Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >510 N/mm², tensile strength: >720 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,3mm/m.

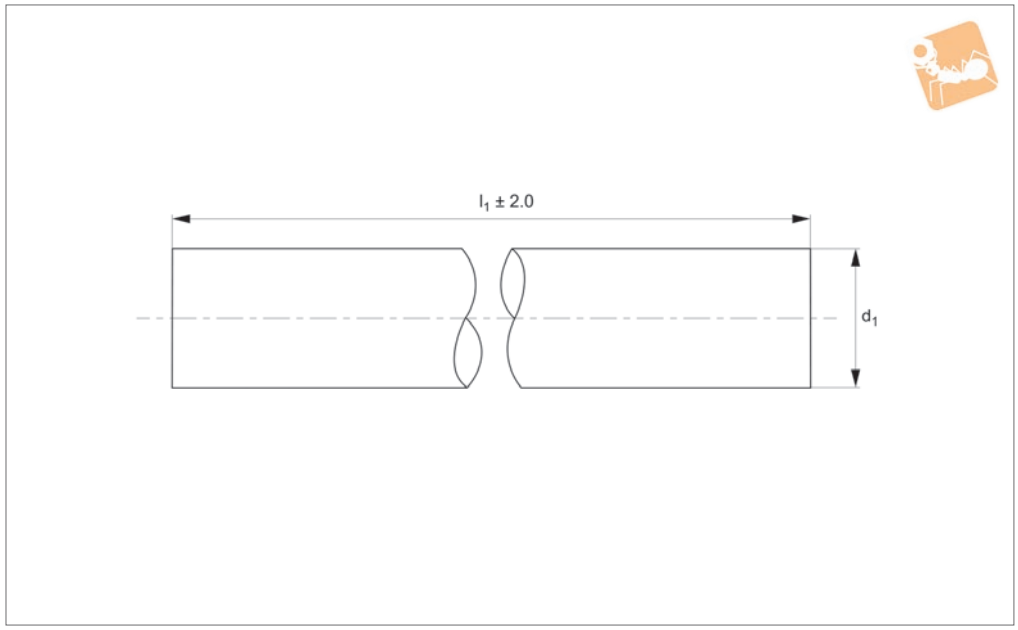
Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

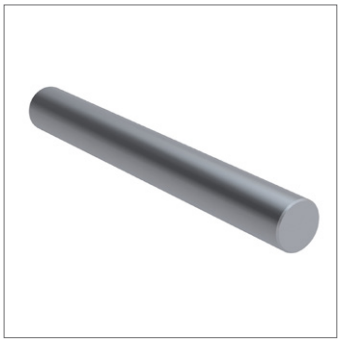
Order No.	d_1	l_1	Tolerance µ tol. h6
L1773.06-0100	6	100	+0,-8
L1773.06-0150	6	150	+0,-8
L1773.06-0200	6	200	+0,-8
L1773.06-0250	6	250	+0,-8
L1773.06-0300	6	300	+0,-8
L1773.06-0350	6	350	+0,-8
L1773.06-0400	6	400	+0,-8
L1773.06-0450	6	450	+0,-8
L1773.06-0500	6	500	+0,-8
L1773.06-0550	6	550	+0,-8
L1773.06-0600	6	600	+0,-8
L1773.06-0650	6	650	+0,-8
L1773.06-0700	6	700	+0,-8
L1773.06-0750	6	750	+0,-8
L1773.06-0800	6	800	+0,-8
L1773.06-0850	6	850	+0,-8
L1773.06-0900	6	900	+0,-8
L1773.06-0950	6	950	+0,-8
L1773.06-1000	6	1000	+0,-8
L1773.06-1050	6	1050	+0,-8
L1773.06-1100	6	1100	+0,-8
L1773.06-1150	6	1150	+0,-8
L1773.06-1200	6	1200	+0,-8
L1773.06-1250	6	1250	+0,-8
L1773.06-1300	6	1300	+0,-8
L1773.06-1350	6	1350	+0,-8
L1773.06-1400	6	1400	+0,-8
L1773.06-1450	6	1450	+0,-8
L1773.06-1500	6	1500	+0,-8

Order No.	d_1	l_1	Tolerance μ tol. h6
L1773.06-1550	6	1550	+0,-8
L1773.06-1600	6	1600	+0,-8
L1773.06-1650	6	1650	+0,-8
L1773.06-1700	6	1700	+0,-8
L1773.06-1750	6	1750	+0,-8
L1773.06-1800	6	1800	+0,-8
L1773.06-1850	6	1850	+0,-8
L1773.06-1900	6	1900	+0,-8
L1773.06-1950	6	1950	+0,-8
L1773.06-2000	6	2000	+0,-8
L1773.06-2050	6	2050	+0,-8
L1773.06-2100	6	2100	+0,-8
L1773.06-2150	6	2150	+0,-8
L1773.06-2200	6	2200	+0,-8
L1773.06-2250	6	2250	+0,-8
L1773.06-2300	6	2300	+0,-8
L1773.06-2350	6	2350	+0,-8
L1773.06-2400	6	2400	+0,-8
L1773.06-2450	6	2450	+0,-8
L1773.06-2500	6	2500	+0,-8
L1773.06-2550	6	2550	+0,-8
L1773.06-2600	6	2600	+0,-8
L1773.06-2650	6	2650	+0,-8
L1773.06-2700	6	2700	+0,-8
L1773.06-2750	6	2750	+0,-8
L1773.06-2800	6	2800	+0,-8
L1773.06-2850	6	2850	+0,-8
L1773.06-2900	6	2900	+0,-8
L1773.06-2950	6	2950	+0,-8
L1773.06-3000	6	3000	+0,-8
L1773.06-3050	6	3050	+0,-8
L1773.06-3100	6	3100	+0,-8
L1773.06-3150	6	3150	+0,-8
L1773.06-3200	6	3200	+0,-8
L1773.06-3250	6	3250	+0,-8
L1773.06-3300	6	3300	+0,-8
L1773.06-3350	6	3350	+0,-8
L1773.06-3400	6	3400	+0,-8
L1773.06-3450	6	3450	+0,-8
L1773.06-3500	6	3500	+0,-8
L1773.06-3550	6	3550	+0,-8
L1773.06-3600	6	3600	+0,-8
L1773.06-3650	6	3650	+0,-8
L1773.06-3700	6	3700	+0,-8
L1773.06-3750	6	3750	+0,-8
L1773.06-3800	6	3800	+0,-8
L1773.06-3850	6	3850	+0,-8
L1773.06-3900	6	3900	+0,-8
L1773.06-3950	6	3950	+0,-8
L1773.06-4000	6	4000	+0,-8
L1773.06-4050	6	4050	+0,-8
L1773.06-4100	6	4100	+0,-8
L1773.06-4150	6	4150	+0,-8
L1773.06-4200	6	4200	+0,-8
L1773.06-4250	6	4250	+0,-8
L1773.06-4300	6	4300	+0,-8
L1773.06-4350	6	4350	+0,-8
L1773.06-4400	6	4400	+0,-8
L1773.06-4450	6	4450	+0,-8
L1773.06-4500	6	4500	+0,-8
L1773.06-4550	6	4550	+0,-8
L1773.06-4600	6	4600	+0,-8
L1773.06-4650	6	4650	+0,-8
L1773.06-4700	6	4700	+0,-8
L1773.06-4750	6	4750	+0,-8
L1773.06-4800	6	4800	+0,-8
L1773.06-4850	6	4850	+0,-8
L1773.06-4900	6	4900	+0,-8

6Ø Stainless AISI 303 Shafts
soft

Order No.	d_1	l_1	Tolerance µ tol. h6
L1773.06-4950	6	4950	+0,-8
L1773.06-5000	6	5000	+0,-8
L1773.06-5050	6	5050	+0,-8
L1773.06-5100	6	5100	+0,-8
L1773.06-5150	6	5150	+0,-8
L1773.06-5200	6	5200	+0,-8
L1773.06-5250	6	5250	+0,-8
L1773.06-5300	6	5300	+0,-8
L1773.06-5350	6	5350	+0,-8
L1773.06-5400	6	5400	+0,-8
L1773.06-5450	6	5450	+0,-8
L1773.06-5500	6	5500	+0,-8
L1773.06-5550	6	5550	+0,-8
L1773.06-5600	6	5600	+0,-8
L1773.06-5650	6	5650	+0,-8
L1773.06-5700	6	5700	+0,-8
L1773.06-5750	6	5750	+0,-8
L1773.06-5800	6	5800	+0,-8
L1773.06-5850	6	5850	+0,-8
L1773.06-5900	6	5900	+0,-8
L1773.06-5950	6	5950	+0,-8
L1773.06-6000	6	6000	+0,-8





L1773.08

Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >510 N/mm^2, tensile strength: >720 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,3mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

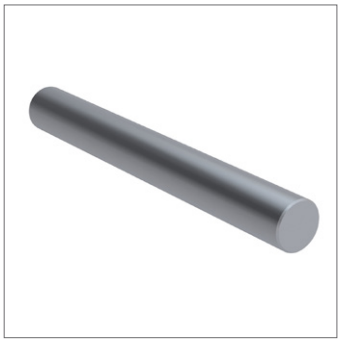
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.08-0100	8	100	+0,-9
L1773.08-0150	8	150	+0,-9
L1773.08-0200	8	200	+0,-9
L1773.08-0250	8	250	+0,-9
L1773.08-0300	8	300	+0,-9
L1773.08-0350	8	350	+0,-9
L1773.08-0400	8	400	+0,-9
L1773.08-0450	8	450	+0,-9
L1773.08-0500	8	500	+0,-9
L1773.08-0550	8	550	+0,-9
L1773.08-0600	8	600	+0,-9
L1773.08-0650	8	650	+0,-9
L1773.08-0700	8	700	+0,-9
L1773.08-0750	8	750	+0,-9
L1773.08-0800	8	800	+0,-9
L1773.08-0850	8	850	+0,-9
L1773.08-0900	8	900	+0,-9
L1773.08-0950	8	950	+0,-9
L1773.08-1000	8	1000	+0,-9
L1773.08-1050	8	1050	+0,-9
L1773.08-1100	8	1100	+0,-9
L1773.08-1150	8	1150	+0,-9
L1773.08-1200	8	1200	+0,-9
L1773.08-1250	8	1250	+0,-9
L1773.08-1300	8	1300	+0,-9
L1773.08-1350	8	1350	+0,-9
L1773.08-1400	8	1400	+0,-9
L1773.08-1450	8	1450	+0,-9
L1773.08-1500	8	1500	+0,-9

8Ø Stainless AISI 303 Shafts
soft

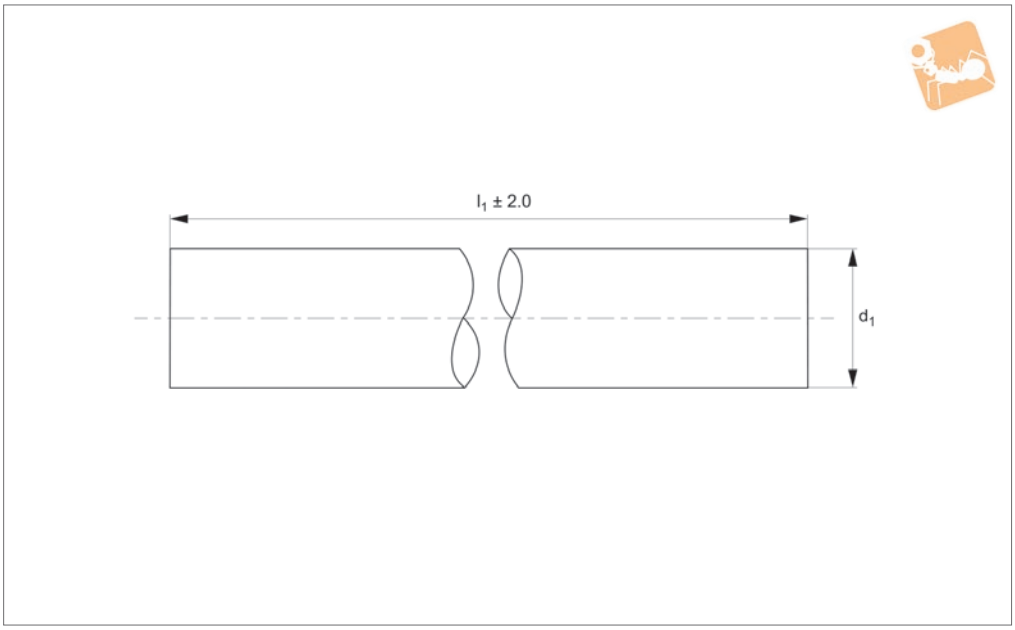
Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.08-1550	8	1550	+0,-9
L1773.08-1600	8	1600	+0,-9
L1773.08-1650	8	1650	+0,-9
L1773.08-1700	8	1700	+0,-9
L1773.08-1750	8	1750	+0,-9
L1773.08-1800	8	1800	+0,-9
L1773.08-1850	8	1850	+0,-9
L1773.08-1900	8	1900	+0,-9
L1773.08-1950	8	1950	+0,-9
L1773.08-2000	8	2000	+0,-9
L1773.08-2050	8	2050	+0,-9
L1773.08-2100	8	2100	+0,-9
L1773.08-2150	8	2150	+0,-9
L1773.08-2200	8	2200	+0,-9
L1773.08-2250	8	2250	+0,-9
L1773.08-2300	8	2300	+0,-9
L1773.08-2350	8	2350	+0,-9
L1773.08-2400	8	2400	+0,-9
L1773.08-2450	8	2450	+0,-9
L1773.08-2500	8	2500	+0,-9
L1773.08-2550	8	2550	+0,-9
L1773.08-2600	8	2600	+0,-9
L1773.08-2650	8	2650	+0,-9
L1773.08-2700	8	2700	+0,-9
L1773.08-2750	8	2750	+0,-9
L1773.08-2800	8	2800	+0,-9
L1773.08-2850	8	2850	+0,-9
L1773.08-2900	8	2900	+0,-9
L1773.08-2950	8	2950	+0,-9
L1773.08-3000	8	3000	+0,-9
L1773.08-3050	8	3050	+0,-9
L1773.08-3100	8	3100	+0,-9
L1773.08-3150	8	3150	+0,-9
L1773.08-3200	8	3200	+0,-9
L1773.08-3250	8	3250	+0,-9
L1773.08-3300	8	3300	+0,-9
L1773.08-3350	8	3350	+0,-9
L1773.08-3400	8	3400	+0,-9
L1773.08-3450	8	3450	+0,-9
L1773.08-3500	8	3500	+0,-9
L1773.08-3550	8	3550	+0,-9
L1773.08-3600	8	3600	+0,-9
L1773.08-3650	8	3650	+0,-9
L1773.08-3700	8	3700	+0,-9
L1773.08-3750	8	3750	+0,-9
L1773.08-3800	8	3800	+0,-9
L1773.08-3850	8	3850	+0,-9
L1773.08-3900	8	3900	+0,-9
L1773.08-3950	8	3950	+0,-9
L1773.08-4000	8	4000	+0,-9
L1773.08-4050	8	4050	+0,-9
L1773.08-4100	8	4100	+0,-9
L1773.08-4150	8	4150	+0,-9
L1773.08-4200	8	4200	+0,-9
L1773.08-4250	8	4250	+0,-9
L1773.08-4300	8	4300	+0,-9
L1773.08-4350	8	4350	+0,-9
L1773.08-4400	8	4400	+0,-9
L1773.08-4450	8	4450	+0,-9
L1773.08-4500	8	4500	+0,-9
L1773.08-4550	8	4550	+0,-9
L1773.08-4600	8	4600	+0,-9
L1773.08-4650	8	4650	+0,-9
L1773.08-4700	8	4700	+0,-9
L1773.08-4750	8	4750	+0,-9
L1773.08-4800	8	4800	+0,-9
L1773.08-4850	8	4850	+0,-9
L1773.08-4900	8	4900	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.08-4950	8	4950	+0,-9
L1773.08-5000	8	5000	+0,-9
L1773.08-5050	8	-	+0,-9
L1773.08-5100	8	5100	+0,-9
L1773.08-5150	8	5150	+0,-9
L1773.08-5200	8	5200	+0,-9
L1773.08-5250	8	5250	+0,-9
L1773.08-5300	8	5300	+0,-9
L1773.08-5350	8	5350	+0,-9
L1773.08-5400	8	5400	+0,-9
L1773.08-5450	8	5450	+0,-9
L1773.08-5500	8	5500	+0,-9
L1773.08-5550	8	5550	+0,-9
L1773.08-5600	8	5600	+0,-9
L1773.08-5650	8	5650	+0,-9
L1773.08-5700	8	5700	+0,-9
L1773.08-5750	8	5750	+0,-9
L1773.08-5800	8	5800	+0,-9
L1773.08-5850	8	5850	+0,-9
L1773.08-5900	8	5900	+0,-9
L1773.08-5950	8	5950	+0,-9
L1773.08-6000	8	6000	+0,-9

10Ø Stainless AISI 303 Shafts
soft



L1773.10



Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >510 N/mm², tensile strength: >720 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

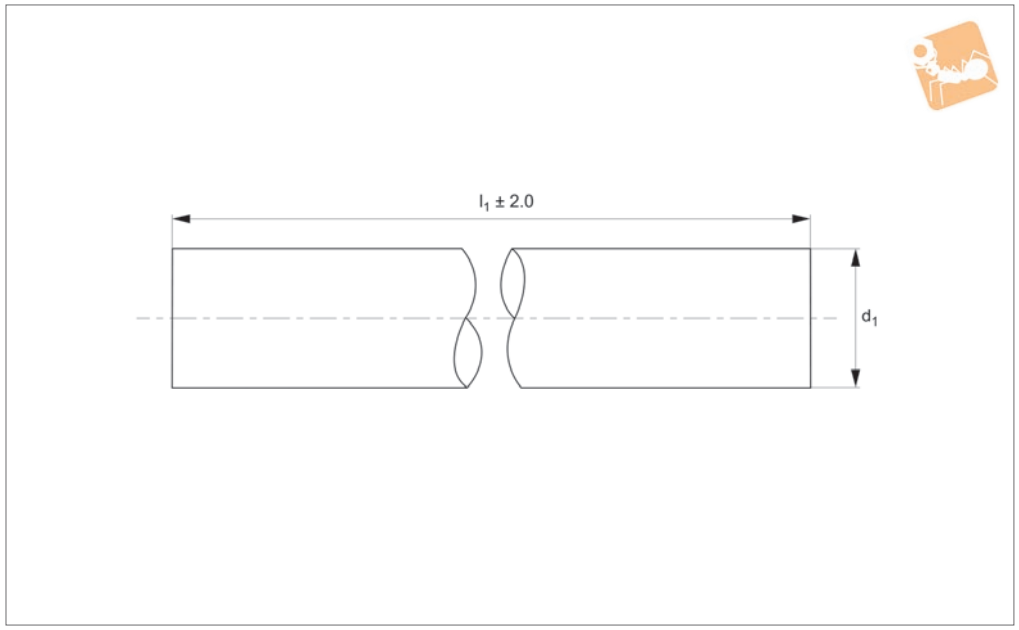
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.10-0100	10	100	+0,-10
L1773.10-0150	10	150	+0,-10
L1773.10-0200	10	200	+0,-10
L1773.10-0250	10	250	+0,-10
L1773.10-0300	10	300	+0,-10
L1773.10-0350	10	350	+0,-10
L1773.10-0400	10	400	+0,-10
L1773.10-0450	10	450	+0,-10
L1773.10-0500	10	500	+0,-10
L1773.10-0550	10	550	+0,-10
L1773.10-0600	10	600	+0,-10
L1773.10-0650	10	650	+0,-10
L1773.10-0700	10	700	+0,-10
L1773.10-0750	10	750	+0,-10
L1773.10-0800	10	800	+0,-10
L1773.10-0850	10	852	+0,-10
L1773.10-0900	10	900	+0,-10
L1773.10-0950	10	950	+0,-10
L1773.10-1000	10	1000	+0,-10
L1773.10-1050	10	1050	+0,-10
L1773.10-1100	10	1100	+0,-10
L1773.10-1150	10	1150	+0,-10
L1773.10-1200	10	1200	+0,-10
L1773.10-1250	10	1250	+0,-10
L1773.10-1300	10	1300	+0,-10
L1773.10-1350	10	1350	+0,-10
L1773.10-1400	10	1400	+0,-10
L1773.10-1450	10	1450	+0,-10
L1773.10-1500	10	1500	+0,-10

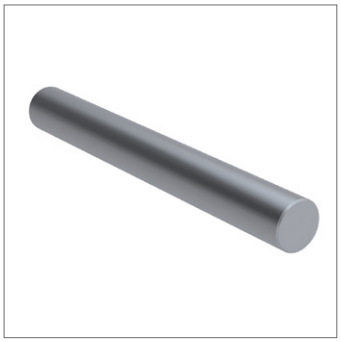
Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.10-1550	10	1550	+0,-10
L1773.10-1600	10	1600	+0,-10
L1773.10-1650	10	1650	+0,-10
L1773.10-1700	10	1700	+0,-10
L1773.10-1750	10	1750	+0,-10
L1773.10-1800	10	1800	+0,-10
L1773.10-1850	10	1850	+0,-10
L1773.10-1900	10	1900	+0,-10
L1773.10-1950	10	1950	+0,-10
L1773.10-2000	10	2000	+0,-10
L1773.10-2050	10	2050	+0,-10
L1773.10-2100	10	2100	+0,-10
L1773.10-2150	10	2150	+0,-10
L1773.10-2200	10	2200	+0,-10
L1773.10-2250	10	2250	+0,-10
L1773.10-2300	10	2300	+0,-10
L1773.10-2350	10	2350	+0,-10
L1773.10-2400	10	2400	+0,-10
L1773.10-2450	10	2450	+0,-10
L1773.10-2500	10	2500	+0,-10
L1773.10-2550	10	2550	+0,-10
L1773.10-2600	10	2600	+0,-10
L1773.10-2650	10	2650	+0,-10
L1773.10-2700	10	2700	+0,-10
L1773.10-2750	10	2750	+0,-10
L1773.10-2800	10	2800	+0,-10
L1773.10-2850	10	2850	+0,-10
L1773.10-2900	10	2900	+0,-10
L1773.10-2950	10	2950	+0,-10
L1773.10-3000	10	3000	+0,-10
L1773.10-3050	10	3050	+0,-10
L1773.10-3100	10	3100	+0,-10
L1773.10-3150	10	3150	+0,-10
L1773.10-3200	10	3200	+0,-10
L1773.10-3250	10	3250	+0,-10
L1773.10-3300	10	3300	+0,-10
L1773.10-3350	10	3350	+0,-10
L1773.10-3400	10	3400	+0,-10
L1773.10-3450	10	3450	+0,-10
L1773.10-3500	10	3500	+0,-10
L1773.10-3550	10	3550	+0,-10
L1773.10-3600	10	3600	+0,-10
L1773.10-3650	10	3650	+0,-10
L1773.10-3700	10	3700	+0,-10
L1773.10-3750	10	3750	+0,-10
L1773.10-3800	10	3800	+0,-10
L1773.10-3850	10	3850	+0,-10
L1773.10-3900	10	3900	+0,-10
L1773.10-3950	10	3950	+0,-10
L1773.10-4000	10	4000	+0,-10
L1773.10-4050	10	4050	+0,-10
L1773.10-4100	10	4100	+0,-10
L1773.10-4150	10	4150	+0,-10
L1773.10-4200	10	4200	+0,-10
L1773.10-4250	10	4250	+0,-10
L1773.10-4300	10	4300	+0,-10
L1773.10-4350	10	4350	+0,-10
L1773.10-4400	10	4400	+0,-10
L1773.10-4450	10	4450	+0,-10
L1773.10-4500	10	4500	+0,-10
L1773.10-4550	10	4550	+0,-10
L1773.10-4600	10	4600	+0,-10
L1773.10-4650	10	4650	+0,-10
L1773.10-4700	10	4700	+0,-10
L1773.10-4750	10	4750	+0,-10
L1773.10-4800	10	4800	+0,-10
L1773.10-4850	10	4850	+0,-10
L1773.10-4900	10	4900	+0,-10

10Ø Stainless AISI 303 Shafts

soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.10-4950	10	4950	+0,-10
L1773.10-5000	10	5000	+0,-10
L1773.10-5050	10	5050	+0,-10
L1773.10-5100	10	5100	+0,-10
L1773.10-5150	10	5150	+0,-10
L1773.10-5200	10	5200	+0,-10
L1773.10-5250	10	5250	+0,-10
L1773.10-5300	10	5300	+0,-10
L1773.10-5350	10	5350	+0,-10
L1773.10-5400	10	5400	+0,-10
L1773.10-5450	10	5450	+0,-10
L1773.10-5500	10	5500	+0,-10
L1773.10-5550	10	5550	+0,-10
L1773.10-5600	10	5600	+0,-10
L1773.10-5650	10	5650	+0,-10
L1773.10-5700	10	5700	+0,-10
L1773.10-5750	10	5750	+0,-10
L1773.10-5800	10	5800	+0,-10
L1773.10-5850	10	5850	+0,-10
L1773.10-5900	10	5900	+0,-10
L1773.10-5950	10	5950	+0,-10
L1773.10-6000	10	6000	+0,-10





L1773.12

Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >510 N/mm^2, tensile strength: >720 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

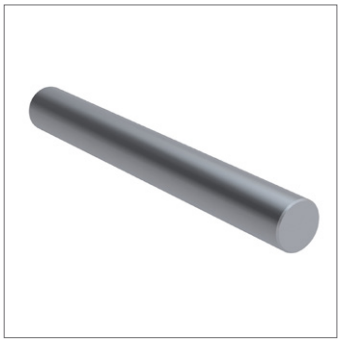
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.12-0100	12	100	0.6
L1773.12-0150	12	150	0.6
L1773.12-0200	12	200	0.6
L1773.12-0250	12	250	0.6
L1773.12-0300	12	300	0.6
L1773.12-0350	12	350	0.6
L1773.12-0400	12	400	0.6
L1773.12-0450	12	450	0.6
L1773.12-0500	12	500	0.6
L1773.12-0550	12	550	0.6
L1773.12-0600	12	600	0.6
L1773.12-0650	12	650	0.6
L1773.12-0700	12	700	0.6
L1773.12-0750	12	750	0.6
L1773.12-0800	12	800	0.6
L1773.12-0850	12	850	0.6
L1773.12-0900	12	900	0.6
L1773.12-0950	12	950	0.6
L1773.12-1000	12	1000	0.6
L1773.12-1050	12	1050	0.6
L1773.12-1100	12	1100	0.6
L1773.12-1150	12	1150	0.6
L1773.12-1200	12	1200	0.6
L1773.12-1250	12	1250	0.6
L1773.12-1300	12	1300	0.6
L1773.12-1350	12	1350	0.6
L1773.12-1400	12	1400	0.6
L1773.12-1450	12	1450	0.6
L1773.12-1500	12	1500	0.6

Ø12 Stainless AISI 303 Shafts
soft

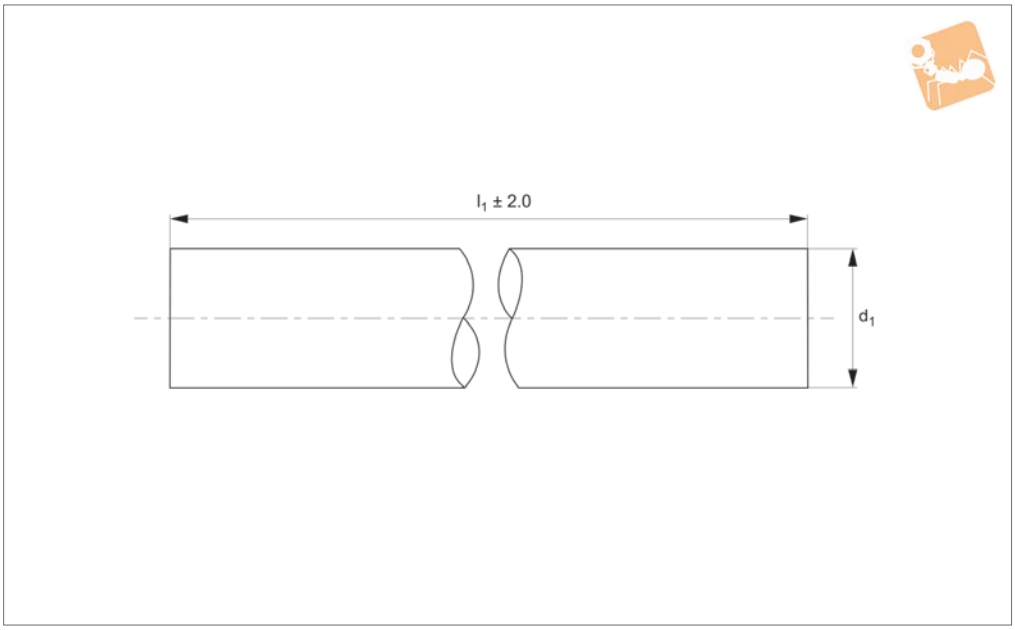
Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.12-1550	12	1550	0.6
L1773.12-1600	12	1600	0.6
L1773.12-1650	12	1650	0.6
L1773.12-1700	12	1700	0.6
L1773.12-1750	12	1750	0.6
L1773.12-1800	12	1800	0.6
L1773.12-1850	12	1850	0.6
L1773.12-1900	12	1900	0.6
L1773.12-1950	12	1950	0.6
L1773.12-2000	12	2000	0.6
L1773.12-2050	12	2050	0.6
L1773.12-2100	12	2100	0.6
L1773.12-2150	12	2150	0.6
L1773.12-2200	12	2200	0.6
L1773.12-2250	12	2250	0.6
L1773.12-2300	12	2300	0.6
L1773.12-2350	12	2350	0.6
L1773.12-2400	12	2400	0.6
L1773.12-2450	12	2450	0.6
L1773.12-2500	12	2500	0.6
L1773.12-2550	12	2550	0.6
L1773.12-2600	12	2600	0.6
L1773.12-2650	12	2650	0.6
L1773.12-2700	12	2700	0.6
L1773.12-2750	12	2750	0.6
L1773.12-2800	12	2800	0.6
L1773.12-2850	12	2850	0.6
L1773.12-2900	12	2900	0.6
L1773.12-2950	12	2950	0.6
L1773.12-3000	12	3000	0.6
L1773.12-3050	12	3050	0.6
L1773.12-3100	12	3100	0.6
L1773.12-3150	12	3150	0.6
L1773.12-3200	12	3200	0.6
L1773.12-3250	12	3250	0.6
L1773.12-3300	12	3300	0.6
L1773.12-3350	12	3350	0.6
L1773.12-3400	12	3400	0.6
L1773.12-3450	12	3450	0.6
L1773.12-3500	12	3500	0.6
L1773.12-3550	12	3550	0.6
L1773.12-3600	12	3600	0.6
L1773.12-3650	12	3650	0.6
L1773.12-3700	12	3700	0.6
L1773.12-3750	12	3750	0.6
L1773.12-3800	12	3800	0.6
L1773.12-3850	12	3850	0.6
L1773.12-3900	12	3900	0.6
L1773.12-3950	12	3950	0.6
L1773.12-4000	12	4000	0.6
L1773.12-4050	12	4050	0.6
L1773.12-4100	12	4100	0.6
L1773.12-4150	12	4150	0.6
L1773.12-4200	12	4200	0.6
L1773.12-4250	12	4250	0.6
L1773.12-4300	12	4300	0.6
L1773.12-4350	12	4350	0.6
L1773.12-4400	12	4400	0.6
L1773.12-4450	12	4450	0.6
L1773.12-4500	12	4500	0.6
L1773.12-4550	12	4550	0.6
L1773.12-4600	12	4600	0.6
L1773.12-4650	12	4650	0.6
L1773.12-4700	12	4700	0.6
L1773.12-4750	12	4750	0.6
L1773.12-4800	12	4800	0.6
L1773.12-4850	12	4850	0.6
L1773.12-4900	12	4900	0.6

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.12-4950	12	4950	0.6
L1773.12-5000	12	5000	0.6
L1773.12-5050	12	5050	0.6
L1773.12-5100	12	5100	0.6
L1773.12-5150	12	5150	0.6
L1773.12-5200	12	5200	0.6
L1773.12-5250	12	5250	0.6
L1773.12-5300	12	5300	0.6
L1773.12-5350	12	5350	0.6
L1773.12-5400	12	5400	0.6
L1773.12-5450	12	5450	0.6
L1773.12-5500	12	5500	0.6
L1773.12-5550	12	5550	0.6
L1773.12-5600	12	5600	0.6
L1773.12-5650	12	5650	0.6
L1773.12-5700	12	5700	0.6
L1773.12-5750	12	5750	0.6
L1773.12-5800	12	5800	0.6
L1773.12-5850	12	5850	0.6
L1773.12-5900	12	5900	0.6
L1773.12-5950	12	5950	0.6
L1773.12-6000	12	6000	0.6

Ø16 Stainless AISI 303 Shafts
soft



L1773.16



Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >510 N/mm², tensile strength: >720 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

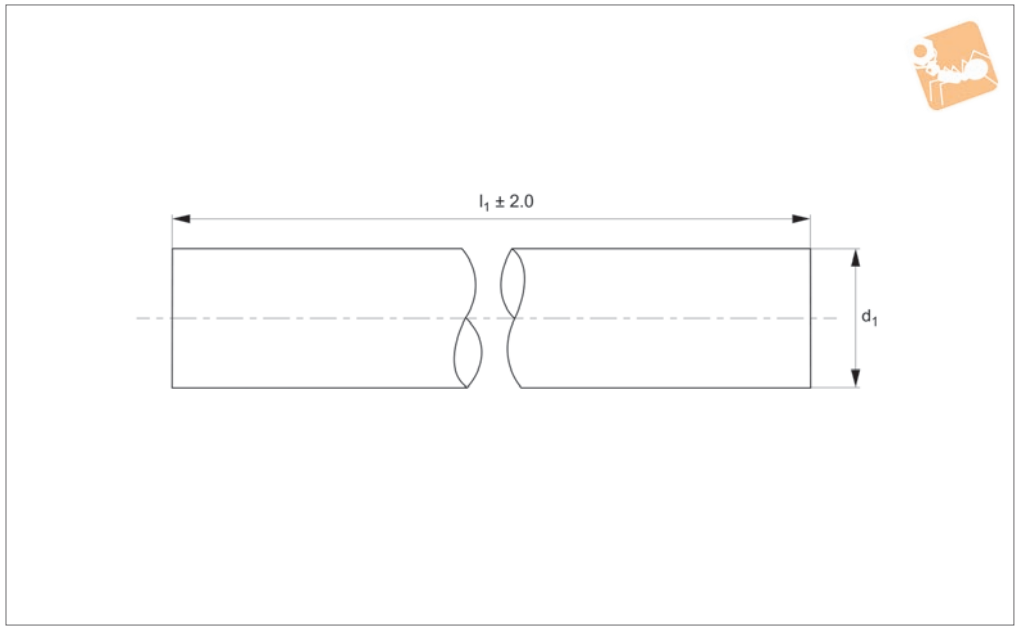
Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

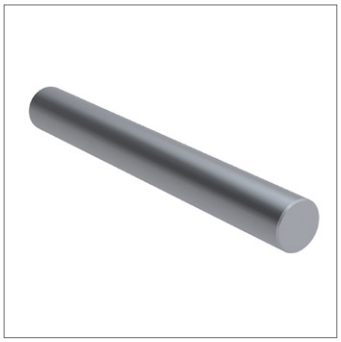
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.16-0100	16	100	0.6
L1773.16-0150	16	150	0.6
L1773.16-0200	16	200	0.6
L1773.16-0250	16	250	0.6
L1773.16-0300	16	300	0.6
L1773.16-0350	16	350	0.6
L1773.16-0400	16	400	0.6
L1773.16-0450	16	450	0.6
L1773.16-0500	16	500	0.6
L1773.16-0550	16	550	0.6
L1773.16-0600	16	600	0.6
L1773.16-0650	16	650	0.6
L1773.16-0700	16	700	0.6
L1773.16-0750	16	750	0.6
L1773.16-0800	16	800	0.6
L1773.16-0850	16	850	0.6
L1773.16-0900	16	900	0.6
L1773.16-0950	16	950	0.6
L1773.16-1000	16	1000	0.6
L1773.16-1050	16	1050	0.6
L1773.16-1100	16	1100	0.6
L1773.16-1150	16	1150	0.6
L1773.16-1200	16	1200	0.6
L1773.16-1250	16	1250	0.6
L1773.16-1300	16	1300	0.6
L1773.16-1350	16	1350	0.6
L1773.16-1400	16	1400	0.6
L1773.16-1450	16	1450	0.6
L1773.16-1500	16	1500	0.6

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.16-1550	16	1550	0.6
L1773.16-1600	16	1600	0.6
L1773.16-1650	16	1650	0.6
L1773.16-1700	16	1700	0.6
L1773.16-1750	16	1750	0.6
L1773.16-1800	16	1800	0.6
L1773.16-1850	16	1850	0.6
L1773.16-1900	16	1900	0.6
L1773.16-1950	16	1950	0.6
L1773.16-2000	16	2000	0.6
L1773.16-2050	16	2050	0.6
L1773.16-2100	16	2100	0.6
L1773.16-2150	16	2150	0.6
L1773.16-2200	16	2200	0.6
L1773.16-2250	16	2250	0.6
L1773.16-2300	16	2300	0.6
L1773.16-2350	16	2350	0.6
L1773.16-2400	16	2400	0.6
L1773.16-2450	16	2450	0.6
L1773.16-2500	16	2500	0.6
L1773.16-2550	16	2550	0.6
L1773.16-2600	16	2600	0.6
L1773.16-2650	16	2650	0.6
L1773.16-2700	16	2700	0.6
L1773.16-2750	16	2750	0.6
L1773.16-2800	16	2800	0.6
L1773.16-2850	16	2850	0.6
L1773.16-2900	16	2900	0.6
L1773.16-2950	16	2950	0.6
L1773.16-3000	16	3000	0.6
L1773.16-3050	16	3050	0.6
L1773.16-3100	16	3100	0.6
L1773.16-3150	16	3150	0.6
L1773.16-3200	16	3200	0.6
L1773.16-3250	16	3250	0.6
L1773.16-3300	16	3300	0.6
L1773.16-3350	16	3350	0.6
L1773.16-3400	16	3400	0.6
L1773.16-3450	16	3450	0.6
L1773.16-3500	16	3500	0.6
L1773.16-3550	16	3550	0.6
L1773.16-3600	16	3600	0.6
L1773.16-3650	16	3650	0.6
L1773.16-3700	16	3700	0.6
L1773.16-3750	16	3750	0.6
L1773.16-3800	16	3800	0.6
L1773.16-3850	16	3850	0.6
L1773.16-3900	16	3900	0.6
L1773.16-3950	16	3950	0.6
L1773.16-4000	16	4000	0.6
L1773.16-4050	16	4050	0.6
L1773.16-4100	16	4100	0.6
L1773.16-4150	16	4150	0.6
L1773.16-4200	16	4200	0.6
L1773.16-4250	16	4250	0.6
L1773.16-4300	16	4300	0.6
L1773.16-4350	16	4350	0.6
L1773.16-4400	16	4400	0.6
L1773.16-4450	16	4450	0.6
L1773.16-4500	16	4500	0.6
L1773.16-4550	16	4550	0.6
L1773.16-4600	16	4600	0.6
L1773.16-4650	16	4650	0.6
L1773.16-4700	16	4700	0.6
L1773.16-4750	16	4750	0.6
L1773.16-4800	16	4800	0.6
L1773.16-4850	16	4850	0.6
L1773.16-4900	16	4900	0.6

Ø16 Stainless AISI 303 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.16-4950	16	4950	0.6
L1773.16-5000	16	5000	0.6
L1773.16-5050	16	5050	0.6
L1773.16-5100	16	5100	0.6
L1773.16-5150	16	5150	0.6
L1773.16-5200	16	5200	0.6
L1773.16-5250	16	5250	0.6
L1773.16-5300	16	5300	0.6
L1773.16-5350	16	5350	0.6
L1773.16-5400	16	5400	0.6
L1773.16-5450	16	5450	0.6
L1773.16-5500	16	5500	0.6
L1773.16-5550	16	5550	0.6
L1773.16-5600	16	5600	0.6
L1773.16-5650	16	5650	0.6
L1773.16-5700	16	5700	0.6
L1773.16-5750	16	5750	0.6
L1773.16-5800	16	5800	0.6
L1773.16-5850	16	5850	0.6
L1773.16-5900	16	5900	0.6
L1773.16-5950	16	5950	0.6
L1773.16-6000	16	6000	0.6





L1773.20

Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >510 N/mm^2, tensile strength: >720 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

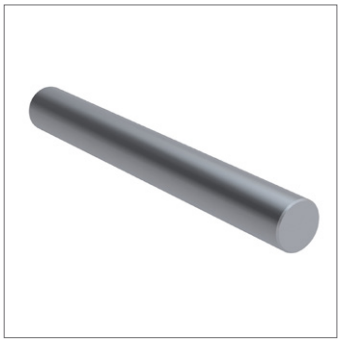
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.20-0100	20	100	+0,-13
L1773.20-0150	20	150	+0,-13
L1773.20-0200	20	200	+0,-13
L1773.20-0250	20	250	+0,-13
L1773.20-0300	20	300	+0,-13
L1773.20-0350	20	350	+0,-13
L1773.20-0400	20	400	+0,-13
L1773.20-0450	20	450	+0,-13
L1773.20-0500	20	500	+0,-13
L1773.20-0550	20	550	+0,-13
L1773.20-0600	20	600	+0,-13
L1773.20-0650	20	650	+0,-13
L1773.20-0700	20	700	+0,-13
L1773.20-0750	20	750	+0,-13
L1773.20-0800	20	800	+0,-13
L1773.20-0850	20	850	+0,-13
L1773.20-0900	20	900	+0,-13
L1773.20-0950	20	950	+0,-13
L1773.20-1000	20	1000	+0,-13
L1773.20-1050	20	1050	+0,-13
L1773.20-1100	20	1100	+0,-13
L1773.20-1150	20	1150	+0,-13
L1773.20-1200	20	1200	+0,-13
L1773.20-1250	20	1250	+0,-13
L1773.20-1300	20	1300	+0,-13
L1773.20-1350	20	1350	+0,-13
L1773.20-1400	20	1400	+0,-13
L1773.20-1450	20	1450	+0,-13
L1773.20-1500	20	1500	+0,-13

Ø20 Stainless AISI 303 Shafts
soft

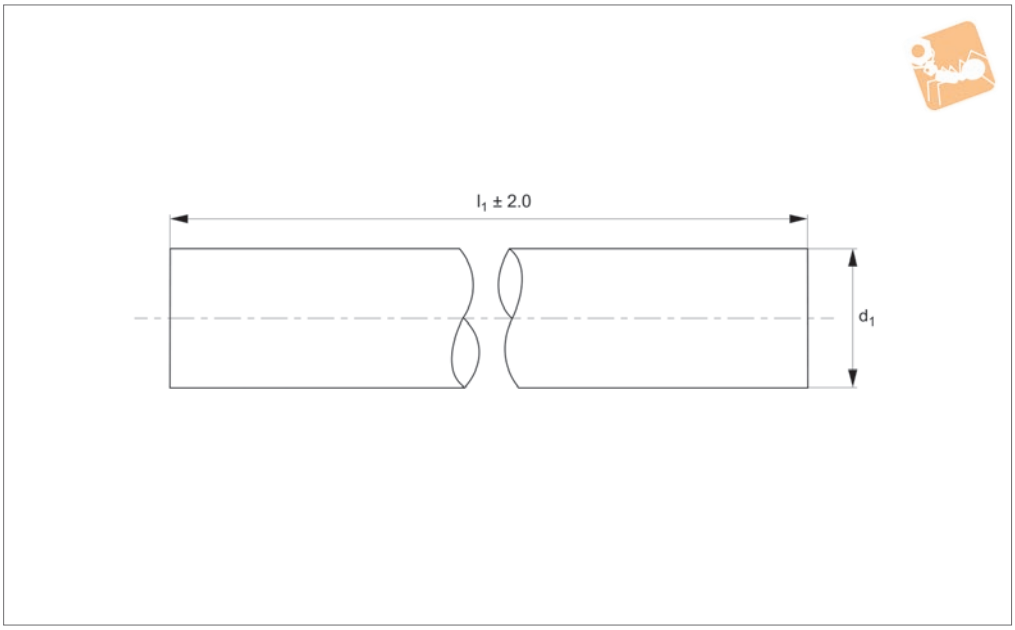
Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.20-1550	20	1550	+0,-13
L1773.20-1600	20	1600	+0,-13
L1773.20-1650	20	1650	+0,-13
L1773.20-1700	20	1700	+0,-13
L1773.20-1750	20	1750	+0,-13
L1773.20-1800	20	1800	+0,-13
L1773.20-1850	20	1850	+0,-13
L1773.20-1900	20	1900	+0,-13
L1773.20-1950	20	1950	+0,-13
L1773.20-2000	20	2000	+0,-13
L1773.20-2050	20	2050	+0,-13
L1773.20-2100	20	2100	+0,-13
L1773.20-2150	20	2150	+0,-13
L1773.20-2200	20	2200	+0,-13
L1773.20-2250	20	2250	+0,-13
L1773.20-2300	20	2300	+0,-13
L1773.20-2350	20	2350	+0,-13
L1773.20-2400	20	2400	+0,-13
L1773.20-2450	20	2450	+0,-13
L1773.20-2500	20	2500	+0,-13
L1773.20-2550	20	2550	+0,-13
L1773.20-2600	20	2600	+0,-13
L1773.20-2650	20	2650	+0,-13
L1773.20-2700	20	2700	+0,-13
L1773.20-2750	20	2750	+0,-13
L1773.20-2800	20	2800	+0,-13
L1773.20-2850	20	2850	+0,-13
L1773.20-2900	20	2900	+0,-13
L1773.20-2950	20	2950	+0,-13
L1773.20-3000	20	3000	+0,-13
L1773.20-3050	20	3050	+0,-13
L1773.20-3100	20	3100	+0,-13
L1773.20-3150	20	3150	+0,-13
L1773.20-3200	20	3200	+0,-13
L1773.20-3250	20	3250	+0,-13
L1773.20-3300	20	3300	+0,-13
L1773.20-3350	20	3350	+0,-13
L1773.20-3400	20	3400	+0,-13
L1773.20-3450	20	3450	+0,-13
L1773.20-3500	20	3500	+0,-13
L1773.20-3550	20	3550	+0,-13
L1773.20-3600	20	3600	+0,-13
L1773.20-3650	20	3650	+0,-13
L1773.20-3700	20	3700	+0,-13
L1773.20-3750	20	3750	+0,-13
L1773.20-3800	20	3800	+0,-13
L1773.20-3850	20	3850	+0,-13
L1773.20-3900	20	3900	+0,-13
L1773.20-3950	20	3950	+0,-13
L1773.20-4000	20	4000	+0,-13
L1773.20-4050	20	4050	+0,-13
L1773.20-4100	20	4100	+0,-13
L1773.20-4150	20	4150	+0,-13
L1773.20-4200	20	4200	+0,-13
L1773.20-4250	20	4250	+0,-13
L1773.20-4300	20	4300	+0,-13
L1773.20-4350	20	4350	+0,-13
L1773.20-4400	20	4400	+0,-13
L1773.20-4450	20	4450	+0,-13
L1773.20-4500	20	4500	+0,-13
L1773.20-4550	20	4550	+0,-13
L1773.20-4600	20	4600	+0,-13
L1773.20-4650	20	4650	+0,-13
L1773.20-4700	20	4700	+0,-13
L1773.20-4750	20	4750	+0,-13
L1773.20-4800	20	4800	+0,-13
L1773.20-4850	20	4850	+0,-13
L1773.20-4900	20	4900	+0,-13

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.20-4950	20	4950	+0,-13
L1773.20-5000	20	5000	+0,-13
L1773.20-5050	20	5050	+0,-13
L1773.20-5100	20	5100	+0,-13
L1773.20-5150	20	5150	+0,-13
L1773.20-5200	20	5200	+0,-13
L1773.20-5250	20	5250	+0,-13
L1773.20-5300	20	5300	+0,-13
L1773.20-5350	20	5350	+0,-13
L1773.20-5400	20	5400	+0,-13
L1773.20-5450	20	5450	+0,-13
L1773.20-5500	20	5500	+0,-13
L1773.20-5550	20	5550	+0,-13
L1773.20-5600	20	5600	+0,-13
L1773.20-5650	20	5650	+0,-13
L1773.20-5700	20	5700	+0,-13
L1773.20-5750	20	5750	+0,-13
L1773.20-5800	20	5800	+0,-13
L1773.20-5850	20	5850	+0,-13
L1773.20-5900	20	5900	+0,-13
L1773.20-5950	20	5950	+0,-13
L1773.20-6000	20	6000	+0,-13

25Ø Stainless AISI 303 Shafts
soft



L1773.25



Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >510 N/mm², tensile strength: >720 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

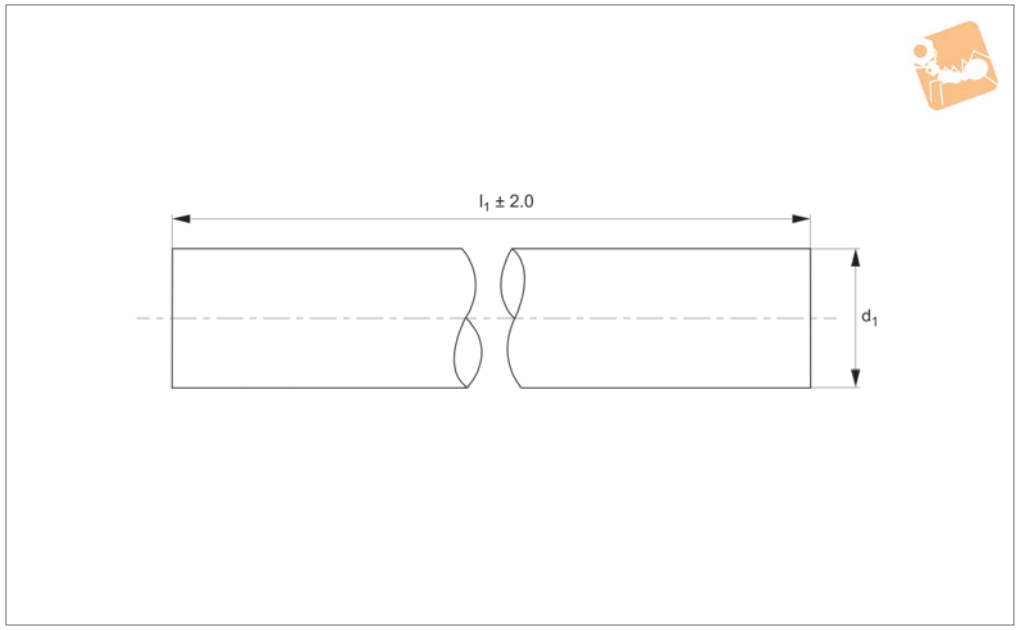
Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

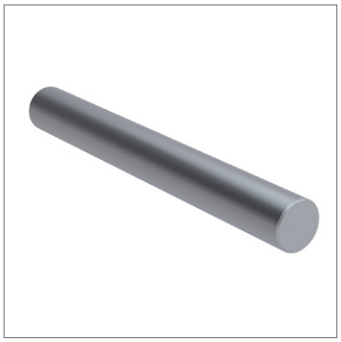
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.25-0100	25	100	+0,-13
L1773.25-0150	25	150	+0,-13
L1773.25-0200	25	200	+0,-13
L1773.25-0250	25	250	+0,-13
L1773.25-0300	25	300	+0,-13
L1773.25-0350	25	350	+0,-13
L1773.25-0400	25	400	+0,-13
L1773.25-0450	25	450	+0,-13
L1773.25-0500	25	500	+0,-13
L1773.25-0550	25	550	+0,-13
L1773.25-0600	25	600	+0,-13
L1773.25-0650	25	650	+0,-13
L1773.25-0700	25	700	+0,-13
L1773.25-0750	25	750	+0,-13
L1773.25-0800	25	800	+0,-13
L1773.25-0850	25	850	+0,-13
L1773.25-0900	25	900	+0,-13
L1773.25-0950	25	950	+0,-13
L1773.25-1000	25	1000	+0,-13
L1773.25-1050	25	1050	+0,-13
L1773.25-1100	25	1100	+0,-13
L1773.25-1150	25	1150	+0,-13
L1773.25-1200	25	1200	+0,-13
L1773.25-1250	25	1250	+0,-13
L1773.25-1300	25	1300	+0,-13
L1773.25-1350	25	1350	+0,-13
L1773.25-1400	25	1400	+0,-13
L1773.25-1450	25	1450	+0,-13
L1773.25-1500	25	1500	+0,-13

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.25-1550	25	1550	+0,-13
L1773.25-1600	25	1600	+0,-13
L1773.25-1650	25	1650	+0,-13
L1773.25-1700	25	1700	+0,-13
L1773.25-1750	25	1750	+0,-13
L1773.25-1800	25	1800	+0,-13
L1773.25-1850	25	1850	+0,-13
L1773.25-1900	25	1900	+0,-13
L1773.25-1950	25	1950	+0,-13
L1773.25-2000	25	2000	+0,-13
L1773.25-2050	25	2050	+0,-13
L1773.25-2100	25	2100	+0,-13
L1773.25-2150	25	2150	+0,-13
L1773.25-2200	25	2200	+0,-13
L1773.25-2250	25	2250	+0,-13
L1773.25-2300	25	2300	+0,-13
L1773.25-2350	25	2350	+0,-13
L1773.25-2400	25	2400	+0,-13
L1773.25-2450	25	2450	+0,-13
L1773.25-2500	25	2500	+0,-13
L1773.25-2550	25	2550	+0,-13
L1773.25-2600	25	2600	+0,-13
L1773.25-2650	25	2650	+0,-13
L1773.25-2700	25	2700	+0,-13
L1773.25-2750	25	2750	+0,-13
L1773.25-2800	25	2800	+0,-13
L1773.25-2850	25	2850	+0,-13
L1773.25-2900	25	2900	+0,-13
L1773.25-2950	25	2950	+0,-13
L1773.25-3000	25	3000	+0,-13
L1773.25-3050	25	3050	+0,-13
L1773.25-3100	25	3100	+0,-13
L1773.25-3150	25	3150	+0,-13
L1773.25-3200	25	3200	+0,-13
L1773.25-3250	25	3250	+0,-13
L1773.25-3300	25	3300	+0,-13
L1773.25-3350	25	3350	+0,-13
L1773.25-3400	25	3400	+0,-13
L1773.25-3450	25	3450	+0,-13
L1773.25-3500	25	3500	+0,-13
L1773.25-3550	25	3550	+0,-13
L1773.25-3600	25	3600	+0,-13
L1773.25-3650	25	3650	+0,-13
L1773.25-3700	25	3700	+0,-13
L1773.25-3750	25	3750	+0,-13
L1773.25-3800	25	3800	+0,-13
L1773.25-3850	25	3850	+0,-13
L1773.25-3900	25	3900	+0,-13
L1773.25-3950	25	3950	+0,-13
L1773.25-4000	25	4000	+0,-13
L1773.25-4050	25	4050	+0,-13
L1773.25-4100	25	4100	+0,-13
L1773.25-4150	25	4150	+0,-13
L1773.25-4200	25	4200	+0,-13
L1773.25-4250	25	4250	+0,-13
L1773.25-4300	25	4300	+0,-13
L1773.25-4350	25	4350	+0,-13
L1773.25-4400	25	4400	+0,-13
L1773.25-4450	25	4450	+0,-13
L1773.25-4500	25	4500	+0,-13
L1773.25-4550	25	4550	+0,-13
L1773.25-4600	25	4600	+0,-13
L1773.25-4650	25	4650	+0,-13
L1773.25-4700	25	4700	+0,-13
L1773.25-4750	25	4750	+0,-13
L1773.25-4800	25	4800	+0,-13
L1773.25-4850	25	4850	+0,-13
L1773.25-4900	25	4900	+0,-13

25Ø Stainless AISI 303 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.25-4950	25	4950	+0,-13
L1773.25-5000	25	5000	+0,-13
L1773.25-5050	25	5050	+0,-13
L1773.25-5100	25	5100	+0,-13
L1773.25-5150	25	5150	+0,-13
L1773.25-5200	25	5200	+0,-13
L1773.25-5250	25	5250	+0,-13
L1773.25-5300	25	5300	+0,-13
L1773.25-5350	25	5350	+0,-13
L1773.25-5400	25	5400	+0,-13
L1773.25-5450	25	5450	+0,-13
L1773.25-5500	25	5500	+0,-13
L1773.25-5550	25	5550	+0,-13
L1773.25-5600	25	5600	+0,-13
L1773.25-5650	25	5650	+0,-13
L1773.25-5700	25	5700	+0,-13
L1773.25-5750	25	5750	+0,-13
L1773.25-5800	25	5800	+0,-13
L1773.25-5850	25	5850	+0,-13
L1773.25-5900	25	5900	+0,-13
L1773.25-5950	25	5950	+0,-13
L1773.25-6000	25	6000	+0,-13





L1773.30

Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >510 N/mm^2, tensile strength: >720 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

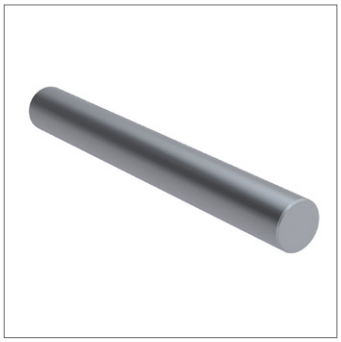
Order No.	d_1	l_1	Tolerance µ tol. h6
L1773.30-0100	30	100	+0,-13
L1773.30-0150	30	150	+0,-13
L1773.30-0200	30	200	+0,-13
L1773.30-0250	30	250	+0,-13
L1773.30-0300	30	300	+0,-13
L1773.30-0350	30	350	+0,-13
L1773.30-0400	30	400	+0,-13
L1773.30-0450	30	450	+0,-13
L1773.30-0500	30	500	+0,-13
L1773.30-0550	30	550	+0,-13
L1773.30-0600	30	600	+0,-13
L1773.30-0650	30	650	+0,-13
L1773.30-0700	30	700	+0,-13
L1773.30-0750	30	750	+0,-13
L1773.30-0800	30	800	+0,-13
L1773.30-0850	30	850	+0,-13
L1773.30-0900	30	900	+0,-13
L1773.30-0950	30	950	+0,-13
L1773.30-1000	30	1000	+0,-13
L1773.30-1050	30	1050	+0,-13
L1773.30-1100	30	1100	+0,-13
L1773.30-1150	30	1150	+0,-13
L1773.30-1200	30	1200	+0,-13
L1773.30-1250	30	1250	+0,-13
L1773.30-1300	30	1300	+0,-13
L1773.30-1350	30	1350	+0,-13
L1773.30-1400	30	1400	+0,-13
L1773.30-1450	30	1450	+0,-13
L1773.30-1500	30	1500	+0,-13

30Ø Stainless AISI 303 Shafts
soft

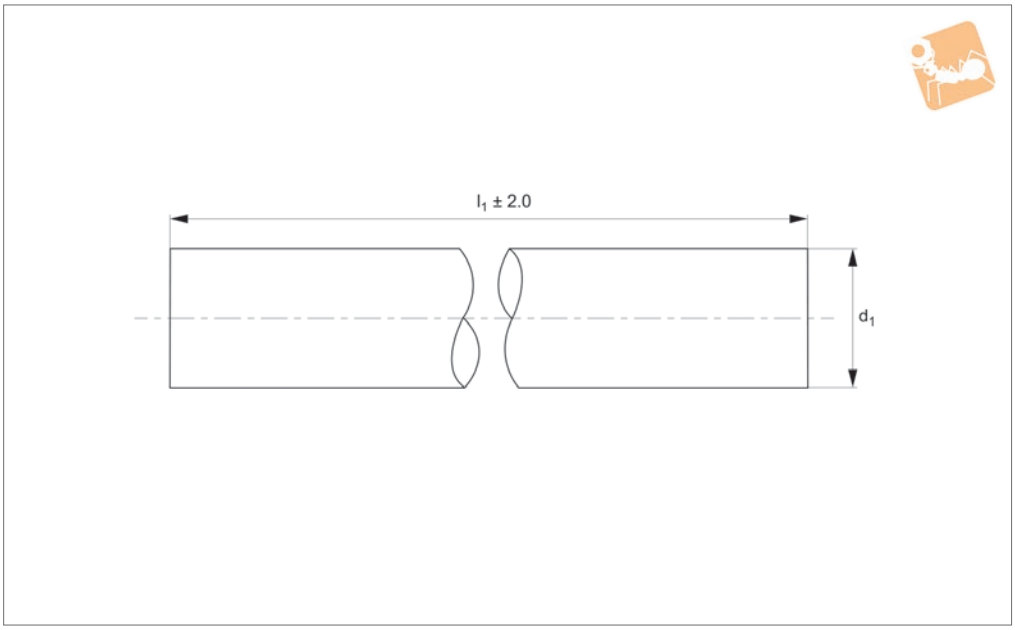
Order No.	d_1	l_1	Tolerance μ tol. h6
L1773.30-1550	30	1550	+0,-13
L1773.30-1600	30	1600	+0,-13
L1773.30-1650	30	1650	+0,-13
L1773.30-1700	30	1700	+0,-13
L1773.30-1750	30	1750	+0,-13
L1773.30-1800	30	1800	+0,-13
L1773.30-1850	30	1850	+0,-13
L1773.30-1900	30	1900	+0,-13
L1773.30-1950	30	1950	+0,-13
L1773.30-2000	30	2000	+0,-13
L1773.30-2050	30	2050	+0,-13
L1773.30-2100	30	2100	+0,-13
L1773.30-2150	30	2150	+0,-13
L1773.30-2200	30	2200	+0,-13
L1773.30-2250	30	2250	+0,-13
L1773.30-2300	30	2300	+0,-13
L1773.30-2350	30	2350	+0,-13
L1773.30-2400	30	2400	+0,-13
L1773.30-2450	30	2450	+0,-13
L1773.30-2500	30	2500	+0,-13
L1773.30-2550	30	2550	+0,-13
L1773.30-2600	30	2600	+0,-13
L1773.30-2650	30	2650	+0,-13
L1773.30-2700	30	2700	+0,-13
L1773.30-2750	30	2750	+0,-13
L1773.30-2800	30	2800	+0,-13
L1773.30-2850	30	2850	+0,-13
L1773.30-2900	30	2900	+0,-13
L1773.30-2950	30	2950	+0,-13
L1773.30-3000	30	3000	+0,-13
L1773.30-3050	30	3050	+0,-13
L1773.30-3100	30	3100	+0,-13
L1773.30-3150	30	3150	+0,-13
L1773.30-3200	30	3200	+0,-13
L1773.30-3250	30	3250	+0,-13
L1773.30-3300	30	3300	+0,-13
L1773.30-3350	30	3350	+0,-13
L1773.30-3400	30	3400	+0,-13
L1773.30-3450	30	3450	+0,-13
L1773.30-3500	30	3500	+0,-13
L1773.30-3550	30	3550	+0,-13
L1773.30-3600	30	3600	+0,-13
L1773.30-3650	30	3650	+0,-13
L1773.30-3700	30	3700	+0,-13
L1773.30-3750	30	3750	+0,-13
L1773.30-3800	30	3800	+0,-13
L1773.30-3850	30	3850	+0,-13
L1773.30-3900	30	3900	+0,-13
L1773.30-3950	30	3950	+0,-13
L1773.30-4000	30	4000	+0,-13
L1773.30-4050	30	4050	+0,-13
L1773.30-4100	30	4100	+0,-13
L1773.30-4150	30	4150	+0,-13
L1773.30-4200	30	4200	+0,-13
L1773.30-4250	30	4250	+0,-13
L1773.30-4300	30	4300	+0,-13
L1773.30-4350	30	4350	+0,-13
L1773.30-4400	30	4400	+0,-13
L1773.30-4450	30	4450	+0,-13
L1773.30-4500	30	4500	+0,-13
L1773.30-4550	30	4550	+0,-13
L1773.30-4600	30	4600	+0,-13
L1773.30-4650	30	4650	+0,-13
L1773.30-4700	30	4700	+0,-13
L1773.30-4750	30	4750	+0,-13
L1773.30-4800	30	4800	+0,-13
L1773.30-4850	30	4850	+0,-13
L1773.30-4900	30	4900	+0,-13

Order No.	d_1	l_1	Tolerance μ tol. h6
L1773.30-4950	30	4950	+0,-13
L1773.30-5000	30	5000	+0,-13
L1773.30-5050	30	5050	+0,-13
L1773.30-5100	30	5100	+0,-13
L1773.30-5150	30	5150	+0,-13
L1773.30-5200	30	5200	+0,-13
L1773.30-5250	30	5250	+0,-13
L1773.30-5300	30	5300	+0,-13
L1773.30-5350	30	5350	+0,-13
L1773.30-5400	30	5400	+0,-13
L1773.30-5450	30	5450	+0,-13
L1773.30-5500	30	5500	+0,-13
L1773.30-5550	30	5550	+0,-13
L1773.30-5600	30	5600	+0,-13
L1773.30-5650	30	5650	+0,-13
L1773.30-5700	30	5700	+0,-13
L1773.30-5750	30	5750	+0,-13
L1773.30-5800	30	5800	+0,-13
L1773.30-5850	30	5850	+0,-13
L1773.30-5900	30	5900	+0,-13
L1773.30-5950	30	5950	+0,-13
L1773.30-6000	30	6000	+0,-13

40Ø Stainless AISI 303 Shafts
soft



L1773.40



Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >510 N/mm², tensile strength: >720 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.40-0100	40	100	+0,-16
L1773.40-0150	40	150	+0,-16
L1773.40-0200	40	200	+0,-16
L1773.40-0250	40	250	+0,-16
L1773.40-0300	40	300	+0,-16
L1773.40-0350	40	350	+0,-16
L1773.40-0400	40	400	+0,-16
L1773.40-0450	40	450	+0,-16
L1773.40-0500	40	500	+0,-16
L1773.40-0550	40	550	+0,-16
L1773.40-0600	40	600	+0,-16
L1773.40-0650	40	650	+0,-16
L1773.40-0700	40	700	+0,-16
L1773.40-0750	40	750	+0,-16
L1773.40-0800	40	800	+0,-16
L1773.40-0850	40	850	+0,-16
L1773.40-0900	40	900	+0,-16
L1773.40-0950	40	950	+0,-16
L1773.40-1000	40	1000	+0,-16
L1773.40-1050	40	1050	+0,-16
L1773.40-1100	40	1100	+0,-16
L1773.40-1150	40	1150	+0,-16
L1773.40-1200	40	1200	+0,-16
L1773.40-1250	40	1250	+0,-16
L1773.40-1300	40	1300	+0,-16
L1773.40-1350	40	1350	+0,-16
L1773.40-1400	40	1400	+0,-16
L1773.40-1450	40	1450	+0,-16
L1773.40-1500	40	1500	+0,-16

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.40-1550	40	1550	+0,-16
L1773.40-1600	40	1600	+0,-16
L1773.40-1650	40	1650	+0,-16
L1773.40-1700	40	1700	+0,-16
L1773.40-1750	40	1750	+0,-16
L1773.40-1800	40	1800	+0,-16
L1773.40-1850	40	1850	+0,-16
L1773.40-1900	40	1900	+0,-16
L1773.40-1950	40	1950	+0,-16
L1773.40-2000	40	2000	+0,-16
L1773.40-2050	40	2050	+0,-16
L1773.40-2100	40	2100	+0,-16
L1773.40-2150	40	2150	+0,-16
L1773.40-2200	40	2200	+0,-16
L1773.40-2250	40	2250	+0,-16
L1773.40-2300	40	2300	+0,-16
L1773.40-2350	40	2350	+0,-16
L1773.40-2400	40	2400	+0,-16
L1773.40-2450	40	2450	+0,-16
L1773.40-2500	40	2500	+0,-16
L1773.40-2550	40	2550	+0,-16
L1773.40-2600	40	2600	+0,-16
L1773.40-2650	40	2650	+0,-16
L1773.40-2700	40	2700	+0,-16
L1773.40-2750	40	2750	+0,-16
L1773.40-2800	40	2800	+0,-16
L1773.40-2850	40	2850	+0,-16
L1773.40-2900	40	2900	+0,-16
L1773.40-2950	40	2950	+0,-16
L1773.40-3000	40	3000	+0,-16
L1773.40-3050	40	3050	+0,-16
L1773.40-3100	40	3100	+0,-16
L1773.40-3150	40	3150	+0,-16
L1773.40-3200	40	3200	+0,-16
L1773.40-3250	40	3250	+0,-16
L1773.40-3300	40	3300	+0,-16
L1773.40-3350	40	3350	+0,-16
L1773.40-3400	40	3400	+0,-16
L1773.40-3450	40	3450	+0,-16
L1773.40-3500	40	3500	+0,-16
L1773.40-3550	40	3550	+0,-16
L1773.40-3600	40	3600	+0,-16
L1773.40-3650	40	3650	+0,-16
L1773.40-3700	40	3700	+0,-16
L1773.40-3750	40	3750	+0,-16
L1773.40-3800	40	3800	+0,-16
L1773.40-3850	40	3850	+0,-16
L1773.40-3900	40	3900	+0,-16
L1773.40-3950	40	3950	+0,-16
L1773.40-4000	40	4000	+0,-16
L1773.40-4050	40	4050	+0,-16
L1773.40-4100	40	4100	+0,-16
L1773.40-4150	40	4150	+0,-16
L1773.40-4200	40	4200	+0,-16
L1773.40-4250	40	4250	+0,-16
L1773.40-4300	40	4300	+0,-16
L1773.40-4350	40	4350	+0,-16
L1773.40-4400	40	4400	+0,-16
L1773.40-4450	40	4450	+0,-16
L1773.40-4500	40	4500	+0,-16
L1773.40-4550	40	4550	+0,-16
L1773.40-4600	40	4600	+0,-16
L1773.40-4650	40	4650	+0,-16
L1773.40-4700	40	4700	+0,-16
L1773.40-4750	40	4750	+0,-16
L1773.40-4800	40	4800	+0,-16
L1773.40-4850	40	4850	+0,-16
L1773.40-4900	40	4900	+0,-16

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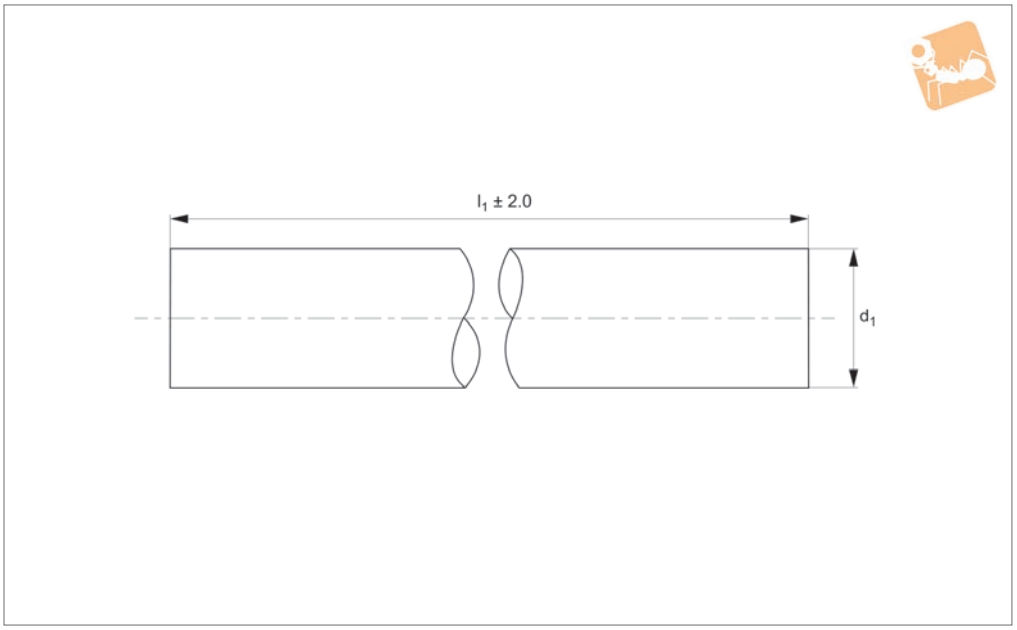
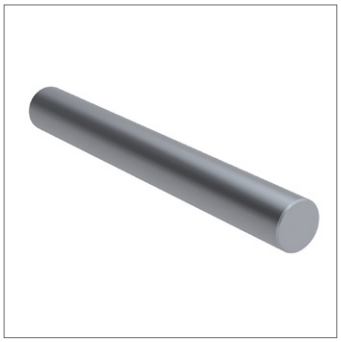
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.40-4950	40	4950	+0,-16
L1773.40-5000	40	5000	+0,-16
L1773.40-5050	40	5050	+0,-16
L1773.40-5100	40	5100	+0,-16
L1773.40-5150	40	5150	+0,-16
L1773.40-5200	40	5200	+0,-16
L1773.40-5250	40	5250	+0,-16
L1773.40-5300	40	5300	+0,-16
L1773.40-5350	40	5350	+0,-16
L1773.40-5400	40	5400	+0,-16
L1773.40-5450	40	5450	+0,-16
L1773.40-5500	40	5500	+0,-16
L1773.40-5550	40	5550	+0,-16
L1773.40-5600	40	5600	+0,-16
L1773.40-5650	40	5650	+0,-16
L1773.40-5700	40	5700	+0,-16
L1773.40-5750	40	5750	+0,-16
L1773.40-5800	40	5800	+0,-16
L1773.40-5850	40	5850	+0,-16
L1773.40-5900	40	5900	+0,-16
L1773.40-5950	40	5950	+0,-16
L1773.40-6000	40	6000	+0,-16





L1773.50

Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >510 N/mm^2, tensile strength: >720 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

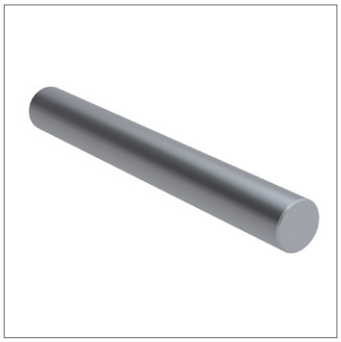
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.50-0100	50	100	+0,-16
L1773.50-0150	50	150	+0,-16
L1773.50-0200	50	200	+0,-16
L1773.50-0250	50	250	+0,-16
L1773.50-0300	50	300	+0,-16
L1773.50-0350	50	350	+0,-16
L1773.50-0400	50	400	+0,-16
L1773.50-0450	50	450	+0,-16
L1773.50-0500	50	500	+0,-16
L1773.50-0550	50	550	+0,-16
L1773.50-0600	50	600	+0,-16
L1773.50-0650	50	650	+0,-16
L1773.50-0700	50	700	+0,-16
L1773.50-0750	50	750	+0,-16
L1773.50-0800	50	800	+0,-16
L1773.50-0850	50	850	+0,-16
L1773.50-0900	50	900	+0,-16
L1773.50-1000	50	1000	+0,-16
L1773.50-1050	50	1050	+0,-16
L1773.50-1100	50	1100	+0,-16
L1773.50-1150	50	1150	+0,-16
L1773.50-1200	50	1200	+0,-16
L1773.50-1250	50	1250	+0,-16
L1773.50-1300	50	1300	+0,-16
L1773.50-1350	50	1350	+0,-16
L1773.50-1400	50	1400	+0,-16
L1773.50-1450	50	1450	+0,-16
L1773.50-1500	50	1500	+0,-16
L1773.50-1550	50	1550	+0,-16

50Ø Stainless AISI 303 Shafts
soft

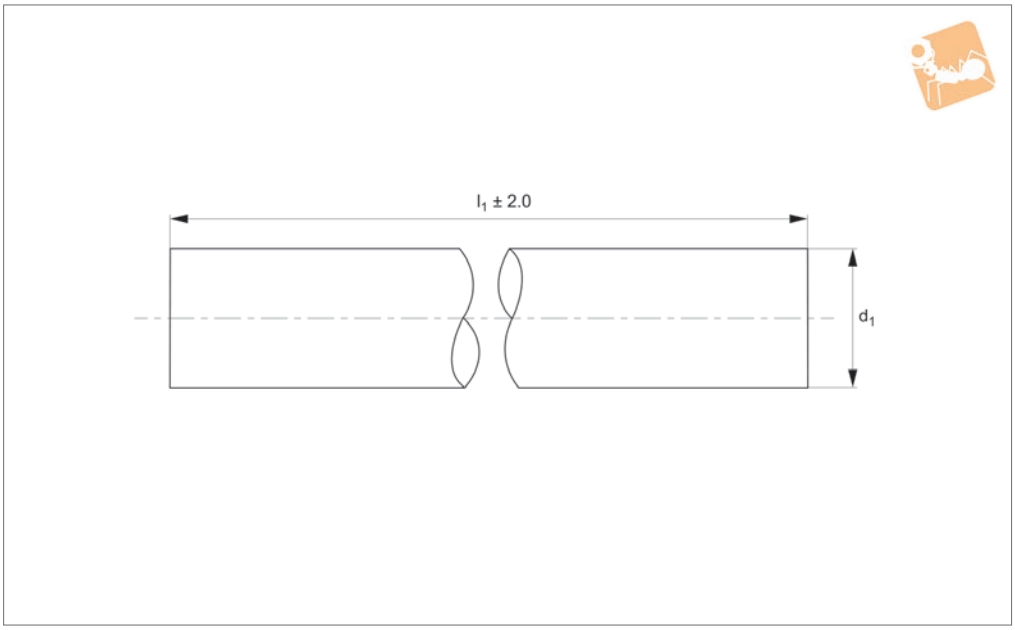
Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.50-1600	50	1600	+0,-16
L1773.50-1650	50	1650	+0,-16
L1773.50-1700	50	1700	+0,-16
L1773.50-1750	50	1750	+0,-16
L1773.50-1800	50	1800	+0,-16
L1773.50-1850	50	1850	+0,-16
L1773.50-1900	50	1900	+0,-16
L1773.50-1950	50	1950	+0,-16
L1773.50-2000	50	2000	+0,-16
L1773.50-2050	50	2050	+0,-16
L1773.50-2100	50	2100	+0,-16
L1773.50-2150	50	2150	+0,-16
L1773.50-2200	50	2200	+0,-16
L1773.50-2250	50	2250	+0,-16
L1773.50-2300	50	2300	+0,-16
L1773.50-2350	50	2350	+0,-16
L1773.50-2400	50	2400	+0,-16
L1773.50-2450	50	2450	+0,-16
L1773.50-2500	50	2500	+0,-16
L1773.50-2550	50	2550	+0,-16
L1773.50-2600	50	2600	+0,-16
L1773.50-2650	50	2650	+0,-16
L1773.50-2700	50	2700	+0,-16
L1773.50-2750	50	2750	+0,-16
L1773.50-2800	50	2800	+0,-16
L1773.50-2850	50	2850	+0,-16
L1773.50-2900	50	2900	+0,-16
L1773.50-2950	50	2950	+0,-16
L1773.50-3000	50	3000	+0,-16
L1773.50-3050	50	3050	+0,-16
L1773.50-3100	50	3100	+0,-16
L1773.50-3150	50	3150	+0,-16
L1773.50-3200	50	3200	+0,-16
L1773.50-3250	50	3250	+0,-16
L1773.50-3300	50	3300	+0,-16
L1773.50-3350	50	3350	+0,-16
L1773.50-3400	50	3400	+0,-16
L1773.50-3450	50	3450	+0,-16
L1773.50-3500	50	3500	+0,-16
L1773.50-3550	50	3550	+0,-16
L1773.50-3600	50	3600	+0,-16
L1773.50-3650	50	3650	+0,-16
L1773.50-3700	50	3700	+0,-16
L1773.50-3750	50	3750	+0,-16
L1773.50-3800	50	3800	+0,-16
L1773.50-3850	50	3850	+0,-16
L1773.50-3900	50	3900	+0,-16
L1773.50-3950	50	3950	+0,-16
L1773.50-4000	50	4000	+0,-16
L1773.50-4050	50	4050	+0,-16
L1773.50-4100	50	4100	+0,-16
L1773.50-4150	50	4150	+0,-16
L1773.50-4200	50	4200	+0,-16
L1773.50-4250	50	4250	+0,-16
L1773.50-4300	50	4300	+0,-16
L1773.50-4350	50	4350	+0,-16
L1773.50-4400	50	4400	+0,-16
L1773.50-4450	50	4450	+0,-16
L1773.50-4500	50	4500	+0,-16
L1773.50-4550	50	4550	+0,-16
L1773.50-4600	50	4600	+0,-16
L1773.50-4650	50	4650	+0,-16
L1773.50-4700	50	4700	+0,-16
L1773.50-4750	50	4750	+0,-16
L1773.50-4800	50	4800	+0,-16
L1773.50-4850	50	4850	+0,-16
L1773.50-4900	50	4900	+0,-16
L1773.50-4950	50	4950	+0,-16

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.50-5000	50	5000	+0,-16
L1773.50-5050	50	5050	+0,-16
L1773.50-5100	50	5100	+0,-16
L1773.50-5150	50	5150	+0,-16
L1773.50-5200	50	5200	+0,-16
L1773.50-5250	50	5250	+0,-16
L1773.50-5300	50	5300	+0,-16
L1773.50-5350	50	5350	+0,-16
L1773.50-5400	50	5400	+0,-16
L1773.50-5450	50	5450	+0,-16
L1773.50-5500	50	5500	+0,-16
L1773.50-5550	50	5550	+0,-16
L1773.50-5600	50	5600	+0,-16
L1773.50-5650	50	5650	+0,-16
L1773.50-5700	50	5700	+0,-16
L1773.50-5750	50	5750	+0,-16
L1773.50-5800	50	5800	+0,-16
L1773.50-5850	50	5850	+0,-16
L1773.50-5900	50	5900	+0,-16
L1773.50-5950	50	5950	+0,-16
L1773.50-6000	50	6000	+0,-16

60Ø Stainless AISI 303 Shafts
soft



L1773.60



Material
Stainless steel AISI 303 (1.4305, X10CrNiS18-19), surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >510 N/mm², tensile strength: >720 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

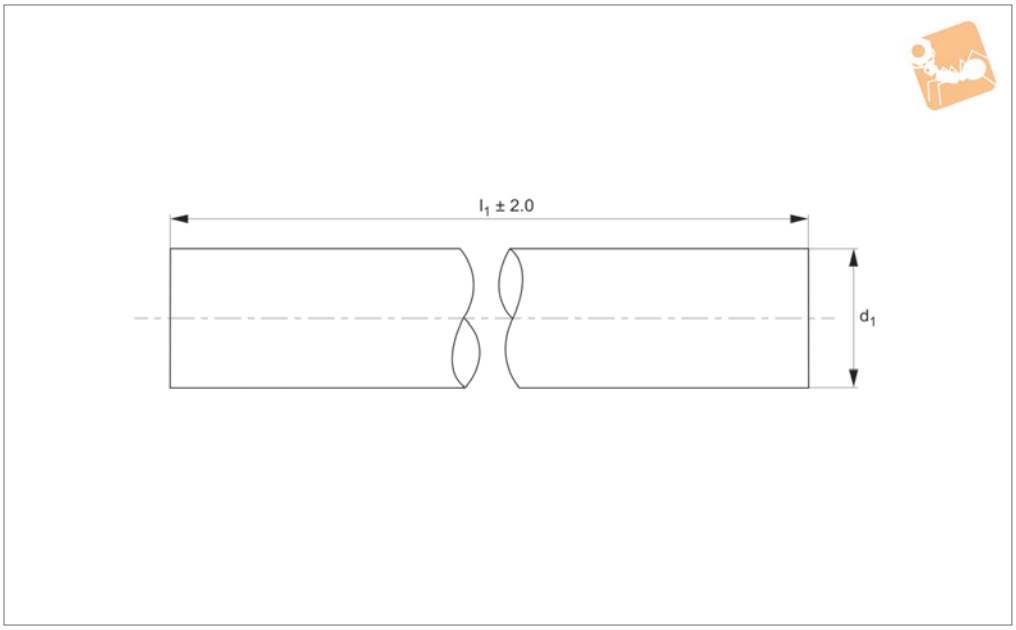
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1773.60-0100	60	100	+0,-19
L1773.60-0150	60	150	+0,-19
L1773.60-0200	60	200	+0,-19
L1773.60-0250	60	250	+0,-19
L1773.60-0300	60	300	+0,-19
L1773.60-0350	60	350	+0,-19
L1773.60-0400	60	400	+0,-19
L1773.60-0450	60	450	+0,-19
L1773.60-0500	60	500	+0,-19
L1773.60-0550	60	550	+0,-19
L1773.60-0600	60	600	+0,-19
L1773.60-0650	60	650	+0,-19
L1773.60-0700	60	700	+0,-19
L1773.60-0750	60	750	+0,-19
L1773.60-0800	60	800	+0,-19
L1773.60-0850	60	850	+0,-19
L1773.60-0900	60	900	+0,-19
L1773.60-0950	60	950	+0,-19
L1773.60-1000	60	1000	+0,-19
L1773.60-1050	60	1050	+0,-19
L1773.60-1100	60	1100	+0,-19
L1773.60-1150	60	1150	+0,-19
L1773.60-1200	60	1200	+0,-19
L1773.60-1250	60	1250	+0,-19
L1773.60-1300	60	1300	+0,-19
L1773.60-1350	60	1350	+0,-19
L1773.60-1400	60	1400	+0,-19
L1773.60-1450	60	1450	+0,-19
L1773.60-1500	60	1500	+0,-19

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.60-1550	60	1550	+0,-19
L1773.60-1600	60	1600	+0,-19
L1773.60-1650	60	1650	+0,-19
L1773.60-1700	60	1700	+0,-19
L1773.60-1750	60	1750	+0,-19
L1773.60-1800	60	1800	+0,-19
L1773.60-1850	60	1850	+0,-19
L1773.60-1900	60	1900	+0,-19
L1773.60-1950	60	1950	+0,-19
L1773.60-2000	60	2000	+0,-19
L1773.60-2050	60	2050	+0,-19
L1773.60-2100	60	2100	+0,-19
L1773.60-2150	60	2150	+0,-19
L1773.60-2200	60	2200	+0,-19
L1773.60-2250	60	2250	+0,-19
L1773.60-2300	60	2300	+0,-19
L1773.60-2350	60	2350	+0,-19
L1773.60-2400	60	2400	+0,-19
L1773.60-2450	60	2450	+0,-19
L1773.60-2500	60	2500	+0,-19
L1773.60-2550	60	2550	+0,-19
L1773.60-2600	60	2600	+0,-19
L1773.60-2650	60	2650	+0,-19
L1773.60-2700	60	2700	+0,-19
L1773.60-2750	60	2750	+0,-19
L1773.60-2800	60	2800	+0,-19
L1773.60-2850	60	2850	+0,-19
L1773.60-2900	60	2900	+0,-19
L1773.60-2950	60	2950	+0,-19
L1773.60-3000	60	3000	+0,-19
L1773.60-3050	60	3050	+0,-19
L1773.60-3100	60	3100	+0,-19
L1773.60-3150	60	3150	+0,-19
L1773.60-3200	60	3200	+0,-19
L1773.60-3250	60	3250	+0,-19
L1773.60-3300	60	3300	+0,-19
L1773.60-3350	60	3350	+0,-19
L1773.60-3400	60	3400	+0,-19
L1773.60-3450	60	3450	+0,-19
L1773.60-3500	60	3500	+0,-19
L1773.60-3550	60	3550	+0,-19
L1773.60-3600	60	3600	+0,-19
L1773.60-3650	60	3650	+0,-19
L1773.60-3700	60	3700	+0,-19
L1773.60-3750	60	3750	+0,-19
L1773.60-3800	60	3800	+0,-19
L1773.60-3850	60	3850	+0,-19
L1773.60-3900	60	3900	+0,-19
L1773.60-3950	60	3950	+0,-19
L1773.60-4000	60	4000	+0,-19
L1773.60-4050	60	4050	+0,-19
L1773.60-4100	60	4100	+0,-19
L1773.60-4150	60	4150	+0,-19
L1773.60-4200	60	4200	+0,-19
L1773.60-4250	60	4250	+0,-19
L1773.60-4300	60	4300	+0,-19
L1773.60-4350	60	4350	+0,-19
L1773.60-4400	60	4400	+0,-19
L1773.60-4450	60	4450	+0,-19
L1773.60-4500	60	4500	+0,-19
L1773.60-4550	60	4550	+0,-19
L1773.60-4600	60	4600	+0,-19
L1773.60-4650	60	4650	+0,-19
L1773.60-4700	60	4700	+0,-19
L1773.60-4750	60	4750	+0,-19
L1773.60-4800	60	4800	+0,-19
L1773.60-4850	60	4850	+0,-19
L1773.60-4900	60	4900	+0,-19

60Ø Stainless AISI 303 Shafts

soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1773.60-4950	60	4950	+0,-19
L1773.60-5000	60	5000	+0,-19
L1773.60-5050	60	5050	+0,-19
L1773.60-5100	60	5100	+0,-19
L1773.60-5150	60	5150	+0,-19
L1773.60-5200	60	5200	+0,-19
L1773.60-5250	60	5250	+0,-19
L1773.60-5300	60	5300	+0,-19
L1773.60-5350	60	5350	+0,-19
L1773.60-5400	60	5400	+0,-19
L1773.60-5450	60	5450	+0,-19
L1773.60-5500	60	5500	+0,-19
L1773.60-5550	60	5550	+0,-19
L1773.60-5600	60	5600	+0,-19
L1773.60-5650	60	5650	+0,-19
L1773.60-5700	60	5700	+0,-19
L1773.60-5750	60	5750	+0,-19
L1773.60-5800	60	5800	+0,-19
L1773.60-5850	60	5850	+0,-19
L1773.60-5900	60	5900	+0,-19
L1773.60-5950	60	5950	+0,-19
L1773.60-6000	60	6000	+0,-19



L1774.06

Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm^2, tensile strength: >515 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.06-0100	6	100	+0,-8	1.0
L1774.06-0150	6	150	+0,-8	1.0
L1774.06-0200	6	200	+0,-8	1.0
L1774.06-0250	6	250	+0,-8	1.0
L1774.06-0300	6	300	+0,-8	1.0
L1774.06-0350	6	350	+0,-8	1.0
L1774.06-0400	6	400	+0,-8	1.0
L1774.06-0450	6	450	+0,-8	1.0
L1774.06-0500	6	500	+0,-8	1.0
L1774.06-0550	6	550	+0,-8	1.0
L1774.06-0600	6	600	+0,-8	1.0
L1774.06-0650	6	650	+0,-8	1.0
L1774.06-0700	6	700	+0,-8	1.0
L1774.06-0750	6	750	+0,-8	1.0
L1774.06-0800	6	800	+0,-8	1.0
L1774.06-0850	6	850	+0,-8	1.0
L1774.06-0900	6	900	+0,-8	1.0
L1774.06-0950	6	950	+0,-8	1.0
L1774.06-1000	6	1000	+0,-8	1.0
L1774.06-1050	6	1050	+0,-8	1.0
L1774.06-1100	6	1100	+0,-8	1.0
L1774.06-1150	6	1150	+0,-8	1.0
L1774.06-1200	6	1200	+0,-8	1.0
L1774.06-1250	6	1250	+0,-8	1.0
L1774.06-1300	6	1300	+0,-8	1.0
L1774.06-1350	6	1350	+0,-8	1.0
L1774.06-1400	6	1400	+0,-8	1.0
L1774.06-1450	6	1450	+0,-8	1.0
L1774.06-1500	6	1500	+0,-8	1.0

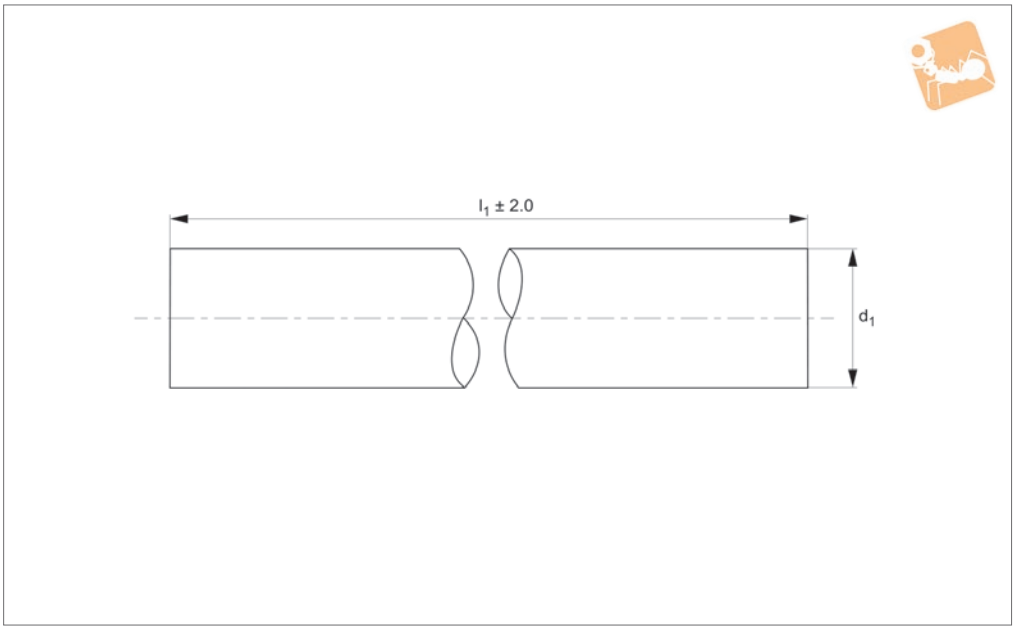
6Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.06-1550	6	1550	+0,-8	1.0
L1774.06-1600	6	1600	+0,-8	1.0
L1774.06-1650	6	1650	+0,-8	1.0
L1774.06-1700	6	1700	+0,-8	1.0
L1774.06-1750	6	1750	+0,-8	1.0
L1774.06-1800	6	1800	+0,-8	1.0
L1774.06-1850	6	1850	+0,-8	1.0
L1774.06-1900	6	1900	+0,-8	1.0
L1774.06-1950	6	1950	+0,-8	1.0
L1774.06-2000	6	2000	+0,-8	1.0
L1774.06-2050	6	2050	+0,-8	1.0
L1774.06-2100	6	2100	+0,-8	1.0
L1774.06-2150	6	2150	+0,-8	1.0
L1774.06-2200	6	2200	+0,-8	1.0
L1774.06-2250	6	2250	+0,-8	1.0
L1774.06-2300	6	2300	+0,-8	1.0
L1774.06-2350	6	2350	+0,-8	1.0
L1774.06-2400	6	2400	+0,-8	1.0
L1774.06-2450	6	2450	+0,-8	1.0
L1774.06-2500	6	2500	+0,-8	1.0
L1774.06-2550	6	2550	+0,-8	1.0
L1774.06-2600	6	2600	+0,-8	1.0
L1774.06-2650	6	2650	+0,-8	1.0
L1774.06-2700	6	2700	+0,-8	1.0
L1774.06-2750	6	2750	+0,-8	1.0
L1774.06-2800	6	2800	+0,-8	1.0
L1774.06-2850	6	2850	+0,-8	1.0
L1774.06-2900	6	2900	+0,-8	1.0
L1774.06-2950	6	2950	+0,-8	1.0
L1774.06-3000	6	3000	+0,-8	1.0
L1774.06-3050	6	3050	+0,-8	1.0
L1774.06-3100	6	3100	+0,-8	1.0
L1774.06-3150	6	3150	+0,-8	1.0
L1774.06-3200	6	3200	+0,-8	1.0
L1774.06-3250	6	3250	+0,-8	1.0
L1774.06-3300	6	3300	+0,-8	1.0
L1774.06-3350	6	3350	+0,-8	1.0
L1774.06-3400	6	3400	+0,-8	1.0
L1774.06-3450	6	3450	+0,-8	1.0
L1774.06-3500	6	3500	+0,-8	1.0
L1774.06-3550	6	3550	+0,-8	1.0
L1774.06-3600	6	3600	+0,-8	1.0
L1774.06-3650	6	3650	+0,-8	1.0
L1774.06-3700	6	3700	+0,-8	1.0
L1774.06-3750	6	3750	+0,-8	1.0
L1774.06-3800	6	3800	+0,-8	1.0
L1774.06-3850	6	3850	+0,-8	1.0
L1774.06-3900	6	3900	+0,-8	1.0
L1774.06-3950	6	3950	+0,-8	1.0
L1774.06-4000	6	4000	+0,-8	1.0
L1774.06-4050	6	4050	+0,-8	1.0
L1774.06-4100	6	4100	+0,-8	1.0
L1774.06-4150	6	4150	+0,-8	1.0
L1774.06-4200	6	4200	+0,-8	1.0
L1774.06-4250	6	4250	+0,-8	1.0
L1774.06-4300	6	4300	+0,-8	1.0
L1774.06-4350	6	4350	+0,-8	1.0
L1774.06-4400	6	4400	+0,-8	1.0
L1774.06-4450	6	4450	+0,-8	1.0
L1774.06-4500	6	4500	+0,-8	1.0
L1774.06-4550	6	4550	+0,-8	1.0
L1774.06-4600	6	4600	+0,-8	1.0
L1774.06-4650	6	4650	+0,-8	1.0
L1774.06-4700	6	4700	+0,-8	1.0
L1774.06-4750	6	4750	+0,-8	1.0
L1774.06-4800	6	4800	+0,-8	1.0
L1774.06-4850	6	4850	+0,-8	1.0
L1774.06-4900	6	4900	+0,-8	1.0

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.06-4950	6	4950	+0,-8	1.0
L1774.06-5000	6	5000	+0,-8	1.0
L1774.06-5050	6	5050	+0,-8	1.0
L1774.06-5100	6	5100	+0,-8	1.0
L1774.06-5150	6	5150	+0,-8	1.0
L1774.06-5200	6	5200	+0,-8	1.0
L1774.06-5250	6	5250	+0,-8	1.0
L1774.06-5300	6	5300	+0,-8	1.0
L1774.06-5350	6	5350	+0,-8	1.0
L1774.06-5400	6	5400	+0,-8	1.0
L1774.06-5450	6	5450	+0,-8	1.0
L1774.06-5500	6	5500	+0,-8	1.0
L1774.06-5550	6	5550	+0,-8	1.0
L1774.06-5600	6	5600	+0,-8	1.0
L1774.06-5650	6	5650	+0,-8	1.0
L1774.06-5700	6	5700	+0,-8	1.0
L1774.06-5750	6	5750	+0,-8	1.0
L1774.06-5800	6	5800	+0,-8	1.0
L1774.06-5850	6	5850	+0,-8	1.0
L1774.06-5900	6	5900	+0,-8	1.0
L1774.06-5950	6	5950	+0,-8	1.0
L1774.06-6000	6	6000	+0,-8	1.0

8Ø Stainless AISI 316 Shafts
soft

L1774.08



Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm², tensile strength: >515 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

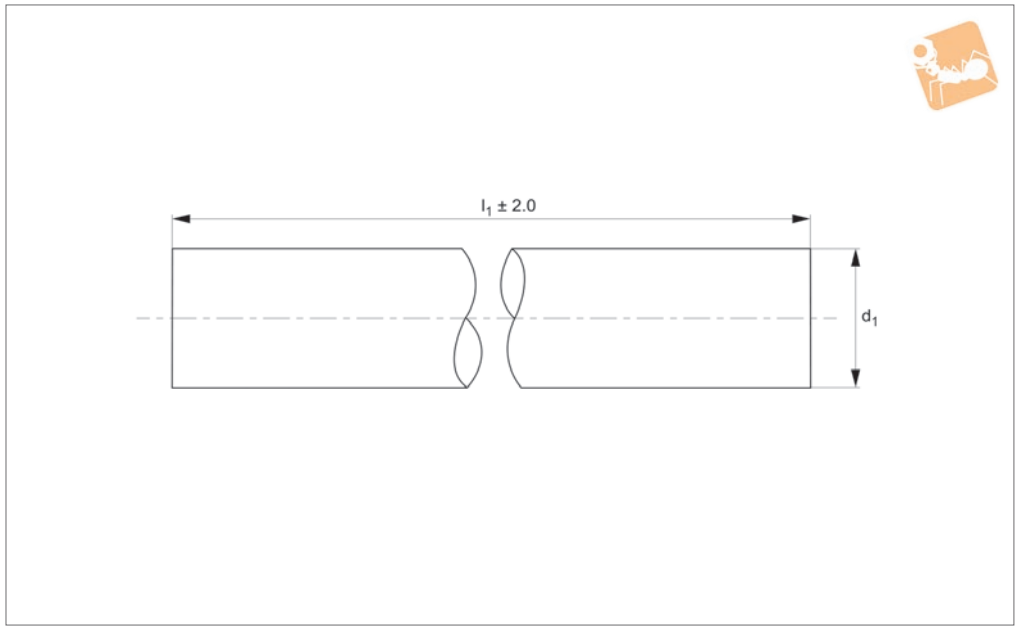
Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.08-0100	8	100	+0,-9	1.0
L1774.08-0150	8	150	+0,-9	1.0
L1774.08-0200	8	200	+0,-9	1.0
L1774.08-0250	8	250	+0,-9	1.0
L1774.08-0300	8	300	+0,-9	1.0
L1774.08-0350	8	350	+0,-9	1.0
L1774.08-0400	8	400	+0,-9	1.0
L1774.08-0450	8	450	+0,-9	1.0
L1774.08-0500	8	500	+0,-9	1.0
L1774.08-0550	8	550	+0,-9	1.0
L1774.08-0600	8	600	+0,-9	1.0
L1774.08-0650	8	650	+0,-9	1.0
L1774.08-0700	8	700	+0,-9	1.0
L1774.08-0750	8	750	+0,-9	1.0
L1774.08-0800	8	800	+0,-9	1.0
L1774.08-0850	8	850	+0,-9	1.0
L1774.08-0900	8	900	+0,-9	1.0
L1774.08-0950	8	950	+0,-9	1.0
L1774.08-1000	8	1000	+0,-9	1.0
L1774.08-1050	8	1050	+0,-9	1.0
L1774.08-1100	8	1100	+0,-9	1.0
L1774.08-1150	8	1150	+0,-9	1.0
L1774.08-1200	8	1200	+0,-9	1.0
L1774.08-1250	8	1250	+0,-9	1.0
L1774.08-1300	8	1300	+0,-9	1.0
L1774.08-1350	8	1350	+0,-9	1.0
L1774.08-1400	8	1400	+0,-9	1.0
L1774.08-1450	8	1450	+0,-9	1.0
L1774.08-1500	8	1500	+0,-9	1.0

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.08-1550	8	1550	+0,-9	1.0
L1774.08-1600	8	1600	+0,-9	1.0
L1774.08-1650	8	1650	+0,-9	1.0
L1774.08-1700	8	1700	+0,-9	1.0
L1774.08-1750	8	1750	+0,-9	1.0
L1774.08-1800	8	1800	+0,-9	1.0
L1774.08-1850	8	1850	+0,-9	1.0
L1774.08-1900	8	1900	+0,-9	1.0
L1774.08-1950	8	1950	+0,-9	1.0
L1774.08-2000	8	2000	+0,-9	1.0
L1774.08-2050	8	2050	+0,-9	1.0
L1774.08-2100	8	2100	+0,-9	1.0
L1774.08-2150	8	2150	+0,-9	1.0
L1774.08-2200	8	2200	+0,-9	1.0
L1774.08-2250	8	2250	+0,-9	1.0
L1774.08-2300	8	2300	+0,-9	1.0
L1774.08-2350	8	2350	+0,-9	1.0
L1774.08-2400	8	2400	+0,-9	1.0
L1774.08-2450	8	2450	+0,-9	1.0
L1774.08-2500	8	2500	+0,-9	1.0
L1774.08-2550	8	2550	+0,-9	1.0
L1774.08-2600	8	2600	+0,-9	1.0
L1774.08-2650	8	2650	+0,-9	1.0
L1774.08-2700	8	2700	+0,-9	1.0
L1774.08-2750	8	2750	+0,-9	1.0
L1774.08-2800	8	2800	+0,-9	1.0
L1774.08-2850	8	2850	+0,-9	1.0
L1774.08-2900	8	2900	+0,-9	1.0
L1774.08-2950	8	2950	+0,-9	1.0
L1774.08-3000	8	3000	+0,-9	1.0
L1774.08-3050	8	3050	+0,-9	1.0
L1774.08-3100	8	3100	+0,-9	1.0
L1774.08-3150	8	3150	+0,-9	1.0
L1774.08-3200	8	3200	+0,-9	1.0
L1774.08-3250	8	3250	+0,-9	1.0
L1774.08-3300	8	3300	+0,-9	1.0
L1774.08-3350	8	3350	+0,-9	1.0
L1774.08-3400	8	3400	+0,-9	1.0
L1774.08-3450	8	3450	+0,-9	1.0
L1774.08-3500	8	3500	+0,-9	1.0
L1774.08-3550	8	3550	+0,-9	1.0
L1774.08-3600	8	3600	+0,-9	1.0
L1774.08-3650	8	3650	+0,-9	1.0
L1774.08-3700	8	3700	+0,-9	1.0
L1774.08-3750	8	3750	+0,-9	1.0
L1774.08-3800	8	3800	+0,-9	1.0
L1774.08-3850	8	3850	+0,-9	1.0
L1774.08-3900	8	3900	+0,-9	1.0
L1774.08-3950	8	3950	+0,-9	1.0
L1774.08-4000	8	4000	+0,-9	1.0
L1774.08-4050	8	4050	+0,-9	1.0
L1774.08-4100	8	4100	+0,-9	1.0
L1774.08-4150	8	4150	+0,-9	1.0
L1774.08-4200	8	4200	+0,-9	1.0
L1774.08-4250	8	4250	+0,-9	1.0
L1774.08-4300	8	4300	+0,-9	1.0
L1774.08-4350	8	4350	+0,-9	1.0
L1774.08-4400	8	4400	+0,-9	1.0
L1774.08-4450	8	4450	+0,-9	1.0
L1774.08-4500	8	4500	+0,-9	1.0
L1774.08-4550	8	4550	+0,-9	1.0
L1774.08-4600	8	4600	+0,-9	1.0
L1774.08-4650	8	4650	+0,-9	1.0
L1774.08-4700	8	4700	+0,-9	1.0
L1774.08-4750	8	4750	+0,-9	1.0
L1774.08-4800	8	4800	+0,-9	1.0
L1774.08-4850	8	4850	+0,-9	1.0
L1774.08-4900	8	4900	+0,-9	1.0

8Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.08-4950	8	4950	+0,-9	1.0
L1774.08-5000	8	5000	+0,-9	1.0
L1774.08-5050	8	5050	+0,-9	1.0
L1774.08-5100	8	5100	+0,-9	1.0
L1774.08-5150	8	5150	+0,-9	1.0
L1774.08-5200	8	5200	+0,-9	1.0
L1774.08-5250	8	5250	+0,-9	1.0
L1774.08-5300	8	5300	+0,-9	1.0
L1774.08-5350	8	5350	+0,-9	1.0
L1774.08-5400	8	5400	+0,-9	1.0
L1774.08-5450	8	5450	+0,-9	1.0
L1774.08-5500	8	5500	+0,-9	1.0
L1774.08-5550	8	5550	+0,-9	1.0
L1774.08-5600	8	5600	+0,-9	1.0
L1774.08-5650	8	5650	+0,-9	1.0
L1774.08-5700	8	5700	+0,-9	1.0
L1774.08-5750	8	5750	+0,-9	1.0
L1774.08-5800	8	5800	+0,-9	1.0
L1774.08-5850	8	5850	+0,-9	1.0
L1774.08-5900	8	5900	+0,-9	1.0
L1774.08-5950	8	5950	+0,-9	1.0
L1774.08-6000	8	6000	+0,-9	1.0



L1774.10

Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm^2, tensile strength: >515 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.10-0100	10	100	+0,-10	1.0
L1774.10-0150	10	150	+0,-10	1.0
L1774.10-0200	10	200	+0,-10	1.0
L1774.10-0250	10	250	+0,-10	1.0
L1774.10-0300	10	300	+0,-10	1.0
L1774.10-0350	10	350	+0,-10	1.0
L1774.10-0400	10	400	+0,-10	1.0
L1774.10-0450	10	450	+0,-10	1.0
L1774.10-0500	10	500	+0,-10	1.0
L1774.10-0550	10	550	+0,-10	1.0
L1774.10-0600	10	600	+0,-10	1.0
L1774.10-0650	10	650	+0,-10	1.0
L1774.10-0700	10	700	+0,-10	1.0
L1774.10-0750	10	750	+0,-10	1.0
L1774.10-0800	10	800	+0,-10	1.0
L1774.10-0850	10	850	+0,-10	1.0
L1774.10-0900	10	900	+0,-10	1.0
L1774.10-0950	10	950	+0,-10	1.0
L1774.10-1000	10	1000	+0,-10	1.0
L1774.10-1050	10	1050	+0,-10	1.0
L1774.10-1100	10	1100	+0,-10	1.0
L1774.10-1150	10	1150	+0,-10	1.0
L1774.10-1200	10	1200	+0,-10	1.0
L1774.10-1250	10	1250	+0,-10	1.0
L1774.10-1300	10	1300	+0,-10	1.0
L1774.10-1350	10	1350	+0,-10	1.0
L1774.10-1400	10	1400	+0,-10	1.0
L1774.10-1450	10	1450	+0,-10	1.0
L1774.10-1500	10	1500	+0,-10	1.0

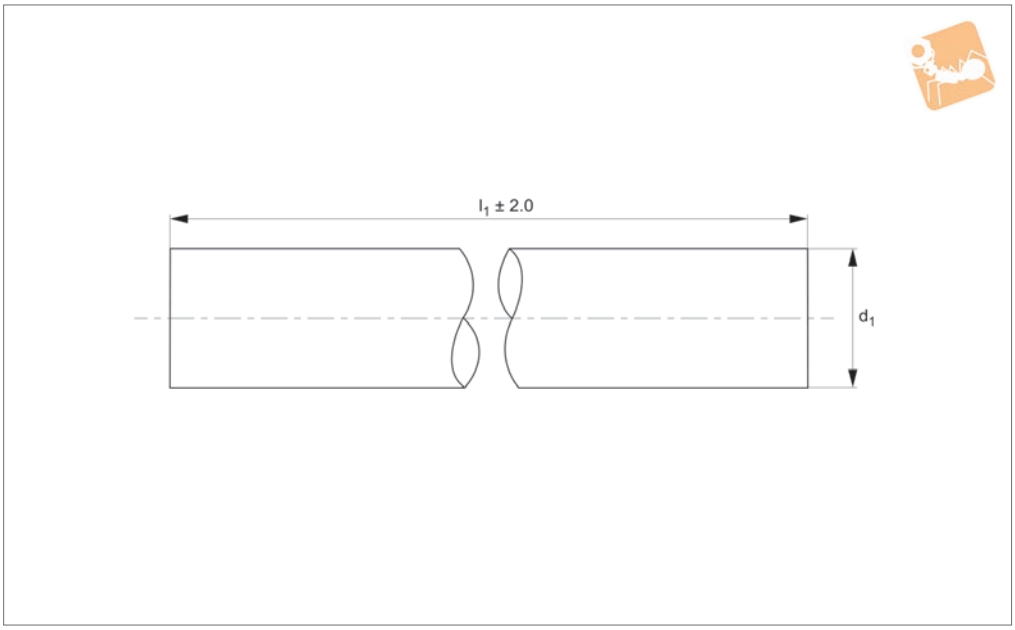
10Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.10-1550	10	1550	+0,-10	1.0
L1774.10-1600	10	1600	+0,-10	1.0
L1774.10-1650	10	1650	+0,-10	1.0
L1774.10-1700	10	1700	+0,-10	1.0
L1774.10-1750	10	1750	+0,-10	1.0
L1774.10-1800	10	1800	+0,-10	1.0
L1774.10-1850	10	1850	+0,-10	1.0
L1774.10-1900	10	1900	+0,-10	1.0
L1774.10-1950	10	1950	+0,-10	1.0
L1774.10-2000	10	2000	+0,-10	1.0
L1774.10-2050	10	2050	+0,-10	1.0
L1774.10-2100	10	2100	+0,-10	1.0
L1774.10-2150	10	2150	+0,-10	1.0
L1774.10-2200	10	2200	+0,-10	1.0
L1774.10-2250	10	2250	+0,-10	1.0
L1774.10-2300	10	2300	+0,-10	1.0
L1774.10-2350	10	2350	+0,-10	1.0
L1774.10-2400	10	2400	+0,-10	1.0
L1774.10-2450	10	2450	+0,-10	1.0
L1774.10-2500	10	2500	+0,-10	1.0
L1774.10-2550	10	2550	+0,-10	1.0
L1774.10-2600	10	2600	+0,-10	1.0
L1774.10-2650	10	2650	+0,-10	1.0
L1774.10-2700	10	2700	+0,-10	1.0
L1774.10-2750	10	2750	+0,-10	1.0
L1774.10-2800	10	2800	+0,-10	1.0
L1774.10-2850	10	2850	+0,-10	1.0
L1774.10-2900	10	2900	+0,-10	1.0
L1774.10-2950	10	2950	+0,-10	1.0
L1774.10-3000	10	3000	+0,-10	1.0
L1774.10-3050	10	3050	+0,-10	1.0
L1774.10-3100	10	3100	+0,-10	1.0
L1774.10-3150	10	3150	+0,-10	1.0
L1774.10-3200	10	3200	+0,-10	1.0
L1774.10-3250	10	3250	+0,-10	1.0
L1774.10-3300	10	3300	+0,-10	1.0
L1774.10-3350	10	3350	+0,-10	1.0
L1774.10-3400	10	3400	+0,-10	1.0
L1774.10-3450	10	3450	+0,-10	1.0
L1774.10-3500	10	3500	+0,-10	1.0
L1774.10-3550	10	3550	+0,-10	1.0
L1774.10-3600	10	3600	+0,-10	1.0
L1774.10-3650	10	3650	+0,-10	1.0
L1774.10-3700	10	3700	+0,-10	1.0
L1774.10-3750	10	3750	+0,-10	1.0
L1774.10-3800	10	3800	+0,-10	1.0
L1774.10-3850	10	3850	+0,-10	1.0
L1774.10-3900	10	3900	+0,-10	1.0
L1774.10-3950	10	3950	+0,-10	1.0
L1774.10-4000	10	4000	+0,-10	1.0
L1774.10-4050	10	4050	+0,-10	1.0
L1774.10-4100	10	4100	+0,-10	1.0
L1774.10-4150	10	4150	+0,-10	1.0
L1774.10-4200	10	4200	+0,-10	1.0
L1774.10-4250	10	4250	+0,-10	1.0
L1774.10-4300	10	4300	+0,-10	1.0
L1774.10-4350	10	4350	+0,-10	1.0
L1774.10-4400	10	4400	+0,-10	1.0
L1774.10-4450	10	4450	+0,-10	1.0
L1774.10-4500	10	4500	+0,-10	1.0
L1774.10-4550	10	4550	+0,-10	1.0
L1774.10-4600	10	4600	+0,-10	1.0
L1774.10-4650	10	4650	+0,-10	1.0
L1774.10-4700	10	4700	+0,-10	1.0
L1774.10-4750	10	4750	+0,-10	1.0
L1774.10-4800	10	4800	+0,-10	1.0
L1774.10-4850	10	4850	+0,-10	1.0
L1774.10-4900	10	4900	+0,-10	1.0

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.10-4950	10	4950	+0,-10	1.0
L1774.10-5000	10	5000	+0,-10	1.0
L1774.10-5050	10	5050	+0,-10	1.0
L1774.10-5100	10	5100	+0,-10	1.0
L1774.10-5150	10	5150	+0,-10	1.0
L1774.10-5200	10	5200	+0,-10	1.0
L1774.10-5250	10	5250	+0,-10	1.0
L1774.10-5300	10	5300	+0,-10	1.0
L1774.10-5350	10	5350	+0,-10	1.0
L1774.10-5400	10	5400	+0,-10	1.0
L1774.10-5450	10	5450	+0,-10	1.0
L1774.10-5500	10	5500	+0,-10	1.0
L1774.10-5550	10	5500	+0,-10	1.0
L1774.10-5600	10	5600	+0,-10	1.0
L1774.10-5650	10	5650	+0,-10	1.0
L1774.10-5700	10	5700	+0,-10	1.0
L1774.10-5750	10	5750	+0,-10	1.0
L1774.10-5800	10	5800	+0,-10	1.0
L1774.10-5850	10	5850	+0,-10	1.0
L1774.10-5900	10	5900	+0,-10	1.0
L1774.10-5950	10	5950	+0,-10	1.0
L1774.10-6000	10	6000	+0,-10	1.0

12Ø Stainless AISI 316 Shafts
soft

L1774.12



Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm², tensile strength: >515 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

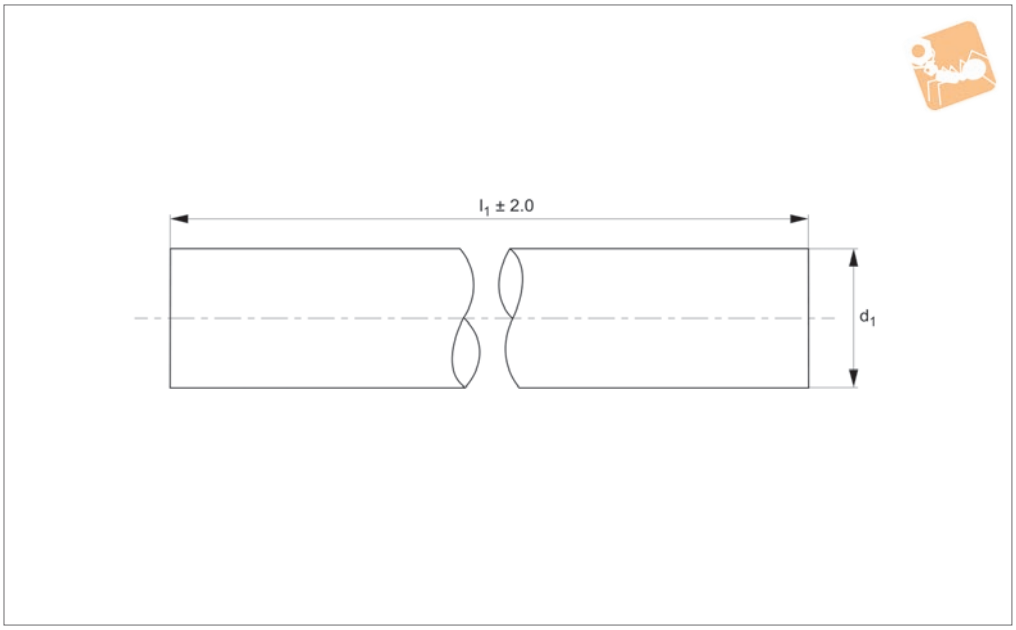
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness mm
L1774.12-0100	12	100	+0,-11	1.6
L1774.12-0150	12	150	+0,-11	1.6
L1774.12-0200	12	200	+0,-11	1.6
L1774.12-0250	12	250	+0,-11	1.6
L1774.12-0300	12	300	+0,-11	1.6
L1774.12-0350	12	350	+0,-11	1.6
L1774.12-0400	12	400	+0,-11	1.6
L1774.12-0450	12	450	+0,-11	1.6
L1774.12-0500	12	500	+0,-11	1.6
L1774.12-0550	12	550	+0,-11	1.6
L1774.12-0600	12	600	+0,-11	1.6
L1774.12-0650	12	650	+0,-11	1.6
L1774.12-0700	12	700	+0,-11	1.6
L1774.12-0750	12	750	+0,-11	1.6
L1774.12-0800	12	800	+0,-11	1.6
L1774.12-0850	12	850	+0,-11	1.6
L1774.12-0900	12	900	+0,-11	1.6
L1774.12-0950	12	950	+0,-11	1.6
L1774.12-1000	12	1000	+0,-11	1.6
L1774.12-1050	12	1050	+0,-11	1.6
L1774.12-1100	12	1100	+0,-11	1.6
L1774.12-1150	12	1150	+0,-11	1.6
L1774.12-1200	12	1200	+0,-11	1.6
L1774.12-1250	12	1250	+0,-11	1.6
L1774.12-1300	12	1300	+0,-11	1.6
L1774.12-1350	12	1350	+0,-11	1.6
L1774.12-1400	12	1400	+0,-11	1.6
L1774.12-1450	12	1450	+0,-11	1.6
L1774.12-1500	12	1500	+0,-11	1.6

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness mm
L1774.12-1550	12	1550	+0,-11	1.6
L1774.12-1600	12	1600	+0,-11	1.6
L1774.12-1650	12	1650	+0,-11	1.6
L1774.12-1700	12	1700	+0,-11	1.6
L1774.12-1750	12	1750	+0,-11	1.6
L1774.12-1800	12	1800	+0,-11	1.6
L1774.12-1850	12	1850	+0,-11	1.6
L1774.12-1900	12	1900	+0,-11	1.6
L1774.12-1950	12	1950	+0,-11	1.6
L1774.12-2000	12	2000	+0,-11	1.6
L1774.12-2050	12	2050	+0,-11	1.6
L1774.12-2100	12	2100	+0,-11	1.6
L1774.12-2150	12	2150	+0,-11	1.6
L1774.12-2200	12	2200	+0,-11	1.6
L1774.12-2250	12	2250	+0,-11	1.6
L1774.12-2300	12	2300	+0,-11	1.6
L1774.12-2350	12	2350	+0,-11	1.6
L1774.12-2400	12	2400	+0,-11	1.6
L1774.12-2450	12	2450	+0,-11	1.6
L1774.12-2500	12	2500	+0,-11	1.6
L1774.12-2550	12	2550	+0,-11	1.6
L1774.12-2600	12	2600	+0,-11	1.6
L1774.12-2650	12	2650	+0,-11	1.6
L1774.12-2700	12	2700	+0,-11	1.6
L1774.12-2750	12	2750	+0,-11	1.6
L1774.12-2800	12	2800	+0,-11	1.6
L1774.12-2850	12	2850	+0,-11	1.6
L1774.12-2900	12	2900	+0,-11	1.6
L1774.12-2950	12	2950	+0,-11	1.6
L1774.12-3000	12	3000	+0,-11	1.6
L1774.12-3050	12	3050	+0,-11	1.6
L1774.12-3100	12	3100	+0,-11	1.6
L1774.12-3150	12	3150	+0,-11	1.6
L1774.12-3200	12	3200	+0,-11	1.6
L1774.12-3250	12	3250	+0,-11	1.6
L1774.12-3300	12	3300	+0,-11	1.6
L1774.12-3350	12	3350	+0,-11	1.6
L1774.12-3400	12	3400	+0,-11	1.6
L1774.12-3450	12	3450	+0,-11	1.6
L1774.12-3500	12	3500	+0,-11	1.6
L1774.12-3550	12	3550	+0,-11	1.6
L1774.12-3600	12	3600	+0,-11	1.6
L1774.12-3650	12	3650	+0,-11	1.6
L1774.12-3700	12	3700	+0,-11	1.6
L1774.12-3750	12	3750	+0,-11	1.6
L1774.12-3800	12	3800	+0,-11	1.6
L1774.12-3850	12	3850	+0,-11	1.6
L1774.12-3900	12	3900	+0,-11	1.6
L1774.12-3950	12	3950	+0,-11	1.6
L1774.12-4000	12	4000	+0,-11	1.6
L1774.12-4050	12	4050	+0,-11	1.6
L1774.12-4100	12	4100	+0,-11	1.6
L1774.12-4150	12	4150	+0,-11	1.6
L1774.12-4200	12	4200	+0,-11	1.6
L1774.12-4250	12	4250	+0,-11	1.6
L1774.12-4300	12	4300	+0,-11	1.6
L1774.12-4350	12	4350	+0,-11	1.6
L1774.12-4400	12	4400	+0,-11	1.6
L1774.12-4450	12	4450	+0,-11	1.6
L1774.12-4500	12	4500	+0,-11	1.6
L1774.12-4550	12	4550	+0,-11	1.6
L1774.12-4600	12	4600	+0,-11	1.6
L1774.12-4650	12	4650	+0,-11	1.6
L1774.12-4700	12	4700	+0,-11	1.6
L1774.12-4750	12	4750	+0,-11	1.6
L1774.12-4800	12	4800	+0,-11	1.6
L1774.12-4850	12	4850	+0,-11	1.6
L1774.12-4900	12	4900	+0,-11	1.6

12Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness mm
L1774.12-4950	12	4950	+0,-11	1.6
L1774.12-5000	12	5000	+0,-11	1.6
L1774.12-5050	12	5050	+0,-11	1.6
L1774.12-5100	12	5100	+0,-11	1.6
L1774.12-5150	12	5150	+0,-11	1.6
L1774.12-5200	12	5200	+0,-11	1.6
L1774.12-5250	12	5250	+0,-11	1.6
L1774.12-5300	12	5300	+0,-11	1.6
L1774.12-5350	12	5350	+0,-11	1.6
L1774.12-5400	12	5400	+0,-11	1.6
L1774.12-5450	12	5450	+0,-11	1.6
L1774.12-5500	12	5500	+0,-11	1.6
L1774.12-5550	12	5550	+0,-11	1.6
L1774.12-5600	12	5600	+0,-11	1.6
L1774.12-5650	12	5650	+0,-11	1.6
L1774.12-5700	12	5700	+0,-11	1.6
L1774.12-5750	12	5700	+0,-11	1.6
L1774.12-5800	12	5800	+0,-11	1.6
L1774.12-5850	12	5850	+0,-11	1.6
L1774.12-5900	12	5900	+0,-11	1.6
L1774.12-5950	12	5950	+0,-11	1.6
L1774.12-6000	12	6000	+0,-11	1.6

16Ø Stainless AISI 316 Shafts
soft



L1774.16

Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm^2, tensile strength: >515 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.16-0100	16	100	+0,-11	1.6
L1774.16-0150	16	150	+0,-11	1.6
L1774.16-0200	16	200	+0,-11	1.6
L1774.16-0250	16	250	+0,-11	1.6
L1774.16-0300	16	300	+0,-11	1.6
L1774.16-0350	16	350	+0,-11	1.6
L1774.16-0400	16	400	+0,-11	1.6
L1774.16-0450	16	450	+0,-11	1.6
L1774.16-0500	16	500	+0,-11	1.6
L1774.16-0550	16	550	+0,-11	1.6
L1774.16-0600	16	600	+0,-11	1.6
L1774.16-0650	16	650	+0,-11	1.6
L1774.16-0700	16	700	+0,-11	1.6
L1774.16-0750	16	750	+0,-11	1.6
L1774.16-0800	16	800	+0,-11	1.6
L1774.16-0850	16	850	+0,-11	1.6
L1774.16-0900	16	900	+0,-11	1.6
L1774.16-0950	16	950	+0,-11	1.6
L1774.16-1000	16	1000	+0,-11	1.6
L1774.16-1050	16	1050	+0,-11	1.6
L1774.16-1100	16	1100	+0,-11	1.6
L1774.16-1150	16	1150	+0,-11	1.6
L1774.16-1200	16	1200	+0,-11	1.6
L1774.16-1250	16	1250	+0,-11	1.6
L1774.16-1300	16	1300	+0,-11	1.6
L1774.16-1350	16	1350	+0,-11	1.6
L1774.16-1400	16	1400	+0,-11	1.6
L1774.16-1450	16	1450	+0,-11	1.6
L1774.16-1500	16	1500	+0,-11	1.6

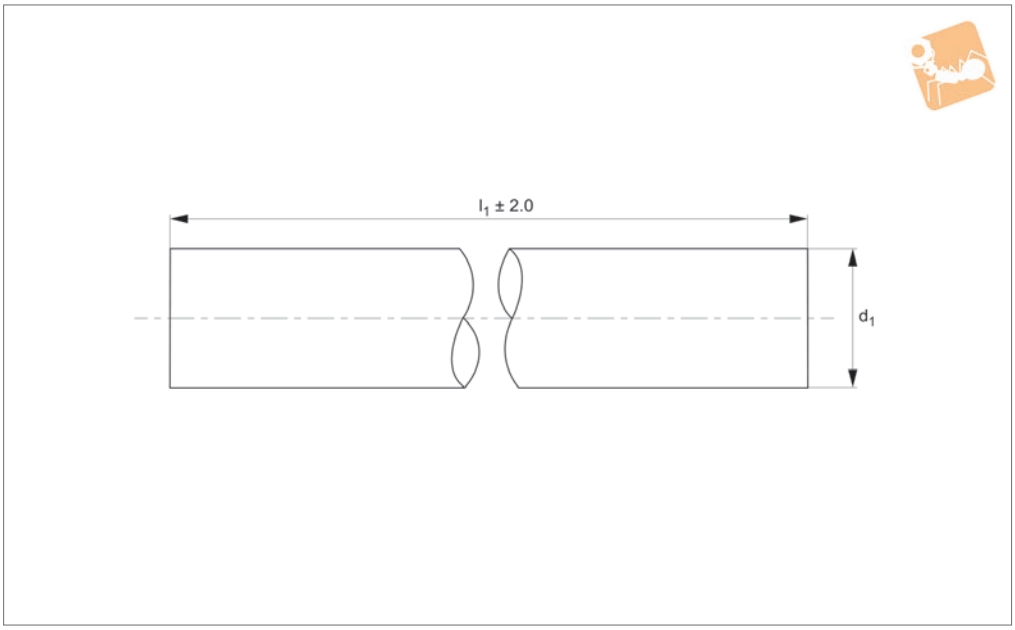
16Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.16-1550	16	1550	+0,-11	1.6
L1774.16-1600	16	1600	+0,-11	1.6
L1774.16-1650	16	1650	+0,-11	1.6
L1774.16-1700	16	1700	+0,-11	1.6
L1774.16-1750	16	1750	+0,-11	1.6
L1774.16-1800	16	1800	+0,-11	1.6
L1774.16-1850	16	1850	+0,-11	1.6
L1774.16-1900	16	1900	+0,-11	1.6
L1774.16-1950	16	1950	+0,-11	1.6
L1774.16-2000	16	2000	+0,-11	1.6
L1774.16-2050	16	2050	+0,-11	1.6
L1774.16-2100	16	2100	+0,-11	1.6
L1774.16-2150	16	2150	+0,-11	1.6
L1774.16-2200	16	2200	+0,-11	1.6
L1774.16-2250	16	2250	+0,-11	1.6
L1774.16-2300	16	2300	+0,-11	1.6
L1774.16-2350	16	2350	+0,-11	1.6
L1774.16-2400	16	2400	+0,-11	1.6
L1774.16-2450	16	2450	+0,-11	1.6
L1774.16-2500	16	2500	+0,-11	1.6
L1774.16-2550	16	2550	+0,-11	1.6
L1774.16-2600	16	2600	+0,-11	1.6
L1774.16-2650	16	2650	+0,-11	1.6
L1774.16-2700	16	2700	+0,-11	1.6
L1774.16-2750	16	2750	+0,-11	1.6
L1774.16-2800	16	2800	+0,-11	1.6
L1774.16-2850	16	2850	+0,-11	1.6
L1774.16-2900	16	2900	+0,-11	1.6
L1774.16-2950	16	2950	+0,-11	1.6
L1774.16-3000	16	3000	+0,-11	1.6
L1774.16-3050	16	3050	+0,-11	1.6
L1774.16-3100	16	3100	+0,-11	1.6
L1774.16-3150	16	3150	+0,-11	1.6
L1774.16-3200	16	3200	+0,-11	1.6
L1774.16-3250	16	3250	+0,-11	1.6
L1774.16-3300	16	3300	+0,-11	1.6
L1774.16-3350	16	3350	+0,-11	1.6
L1774.16-3400	16	3400	+0,-11	1.6
L1774.16-3450	16	3450	+0,-11	1.6
L1774.16-3500	16	3500	+0,-11	1.6
L1774.16-3550	16	3550	+0,-11	1.6
L1774.16-3600	16	3600	+0,-11	1.6
L1774.16-3650	16	3650	+0,-11	1.6
L1774.16-3700	16	3700	+0,-11	1.6
L1774.16-3750	16	3750	+0,-11	1.6
L1774.16-3800	16	3800	+0,-11	1.6
L1774.16-3850	16	3850	+0,-11	1.6
L1774.16-3900	16	3900	+0,-11	1.6
L1774.16-3950	16	3950	+0,-11	1.6
L1774.16-4000	16	4000	+0,-11	1.6
L1774.16-4050	16	4050	+0,-11	1.6
L1774.16-4100	16	4100	+0,-11	1.6
L1774.16-4150	16	4150	+0,-11	1.6
L1774.16-4200	16	4200	+0,-11	1.6
L1774.16-4250	16	4250	+0,-11	1.6
L1774.16-4300	16	4300	+0,-11	1.6
L1774.16-4350	16	4350	+0,-11	1.6
L1774.16-4400	16	4400	+0,-11	1.6
L1774.16-4450	16	4450	+0,-11	1.6
L1774.16-4500	16	4500	+0,-11	1.6
L1774.16-4550	16	4550	+0,-11	1.6
L1774.16-4600	16	4600	+0,-11	1.6
L1774.16-4650	16	4650	+0,-11	1.6
L1774.16-4700	16	4700	+0,-11	1.6
L1774.16-4750	16	4750	+0,-11	1.6
L1774.16-4800	16	4800	+0,-11	1.6
L1774.16-4850	16	4850	+0,-11	1.6
L1774.16-4900	16	4900	+0,-11	1.6

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.16-4950	16	4950	+0,-11	1.6
L1774.16-5000	16	5000	+0,-11	1.6
L1774.16-5050	16	5050	+0,-11	1.6
L1774.16-5100	16	5100	+0,-11	1.6
L1774.16-5150	16	5150	+0,-11	1.6
L1774.16-5200	16	5200	+0,-11	1.6
L1774.16-5250	16	5250	+0,-11	1.6
L1774.16-5300	16	5300	+0,-11	1.6
L1774.16-5350	16	5350	+0,-11	1.6
L1774.16-5400	16	5400	+0,-11	1.6
L1774.16-5450	16	5450	+0,-11	1.6
L1774.16-5500	16	5500	+0,-11	1.6
L1774.16-5550	16	5550	+0,-11	1.6
L1774.16-5600	16	5600	+0,-11	1.6
L1774.16-5650	16	5650	+0,-11	1.6
L1774.16-5700	16	5700	+0,-11	1.6
L1774.16-5750	16	5750	+0,-11	1.6
L1774.16-5800	16	5800	+0,-11	1.6
L1774.16-5850	16	5850	+0,-11	1.6
L1774.16-5900	16	5900	+0,-11	1.6
L1774.16-5950	16	5950	+0,-11	1.6
L1774.16-6000	16	6000	+0,-11	1.6

20Ø Stainless AISI 316 Shafts
soft

L1774.20



Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm², tensile strength: >515 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,2mm/m.

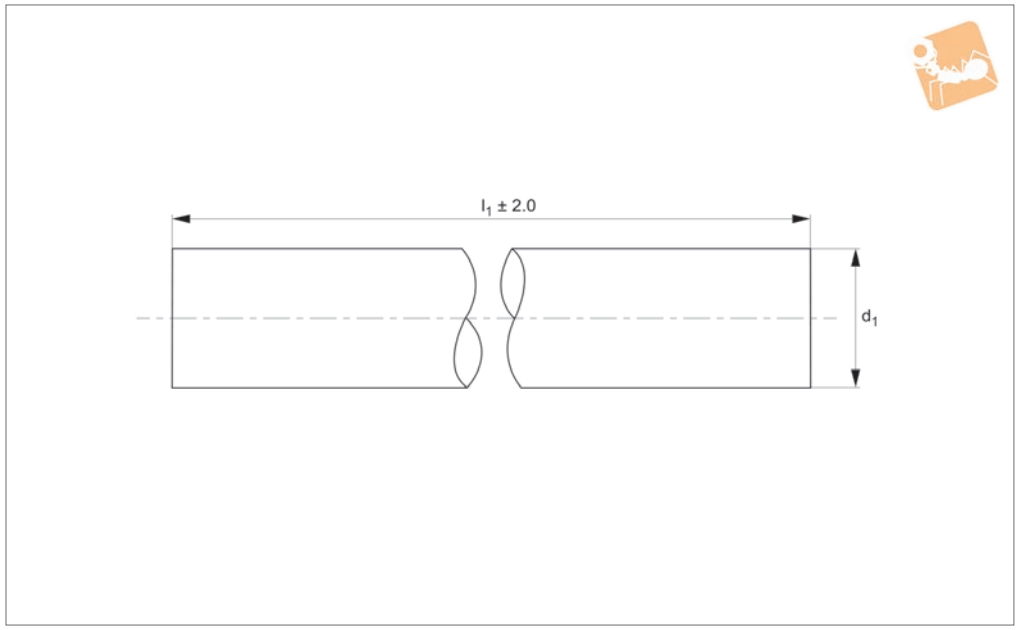
Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.20-0100	20	100	+0,-13	2.2
L1774.20-0150	20	150	+0,-13	2.2
L1774.20-0200	20	200	+0,-13	2.2
L1774.20-0250	20	250	+0,-13	2.2
L1774.20-0300	20	300	+0,-13	2.2
L1774.20-0350	20	350	+0,-13	2.2
L1774.20-0400	20	400	+0,-13	2.2
L1774.20-0450	20	450	+0,-13	2.2
L1774.20-0500	20	500	+0,-13	2.2
L1774.20-0550	20	550	+0,-13	2.2
L1774.20-0600	20	600	+0,-13	2.2
L1774.20-0650	20	650	+0,-13	2.2
L1774.20-0700	20	700	+0,-13	2.2
L1774.20-0750	20	750	+0,-13	2.2
L1774.20-0800	20	800	+0,-13	2.2
L1774.20-0850	20	850	+0,-13	2.2
L1774.20-0900	20	900	+0,-13	2.2
L1774.20-0950	20	950	+0,-13	2.2
L1774.20-1000	20	1000	+0,-13	2.2
L1774.20-1050	20	1050	+0,-13	2.2
L1774.20-1100	20	1100	+0,-13	2.2
L1774.20-1150	20	1150	+0,-13	2.2
L1774.20-1200	20	1200	+0,-13	2.2
L1774.20-1250	20	1250	+0,-13	2.2
L1774.20-1300	20	1300	+0,-13	2.2
L1774.20-1350	20	1350	+0,-13	2.2
L1774.20-1400	20	1400	+0,-13	2.2
L1774.20-1450	20	1450	+0,-13	2.2
L1774.20-1500	20	1500	+0,-13	2.2

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.20-1550	20	1550	+0,-13	2.2
L1774.20-1600	20	1600	+0,-13	2.2
L1774.20-1650	20	1650	+0,-13	2.2
L1774.20-1700	20	1700	+0,-13	2.2
L1774.20-1750	20	1750	+0,-13	2.2
L1774.20-1800	20	1800	+0,-13	2.2
L1774.20-1850	20	1850	+0,-13	2.2
L1774.20-1900	20	1900	+0,-13	2.2
L1774.20-1950	20	1950	+0,-13	2.2
L1774.20-2000	20	2000	+0,-13	2.2
L1774.20-2050	20	2050	+0,-13	2.2
L1774.20-2100	20	2100	+0,-13	2.2
L1774.20-2150	20	2150	+0,-13	2.2
L1774.20-2200	20	2200	+0,-13	2.2
L1774.20-2250	20	2250	+0,-13	2.2
L1774.20-2300	20	2300	+0,-13	2.2
L1774.20-2350	20	2350	+0,-13	2.2
L1774.20-2400	20	2400	+0,-13	2.2
L1774.20-2450	20	2450	+0,-13	2.2
L1774.20-2500	20	2500	+0,-13	2.2
L1774.20-2550	20	2550	+0,-13	2.2
L1774.20-2600	20	2600	+0,-13	2.2
L1774.20-2650	20	2650	+0,-13	2.2
L1774.20-2700	20	2700	+0,-13	2.2
L1774.20-2750	20	2752	+0,-13	2.2
L1774.20-2800	20	2800	+0,-13	2.2
L1774.20-2850	20	2850	+0,-13	2.2
L1774.20-2900	20	2900	+0,-13	2.2
L1774.20-2950	20	2950	+0,-13	2.2
L1774.20-3000	20	3000	+0,-13	2.2
L1774.20-3050	20	3050	+0,-13	2.2
L1774.20-3100	20	3100	+0,-13	2.2
L1774.20-3150	20	3150	+0,-13	2.2
L1774.20-3200	20	3200	+0,-13	2.2
L1774.20-3250	20	3250	+0,-13	2.2
L1774.20-3300	20	3300	+0,-13	2.2
L1774.20-3350	20	3350	+0,-13	2.2
L1774.20-3400	20	3400	+0,-13	2.2
L1774.20-3450	20	3450	+0,-13	2.2
L1774.20-3500	20	3500	+0,-13	2.2
L1774.20-3550	20	3550	+0,-13	2.2
L1774.20-3600	20	3600	+0,-13	2.2
L1774.20-3650	20	3650	+0,-13	2.2
L1774.20-3700	20	3700	+0,-13	2.2
L1774.20-3750	20	3750	+0,-13	2.2
L1774.20-3800	20	3800	+0,-13	2.2
L1774.20-3850	20	3850	+0,-13	2.2
L1774.20-3900	20	3900	+0,-13	2.2
L1774.20-3950	20	3950	+0,-13	2.2
L1774.20-4000	20	4000	+0,-13	2.2
L1774.20-4050	20	4050	+0,-13	2.2
L1774.20-4100	20	4100	+0,-13	2.2
L1774.20-4150	20	4150	+0,-13	2.2
L1774.20-4200	20	4200	+0,-13	2.2
L1774.20-4250	20	4250	+0,-13	2.2
L1774.20-4300	20	4300	+0,-13	2.2
L1774.20-4350	20	4350	+0,-13	2.2
L1774.20-4400	20	4400	+0,-13	2.2
L1774.20-4450	20	4450	+0,-13	2.2
L1774.20-4500	20	4500	+0,-13	2.2
L1774.20-4550	20	4550	+0,-13	2.2
L1774.20-4600	20	4600	+0,-13	2.2
L1774.20-4650	20	4650	+0,-13	2.2
L1774.20-4700	20	4700	+0,-13	2.2
L1774.20-4750	20	4750	+0,-13	2.2
L1774.20-4800	20	4800	+0,-13	2.2
L1774.20-4850	20	4850	+0,-13	2.2
L1774.20-4900	20	4900	+0,-13	2.2

20Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.20-4950	20	4950	+0,-13	2.2
L1774.20-5000	20	5000	+0,-13	2.2
L1774.20-5050	20	5050	+0,-13	2.2
L1774.20-5100	20	5100	+0,-13	2.2
L1774.20-5150	20	5150	+0,-13	2.2
L1774.20-5200	20	5200	+0,-13	2.2
L1774.20-5250	20	5250	+0,-13	2.2
L1774.20-5300	20	5300	+0,-13	2.2
L1774.20-5350	20	5350	+0,-13	2.2
L1774.20-5400	20	5400	+0,-13	2.2
L1774.20-5450	20	5450	+0,-13	2.2
L1774.20-5500	20	5500	+0,-13	2.2
L1774.20-5550	20	5550	+0,-13	2.2
L1774.20-5600	20	5600	+0,-13	2.2
L1774.20-5650	20	5650	+0,-13	2.2
L1774.20-5700	20	5700	+0,-13	2.2
L1774.20-5750	20	5750	+0,-13	2.2
L1774.20-5800	20	5800	+0,-13	2.2
L1774.20-5850	20	5850	+0,-13	2.2
L1774.20-5900	20	5900	+0,-13	2.2
L1774.20-5950	20	5950	+0,-13	2.2
L1774.20-6000	20	6000	+0,-13	2.2



L1774.25

Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm^2, tensile strength: >515 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.25-0100	25	100	+0,-13	2.2
L1774.25-0150	25	150	+0,-13	2.2
L1774.25-0200	25	200	+0,-13	2.2
L1774.25-0250	25	250	+0,-13	2.2
L1774.25-0300	25	300	+0,-13	2.2
L1774.25-0350	25	350	+0,-13	2.2
L1774.25-0400	25	400	+0,-13	2.2
L1774.25-0450	25	450	+0,-13	2.2
L1774.25-0500	25	500	+0,-13	2.2
L1774.25-0550	25	550	+0,-13	2.2
L1774.25-0600	25	600	+0,-13	2.2
L1774.25-0650	25	650	+0,-13	2.2
L1774.25-0700	25	700	+0,-13	2.2
L1774.25-0750	25	750	+0,-13	2.2
L1774.25-0800	25	800	+0,-13	2.2
L1774.25-0850	25	852	+0,-13	2.2
L1774.25-0900	25	900	+0,-13	2.2
L1774.25-0950	25	950	+0,-13	2.2
L1774.25-1000	25	1000	+0,-13	2.2
L1774.25-1050	25	1050	+0,-13	2.2
L1774.25-1100	25	1100	+0,-13	2.2
L1774.25-1150	25	1150	+0,-13	2.2
L1774.25-1200	25	1200	+0,-13	2.2
L1774.25-1250	25	1250	+0,-13	2.2
L1774.25-1300	25	1300	+0,-13	2.2
L1774.25-1350	25	1350	+0,-13	2.2
L1774.25-1400	25	1400	+0,-13	2.2
L1774.25-1450	25	1450	+0,-13	2.2
L1774.25-1500	25	1500	+0,-13	2.2

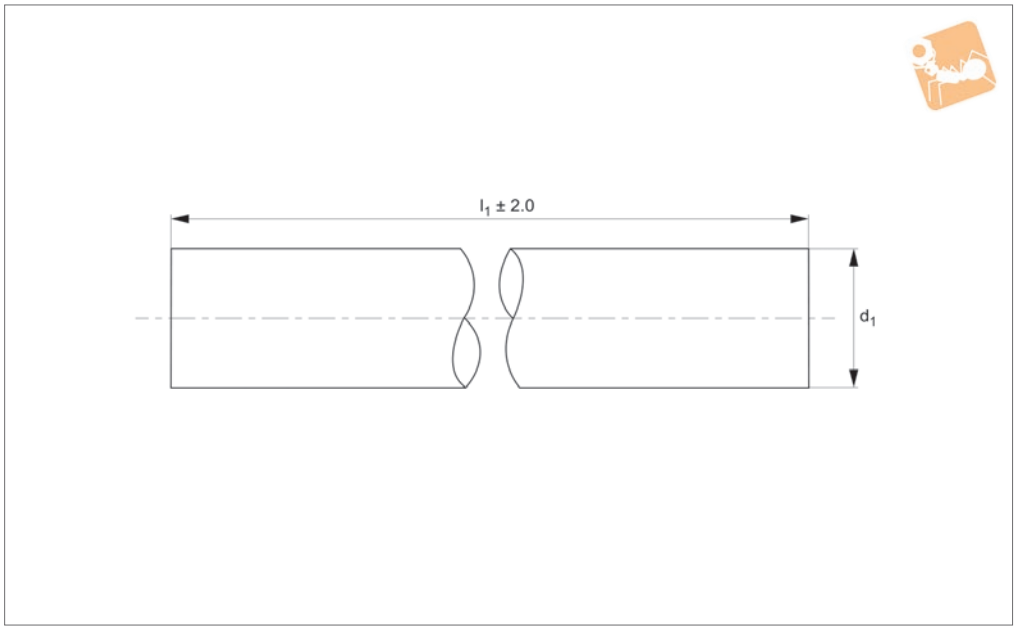
25Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.25-1550	25	1550	+0,-13	2.2
L1774.25-1600	25	1600	+0,-13	2.2
L1774.25-1650	25	1650	+0,-13	2.2
L1774.25-1700	25	1700	+0,-13	2.2
L1774.25-1750	25	1750	+0,-13	2.2
L1774.25-1800	25	1800	+0,-13	2.2
L1774.25-1850	25	1850	+0,-13	2.2
L1774.25-1900	25	1900	+0,-13	2.2
L1774.25-1950	25	1950	+0,-13	2.2
L1774.25-2000	25	2000	+0,-13	2.2
L1774.25-2050	25	2050	+0,-13	2.2
L1774.25-2100	25	2100	+0,-13	2.2
L1774.25-2150	25	2150	+0,-13	2.2
L1774.25-2200	25	2200	+0,-13	2.2
L1774.25-2250	25	2250	+0,-13	2.2
L1774.25-2300	25	2300	+0,-13	2.2
L1774.25-2350	25	2350	+0,-13	2.2
L1774.25-2400	25	2400	+0,-13	2.2
L1774.25-2450	25	2450	+0,-13	2.2
L1774.25-2500	25	2500	+0,-13	2.2
L1774.25-2550	25	2550	+0,-13	2.2
L1774.25-2600	25	2600	+0,-13	2.2
L1774.25-2650	25	2650	+0,-13	2.2
L1774.25-2700	25	2700	+0,-13	2.2
L1774.25-2750	25	2750	+0,-13	2.2
L1774.25-2800	25	2800	+0,-13	2.2
L1774.25-2850	25	2850	+0,-13	2.2
L1774.25-2900	25	2900	+0,-13	2.2
L1774.25-2950	25	2950	+0,-13	2.2
L1774.25-3000	25	3000	+0,-13	2.2
L1774.25-3050	25	3050	+0,-13	2.2
L1774.25-3100	25	3100	+0,-13	2.2
L1774.25-3150	25	3150	+0,-13	2.2
L1774.25-3200	25	3200	+0,-13	2.2
L1774.25-3250	25	3250	+0,-13	2.2
L1774.25-3300	25	3300	+0,-13	2.2
L1774.25-3350	25	3350	+0,-13	2.2
L1774.25-3400	25	3400	+0,-13	2.2
L1774.25-3450	25	3450	+0,-13	2.2
L1774.25-3500	25	3500	+0,-13	2.2
L1774.25-3550	25	3550	+0,-13	2.2
L1774.25-3600	25	3600	+0,-13	2.2
L1774.25-3650	25	3650	+0,-13	2.2
L1774.25-3700	25	3700	+0,-13	2.2
L1774.25-3750	25	3750	+0,-13	2.2
L1774.25-3800	25	3800	+0,-13	2.2
L1774.25-3850	25	3850	+0,-13	2.2
L1774.25-3900	25	3900	+0,-13	2.2
L1774.25-3950	25	3950	+0,-13	2.2
L1774.25-4000	25	4000	+0,-13	2.2
L1774.25-4050	25	4050	+0,-13	2.2
L1774.25-4100	25	4100	+0,-13	2.2
L1774.25-4150	25	4150	+0,-13	2.2
L1774.25-4200	25	4200	+0,-13	2.2
L1774.25-4250	25	4250	+0,-13	2.2
L1774.25-4300	25	4300	+0,-13	2.2
L1774.25-4350	25	4350	+0,-13	2.2
L1774.25-4400	25	4400	+0,-13	2.2
L1774.25-4450	25	4450	+0,-13	2.2
L1774.25-4500	25	4500	+0,-13	2.2
L1774.25-4550	25	4550	+0,-13	2.2
L1774.25-4600	25	4600	+0,-13	2.2
L1774.25-4650	25	4650	+0,-13	2.2
L1774.25-4700	25	4700	+0,-13	2.2
L1774.25-4750	25	4750	+0,-13	2.2
L1774.25-4800	25	4800	+0,-13	2.2
L1774.25-4850	25	4850	+0,-13	2.2
L1774.25-4900	25	4900	+0,-13	2.2

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.25-4950	25	4950	+0,-13	2.2
L1774.25-5000	25	5000	+0,-13	2.2
L1774.25-5050	25	5050	+0,-13	2.2
L1774.25-5100	25	5100	+0,-13	2.2
L1774.25-5150	25	5150	+0,-13	2.2
L1774.25-5200	25	5200	+0,-13	2.2
L1774.25-5250	25	5250	+0,-13	2.2
L1774.25-5300	25	5300	+0,-13	2.2
L1774.25-5350	25	5350	+0,-13	2.2
L1774.25-5400	25	5400	+0,-13	2.2
L1774.25-5450	25	5450	+0,-13	2.2
L1774.25-5500	25	5500	+0,-13	2.2
L1774.25-5550	25	5550	+0,-13	2.2
L1774.25-5600	25	5600	+0,-13	2.2
L1774.25-5650	25	5650	+0,-13	2.2
L1774.25-5700	25	5700	+0,-13	2.2
L1774.25-5750	25	5750	+0,-13	2.2
L1774.25-5800	25	5800	+0,-13	2.2
L1774.25-5850	25	5850	+0,-13	2.2
L1774.25-5900	25	5900	+0,-13	2.2
L1774.25-5950	25	5950	+0,-13	2.2
L1774.25-6000	25	6000	+0,-13	2.2

30Ø Stainless AISI 316 Shafts
soft

L1774.30



Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm², tensile strength: >515 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

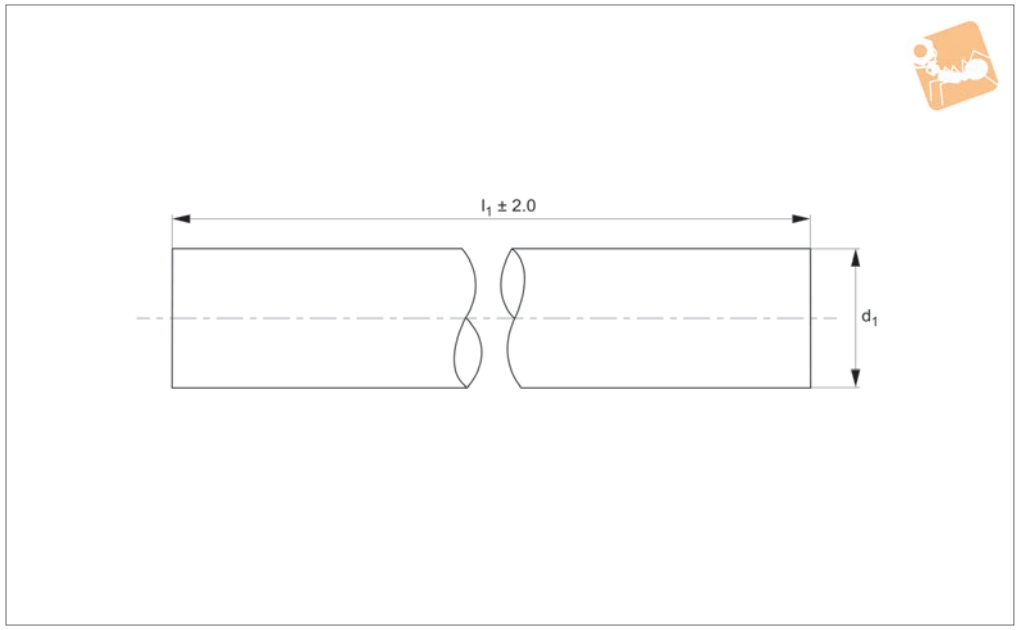
Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.30-0100	30	100	+0,-13	2.2
L1774.30-0150	30	150	+0,-13	2.2
L1774.30-0200	30	200	+0,-13	2.2
L1774.30-0250	30	250	+0,-13	2.2
L1774.30-0300	30	300	+0,-13	2.2
L1774.30-0350	30	350	+0,-13	2.2
L1774.30-0400	30	400	+0,-13	2.2
L1774.30-0450	30	450	+0,-13	2.2
L1774.30-0500	30	500	+0,-13	2.2
L1774.30-0550	30	550	+0,-13	2.2
L1774.30-0600	30	600	+0,-13	2.2
L1774.30-0650	30	650	+0,-13	2.2
L1774.30-0700	30	700	+0,-13	2.2
L1774.30-0750	30	750	+0,-13	2.2
L1774.30-0800	30	800	+0,-13	2.2
L1774.30-0850	30	850	+0,-13	2.2
L1774.30-0900	30	900	+0,-13	2.2
L1774.30-0950	30	950	+0,-13	2.2
L1774.30-1000	30	1000	+0,-13	2.2
L1774.30-1050	30	1050	+0,-13	2.2
L1774.30-1100	30	1100	+0,-13	2.2
L1774.30-1150	30	1150	+0,-13	2.2
L1774.30-1200	30	1200	+0,-13	2.2
L1774.30-1250	30	1250	+0,-13	2.2
L1774.30-1300	30	1300	+0,-13	2.2
L1774.30-1350	30	1350	+0,-13	2.2
L1774.30-1400	30	1400	+0,-13	2.2
L1774.30-1450	30	1450	+0,-13	2.2
L1774.30-1500	30	1500	+0,-13	2.2

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.30-1550	30	1550	+0,-13	2.2
L1774.30-1600	30	1600	+0,-13	2.2
L1774.30-1650	30	1650	+0,-13	2.2
L1774.30-1700	30	1700	+0,-13	2.2
L1774.30-1750	30	1750	+0,-13	2.2
L1774.30-1800	30	1800	+0,-13	2.2
L1774.30-1850	30	1850	+0,-13	2.2
L1774.30-1900	30	1900	+0,-13	2.2
L1774.30-1950	30	1950	+0,-13	2.2
L1774.30-2000	30	2000	+0,-13	2.2
L1774.30-2050	30	2050	+0,-13	2.2
L1774.30-2100	30	2100	+0,-13	2.2
L1774.30-2150	30	2150	+0,-13	2.2
L1774.30-2200	30	2200	+0,-13	2.2
L1774.30-2250	30	2250	+0,-13	2.2
L1774.30-2300	30	2300	+0,-13	2.2
L1774.30-2350	30	2350	+0,-13	2.2
L1774.30-2400	30	2400	+0,-13	2.2
L1774.30-2450	30	2450	+0,-13	2.2
L1774.30-2500	30	2500	+0,-13	2.2
L1774.30-2550	30	2550	+0,-13	2.2
L1774.30-2600	30	2600	+0,-13	2.2
L1774.30-2650	30	2650	+0,-13	2.2
L1774.30-2700	30	2700	+0,-13	2.2
L1774.30-2750	30	2750	+0,-13	2.2
L1774.30-2800	30	2800	+0,-13	2.2
L1774.30-2850	30	2850	+0,-13	2.2
L1774.30-2900	30	2900	+0,-13	2.2
L1774.30-2950	30	2950	+0,-13	2.2
L1774.30-3000	30	3000	+0,-13	2.2
L1774.30-3050	30	3050	+0,-13	2.2
L1774.30-3100	30	3100	+0,-13	2.2
L1774.30-3150	30	3150	+0,-13	2.2
L1774.30-3200	30	3200	+0,-13	2.2
L1774.30-3250	30	3250	+0,-13	2.2
L1774.30-3300	30	3300	+0,-13	2.2
L1774.30-3350	30	3350	+0,-13	2.2
L1774.30-3400	30	3400	+0,-13	2.2
L1774.30-3450	30	3450	+0,-13	2.2
L1774.30-3500	30	3500	+0,-13	2.2
L1774.30-3550	30	3550	+0,-13	2.2
L1774.30-3600	30	3600	+0,-13	2.2
L1774.30-3650	30	3650	+0,-13	2.2
L1774.30-3700	30	3700	+0,-13	2.2
L1774.30-3750	30	3750	+0,-13	2.2
L1774.30-3800	30	3800	+0,-13	2.2
L1774.30-3850	30	3850	+0,-13	2.2
L1774.30-3900	30	3900	+0,-13	2.2
L1774.30-3950	30	3950	+0,-13	2.2
L1774.30-4000	30	4000	+0,-13	2.2
L1774.30-4050	30	4050	+0,-13	2.2
L1774.30-4100	30	4100	+0,-13	2.2
L1774.30-4150	30	4150	+0,-13	2.2
L1774.30-4200	30	4200	+0,-13	2.2
L1774.30-4250	30	4250	+0,-13	2.2
L1774.30-4300	30	4300	+0,-13	2.2
L1774.30-4350	30	4350	+0,-13	2.2
L1774.30-4400	30	4400	+0,-13	2.2
L1774.30-4450	30	4450	+0,-13	2.2
L1774.30-4500	30	4500	+0,-13	2.2
L1774.30-4550	30	4550	+0,-13	2.2
L1774.30-4600	30	4600	+0,-13	2.2
L1774.30-4650	30	4650	+0,-13	2.2
L1774.30-4700	30	4700	+0,-13	2.2
L1774.30-4750	30	4750	+0,-13	2.2
L1774.30-4800	30	4800	+0,-13	2.2
L1774.30-4850	30	4850	+0,-13	2.2
L1774.30-4900	30	4900	+0,-13	2.2

30Ø Stainless AISI 316 Shafts
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.30-4950	30	4950	+0,-13	2.2
L1774.30-5000	30	5000	+0,-13	2.2
L1774.30-5050	30	5050	+0,-13	2.2
L1774.30-5100	30	5100	+0,-13	2.2
L1774.30-5150	30	5150	+0,-13	2.2
L1774.30-5200	30	5200	+0,-13	2.2
L1774.30-5250	30	5250	+0,-13	2.2
L1774.30-5300	30	5300	+0,-13	2.2
L1774.30-5350	30	5350	+0,-13	2.2
L1774.30-5400	30	5400	+0,-13	2.2
L1774.30-5450	30	5450	+0,-13	2.2
L1774.30-5500	30	5500	+0,-13	2.2
L1774.30-5550	30	5550	+0,-13	2.2
L1774.30-5600	30	5600	+0,-13	2.2
L1774.30-5650	30	5650	+0,-13	2.2
L1774.30-5700	30	5700	+0,-13	2.2
L1774.30-5750	30	5750	+0,-13	2.2
L1774.30-5800	30	5800	+0,-13	2.2
L1774.30-5850	30	5850	+0,-13	2.2
L1774.30-5900	30	5900	+0,-13	2.2
L1774.30-5950	30	5950	+0,-13	2.2
L1774.30-6000	30	6000	+0,-13	2.2



L1774.40

Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm^2, tensile strength: >515 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.40-0100	40	100	+0,-16	3.5
L1774.40-0150	40	150	+0,-16	3.5
L1774.40-0200	40	200	+0,-16	3.5
L1774.40-0250	40	250	+0,-16	3.5
L1774.40-0300	40	300	+0,-16	3.5
L1774.40-0350	40	350	+0,-16	3.5
L1774.40-0400	40	400	+0,-16	3.5
L1774.40-0450	40	450	+0,-16	3.5
L1774.40-0500	40	500	+0,-16	3.5
L1774.40-0550	40	550	+0,-16	3.5
L1774.40-0600	40	600	+0,-16	3.5
L1774.40-0650	40	650	+0,-16	3.5
L1774.40-0700	40	700	+0,-16	3.5
L1774.40-0750	40	750	+0,-16	3.5
L1774.40-0800	40	800	+0,-16	3.5
L1774.40-0850	40	850	+0,-16	3.5
L1774.40-0900	40	900	+0,-16	3.5
L1774.40-0950	40	950	+0,-16	3.5
L1774.40-1000	40	1000	+0,-16	3.5
L1774.40-1050	40	1050	+0,-16	3.5
L1774.40-1100	40	1100	+0,-16	3.5
L1774.40-1150	40	1150	+0,-16	3.5
L1774.40-1200	40	1200	+0,-16	3.5
L1774.40-1250	40	1250	+0,-16	3.5
L1774.40-1300	40	1300	+0,-16	3.5
L1774.40-1350	40	1350	+0,-16	3.5
L1774.40-1400	40	1400	+0,-16	3.5
L1774.40-1450	40	1450	+0,-16	3.5
L1774.40-1500	40	1500	+0,-16	3.5

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soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.40-1550	40	1550	+0,-16	3.5
L1774.40-1600	40	1600	+0,-16	3.5
L1774.40-1650	40	1650	+0,-16	3.5
L1774.40-1700	40	1700	+0,-16	3.5
L1774.40-1750	40	1750	+0,-16	3.5
L1774.40-1800	40	1800	+0,-16	3.5
L1774.40-1850	40	1850	+0,-16	3.5
L1774.40-1900	40	1900	+0,-16	3.5
L1774.40-1950	40	1950	+0,-16	3.5
L1774.40-2000	40	2000	+0,-16	3.5
L1774.40-2050	40	2050	+0,-16	3.5
L1774.40-2100	40	2100	+0,-16	3.5
L1774.40-2150	40	2150	+0,-16	3.5
L1774.40-2200	40	2200	+0,-16	3.5
L1774.40-2250	40	2250	+0,-16	3.5
L1774.40-2300	40	2300	+0,-16	3.5
L1774.40-2350	40	2350	+0,-16	3.5
L1774.40-2400	40	2400	+0,-16	3.5
L1774.40-2450	40	2450	+0,-16	3.5
L1774.40-2500	40	2500	+0,-16	3.5
L1774.40-2550	40	2550	+0,-16	3.5
L1774.40-2600	40	2600	+0,-16	3.5
L1774.40-2650	40	2650	+0,-16	3.5
L1774.40-2700	40	2700	+0,-16	3.5
L1774.40-2750	40	2750	+0,-16	3.5
L1774.40-2800	40	2800	+0,-16	3.5
L1774.40-2850	40	2850	+0,-16	3.5
L1774.40-2900	40	2900	+0,-16	3.5
L1774.40-2950	40	2950	+0,-16	3.5
L1774.40-3000	40	3000	+0,-16	3.5
L1774.40-3050	40	3050	+0,-16	3.5
L1774.40-3100	40	3100	+0,-16	3.5
L1774.40-3150	40	3150	+0,-16	3.5
L1774.40-3200	40	3200	+0,-16	3.5
L1774.40-3250	40	3250	+0,-16	3.5
L1774.40-3300	40	3300	+0,-16	3.5
L1774.40-3350	40	3350	+0,-16	3.5
L1774.40-3400	40	3400	+0,-16	3.5
L1774.40-3450	40	3450	+0,-16	3.5
L1774.40-3500	40	3500	+0,-16	3.5
L1774.40-3550	40	3550	+0,-16	3.5
L1774.40-3600	40	3600	+0,-16	3.5
L1774.40-3650	40	3650	+0,-16	3.5
L1774.40-3700	40	3700	+0,-16	3.5
L1774.40-3750	40	3750	+0,-16	3.5
L1774.40-3800	40	3800	+0,-16	3.5
L1774.40-3850	40	3850	+0,-16	3.5
L1774.40-3900	40	3900	+0,-16	3.5
L1774.40-3950	40	3950	+0,-16	3.5
L1774.40-4000	40	4000	+0,-16	3.5
L1774.40-4050	40	4050	+0,-16	3.5
L1774.40-4100	40	4100	+0,-16	3.5
L1774.40-4150	40	4150	+0,-16	3.5
L1774.40-4200	40	4200	+0,-16	3.5
L1774.40-4250	40	4250	+0,-16	3.5
L1774.40-4300	40	4300	+0,-16	3.5
L1774.40-4350	40	4350	+0,-16	3.5
L1774.40-4400	40	4400	+0,-16	3.5
L1774.40-4450	40	4450	+0,-16	3.5
L1774.40-4500	40	4500	+0,-16	3.5
L1774.40-4550	40	4550	+0,-16	3.5
L1774.40-4600	40	4600	+0,-16	3.5
L1774.40-4650	40	4650	+0,-16	3.5
L1774.40-4700	40	4700	+0,-16	3.5
L1774.40-4750	40	4750	+0,-16	3.5
L1774.40-4800	40	4800	+0,-16	3.5
L1774.40-4850	40	4850	+0,-16	3.5
L1774.40-4900	40	4900	+0,-16	3.5

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.40-4950	40	4950	+0,-16	3.5
L1774.40-5000	40	5000	+0,-16	3.5
L1774.40-5050	40	5050	+0,-16	3.5
L1774.40-5100	40	5100	+0,-16	3.5
L1774.40-5150	40	5150	+0,-16	3.5
L1774.40-5200	40	5200	+0,-16	3.5
L1774.40-5250	40	5250	+0,-16	3.5
L1774.40-5300	40	5300	+0,-16	3.5
L1774.40-5350	40	5350	+0,-16	3.5
L1774.40-5400	40	5400	+0,-16	3.5
L1774.40-5450	40	5450	+0,-16	3.5
L1774.40-5500	40	5500	+0,-16	3.5
L1774.40-5550	40	5550	+0,-16	3.5
L1774.40-5600	40	5600	+0,-16	3.5
L1774.40-5650	40	5650	+0,-16	3.5
L1774.40-5700	40	5700	+0,-16	3.5
L1774.40-5750	40	5750	+0,-16	3.5
L1774.40-5800	40	5800	+0,-16	3.5
L1774.40-5850	40	5850	+0,-16	3.5
L1774.40-5900	40	5900	+0,-16	3.5
L1774.40-5950	40	5950	+0,-16	3.5
L1774.40-6000	40	6000	+0,-16	3.5

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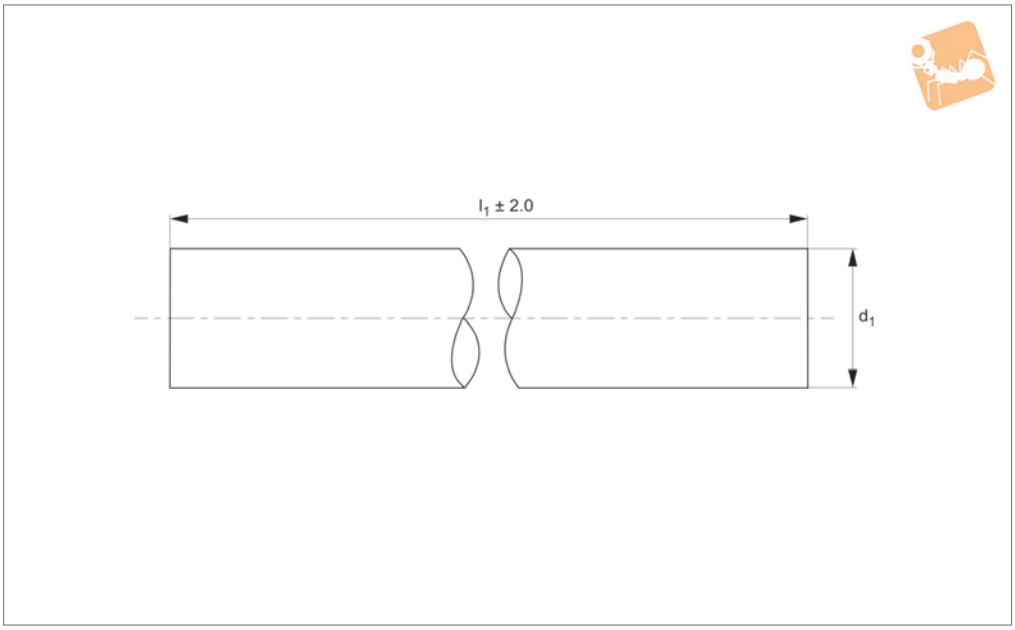
soft

L1774.50



Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm², tensile strength: >515 N/mm².

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.50-0100	50	100	+0,-16	3.5
L1774.50-0150	50	150	+0,-16	3.5
L1774.50-0200	50	200	+0,-16	3.5
L1774.50-0250	50	250	+0,-16	3.5
L1774.50-0300	50	300	+0,-16	3.5
L1774.50-0350	50	350	+0,-16	3.5
L1774.50-0400	50	400	+0,-16	3.5
L1774.50-0450	50	450	+0,-16	3.5
L1774.50-0500	50	500	+0,-16	3.5
L1774.50-0550	50	550	+0,-16	3.5
L1774.50-0600	50	600	+0,-16	3.5
L1774.50-0650	50	650	+0,-16	3.5
L1774.50-0700	50	700	+0,-16	3.5
L1774.50-0750	50	750	+0,-16	3.5
L1774.50-0800	50	800	+0,-16	3.5
L1774.50-0850	50	850	+0,-16	3.5
L1774.50-0900	50	900	+0,-16	3.5
L1774.50-1000	50	1000	+0,-16	3.5
L1774.50-1050	50	1050	+0,-16	3.5
L1774.50-1100	50	1100	+0,-16	3.5
L1774.50-1150	50	1150	+0,-16	3.5
L1774.50-1200	50	1200	+0,-16	3.5
L1774.50-1250	50	1250	+0,-16	3.5
L1774.50-1300	50	1300	+0,-16	3.5
L1774.50-1350	50	1350	+0,-16	3.5
L1774.50-1400	50	1400	+0,-16	3.5
L1774.50-1450	50	1450	+0,-16	3.5
L1774.50-1500	50	1500	+0,-16	3.5
L1774.50-1550	50	1550	+0,-16	3.5

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.50-1600	50	1600	+0,-16	3.5
L1774.50-1650	50	1650	+0,-16	3.5
L1774.50-1700	50	1700	+0,-16	3.5
L1774.50-1750	50	1750	+0,-16	3.5
L1774.50-1800	50	1800	+0,-16	3.5
L1774.50-1850	50	1850	+0,-16	3.5
L1774.50-1900	50	1900	+0,-16	3.5
L1774.50-1950	50	1950	+0,-16	3.5
L1774.50-2000	50	2000	+0,-16	3.5
L1774.50-2050	50	2050	+0,-16	3.5
L1774.50-2100	50	2100	+0,-16	3.5
L1774.50-2150	50	2150	+0,-16	3.5
L1774.50-2200	50	2200	+0,-16	3.5
L1774.50-2250	50	2250	+0,-16	3.5
L1774.50-2300	50	2300	+0,-16	3.5
L1774.50-2350	50	2350	+0,-16	3.5
L1774.50-2400	50	2400	+0,-16	3.5
L1774.50-2450	50	2450	+0,-16	3.5
L1774.50-2500	50	2500	+0,-16	3.5
L1774.50-2550	50	2550	+0,-16	3.5
L1774.50-2600	50	2600	+0,-16	3.5
L1774.50-2650	50	2650	+0,-16	3.5
L1774.50-2700	50	2700	+0,-16	3.5
L1774.50-2750	50	2750	+0,-16	3.5
L1774.50-2800	50	2800	+0,-16	3.5
L1774.50-2850	50	2850	+0,-16	3.5
L1774.50-2900	50	2900	+0,-16	3.5
L1774.50-2950	50	2950	+0,-16	3.5
L1774.50-3000	50	3000	+0,-16	3.5
L1774.50-3050	50	3050	+0,-16	3.5
L1774.50-3100	50	3100	+0,-16	3.5
L1774.50-3150	50	3150	+0,-16	3.5
L1774.50-3200	50	3200	+0,-16	3.5
L1774.50-3250	50	3250	+0,-16	3.5
L1774.50-3300	50	3300	+0,-16	3.5
L1774.50-3350	50	3350	+0,-16	3.5
L1774.50-3400	50	3400	+0,-16	3.5
L1774.50-3450	50	3450	+0,-16	3.5
L1774.50-3500	50	3500	+0,-16	3.5
L1774.50-3550	50	3550	+0,-16	3.5
L1774.50-3600	50	3600	+0,-16	3.5
L1774.50-3650	50	3650	+0,-16	3.5
L1774.50-3700	50	3700	+0,-16	3.5
L1774.50-3750	50	3750	+0,-16	3.5
L1774.50-3800	50	3800	+0,-16	3.5
L1774.50-3850	50	3850	+0,-16	3.5
L1774.50-3900	50	3900	+0,-16	3.5
L1774.50-3950	50	3950	+0,-16	3.5
L1774.50-4000	50	4000	+0,-16	3.5
L1774.50-4050	50	4050	+0,-16	3.5
L1774.50-4100	50	4100	+0,-16	3.5
L1774.50-4150	50	4150	+0,-16	3.5
L1774.50-4200	50	4200	+0,-16	3.5
L1774.50-4250	50	4250	+0,-16	3.5
L1774.50-4300	50	4300	+0,-16	3.5
L1774.50-4350	50	4350	+0,-16	3.5
L1774.50-4400	50	4400	+0,-16	3.5
L1774.50-4450	50	4450	+0,-16	3.5
L1774.50-4500	50	4500	+0,-16	3.5
L1774.50-4550	50	4550	+0,-16	3.5
L1774.50-4600	50	4600	+0,-16	3.5
L1774.50-4650	50	4650	+0,-16	3.5
L1774.50-4700	50	4700	+0,-16	3.5
L1774.50-4750	50	4750	+0,-16	3.5
L1774.50-4800	50	4800	+0,-16	3.5
L1774.50-4850	50	4850	+0,-16	3.5
L1774.50-4900	50	4900	+0,-16	3.5
L1774.50-4950	50	4950	+0,-16	3.5

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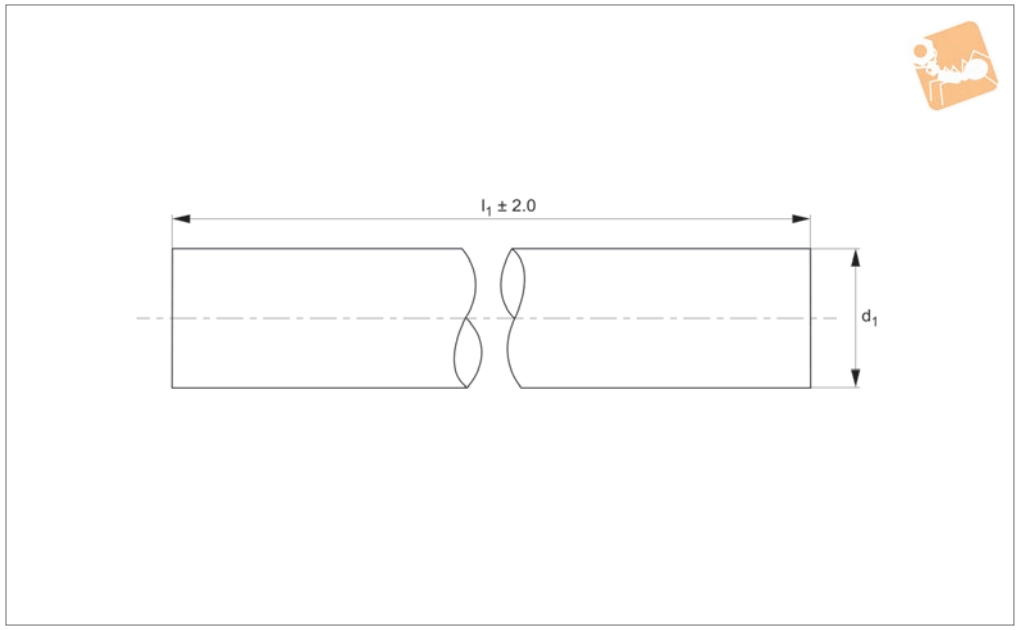
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.50-5000	50	5000	+0,-16	3.5
L1774.50-5050	50	5050	+0,-16	3.5
L1774.50-5100	50	5100	+0,-16	3.5
L1774.50-5150	50	5150	+0,-16	3.5
L1774.50-5200	50	5200	+0,-16	3.5
L1774.50-5250	50	5250	+0,-16	3.5
L1774.50-5300	50	5300	+0,-16	3.5
L1774.50-5350	50	5350	+0,-16	3.5
L1774.50-5400	50	5400	+0,-16	3.5
L1774.50-5450	50	5450	+0,-16	3.5
L1774.50-5500	50	5500	+0,-16	3.5
L1774.50-5550	50	5550	+0,-16	3.5
L1774.50-5600	50	5600	+0,-16	3.5
L1774.50-5650	50	5650	+0,-16	3.5
L1774.50-5700	50	5700	+0,-16	3.5
L1774.50-5750	50	5750	+0,-16	3.5
L1774.50-5800	50	5800	+0,-16	3.5
L1774.50-5850	50	5850	+0,-16	3.5
L1774.50-5900	50	5900	+0,-16	3.5
L1774.50-5950	50	5950	+0,-16	3.5
L1774.50-6000	50	6000	+0,-16	3.5



L1774.60

Material
Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >205 N/mm^2, tensile strength: >515 N/mm^2.

Technical Notes
Tolerance, h6 standard, other tolerances on request.
Straightness 0,1mm/m.

Tips
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.
To be used with ceramic or other bearings not containing hardened ball bearings.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6	Depth of hardness
L1774.60-0100	60	100	+0,-19	3.5
L1774.60-0150	60	150	+0,-19	3.5
L1774.60-0200	60	200	+0,-19	3.5
L1774.60-0250	60	250	+0,-19	3.5
L1774.60-0300	60	300	+0,-19	3.5
L1774.60-0350	60	350	+0,-19	3.5
L1774.60-0400	60	400	+0,-19	3.5
L1774.60-0450	60	450	+0,-19	3.5
L1774.60-0500	60	500	+0,-19	3.5
L1774.60-0550	60	550	+0,-19	3.5
L1774.60-0600	60	600	+0,-19	3.5
L1774.60-0650	60	650	+0,-19	3.5
L1774.60-0700	60	700	+0,-19	3.5
L1774.60-0750	60	750	+0,-19	3.5
L1774.60-0800	60	800	+0,-19	3.5
L1774.60-0850	60	850	+0,-19	3.5
L1774.60-0900	60	900	+0,-19	3.5
L1774.60-0950	60	950	+0,-19	3.5
L1774.60-1000	60	1000	+0,-19	3.5
L1774.60-1050	60	1050	+0,-19	3.5
L1774.60-1100	60	1100	+0,-19	3.5
L1774.60-1150	60	1150	+0,-19	3.5
L1774.60-1200	60	1200	+0,-19	3.5
L1774.60-1250	60	1250	+0,-19	3.5
L1774.60-1300	60	1300	+0,-19	3.5
L1774.60-1350	60	1350	+0,-19	3.5
L1774.60-1400	60	1400	+0,-19	3.5
L1774.60-1450	60	1450	+0,-19	3.5
L1774.60-1500	60	1500	+0,-19	3.5

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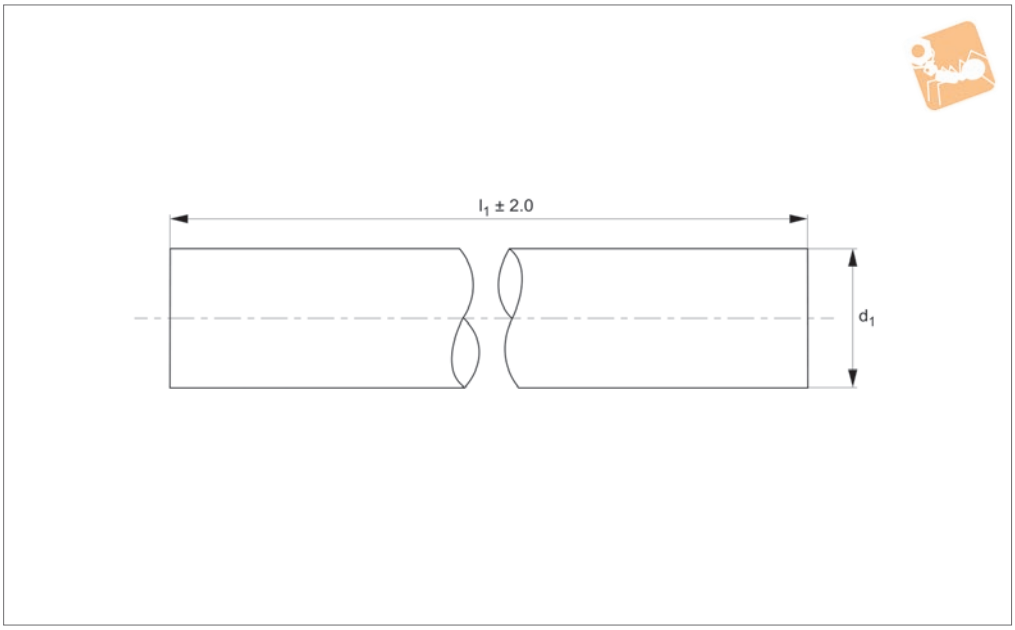
soft

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.60-1550	60	1550	+0,-19	3.5
L1774.60-1600	60	1600	+0,-19	3.5
L1774.60-1650	60	1650	+0,-19	3.5
L1774.60-1700	60	1700	+0,-19	3.5
L1774.60-1750	60	1750	+0,-19	3.5
L1774.60-1800	60	1800	+0,-19	3.5
L1774.60-1850	60	1850	+0,-19	3.5
L1774.60-1900	60	1900	+0,-19	3.5
L1774.60-1950	60	1950	+0,-19	3.5
L1774.60-2000	60	2000	+0,-19	3.5
L1774.60-2050	60	2050	+0,-19	3.5
L1774.60-2100	60	2100	+0,-19	3.5
L1774.60-2150	60	2150	+0,-19	3.5
L1774.60-2200	60	2200	+0,-19	3.5
L1774.60-2250	60	2250	+0,-19	3.5
L1774.60-2300	60	2300	+0,-19	3.5
L1774.60-2350	60	2350	+0,-19	3.5
L1774.60-2400	60	2400	+0,-19	3.5
L1774.60-2450	60	2450	+0,-19	3.5
L1774.60-2500	60	2500	+0,-19	3.5
L1774.60-2550	60	2550	+0,-19	3.5
L1774.60-2600	60	2600	+0,-19	3.5
L1774.60-2650	60	2650	+0,-19	3.5
L1774.60-2700	60	2700	+0,-19	3.5
L1774.60-2750	60	2750	+0,-19	3.5
L1774.60-2800	60	2800	+0,-19	3.5
L1774.60-2850	60	2850	+0,-19	3.5
L1774.60-2900	60	2900	+0,-19	3.5
L1774.60-2950	60	2950	+0,-19	3.5
L1774.60-3000	60	3000	+0,-19	3.5
L1774.60-3050	60	3050	+0,-19	3.5
L1774.60-3100	60	3100	+0,-19	3.5
L1774.60-3150	60	3150	+0,-19	3.5
L1774.60-3200	60	3200	+0,-19	3.5
L1774.60-3250	60	3250	+0,-19	3.5
L1774.60-3300	60	3300	+0,-19	3.5
L1774.60-3350	60	3350	+0,-19	3.5
L1774.60-3400	60	3400	+0,-19	3.5
L1774.60-3450	60	3450	+0,-19	3.5
L1774.60-3500	60	3500	+0,-19	3.5
L1774.60-3550	60	3550	+0,-19	3.5
L1774.60-3600	60	3600	+0,-19	3.5
L1774.60-3650	60	3650	+0,-19	3.5
L1774.60-3700	60	3700	+0,-19	3.5
L1774.60-3750	60	3750	+0,-19	3.5
L1774.60-3800	60	3800	+0,-19	3.5
L1774.60-3850	60	3850	+0,-19	3.5
L1774.60-3900	60	3900	+0,-19	3.5
L1774.60-3950	60	3950	+0,-19	3.5
L1774.60-4000	60	4000	+0,-19	3.5
L1774.60-4050	60	4050	+0,-19	3.5
L1774.60-4100	60	4100	+0,-19	3.5
L1774.60-4150	60	4150	+0,-19	3.5
L1774.60-4200	60	4200	+0,-19	3.5
L1774.60-4250	60	4250	+0,-19	3.5
L1774.60-4300	60	4300	+0,-19	3.5
L1774.60-4350	60	4350	+0,-19	3.5
L1774.60-4400	60	4400	+0,-19	3.5
L1774.60-4450	60	4450	+0,-19	3.5
L1774.60-4500	60	4500	+0,-19	3.5
L1774.60-4550	60	4550	+0,-19	3.5
L1774.60-4600	60	4600	+0,-19	3.5
L1774.60-4650	60	4650	+0,-19	3.5
L1774.60-4700	60	4700	+0,-19	3.5
L1774.60-4750	60	4750	+0,-19	3.5
L1774.60-4800	60	4800	+0,-19	3.5
L1774.60-4850	60	4850	+0,-19	3.5
L1774.60-4900	60	4900	+0,-19	3.5

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.60-4950	60	4950	+0,-19	3.5
L1774.60-5000	60	5000	+0,-19	3.5
L1774.60-5050	60	5050	+0,-19	3.5
L1774.60-5100	60	5100	+0,-19	3.5
L1774.60-5150	60	5150	+0,-19	3.5
L1774.60-5200	60	5200	+0,-19	3.5
L1774.60-5250	60	5250	+0,-19	3.5
L1774.60-5300	60	5300	+0,-19	3.5
L1774.60-5350	60	5350	+0,-19	3.5
L1774.60-5400	60	5400	+0,-19	3.5
L1774.60-5450	60	5450	+0,-19	3.5
L1774.60-5500	60	5500	+0,-19	3.5
L1774.60-5550	60	5550	+0,-19	3.5
L1774.60-5600	60	5600	+0,-19	3.5
L1774.60-5650	60	5650	+0,-19	3.5
L1774.60-5700	60	5700	+0,-19	3.5
L1774.60-5750	60	5750	+0,-19	3.5
L1774.60-5800	60	5800	+0,-19	3.5
L1774.60-5850	60	5850	+0,-19	3.5
L1774.60-5900	60	5900	+0,-19	3.5
L1774.60-5950	60	5950	+0,-19	3.5
L1774.60-6000	60	6000	+0,-19	3.5

8Ø Aluminium Shafts

L1778.08



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

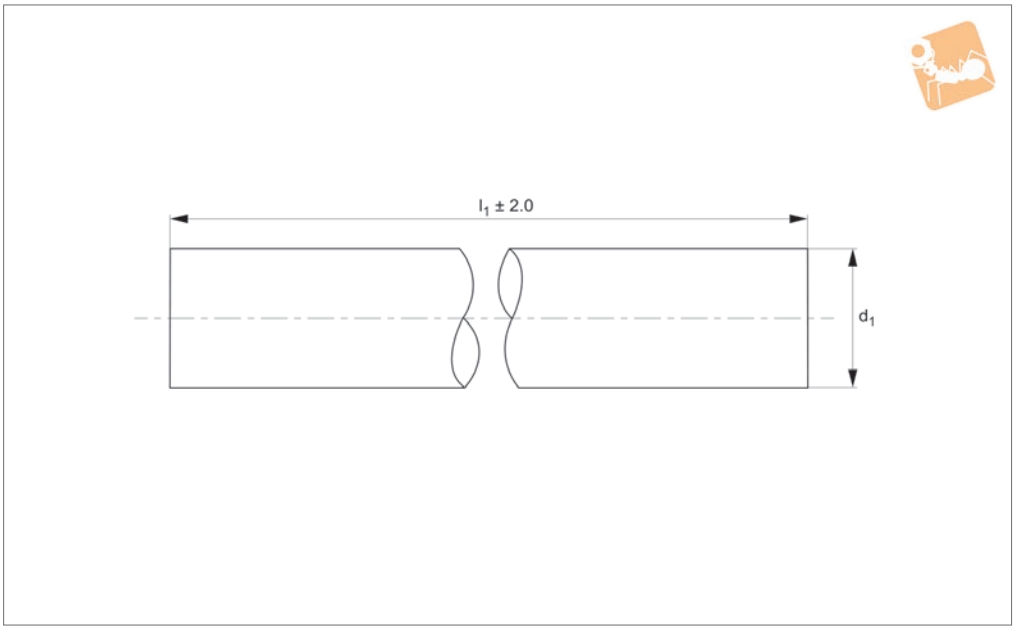
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.08-0100	8	100	+0,-9
L1778.08-0150	8	150	+0,-9
L1778.08-0200	8	200	+0,-9
L1778.08-0250	8	250	+0,-9
L1778.08-0300	8	300	+0,-9
L1778.08-0350	8	350	+0,-9
L1778.08-0400	8	400	+0,-9
L1778.08-0450	8	450	+0,-9
L1778.08-0500	8	500	+0,-9
L1778.08-0550	8	550	+0,-9
L1778.08-0600	8	600	+0,-9
L1778.08-0650	8	650	+0,-9
L1778.08-0700	8	700	+0,-9
L1778.08-0750	8	750	+0,-9
L1778.08-0800	8	800	+0,-9
L1778.08-0850	8	850	+0,-9
L1778.08-0900	8	900	+0,-9
L1778.08-1000	8	1000	+0,-9
L1778.08-1050	8	1050	+0,-9
L1778.08-1100	8	1100	+0,-9
L1778.08-1150	8	1150	+0,-9
L1778.08-1200	8	1200	+0,-9
L1778.08-1250	8	1250	+0,-9
L1778.08-1300	8	1300	+0,-9
L1778.08-1350	8	1350	+0,-9
L1778.08-1400	8	1400	+0,-9
L1778.08-1450	8	1450	+0,-9
L1778.08-1500	8	1500	+0,-9
L1778.08-1550	8	1550	+0,-9
L1778.08-1600	8	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.08-1650	8	1650	+0,-9
L1778.08-1700	8	1700	+0,-9
L1778.08-1750	8	1750	+0,-9
L1778.08-1800	8	1800	+0,-9
L1778.08-1850	8	1850	+0,-9
L1778.08-1900	8	1900	+0,-9
L1778.08-1950	8	1950	+0,-9
L1778.08-2000	8	2000	+0,-9

10Ø Aluminium Shafts

L1778.10



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

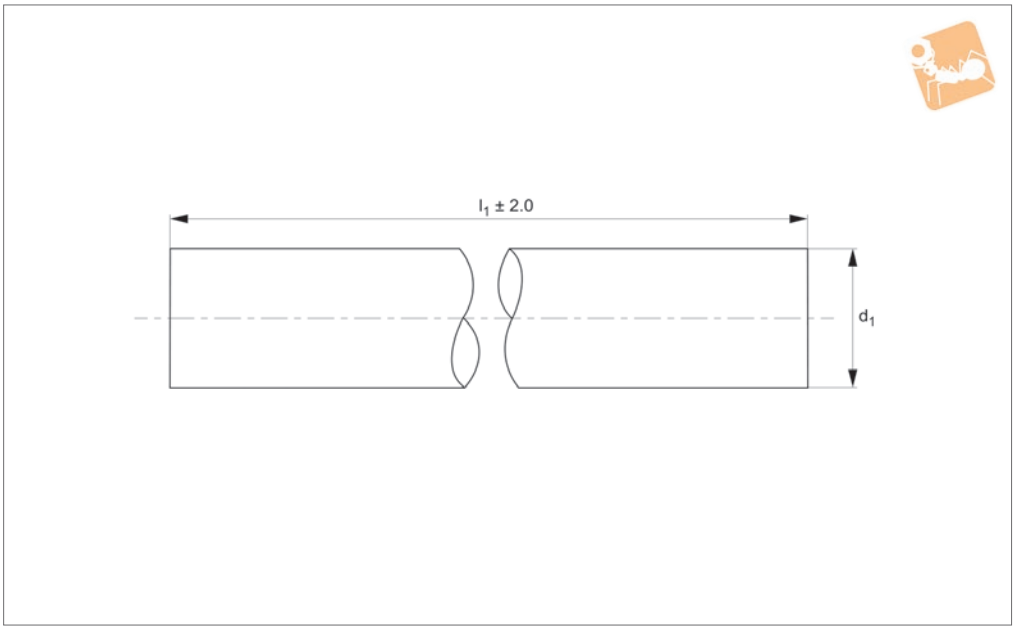
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.10-0100	10	100	+0,-9
L1778.10-0150	10	150	+0,-9
L1778.10-0200	10	200	+0,-9
L1778.10-0250	10	250	+0,-9
L1778.10-0300	10	300	+0,-9
L1778.10-0350	10	350	+0,-9
L1778.10-0400	10	400	+0,-9
L1778.10-0450	10	450	+0,-9
L1778.10-0500	10	500	+0,-9
L1778.10-0550	10	550	+0,-9
L1778.10-0600	10	600	+0,-9
L1778.10-0650	10	650	+0,-9
L1778.10-0700	10	700	+0,-9
L1778.10-0750	10	750	+0,-9
L1778.10-0800	10	800	+0,-9
L1778.10-0850	10	850	+0,-9
L1778.10-0900	10	900	+0,-9
L1778.10-1000	10	1000	+0,-9
L1778.10-1050	10	1050	+0,-9
L1778.10-1100	10	1100	+0,-9
L1778.10-1150	10	1150	+0,-9
L1778.10-1200	10	1200	+0,-9
L1778.10-1250	10	1250	+0,-9
L1778.10-1300	10	1300	+0,-9
L1778.10-1350	10	1350	+0,-9
L1778.10-1400	10	1400	+0,-9
L1778.10-1450	10	1450	+0,-9
L1778.10-1500	10	1500	+0,-9
L1778.10-1550	10	1550	+0,-9
L1778.10-1600	10	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.10-1650	10	1650	+0,-9
L1778.10-1700	10	1700	+0,-9
L1778.10-1750	10	1750	+0,-9
L1778.10-1800	10	1800	+0,-9
L1778.10-1850	10	1850	+0,-9
L1778.10-1900	10	1900	+0,-9
L1778.10-1950	10	1950	+0,-9
L1778.10-2000	10	2000	+0,-9

12Ø Aluminium Shafts

L1778.12



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

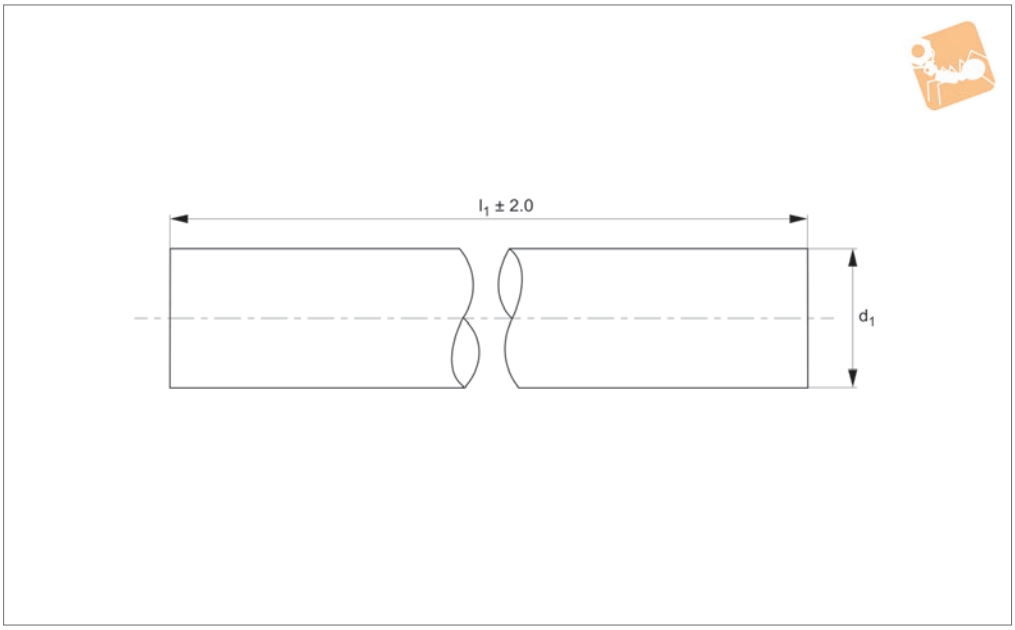
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.12-0100	12	100	+0,-9
L1778.12-0150	12	150	+0,-9
L1778.12-0200	12	200	+0,-9
L1778.12-0250	12	250	+0,-9
L1778.12-0300	12	300	+0,-9
L1778.12-0350	12	350	+0,-9
L1778.12-0400	12	400	+0,-9
L1778.12-0450	12	450	+0,-9
L1778.12-0500	12	500	+0,-9
L1778.12-0550	12	550	+0,-9
L1778.12-0600	12	600	+0,-9
L1778.12-0650	12	650	+0,-9
L1778.12-0700	12	700	+0,-9
L1778.12-0750	12	750	+0,-9
L1778.12-0800	12	800	+0,-9
L1778.12-0850	12	850	+0,-9
L1778.12-0900	12	900	+0,-9
L1778.12-1000	12	1000	+0,-9
L1778.12-1050	12	1050	+0,-9
L1778.12-1100	12	1100	+0,-9
L1778.12-1150	12	1150	+0,-9
L1778.12-1200	12	1200	+0,-9
L1778.12-1250	12	1250	+0,-9
L1778.12-1300	12	1300	+0,-9
L1778.12-1350	12	1350	+0,-9
L1778.12-1400	12	1400	+0,-9
L1778.12-1450	12	1450	+0,-9
L1778.12-1500	12	1500	+0,-9
L1778.12-1550	12	1550	+0,-9
L1778.12-1600	12	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.12-1650	12	1650	+0,-9
L1778.12-1700	12	1700	+0,-9
L1778.12-1750	12	1750	+0,-9
L1778.12-1800	12	1800	+0,-9
L1778.12-1850	12	1850	+0,-9
L1778.12-1900	12	1900	+0,-9
L1778.12-1950	12	1950	+0,-9
L1778.12-2000	12	2000	+0,-9

16Ø Aluminium Shafts

L1778.16



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

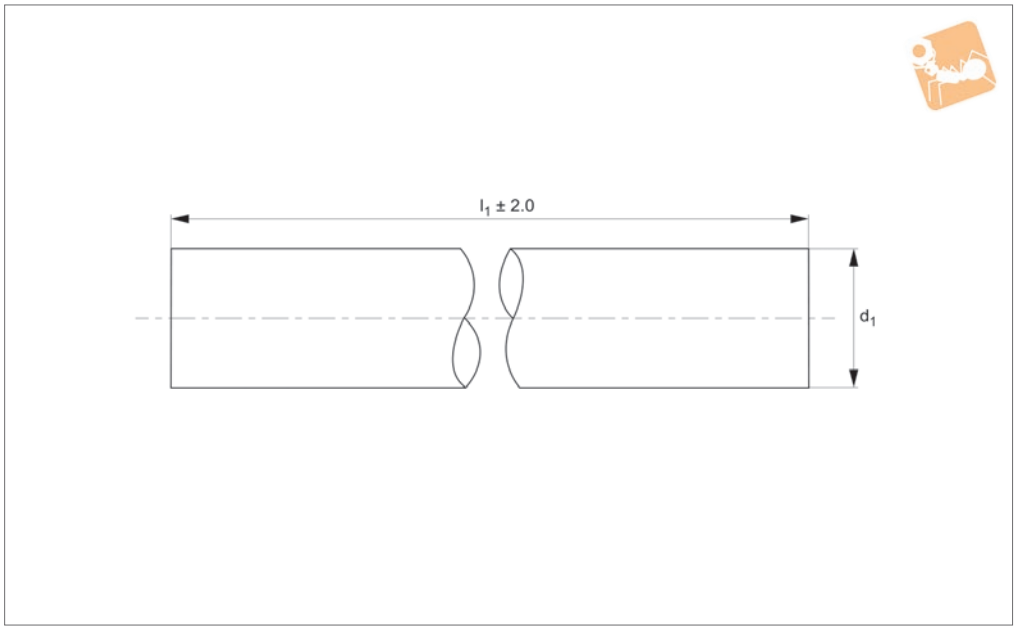
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.16-0100	16	100	+0,-9
L1778.16-0150	16	150	+0,-9
L1778.16-0200	16	200	+0,-9
L1778.16-0250	16	250	+0,-9
L1778.16-0300	16	300	+0,-9
L1778.16-0350	16	350	+0,-9
L1778.16-0400	16	400	+0,-9
L1778.16-0450	16	450	+0,-9
L1778.16-0500	16	500	+0,-9
L1778.16-0550	16	550	+0,-9
L1778.16-0600	16	600	+0,-9
L1778.16-0650	16	650	+0,-9
L1778.16-0700	16	700	+0,-9
L1778.16-0750	16	750	+0,-9
L1778.16-0800	16	800	+0,-9
L1778.16-0850	16	850	+0,-9
L1778.16-0900	16	900	+0,-9
L1778.16-1000	16	1000	+0,-9
L1778.16-1050	16	1050	+0,-9
L1778.16-1100	16	1100	+0,-9
L1778.16-1150	16	1150	+0,-9
L1778.16-1200	16	1200	+0,-9
L1778.16-1250	16	1250	+0,-9
L1778.16-1300	16	1300	+0,-9
L1778.16-1350	16	1350	+0,-9
L1778.16-1400	16	1400	+0,-9
L1778.16-1450	16	1450	+0,-9
L1778.16-1500	16	1500	+0,-9
L1778.16-1550	16	1550	+0,-9
L1778.16-1600	16	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.16-1650	16	1650	+0,-9
L1778.16-1700	16	1700	+0,-9
L1778.16-1750	16	1750	+0,-9
L1778.16-1800	16	1800	+0,-9
L1778.16-1850	16	1850	+0,-9
L1778.16-1900	16	1900	+0,-9
L1778.16-1950	16	1950	+0,-9
L1778.16-2000	16	2000	+0,-9

20Ø Aluminium Shafts

L1778.20



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

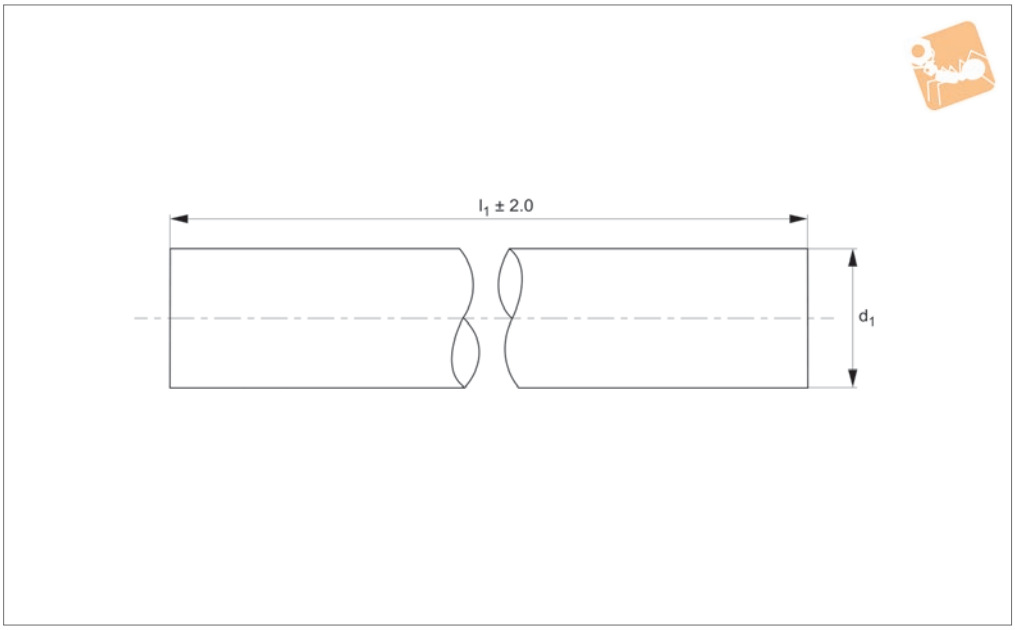
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.20-0100	20	100	+0,-9
L1778.20-0150	20	150	+0,-9
L1778.20-0200	20	200	+0,-9
L1778.20-0250	20	250	+0,-9
L1778.20-0300	20	300	+0,-9
L1778.20-0350	20	350	+0,-9
L1778.20-0400	20	400	+0,-9
L1778.20-0450	20	450	+0,-9
L1778.20-0500	20	500	+0,-9
L1778.20-0550	20	550	+0,-9
L1778.20-0600	20	600	+0,-9
L1778.20-0650	20	650	+0,-9
L1778.20-0700	20	700	+0,-9
L1778.20-0750	20	750	+0,-9
L1778.20-0800	20	800	+0,-9
L1778.20-0850	20	850	+0,-9
L1778.20-0900	20	900	+0,-9
L1778.20-1000	20	1000	+0,-9
L1778.20-1050	20	1050	+0,-9
L1778.20-1100	20	1100	+0,-9
L1778.20-1150	20	1150	+0,-9
L1778.20-1200	20	1200	+0,-9
L1778.20-1250	20	1250	+0,-9
L1778.20-1300	20	1300	+0,-9
L1778.20-1350	20	1350	+0,-9
L1778.20-1400	20	1400	+0,-9
L1778.20-1450	20	1450	+0,-9
L1778.20-1500	20	1500	+0,-9
L1778.20-1550	20	1550	+0,-9
L1778.20-1600	20	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.20-1650	20	1650	+0,-9
L1778.20-1700	20	1700	+0,-9
L1778.20-1750	20	1750	+0,-9
L1778.20-1800	20	1800	+0,-9
L1778.20-1850	20	1850	+0,-9
L1778.20-1900	20	1900	+0,-9
L1778.20-1950	20	1950	+0,-9
L1778.20-2000	20	2000	+0,-9

25Ø Aluminium Shafts

L1778.25



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

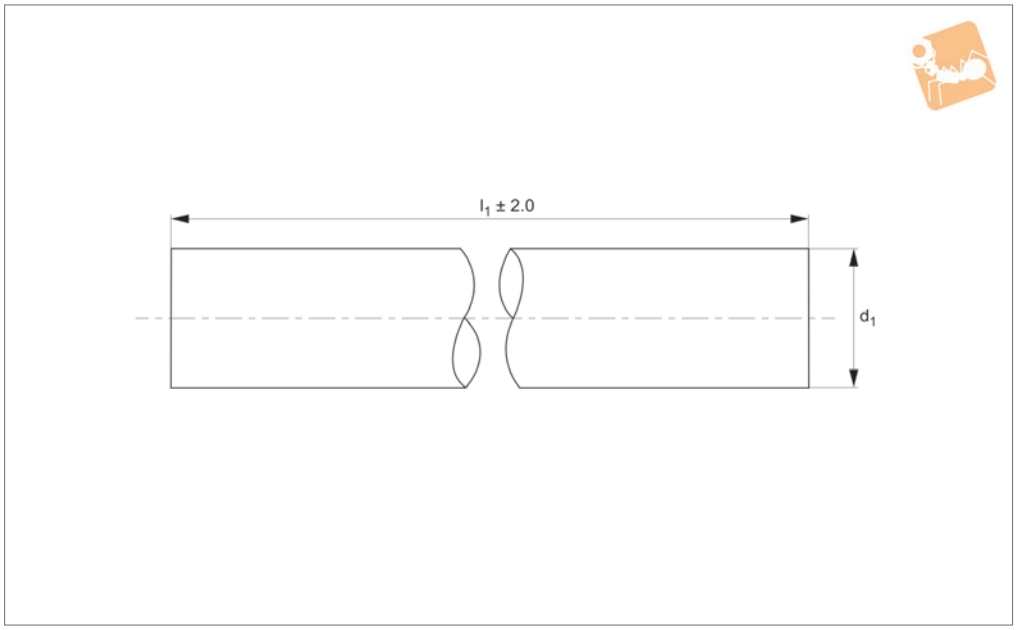
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.25-0100	25	100	+0,-9
L1778.25-0150	25	150	+0,-9
L1778.25-0200	25	200	+0,-9
L1778.25-0250	25	250	+0,-9
L1778.25-0300	25	300	+0,-9
L1778.25-0350	25	350	+0,-9
L1778.25-0400	25	400	+0,-9
L1778.25-0450	25	450	+0,-9
L1778.25-0500	25	500	+0,-9
L1778.25-0550	25	550	+0,-9
L1778.25-0600	25	600	+0,-9
L1778.25-0650	25	650	+0,-9
L1778.25-0700	25	700	+0,-9
L1778.25-0750	25	750	+0,-9
L1778.25-0800	25	800	+0,-9
L1778.25-0850	25	850	+0,-9
L1778.25-0900	25	900	+0,-9
L1778.25-1000	25	1000	+0,-9
L1778.25-1050	25	1050	+0,-9
L1778.25-1100	25	1100	+0,-9
L1778.25-1150	25	1150	+0,-9
L1778.25-1200	25	1200	+0,-9
L1778.25-1250	25	1250	+0,-9
L1778.25-1300	25	1300	+0,-9
L1778.25-1350	25	1350	+0,-9
L1778.25-1400	25	1400	+0,-9
L1778.25-1450	25	1450	+0,-9
L1778.25-1500	25	1500	+0,-9
L1778.25-1550	25	1550	+0,-9
L1778.25-1600	25	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.25-1650	25	1650	+0,-9
L1778.25-1700	25	1700	+0,-9
L1778.25-1750	25	1750	+0,-9
L1778.25-1800	25	1800	+0,-9
L1778.25-1850	25	1850	+0,-9
L1778.25-1900	25	1900	+0,-9
L1778.25-1950	25	1950	+0,-9
L1778.25-2000	25	2000	+0,-9

30Ø Aluminium Shafts

L1778.30



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

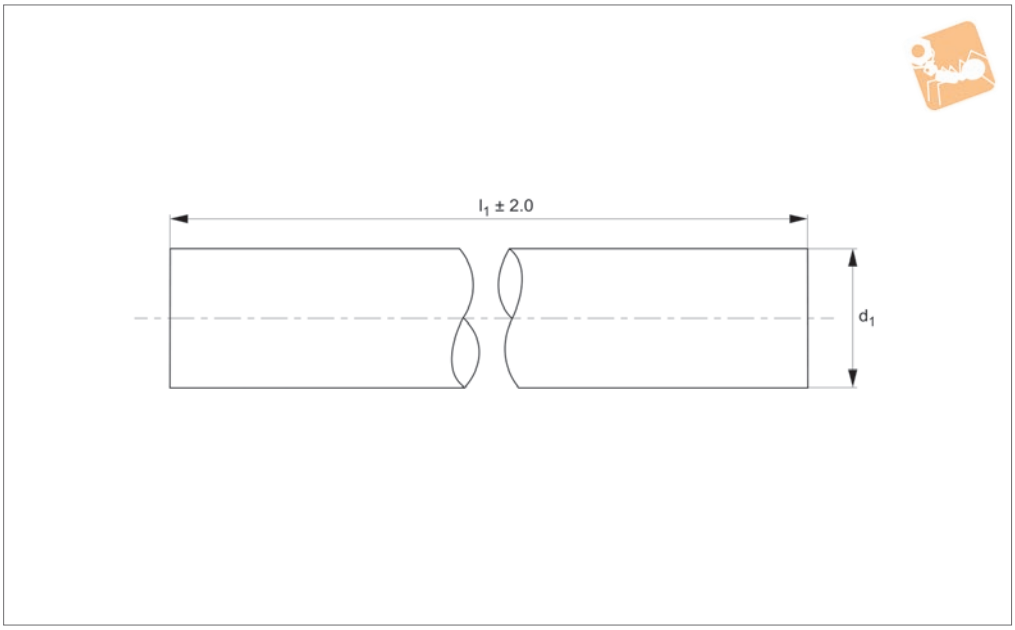
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.30-0100	30	100	+0,-9
L1778.30-0150	30	150	+0,-9
L1778.30-0200	30	200	+0,-9
L1778.30-0250	30	250	+0,-9
L1778.30-0300	30	300	+0,-9
L1778.30-0350	30	350	+0,-9
L1778.30-0400	30	400	+0,-9
L1778.30-0450	30	450	+0,-9
L1778.30-0500	30	500	+0,-9
L1778.30-0550	30	550	+0,-9
L1778.30-0600	30	600	+0,-9
L1778.30-0650	30	650	+0,-9
L1778.30-0700	30	700	+0,-9
L1778.30-0750	30	750	+0,-9
L1778.30-0800	30	800	+0,-9
L1778.30-0850	30	850	+0,-9
L1778.30-0900	30	900	+0,-9
L1778.30-1000	30	1000	+0,-9
L1778.30-1050	30	1050	+0,-9
L1778.30-1100	30	1100	+0,-9
L1778.30-1150	30	1150	+0,-9
L1778.30-1200	30	1200	+0,-9
L1778.30-1250	30	1250	+0,-9
L1778.30-1300	30	1300	+0,-9
L1778.30-1350	30	1350	+0,-9
L1778.30-1400	30	1400	+0,-9
L1778.30-1450	30	1450	+0,-9
L1778.30-1500	30	1500	+0,-9
L1778.30-1550	30	1550	+0,-9
L1778.30-1600	30	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.30-1650	30	1650	+0,-9
L1778.30-1700	30	1700	+0,-9
L1778.30-1750	30	1750	+0,-9
L1778.30-1800	30	1800	+0,-9
L1778.30-1850	30	1850	+0,-9
L1778.30-1900	30	1900	+0,-9
L1778.30-1950	30	1950	+0,-9
L1778.30-2000	30	2000	+0,-9

40Ø Aluminium Shafts

L1778.40



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

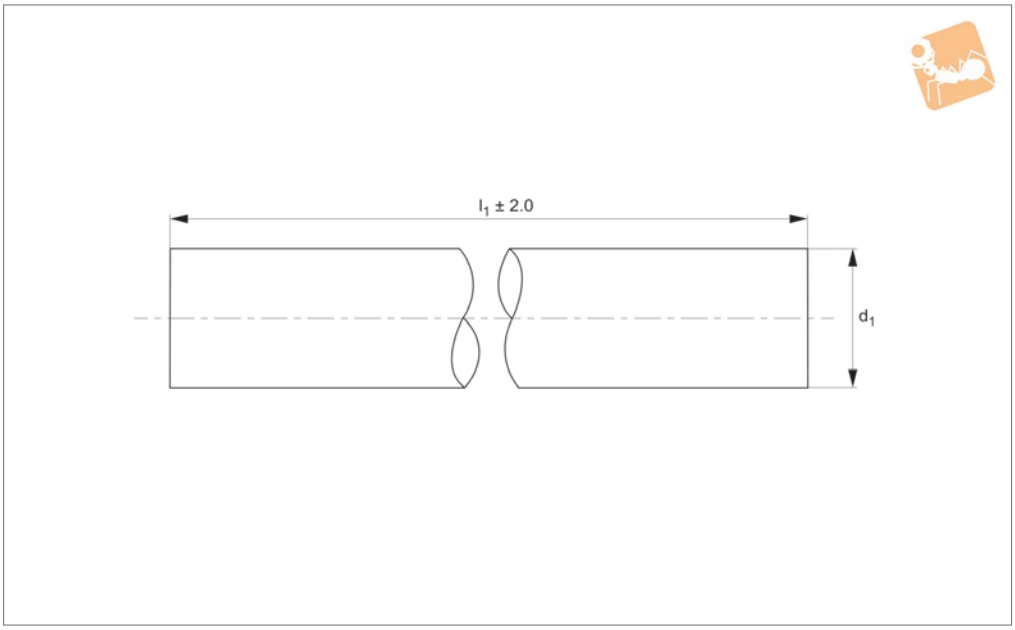
Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.40-0100	40	100	+0,-9
L1778.40-0150	40	150	+0,-9
L1778.40-0200	40	200	+0,-9
L1778.40-0250	40	250	+0,-9
L1778.40-0300	40	300	+0,-9
L1778.40-0350	40	350	+0,-9
L1778.40-0400	40	400	+0,-9
L1778.40-0450	40	450	+0,-9
L1778.40-0500	40	500	+0,-9
L1778.40-0550	40	550	+0,-9
L1778.40-0600	40	600	+0,-9
L1778.40-0650	40	650	+0,-9
L1778.40-0700	40	700	+0,-9
L1778.40-0750	40	750	+0,-9
L1778.40-0800	40	800	+0,-9
L1778.40-0850	40	850	+0,-9
L1778.40-0900	40	900	+0,-9
L1778.40-1000	40	1000	+0,-9
L1778.40-1050	40	1050	+0,-9
L1778.40-1100	40	1100	+0,-9
L1778.40-1150	40	1150	+0,-9
L1778.40-1200	40	1200	+0,-9
L1778.40-1250	40	1250	+0,-9
L1778.40-1300	40	1300	+0,-9
L1778.40-1350	40	1350	+0,-9
L1778.40-1400	40	1400	+0,-9
L1778.40-1450	40	1450	+0,-9
L1778.40-1500	40	1500	+0,-9
L1778.40-1550	40	1550	+0,-9
L1778.40-1600	40	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.40-1650	40	1650	+0,-9
L1778.40-1700	40	1700	+0,-9
L1778.40-1750	40	1750	+0,-9
L1778.40-1800	40	1800	+0,-9
L1778.40-1850	40	1850	+0,-9
L1778.40-1900	40	1900	+0,-9
L1778.40-1950	40	1950	+0,-9
L1778.40-2000	40	2000	+0,-9

50Ø Aluminium Shafts

L1778.50



Material
Aluminium EN AW 6061/6060
Surface: Hard anodized
Hardness: 450-550 HV

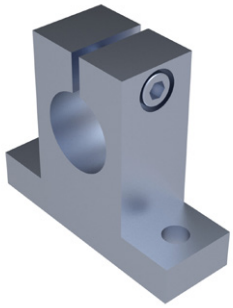
Technical Notes
Designed to be used with self-lubricating ceramic bushings (part no.s L1764 to L1769).
Temp. range -130°C to +200°C.
Non-magnetic, contaminants do not stick to surface, coating is FDA compliant, light-weight.

Tips
Shaft ends are not coated as standard, however coated ends are available on request.
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.
Shafts lengths are cut to typically ± 2mm.

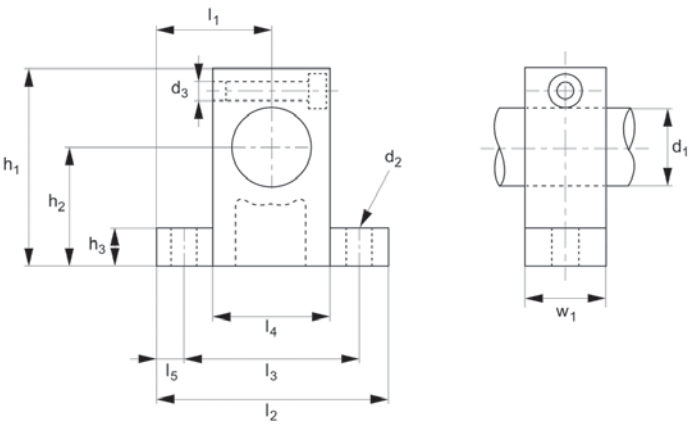
Order No.	d_1 tol. h6	l_1	Tolerance µ tol. h6
L1778.50-0100	50	100	+0,-9
L1778.50-0150	50	150	+0,-9
L1778.50-0200	50	200	+0,-9
L1778.50-0250	50	250	+0,-9
L1778.50-0300	50	300	+0,-9
L1778.50-0350	50	350	+0,-9
L1778.50-0400	50	400	+0,-9
L1778.50-0450	50	450	+0,-9
L1778.50-0500	50	500	+0,-9
L1778.50-0550	50	550	+0,-9
L1778.50-0600	50	600	+0,-9
L1778.50-0650	50	650	+0,-9
L1778.50-0700	50	700	+0,-9
L1778.50-0750	50	750	+0,-9
L1778.50-0800	50	800	+0,-9
L1778.50-0850	50	850	+0,-9
L1778.50-0900	50	900	+0,-9
L1778.50-1000	50	1000	+0,-9
L1778.50-1050	50	1050	+0,-9
L1778.50-1100	50	1100	+0,-9
L1778.50-1150	50	1150	+0,-9
L1778.50-1200	50	1200	+0,-9
L1778.50-1250	50	1250	+0,-9
L1778.50-1300	50	1300	+0,-9
L1778.50-1350	50	1350	+0,-9
L1778.50-1400	50	1400	+0,-9
L1778.50-1450	50	1450	+0,-9
L1778.50-1500	50	1500	+0,-9
L1778.50-1550	50	1550	+0,-9
L1778.50-1600	50	1600	+0,-9

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6
L1778.50-1650	50	1650	+0,-9
L1778.50-1700	50	1700	+0,-9
L1778.50-1750	50	1750	+0,-9
L1778.50-1800	50	1800	+0,-9
L1778.50-1850	50	1850	+0,-9
L1778.50-1900	50	1900	+0,-9
L1778.50-1950	50	1950	+0,-9
L1778.50-2000	50	2000	+0,-9

Shaft End Supports
Aluminium



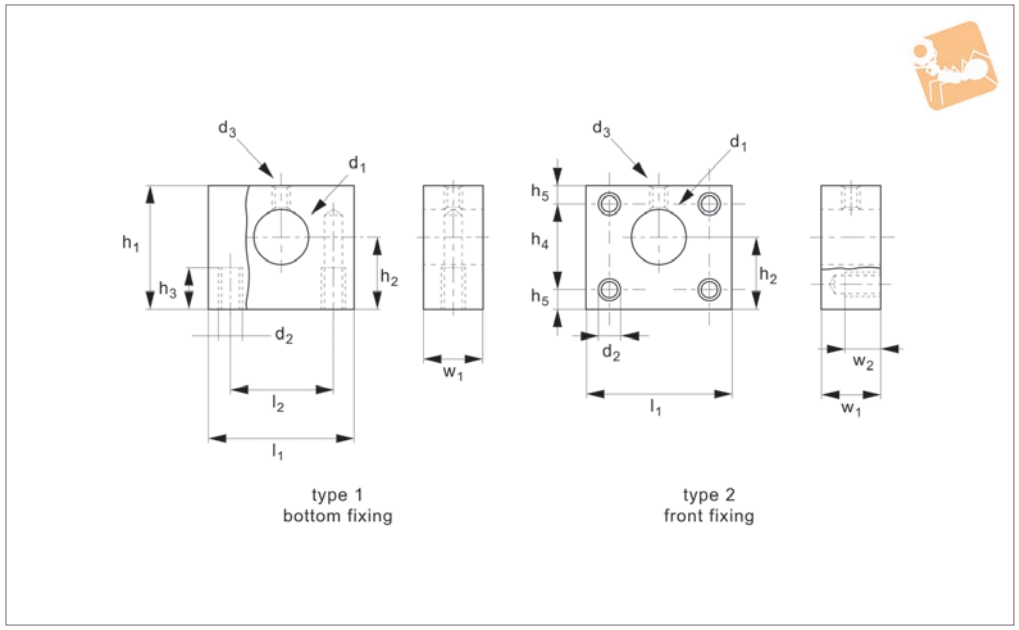
L1779.AL



Material
Aluminium (P40,6060)

Technical Notes
For mounting of standard shaft diameters.

Order No.	d_1	d_2	d_3	h_1	h_2 ±0.02	h_3	l_1 ±0.05	l_2	l_3	l_4	l_5	w_1	Weight g
L1779.008-AL	8	5.5	M4	32.8	20	6	21	42	32	18	5.0	14	24
L1779.010-AL	10	5.5	M4	32.8	20	6	21	42	32	18	5.0	14	24
L1779.012-AL	12	5.5	M4	38.0	23	6	21	42	32	20	5.0	14	30
L1779.013-AL	13	5.5	M4	38.0	23	6	21	42	32	20	5.0	14	30
L1779.016-AL	16	5.5	M4	44.0	27	8	24	48	38	25	5.0	16	40
L1779.020-AL	20	6.6	M5	51.0	31	10	30	60	45	30	7.5	20	70
L1779.025-AL	25	6.6	M6	60.0	35	12	35	70	56	38	7.0	24	130
L1779.030-AL	30	9.0	M6	70.0	42	12	42	84	64	44	10.0	28	180
L1779.035-AL	35	11.0	M8	85.0	50	15	49	98	74	50	12.0	32	270
L1779.040-AL	40	11.0	M8	96.0	60	15	57	114	90	60	12.0	36	420



L1779.A4

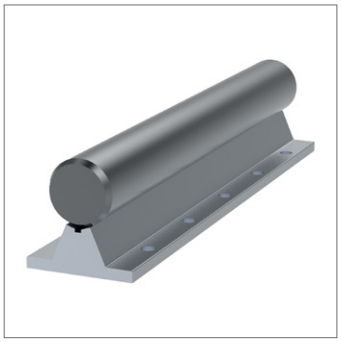
Material
Stainless steel (AISI 316, 1.440).

Technical Notes
For mounting of standard shaft diameters, tolerance h6.

Order No.	Type	d_1 tol. G7	d_2	d_3	h_1	h_2	h_3	h_4	h_5	l_1	l_2	w_1	w_2
L1779.01-120-A4	1	12	M 6	M 3	34	19	12	-	-	40	27	18	-
L1779.01-160-A4	1	16	M 6	M 3	38	22	13	-	-	45	32	20	-
L1779.01-200-A4	1	20	M 8	M 4	46	26	15	-	-	46	39	24	-
L1779.01-250-A4	1	25	M10	M 4	54	31	18	-	-	54	44	28	-
L1779.01-300-A4	1	30	M10	M 4	62	36	22	-	-	67	49	30	-
L1779.01-400-A4	1	40	M12	M 5	80	46	22	-	-	87	66	40	-
L1779.02-120-A4	2	12	M 6	M 3	34	19	-	22	6	40	-	18	12
L1779.02-160-A4	2	16	M 6	M 3	38	22	-	26	6	45	-	20	13
L1779.02-200-A4	2	20	M 8	M 4	46	26	-	30	8	46	-	24	15
L1779.02-250-A4	2	25	M10	M 4	54	31	-	38	8	54	-	28	18
L1779.02-300-A4	2	30	M10	M 4	62	36	-	42	10	67	-	30	22
L1779.02-400-A4	2	40	M12	M 5	80	46	-	60	10	87	-	40	22

12Ø Shaft Support Rails

complete shaft and rail



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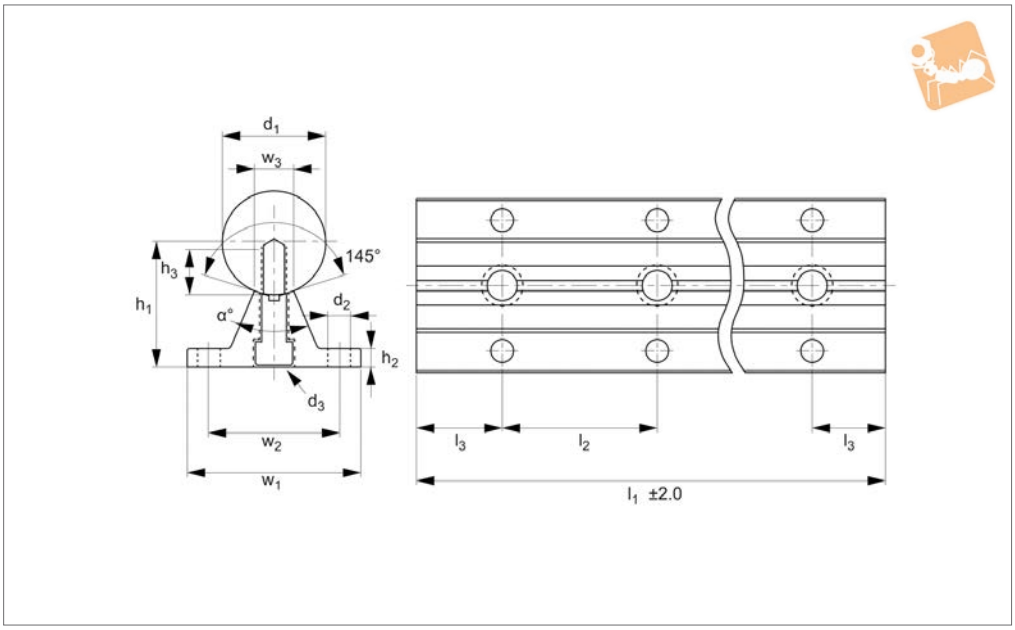


Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

For open linear bushings, ensures a very rigid and stiff system.

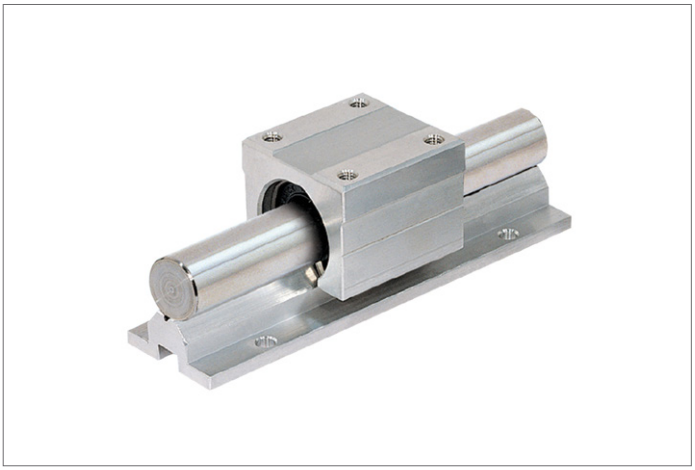
The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

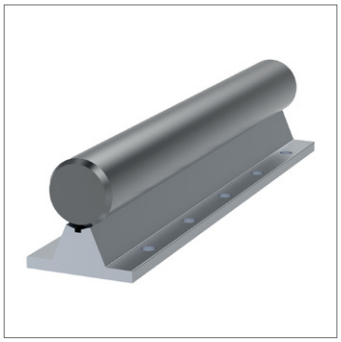
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.12-0240	12	4.5	M4x20	240	120	60	40	29	5.8	22	5	8	50
L1780.12-0360	12	4.5	M4x20	360	120	60	40	29	5.8	22	5	8	50
L1780.12-0480	12	4.5	M4x20	480	120	60	40	29	5.8	22	5	8	50
L1780.12-0600	12	4.5	M4x20	600	120	60	40	29	5.8	22	5	8	50
L1780.12-0720	12	4.5	M4x20	720	120	60	40	29	5.8	22	5	8	50
L1780.12-0840	12	4.5	M4x20	840	120	60	40	29	5.8	22	5	8	50
L1780.12-0960	12	4.5	M4x20	960	120	60	40	29	5.8	22	5	8	50
L1780.12-1080	12	4.5	M4x20	1080	120	60	40	29	5.8	22	5	8	50
L1780.12-1200	12	4.5	M4x20	1200	120	60	40	29	5.8	22	5	8	50
L1780.12-1320	12	4.5	M4x20	1320	120	60	40	29	5.8	22	5	8	50
L1780.12-1440	12	4.5	M4x20	1440	120	60	40	29	5.8	22	5	8	50
L1780.12-1560	12	4.5	M4x20	1560	120	60	40	29	5.8	22	5	8	50
L1780.12-1680	12	4.5	M4x20	1680	120	60	40	29	5.8	22	5	8	50
L1780.12-1800	12	4.5	M4x20	1800	120	60	40	29	5.8	22	5	8	50
L1780.12-1920	12	4.5	M4x20	1920	120	60	40	29	5.8	22	5	8	50
L1780.12-2040	12	4.5	M4x20	2040	120	60	40	29	5.8	22	5	8	50
L1780.12-2160	12	4.5	M4x20	2160	120	60	40	29	5.8	22	5	8	50
L1780.12-2280	12	4.5	M4x20	2280	120	60	40	29	5.8	22	5	8	50
L1780.12-2400	12	4.5	M4x20	2400	120	60	40	29	5.8	22	5	8	50
L1780.12-2520	12	4.5	M4x20	2520	120	60	40	29	5.8	22	5	8	50
L1780.12-2640	12	4.5	M4x20	2640	120	60	40	29	5.8	22	5	8	50
L1780.12-2760	12	4.5	M4x20	2760	120	60	40	29	5.8	22	5	8	50
L1780.12-2880	12	4.5	M4x20	2880	120	60	40	29	5.8	22	5	8	50
L1780.12-3000	12	4.5	M4x20	3000	120	60	40	29	5.8	22	5	8	50
L1780.12-3120	12	4.5	M4x20	3120	120	60	40	29	5.8	22	5	8	50
L1780.12-3240	12	4.5	M4x20	3240	120	60	40	29	5.8	22	5	8	50
L1780.12-3360	12	4.5	M4x20	3360	120	60	40	29	5.8	22	5	8	50
L1780.12-3480	12	4.5	M4x20	3480	120	60	40	29	5.8	22	5	8	50
L1780.12-3600	12	4.5	M4x20	3600	120	60	40	29	5.8	22	5	8	50

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.12-3720	12	4.5	M4x20	3720	120	60	40	29	5.8	22	5	8	50
L1780.12-3840	12	4.5	M4x20	3840	120	60	40	29	5.8	22	5	8	50
L1780.12-3960	12	4.5	M4x20	3960	120	60	40	29	5.8	22	5	8	50
L1780.12-4080	12	4.5	M4x20	4080	120	60	40	29	5.8	22	5	8	50
L1780.12-4200	12	4.5	M4x20	4200	120	60	40	29	5.8	22	5	8	50
L1780.12-4320	12	4.5	M4x20	4320	120	60	40	29	5.8	22	5	8	50
L1780.12-4440	12	4.5	M4x20	4440	120	60	40	29	5.8	22	5	8	50
L1780.12-4560	12	4.5	M4x20	4560	120	60	40	29	5.8	22	5	8	50
L1780.12-4680	12	4.5	M4x20	4680	120	60	40	29	5.8	22	5	8	50
L1780.12-4800	12	4.5	M4x20	4800	120	60	40	29	5.8	22	5	8	50
L1780.12-4920	12	4.5	M4x20	4920	120	60	40	29	5.8	22	5	8	50
L1780.12-5040	12	4.5	M4x20	5040	120	60	40	29	5.8	22	5	8	50
L1780.12-5160	12	4.5	M4x20	5150	120	60	40	29	5.8	22	5	8	50
L1780.12-5280	12	4.5	M4x20	5280	120	60	40	29	5.8	22	5	8	50
L1780.12-5400	12	4.5	M4x20	5400	120	60	40	29	5.8	22	5	8	50
L1780.12-5520	12	4.5	M4x20	5520	120	60	40	29	5.8	22	5	8	50
L1780.12-5640	12	4.5	M4x20	5640	120	60	40	29	5.8	22	5	8	50
L1780.12-5760	12	4.5	M4x20	5760	120	60	40	29	5.8	22	5	8	50
L1780.12-5880	12	4.5	M4x20	5880	120	60	40	29	5.8	22	5	8	50
L1780.12-6000	12	4.5	M4x20	6000	120	60	40	29	5.8	22	5	8	50



16Ø Shaft Support Rails

complete shaft and rail



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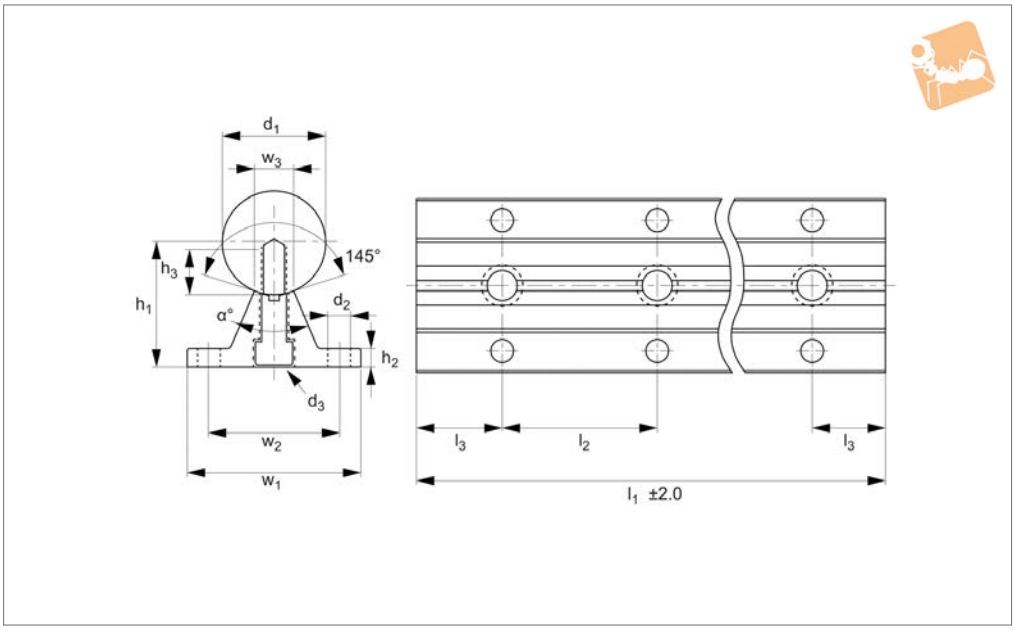


Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

For open linear bushings, ensures a very rigid and stiff system.

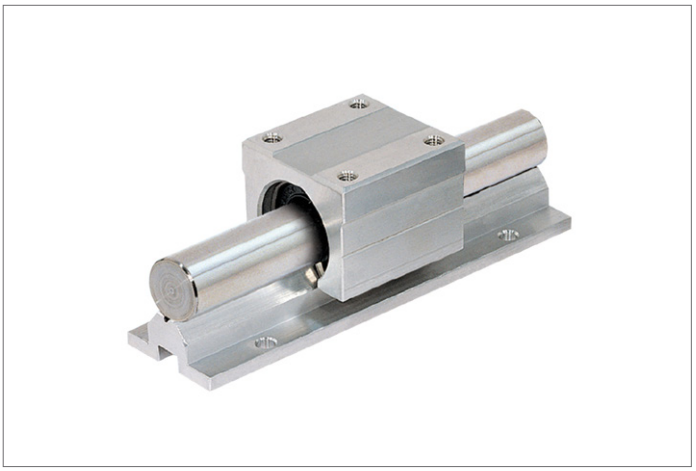
The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

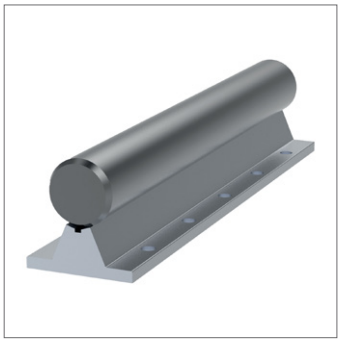
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.16-0300	16	5.5	M5x20	300	150	75	45	33	7	26	5	9	50
L1780.16-0450	16	5.5	M5x20	450	150	75	45	33	7	26	5	9	50
L1780.16-0600	16	5.5	M5x20	600	150	75	45	33	7	26	5	9	50
L1780.16-0750	16	5.5	M5x20	750	150	75	45	33	7	26	5	9	50
L1780.16-0900	16	5.5	M5x20	900	150	75	45	33	7	26	5	9	50
L1780.16-1050	16	5.5	M5x20	1050	150	75	45	33	7	26	5	9	50
L1780.16-1200	16	5.5	M5x20	1200	150	75	45	33	7	26	5	9	50
L1780.16-1350	16	5.5	M5x20	1350	150	75	45	33	7	26	5	9	50
L1780.16-1500	16	5.5	M5x20	1500	150	75	45	33	7	26	5	9	50
L1780.16-1650	16	5.5	M5x20	1650	150	75	45	33	7	26	5	9	50
L1780.16-1800	16	5.5	M5x20	1800	150	75	45	33	7	26	5	9	50
L1780.16-1950	16	5.5	M5x20	1950	150	75	45	33	7	26	5	9	50
L1780.16-2100	16	5.5	M5x20	2100	150	75	45	33	7	26	5	9	50
L1780.16-2250	16	5.5	M5x20	2250	150	75	45	33	7	26	5	9	50
L1780.16-2400	16	5.5	M5x20	2400	150	75	45	33	7	26	5	9	50
L1780.16-2550	16	5.5	M5x20	2550	150	75	45	33	7	26	5	9	50
L1780.16-2700	16	5.5	M5x20	2700	150	75	45	33	7	26	5	9	50
L1780.16-2850	16	5.5	M5x20	2850	150	75	45	33	7	26	5	9	50
L1780.16-3000	16	5.5	M5x20	3000	150	75	45	33	7	26	5	9	50
L1780.16-3150	16	5.5	M5x20	3150	150	75	45	33	7	26	5	9	50
L1780.16-3300	16	5.5	M5x20	3300	150	75	45	33	7	26	5	9	50
L1780.16-3450	16	5.5	M5x20	3450	150	75	45	33	7	26	5	9	50
L1780.16-3600	16	5.5	M5x20	3600	150	75	45	33	7	26	5	9	50
L1780.16-3750	16	5.5	M5x20	3750	150	75	45	33	7	26	5	9	50
L1780.16-3900	16	5.5	M5x20	3900	150	75	45	33	7	26	5	9	50
L1780.16-4050	16	5.5	M5x20	4050	150	75	45	33	7	26	5	9	50
L1780.16-4200	16	5.5	M5x20	4200	150	75	45	33	7	26	5	9	50
L1780.16-4350	16	5.5	M5x20	4350	150	75	45	33	7	26	5	9	50
L1780.16-4500	16	5.5	M5x20	4500	150	75	45	33	7	26	5	9	50

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.16-4650	16	5.5	M5x20	4650	150	75	45	33	7	26	5	9	50
L1780.16-4800	16	5.5	M5x20	4800	150	75	45	33	7	26	5	9	50
L1780.16-4950	16	5.5	M5x20	4950	150	75	45	33	7	26	5	9	50
L1780.16-5100	16	5.5	M5x20	5100	150	75	45	33	7	26	5	9	50
L1780.16-5250	16	5.5	M5x20	5250	150	75	45	33	7	26	5	9	50
L1780.16-5400	16	5.5	M5x20	5400	150	75	45	33	7	26	5	9	50
L1780.16-5550	16	5.5	M5x20	5550	150	75	45	33	7	26	5	9	50
L1780.16-5700	16	5.5	M5x20	5700	150	75	45	33	7	26	5	9	50
L1780.16-5850	16	5.5	M5x20	5850	150	75	45	33	7	26	5	9	50
L1780.16-6000	16	5.5	M5x20	6000	150	75	45	33	7	26	5	9	50



20Ø Shaft Support Rails

complete steel shaft and aluminium support



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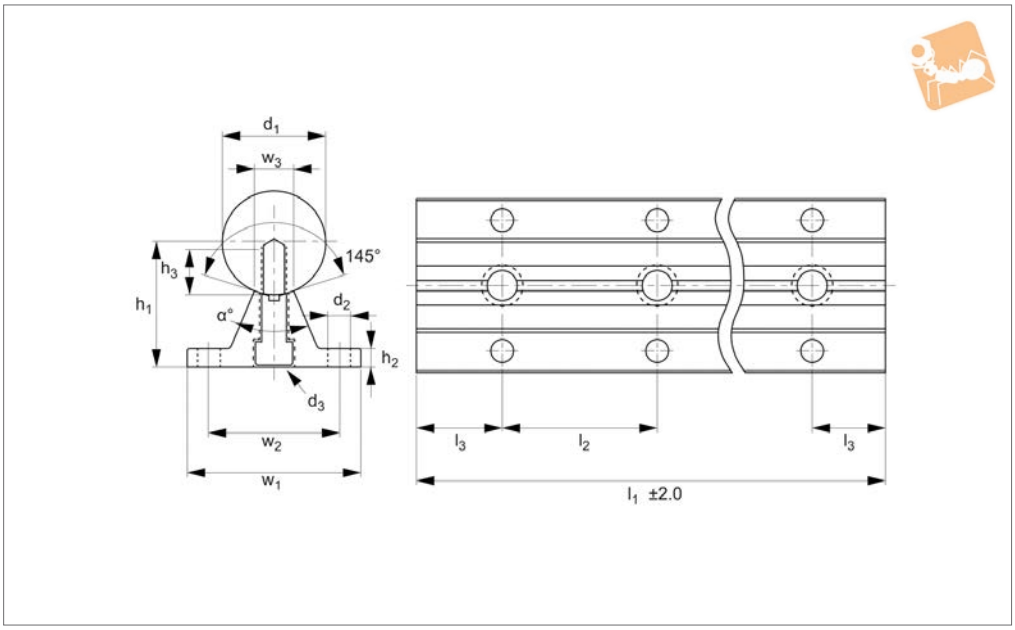


Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

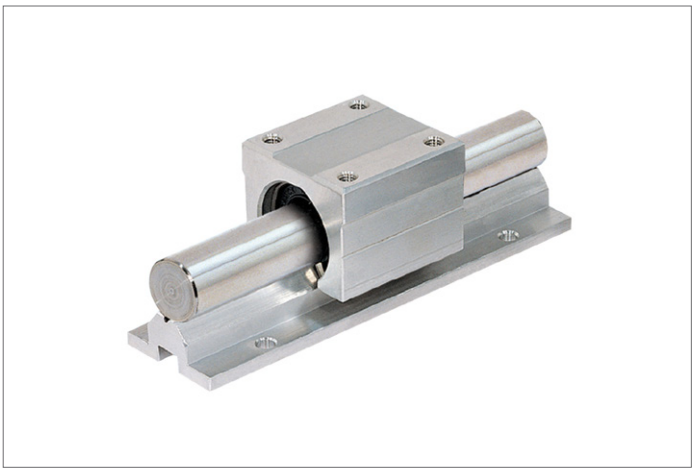
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.20-0300	20	6.6	M6x25	300	150	75	52	37	8.3	32	6	11	50
L1780.20-0450	20	6.6	M6x25	450	150	75	52	37	8.3	32	6	11	50
L1780.20-0600	20	6.6	M6x25	600	150	75	52	37	8.3	32	6	11	50
L1780.20-0750	20	6.6	M6x25	750	150	75	52	37	8.3	32	6	11	50
L1780.20-0900	20	6.6	M6x25	900	150	75	52	37	8.3	32	6	11	50
L1780.20-1050	20	6.6	M6x25	1050	150	75	52	37	8.3	32	6	11	50
L1780.20-1200	20	6.6	M6x25	1200	150	75	52	37	8.3	32	6	11	50
L1780.20-1350	20	6.6	M6x25	1350	150	75	52	37	8.3	32	6	11	50
L1780.20-1500	20	6.6	M6x25	1500	150	75	52	37	8.3	32	6	11	50
L1780.20-1650	20	6.6	M6x25	1650	150	75	52	37	8.3	32	6	11	50
L1780.20-1800	20	6.6	M6x25	1800	150	75	52	37	8.3	32	6	11	50
L1780.20-1950	20	6.6	M6x25	1950	150	75	52	37	8.3	32	6	11	50
L1780.20-2100	20	6.6	M6x25	2100	150	75	52	37	8.3	32	6	11	50
L1780.20-2250	20	6.6	M6x25	2250	150	75	52	37	8.3	32	6	11	50
L1780.20-2400	20	6.6	M6x25	2400	150	75	52	37	8.3	32	6	11	50
L1780.20-2550	20	6.6	M6x25	2550	150	75	52	37	8.3	32	6	11	50
L1780.20-2700	20	6.6	M6x25	2700	150	75	52	37	8.3	32	6	11	50
L1780.20-2850	20	6.6	M6x25	2850	150	75	52	37	8.3	32	6	11	50
L1780.20-3000	20	6.6	M6x25	3000	150	75	52	37	8.3	32	6	11	50
L1780.20-3150	20	6.6	M6x25	3150	150	75	52	37	8.3	32	6	11	50
L1780.20-3300	20	6.6	M6x25	3300	150	75	52	37	8.3	32	6	11	50
L1780.20-3450	20	6.6	M6x25	3450	150	75	52	37	8.3	32	6	11	50
L1780.20-3600	20	6.6	M6x25	3600	150	75	52	37	8.3	32	6	11	50
L1780.20-3750	20	6.6	M6x25	3750	150	75	52	37	8.3	32	6	11	50
L1780.20-3900	20	6.6	M6x25	3900	150	75	52	37	8.3	32	6	11	50
L1780.20-4000	20	6.6	M6x25	4000	150	75	52	37	8.3	32	6	11	50
L1780.20-4050	20	6.6	M6x25	4050	150	75	52	37	8.3	32	6	11	50
L1780.20-4200	20	6.6	M6x25	4200	150	75	52	37	8.3	32	6	11	50
L1780.20-4350	20	6.6	M6x25	4350	150	75	52	37	8.3	32	6	11	50

20Ø Shaft Support Rails

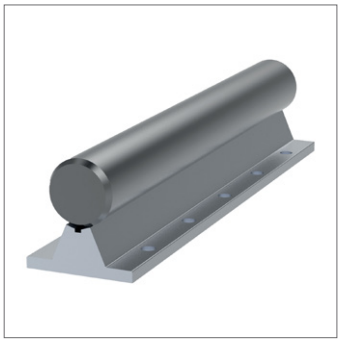
complete steel shaft and aluminium support

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.20-4500	20	6.6	M6x25	4500	150	75	52	37	8.3	32	6	11	50
L1780.20-4650	20	6.6	M6x25	4650	150	75	52	37	8.3	32	6	11	50
L1780.20-4800	20	6.6	M6x25	4800	150	75	52	37	8.3	32	6	11	50
L1780.20-4950	20	6.6	M6x25	4940	150	75	52	37	8.3	32	6	11	50
L1780.20-5100	20	6.6	M6x25	5100	150	75	52	37	8.3	32	6	11	50
L1780.20-5250	20	6.6	M6x25	5250	150	75	52	37	8.3	32	6	11	50
L1780.20-5400	20	6.6	M6x25	5400	150	75	52	37	8.3	32	6	11	50
L1780.20-5550	20	6.6	M6x25	5550	150	75	52	37	8.3	32	6	11	50
L1780.20-5700	20	6.6	M6x25	5700	150	75	52	37	8.3	32	6	11	50
L1780.20-5850	20	6.6	M6x25	5850	150	75	52	37	8.3	32	6	11	50
L1780.20-6000	20	6.6	M6x25	6000	150	75	52	37	8.3	32	6	11	50



25Ø Shaft Support Rails

complete steel shaft and aluminium support



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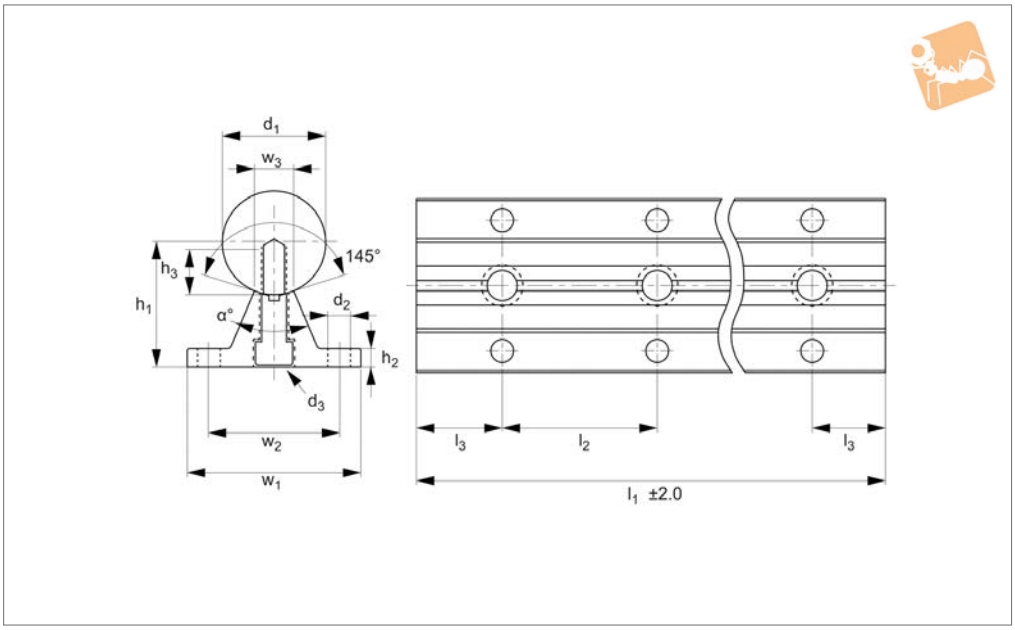


Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

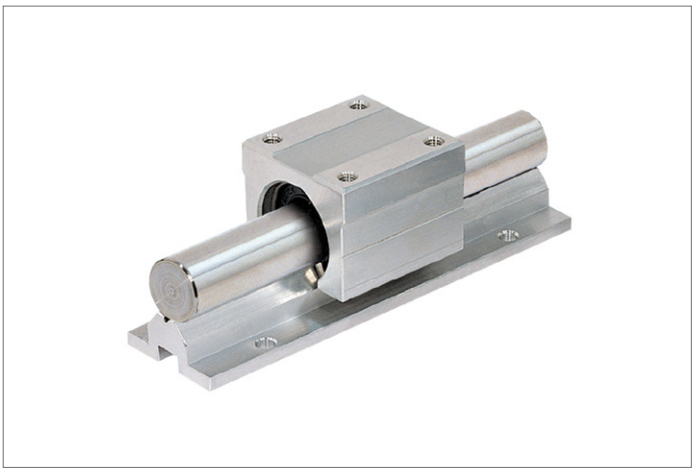
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

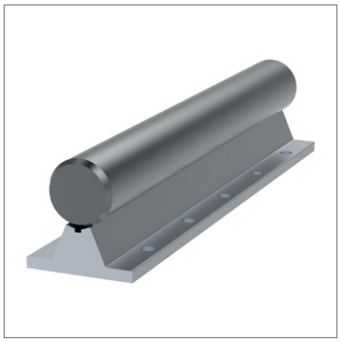
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.01	h_2	h_3	α °
L1780.25-0400	25	6.6	M8x30	400	200	100	57	42	10.8	36	6	15	50
L1780.25-0600	25	6.6	M8x30	600	200	100	57	42	10.8	36	6	15	50
L1780.25-0800	25	6.6	M8x30	800	200	100	57	42	10.8	36	6	15	50
L1780.25-1000	25	6.6	M8x30	1000	200	100	57	42	10.8	36	6	15	50
L1780.25-1200	25	6.6	M8x30	1200	200	100	57	42	10.8	36	6	15	50
L1780.25-1400	25	6.6	M8x30	1400	200	100	57	42	10.8	36	6	15	50
L1780.25-1600	25	6.6	M8x30	1600	200	100	57	42	10.8	36	6	15	50
L1780.25-1800	25	6.6	M8x30	1800	200	100	57	42	10.8	36	6	15	50
L1780.25-2000	25	6.6	M8x30	2000	200	100	57	42	10.8	36	6	15	50
L1780.25-2200	25	6.6	M8x30	2200	200	100	57	42	10.8	36	6	15	50
L1780.25-2400	25	6.6	M8x30	2400	200	100	57	42	10.8	36	6	15	50
L1780.25-2600	25	6.6	M8x30	2600	200	100	57	42	10.8	36	6	15	50
L1780.25-2800	25	6.6	M8x30	2800	200	100	57	42	10.8	36	6	15	50
L1780.25-3000	25	6.6	M8x30	3000	200	100	57	42	10.8	36	6	15	50
L1780.25-3200	25	6.6	M8x30	3200	200	100	57	42	10.8	36	6	15	50
L1780.25-3400	25	6.6	M8x30	3400	200	100	57	42	10.8	36	6	15	50
L1780.25-3600	25	6.6	M8x30	3600	200	100	57	42	10.8	36	6	15	50
L1780.25-3800	25	6.6	M8x30	3800	200	100	57	42	10.8	36	6	15	50
L1780.25-4000	25	6.6	M8x30	4000	200	100	57	42	10.8	36	6	15	50
L1780.25-4200	25	6.6	M8x30	4200	200	100	57	42	10.8	36	6	15	50
L1780.25-4400	25	6.6	M8x30	4400	200	100	57	42	10.8	36	6	15	50
L1780.25-4600	25	6.6	M8x30	4600	200	100	57	42	10.8	36	6	15	50
L1780.25-4800	25	6.6	M8x30	4800	200	100	57	42	10.8	36	6	15	50
L1780.25-5000	25	6.6	M8x30	5000	200	100	57	42	10.8	36	6	15	50
L1780.25-5200	25	6.6	M8x30	5200	200	100	57	42	10.8	36	6	15	50
L1780.25-5400	25	6.6	M8x30	5400	200	100	57	42	10.8	36	6	15	50
L1780.25-5600	25	6.6	M8x30	5600	200	100	57	42	10.8	36	6	15	50
L1780.25-5800	25	6.6	M8x30	5800	200	100	57	42	10.8	36	6	15	50
L1780.25-6000	25	6.6	M8x30	6000	200	100	57	42	10.8	36	6	15	50



30Ø Shaft Support Rails

complete steel shaft and aluminium support



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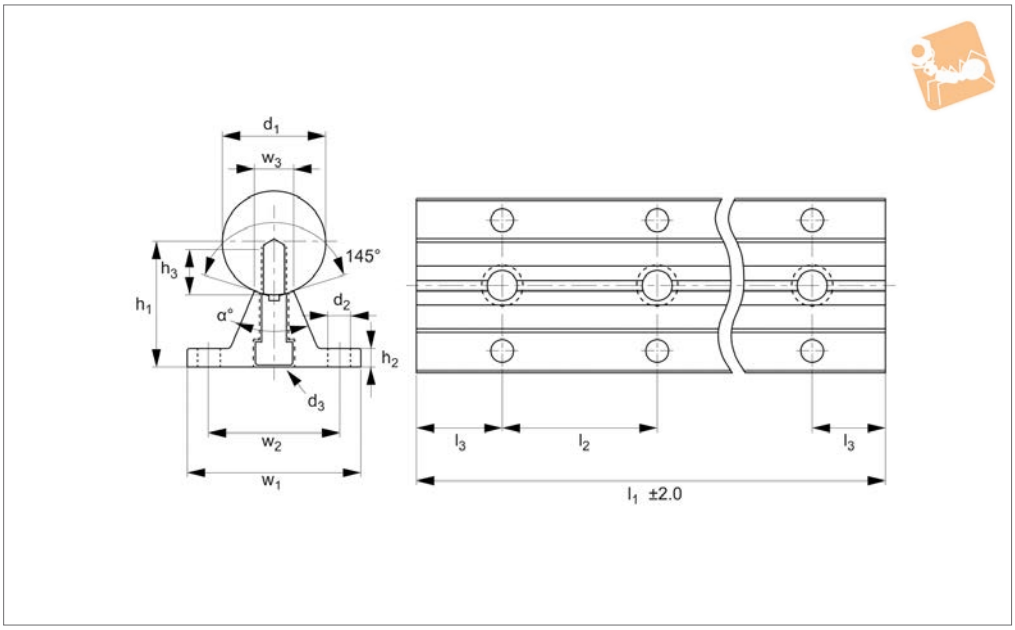


Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

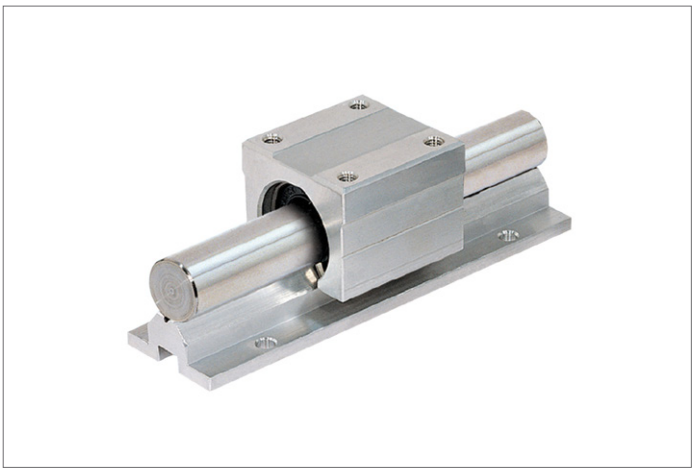
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

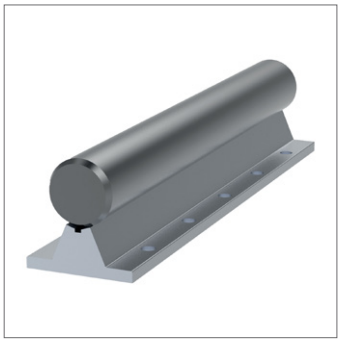
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1780.30-0400	30	9	M10x35	400	200	100	69	51	11	42	7	17	50
L1780.30-0600	30	9	M10x35	600	200	100	69	51	11	42	7	17	50
L1780.30-0800	30	9	M10x35	800	200	100	69	51	11	42	7	17	50
L1780.30-1000	30	9	M10x35	1000	200	100	69	51	11	42	7	17	50
L1780.30-1200	30	9	M10x35	1200	200	100	69	51	11	42	7	17	50
L1780.30-1400	30	9	M10x35	1400	200	100	69	51	11	42	7	17	50
L1780.30-1600	30	9	M10x35	1600	200	100	69	51	11	42	7	17	50
L1780.30-1800	30	9	M10x35	1800	200	100	69	51	11	42	7	17	50
L1780.30-2000	30	9	M10x35	2000	200	100	69	51	11	42	7	17	50
L1780.30-2200	30	9	M10x35	2200	200	100	69	51	11	42	7	17	50
L1780.30-2400	30	9	M10x35	2400	200	100	69	51	11	42	7	17	50
L1780.30-2600	30	9	M10x35	2600	200	100	69	51	11	42	7	17	50
L1780.30-2800	30	9	M10x35	2800	200	100	69	51	11	42	7	17	50
L1780.30-3000	30	9	M10x35	3000	200	100	69	51	11	42	7	17	50
L1780.30-3200	30	9	M10x35	3200	200	100	69	51	11	42	7	17	50
L1780.30-3400	30	9	M10x35	3400	200	100	69	51	11	42	7	17	50
L1780.30-3600	30	9	M10x35	3600	200	100	69	51	11	42	7	17	50
L1780.30-3800	30	9	M10x35	3800	200	100	69	51	11	42	7	17	50
L1780.30-4000	30	9	M10x35	4000	200	100	69	51	11	42	7	17	50
L1780.30-4200	30	9	M10x35	4200	200	100	69	51	11	42	7	17	50
L1780.30-4400	30	9	M10x35	4400	200	100	69	51	11	42	7	17	50
L1780.30-4600	30	9	M10x35	4600	200	100	69	51	11	42	7	17	50
L1780.30-4800	30	9	M10x35	4800	200	100	69	51	11	42	7	17	50
L1780.30-5000	30	9	M10x35	5000	200	100	69	51	11	42	7	17	50
L1780.30-5200	30	9	M10x35	5200	200	100	69	51	11	42	7	17	50
L1780.30-5400	30	9	M10x35	5400	200	100	69	51	11	42	7	17	50
L1780.30-5600	30	9	M10x35	5600	200	100	69	51	11	42	7	17	50
L1780.30-5800	30	9	M10x35	5800	200	100	69	51	11	42	7	17	50
L1780.30-6000	30	9	M10x35	6000	200	100	69	51	11	42	7	17	50

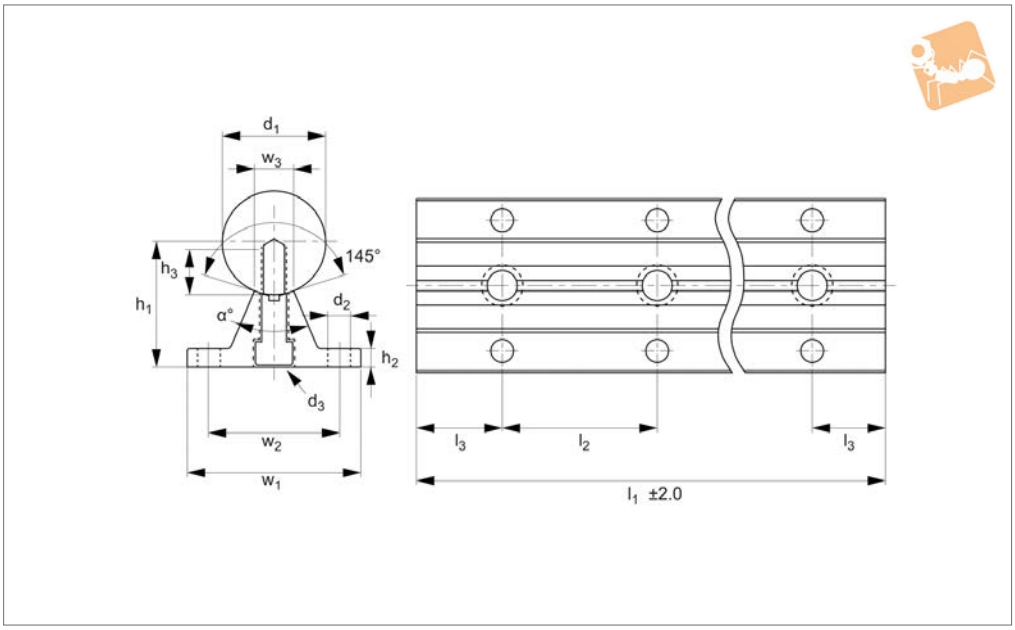


40Ø Shaft Support Rails

complete steel shaft and aluminium support



L1780.40



Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

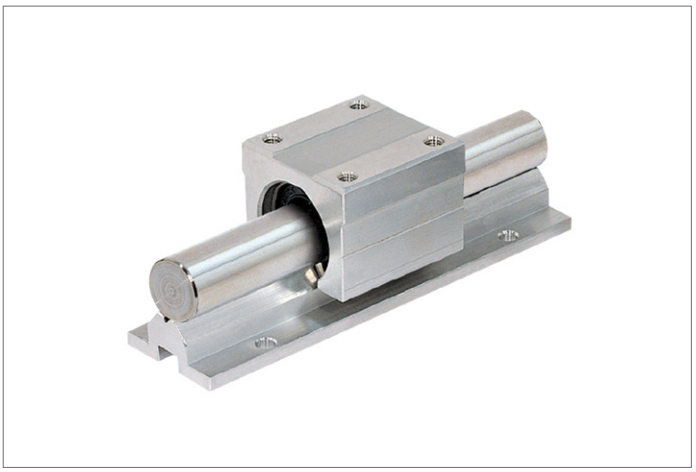
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

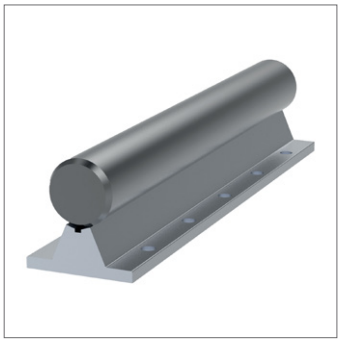
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1780.40-0600	40	9	M10x40	600	300	150	73	55	15	50	8	19	50
L1780.40-0900	40	9	M10x40	900	300	150	73	55	15	50	8	19	50
L1780.40-1200	40	9	M10x40	1200	300	150	73	55	15	50	8	19	50
L1780.40-1500	40	9	M10x40	1500	300	150	73	55	15	50	8	19	50
L1780.40-1800	40	9	M10x40	1800	300	150	73	55	15	50	8	19	50
L1780.40-2100	40	9	M10x40	2100	300	150	73	55	15	50	8	19	50
L1780.40-2400	40	9	M10x40	2400	300	150	73	55	15	50	8	19	50
L1780.40-2700	40	9	M10x40	2700	300	150	73	55	15	50	8	19	50
L1780.40-3000	40	9	M10x40	3000	300	150	73	55	15	50	8	19	50
L1780.40-3300	40	9	M10x40	3300	300	150	73	55	15	50	8	19	50
L1780.40-3600	40	9	M10x40	3600	300	150	73	55	15	50	8	19	50
L1780.40-3900	40	9	M10x40	3900	300	150	73	55	15	50	8	19	50
L1780.40-4200	40	9	M10x40	4200	300	150	73	55	15	50	8	19	50
L1780.40-4500	40	9	M10x40	4500	300	150	73	55	15	50	8	19	50
L1780.40-4800	40	9	M10x40	4800	300	150	73	55	15	50	8	19	50
L1780.40-5100	40	9	M10x40	5100	300	150	73	55	15	50	8	19	50
L1780.40-5400	40	9	M10x40	5400	300	150	73	55	15	50	8	19	50
L1780.40-5700	40	9	M10x40	5700	300	150	73	55	15	50	8	19	50
L1780.40-6000	40	9	M10x40	6000	300	150	73	55	15	50	8	19	50

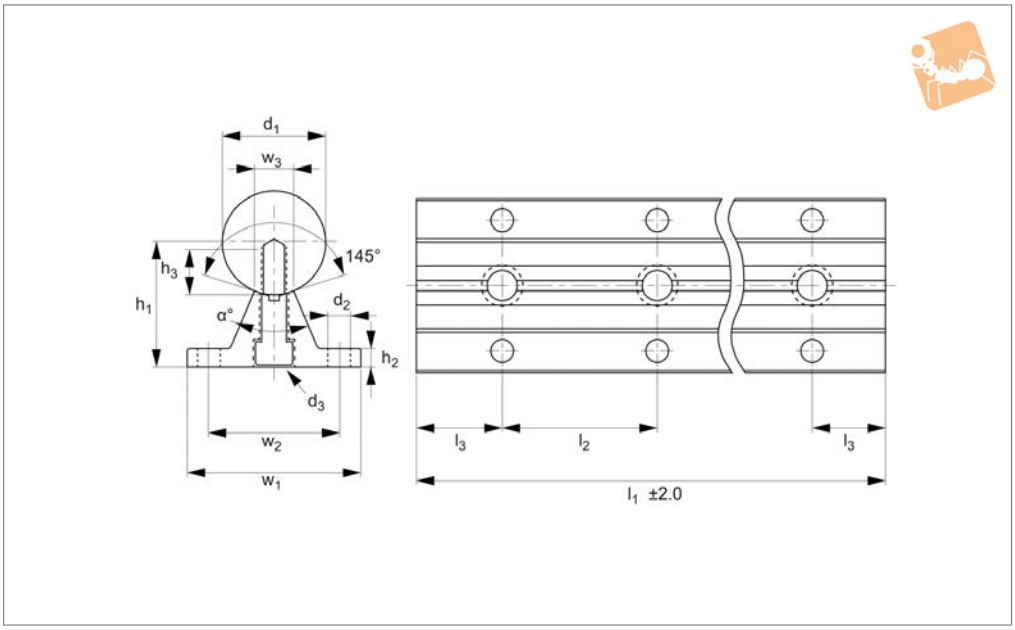


50Ø Shaft Support Rails

complete steel shaft and aluminium support



L1780.50



Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

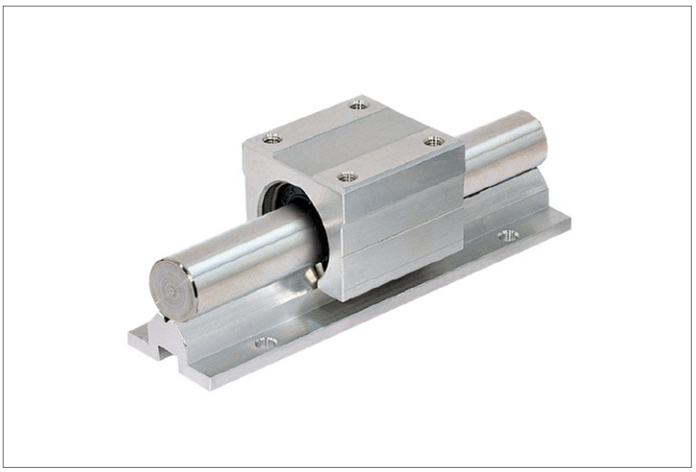
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

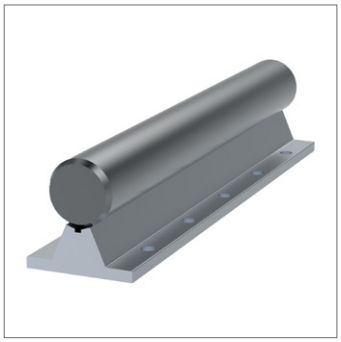
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1780.50-0600	50	11	M12x45	600	300	150	84	63	19	60	9	21	46
L1780.50-0900	50	11	M12x45	900	300	150	84	63	19	60	9	21	46
L1780.50-1200	50	11	M12x45	1200	300	150	84	63	19	60	9	21	46
L1780.50-1500	50	11	M12x45	1500	300	150	84	63	19	60	9	21	46
L1780.50-1800	50	11	M12x45	1800	300	150	84	63	19	60	9	21	46
L1780.50-2100	50	11	M12x45	2100	300	150	84	63	19	60	9	21	46
L1780.50-2400	50	11	M12x45	2400	300	150	84	63	19	60	9	21	46
L1780.50-2700	50	11	M12x45	2700	300	150	84	63	19	60	9	21	46
L1780.50-3000	50	11	M12x45	3000	300	150	84	63	19	60	9	21	46
L1780.50-3300	50	11	M12x45	3300	300	150	84	63	19	60	9	21	46
L1780.50-3600	50	11	M12x45	3600	300	150	84	63	19	60	9	21	46
L1780.50-3900	50	11	M12x45	3900	300	150	84	63	19	60	9	21	46
L1780.50-4200	50	11	M12x45	4200	300	150	84	63	19	60	9	21	46
L1780.50-4500	50	11	M12x45	4500	300	150	84	63	19	60	9	21	46
L1780.50-4800	50	11	M12x45	4800	300	150	84	63	19	60	9	21	46
L1780.50-5100	50	11	M12x45	5100	300	150	84	63	19	60	9	21	46
L1780.50-5400	50	11	M12x45	5400	300	150	84	63	19	60	9	21	46
L1780.50-5700	50	11	M12x45	5700	300	150	84	63	19	60	9	21	46
L1780.50-6000	50	11	M12x45	6000	300	150	84	63	19	60	9	21	46

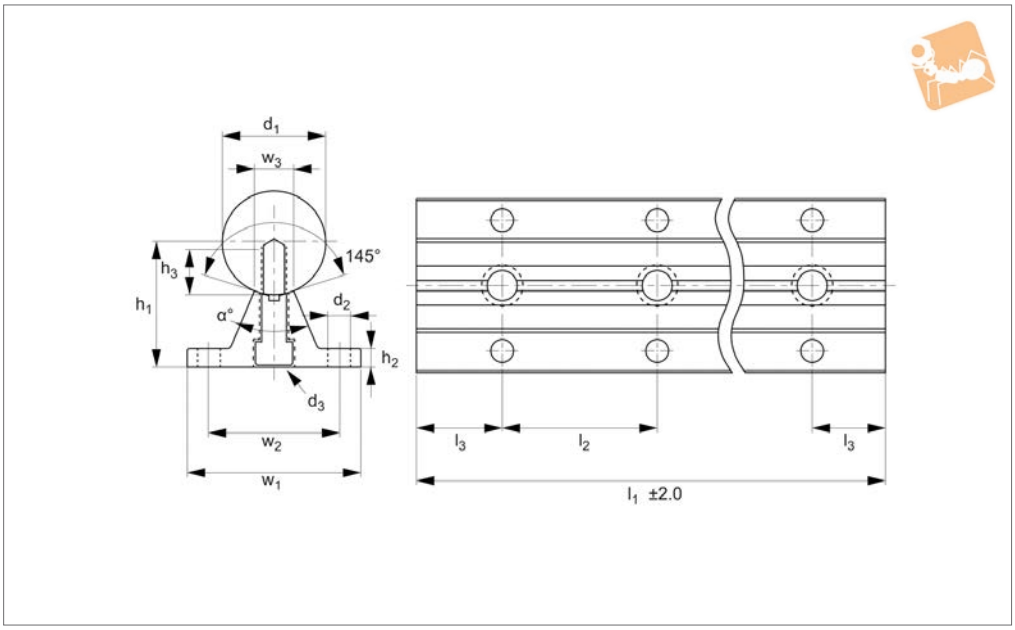


60Ø Shaft Support Rails

complete steel shaft and aluminium support



L1780.60



Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

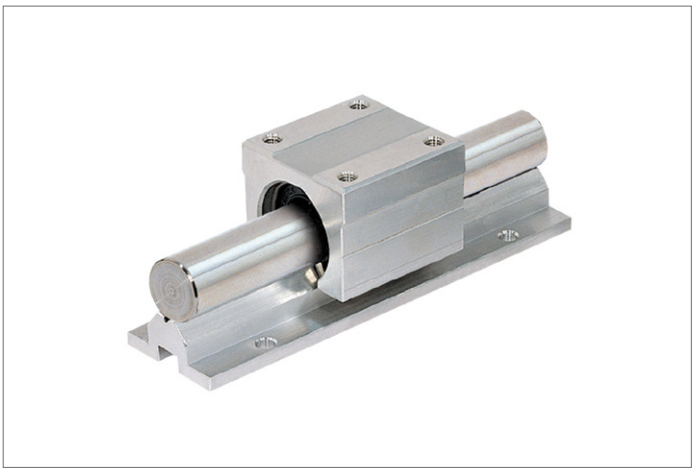
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

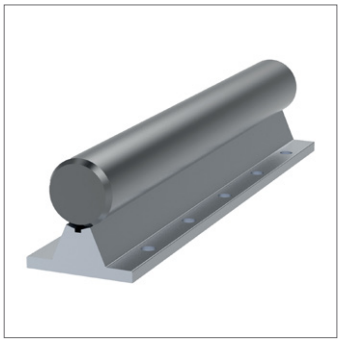
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1780.60-0600	60	11	M14x50	600	300	150	94	72	25	68	10	25	46
L1780.60-0900	60	11	M14x50	900	300	150	94	72	25	68	10	25	46
L1780.60-1200	60	11	M14x50	1200	300	150	94	72	25	68	10	25	46
L1780.60-1500	60	11	M14x50	1500	300	150	94	72	25	68	10	25	46
L1780.60-1800	60	11	M14x50	1800	300	150	94	72	25	68	10	25	46
L1780.60-2100	60	11	M14x50	2100	300	150	94	72	25	68	10	25	46
L1780.60-2400	60	11	M14x50	2400	300	150	94	72	25	68	10	25	46
L1780.60-2700	60	11	M14x50	2700	300	150	94	72	25	68	10	25	46
L1780.60-3000	60	11	M14x50	3000	300	150	94	72	25	68	10	25	46
L1780.60-3300	60	11	M14x50	3300	300	150	94	72	25	68	10	25	46
L1780.60-3600	60	11	M14x50	3600	300	150	94	72	25	68	10	25	46
L1780.60-3900	60	11	M14x50	3900	300	150	94	72	25	68	10	25	46
L1780.60-4200	60	11	M14x50	4200	300	150	94	72	25	68	10	25	46
L1780.60-4500	60	11	M14x50	4500	300	150	94	72	25	68	10	25	46
L1780.60-4800	60	11	M14x50	4800	300	150	94	72	25	68	10	25	46
L1780.60-5100	60	11	M14x50	5100	300	150	94	72	25	68	10	25	46
L1780.60-5400	60	11	M14x50	5400	300	150	94	72	25	68	10	25	46
L1780.60-5700	60	11	M14x50	5700	300	150	94	72	25	68	10	25	46
L1780.60-6000	60	11	M14x50	6000	300	150	94	72	25	68	10	25	46

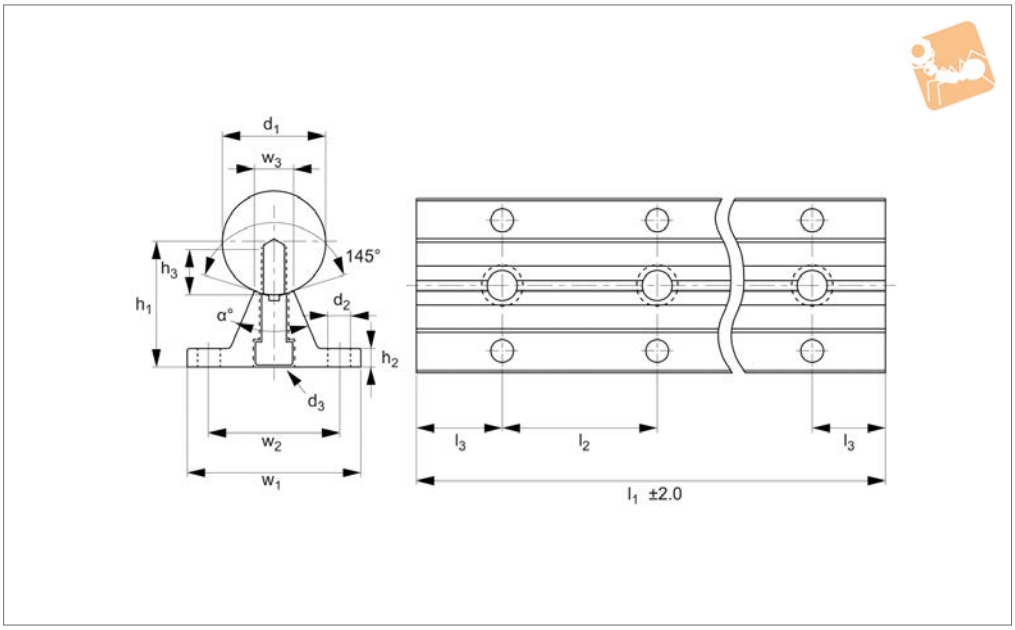


80Ø Shaft Support Rails

complete steel shaft and aluminium support



L1780.80



Material

Hardened and ground carbon steel shaft (070M55, Cf53 - DIN 1.1213), aluminium alloy support rail.
Surface hardness of steel shaft 60-65 HRC.

Technical Notes

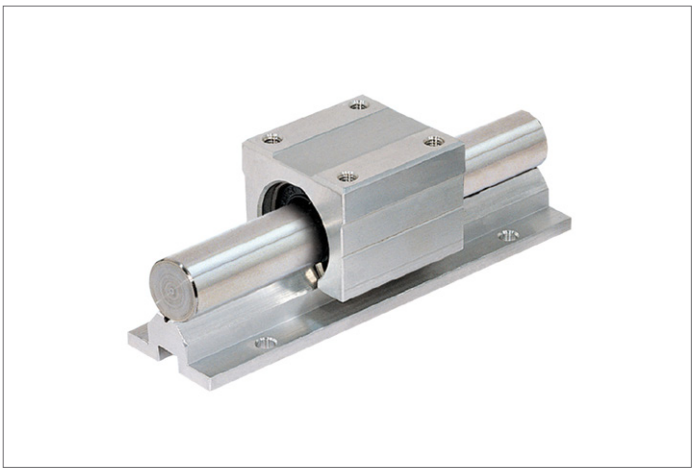
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

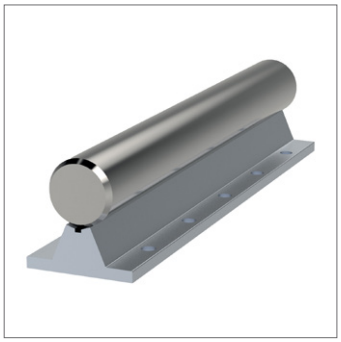
Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

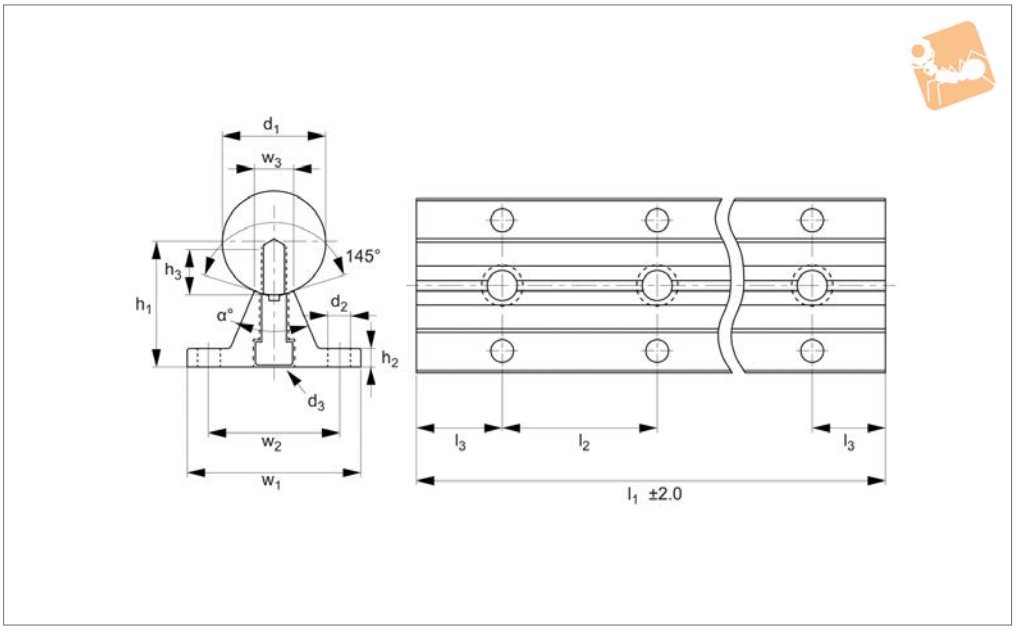
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1780.80-0600	80	13.5	M16x60	600	300	150	116	92	34	86	12	28	46
L1780.80-0900	80	13.5	M16x60	900	300	150	116	92	34	86	12	28	46
L1780.80-1200	80	13.5	M16x60	1200	300	150	116	92	34	86	12	28	46
L1780.80-1500	80	13.5	M16x60	1500	300	150	116	92	34	86	12	28	46
L1780.80-1800	80	13.5	M16x60	1800	300	150	116	92	34	86	12	28	46
L1780.80-2100	80	13.5	M16x60	2100	300	150	116	92	34	86	12	28	46
L1780.80-2400	80	13.5	M16x60	2400	300	150	116	92	34	86	12	28	46
L1780.80-2700	80	13.5	M16x60	2700	300	150	116	92	34	86	12	28	46
L1780.80-3000	80	13.5	M16x60	3000	300	150	116	92	34	86	12	28	46
L1780.80-3300	80	13.5	M16x60	3300	300	150	116	92	34	86	12	28	46
L1780.80-3600	80	13.5	M16x60	3600	300	150	116	92	34	86	12	28	46
L1780.80-3900	80	13.5	M16x60	3900	300	150	116	92	34	86	12	28	46
L1780.80-4200	80	13.5	M16x60	4200	300	150	116	92	34	86	12	28	46
L1780.80-4500	80	13.5	M16x60	4500	300	150	116	92	34	86	12	28	46
L1780.80-4800	80	13.5	M16x60	4800	300	150	116	92	34	86	12	28	46
L1780.80-5100	80	13.5	M16x60	5100	300	150	116	92	34	86	12	28	46
L1780.80-5400	80	13.5	M16x60	5400	300	150	116	92	34	86	12	28	46
L1780.80-5700	80	13.5	M16x60	5700	300	150	116	92	34	86	12	28	46
L1780.80-6000	80	13.5	M16x60	6000	300	150	116	92	34	86	12	28	46



12Ø Shaft Support Rails
complete shaft and rail



L1781.12



Material
Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

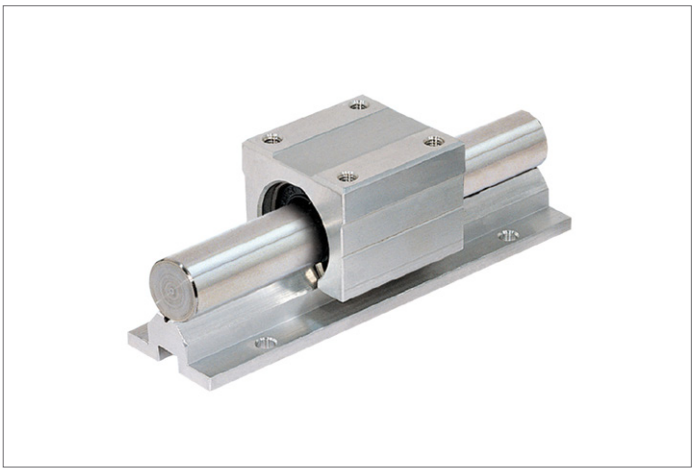
Technical Notes
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

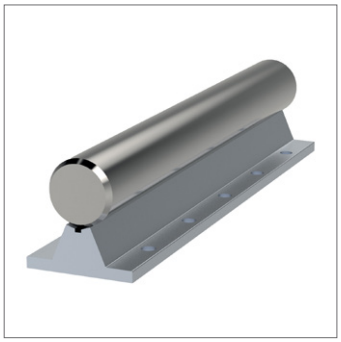
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.12-0240	12	4.5	M4x20	240	120	60	40	29	5.8	22	5	8	50
L1781.12-0360	12	4.5	M4x20	360	120	60	40	29	5.8	22	5	8	50
L1781.12-0480	12	4.5	M4x20	480	120	60	40	29	5.8	22	5	8	50
L1781.12-0600	12	4.5	M4x20	600	120	60	40	29	5.8	22	5	8	50
L1781.12-0720	12	4.5	M4x20	720	120	60	40	29	5.8	22	5	8	50
L1781.12-0840	12	4.5	M4x20	840	120	60	40	29	5.8	22	5	8	50
L1781.12-0960	12	4.5	M4x20	960	120	60	40	29	5.8	22	5	8	50
L1781.12-1080	12	4.5	M4x20	1080	120	60	40	29	5.8	22	5	8	50
L1781.12-1200	12	4.5	M4x20	1200	120	60	40	29	5.8	22	5	8	50
L1781.12-1320	12	4.5	M4x20	1320	120	60	40	29	5.8	22	5	8	50
L1781.12-1440	12	4.5	M4x20	1440	120	60	40	29	5.8	22	5	8	50
L1781.12-1560	12	4.5	M4x20	1560	120	60	40	29	5.8	22	5	8	50
L1781.12-1680	12	4.5	M4x20	1680	120	60	40	29	5.8	22	5	8	50
L1781.12-1800	12	4.5	M4x20	1800	120	60	40	29	5.8	22	5	8	50
L1781.12-1920	12	4.5	M4x20	1920	120	60	40	29	5.8	22	5	8	50
L1781.12-2040	12	4.5	M4x20	2040	120	60	40	29	5.8	22	5	8	50
L1781.12-2160	12	4.5	M4x20	2160	120	60	40	29	5.8	22	5	8	50
L1781.12-2280	12	4.5	M4x20	2280	120	60	40	29	5.8	22	5	8	50
L1781.12-2400	12	4.5	M4x20	2400	120	60	40	29	5.8	22	5	8	50
L1781.12-2520	12	4.5	M4x20	2520	120	60	40	29	5.8	22	5	8	50
L1781.12-2640	12	4.5	M4x20	2640	120	60	40	29	5.8	22	5	8	50
L1781.12-2760	12	4.5	M4x20	2760	120	60	40	29	5.8	22	5	8	50
L1781.12-2880	12	4.5	M4x20	2880	120	60	40	29	5.8	22	5	8	50
L1781.12-3000	12	4.5	M4x20	3000	120	60	40	29	5.8	22	5	8	50
L1781.12-3120	12	4.5	M4x20	3120	120	60	40	29	5.8	22	5	8	50
L1781.12-3240	12	4.5	M4x20	3240	120	60	40	29	5.8	22	5	8	50
L1781.12-3360	12	4.5	M4x20	3360	120	60	40	29	5.8	22	5	8	50
L1781.12-3480	12	4.5	M4x20	3480	120	60	40	29	5.8	22	5	8	50
L1781.12-3600	12	4.5	M4x20	3600	120	60	40	29	5.8	22	5	8	50
L1781.12-3720	12	4.5	M4x20	3720	120	60	40	29	5.8	22	5	8	50

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.12-3840	12	4.5	M4x20	3840	120	60	40	29	5.8	22	5	8	50
L1781.12-3960	12	4.5	M4x20	3960	120	60	40	29	5.8	22	5	8	50
L1781.12-4080	12	4.5	M4x20	4080	120	60	40	29	5.8	22	5	8	50
L1781.12-4200	12	4.5	M4x20	4200	120	60	40	29	5.8	22	5	8	50
L1781.12-4320	12	4.5	M4x20	4320	120	60	40	29	5.8	22	5	8	50
L1781.12-4440	12	4.5	M4x20	4440	120	60	40	29	5.8	22	5	8	50
L1781.12-4560	12	4.5	M4x20	4560	120	60	40	29	5.8	22	5	8	50
L1781.12-4680	12	4.5	M4x20	4680	120	60	40	29	5.8	22	5	8	50
L1781.12-4800	12	4.5	M4x20	4800	120	60	40	29	5.8	22	5	8	50
L1781.12-4920	12	4.5	M4x20	4920	120	60	40	29	5.8	22	5	8	50
L1781.12-5040	12	4.5	M4x20	5040	120	60	40	29	5.8	22	5	8	50
L1781.12-5160	12	4.5	M4x20	5150	120	60	40	29	5.8	22	5	8	50
L1781.12-5280	12	4.5	M4x20	5280	120	60	40	29	5.8	22	5	8	50
L1781.12-5400	12	4.5	M4x20	5400	120	60	40	29	5.8	22	5	8	50
L1781.12-5520	12	4.5	M4x20	5520	120	60	40	29	5.8	22	5	8	50
L1781.12-5640	12	4.5	M4x20	5640	120	60	40	29	5.8	22	5	8	50
L1781.12-5760	12	4.5	M4x20	5760	120	60	40	29	5.8	22	5	8	50
L1781.12-5880	12	4.5	M4x20	5880	120	60	40	29	5.8	22	5	8	50
L1781.12-6000	12	4.5	M4x20	6000	120	60	40	29	5.8	22	5	8	50



16Ø Shaft Support Rails

complete steel shaft and aluminium support



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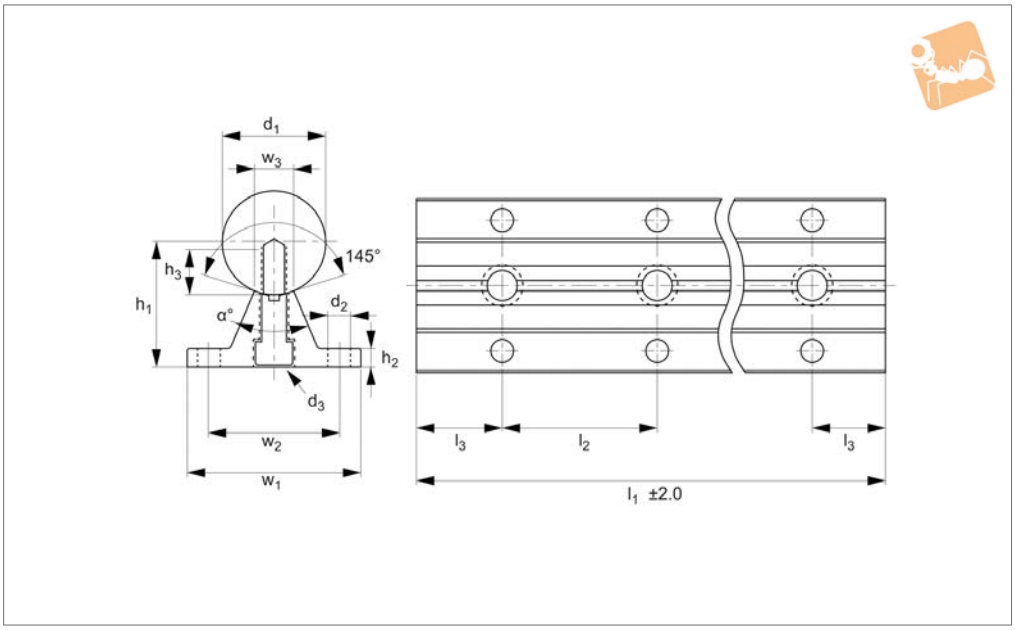


Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

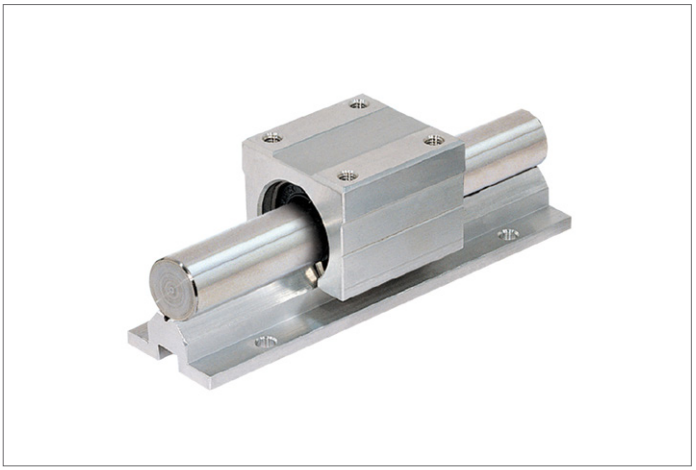
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.16-0300	16	5.5	M5x20	300	150	75	45	33	7	26	5	9	50
L1781.16-0450	16	5.5	M5x20	450	150	75	45	33	7	26	5	9	50
L1781.16-0600	16	5.5	M5x20	600	150	75	45	33	7	26	5	9	50
L1781.16-0750	16	5.5	M5x20	750	150	75	45	33	7	26	5	9	50
L1781.16-0900	16	5.5	M5x20	900	150	75	45	33	7	26	5	9	50
L1781.16-1050	16	5.5	M5x20	1050	150	75	45	33	7	26	5	9	50
L1781.16-1200	16	5.5	M5x20	1200	150	75	45	33	7	26	5	9	50
L1781.16-1350	16	5.5	M5x20	1350	150	75	45	33	7	26	5	9	50
L1781.16-1500	16	5.5	M5x20	1500	150	75	45	33	7	26	5	9	50
L1781.16-1650	16	5.5	M5x20	1650	150	75	45	33	7	26	5	9	50
L1781.16-1800	16	5.5	M5x20	1800	150	75	45	33	7	26	5	9	50
L1781.16-1950	16	5.5	M5x20	1950	150	75	45	33	7	26	5	9	50
L1781.16-2100	16	5.5	M5x20	2100	150	75	45	33	7	26	5	9	50
L1781.16-2250	16	5.5	M5x20	2250	150	75	45	33	7	26	5	9	50
L1781.16-2400	16	5.5	M5x20	2400	150	75	45	33	7	26	5	9	50
L1781.16-2550	16	5.5	M5x20	2550	150	75	45	33	7	26	5	9	50
L1781.16-2700	16	5.5	M5x20	2700	150	75	45	33	7	26	5	9	50
L1781.16-2850	16	5.5	M5x20	2850	150	75	45	33	7	26	5	9	50
L1781.16-3000	16	5.5	M5x20	3000	150	75	45	33	7	26	5	9	50
L1781.16-3150	16	5.5	M5x20	3150	150	75	45	33	7	26	5	9	50
L1781.16-3300	16	5.5	M5x20	3300	150	75	45	33	7	26	5	9	50
L1781.16-3450	16	5.5	M5x20	3450	150	75	45	33	7	26	5	9	50
L1781.16-3600	16	5.5	M5x20	3600	150	75	45	33	7	26	5	9	50
L1781.16-3750	16	5.5	M5x20	3750	150	75	45	33	7	26	5	9	50
L1781.16-3900	16	5.5	M5x20	3900	150	75	45	33	7	26	5	9	50
L1781.16-4050	16	5.5	M5x20	4050	150	75	45	33	7	26	5	9	50
L1781.16-4200	16	5.5	M5x20	4200	150	75	45	33	7	26	5	9	50
L1781.16-4350	16	5.5	M5x20	4350	150	75	45	33	7	26	5	9	50
L1781.16-4500	16	5.5	M5x20	4500	150	75	45	33	7	26	5	9	50
L1781.16-4650	16	5.5	M5x20	4650	150	75	45	33	7	26	5	9	50

16Ø Shaft Support Rails

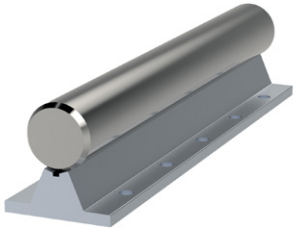
complete steel shaft and aluminium support

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.16-4800	16	5.5	M5x20	4800	150	75	45	33	7	26	5	9	50
L1781.16-4950	16	5.5	M5x20	4950	150	75	45	33	7	26	5	9	50
L1781.16-5100	16	5.5	M5x20	5100	150	75	45	33	7	26	5	9	50
L1781.16-5250	16	5.5	M5x20	5250	150	75	45	33	7	26	5	9	50
L1781.16-5400	16	5.5	M5x20	5400	150	75	45	33	7	26	5	9	50
L1781.16-5550	16	5.5	M5x20	5550	150	75	45	33	7	26	5	9	50
L1781.16-5700	16	5.5	M5x20	5700	150	75	45	33	7	26	5	9	50
L1781.16-5850	16	5.5	M5x20	5850	150	75	45	33	7	26	5	9	50
L1781.16-6000	16	5.5	M5x20	6000	150	75	45	33	7	26	5	9	50



20Ø Shaft Support Rails

complete stainless and aluminium support



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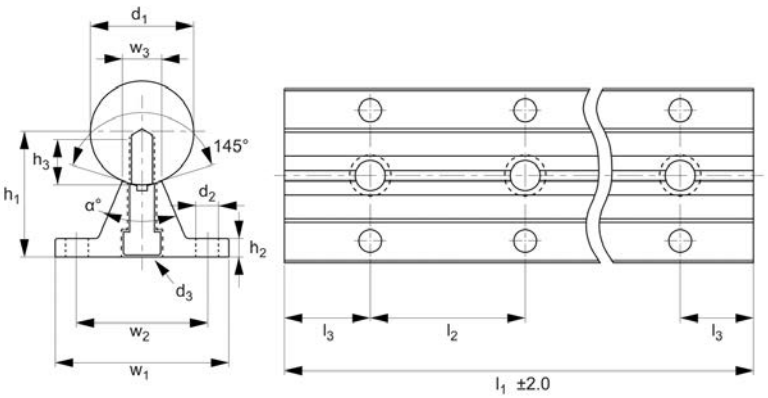


Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

For open linear bushings, ensures a very rigid and stiff system.

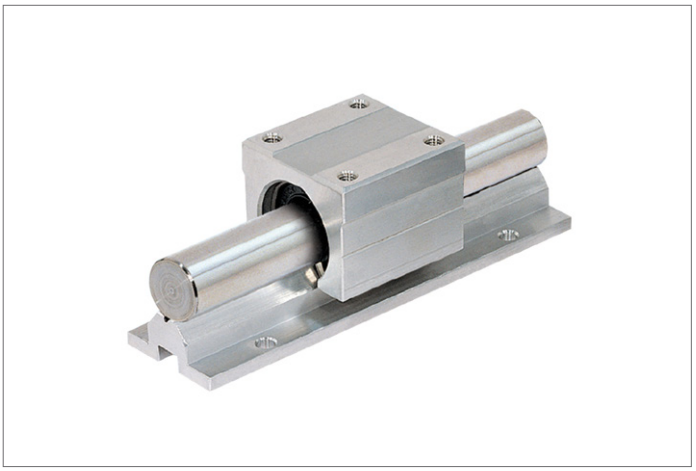
The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

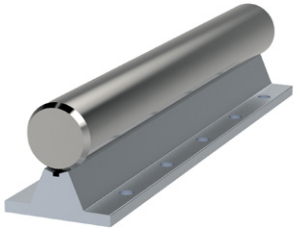
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.20-0300	20	6.6	M6x25	300	150	75	52	37	8.3	32	6	11	50
L1781.20-0450	20	6.6	M6x25	450	150	75	52	37	8.3	32	6	11	50
L1781.20-0600	20	6.6	M6x25	600	150	75	52	37	8.3	32	6	11	50
L1781.20-0750	20	6.6	M6x25	750	150	75	52	37	8.3	32	6	11	50
L1781.20-0900	20	6.6	M6x25	900	150	75	52	37	8.3	32	6	11	50
L1781.20-1050	20	6.6	M6x25	1050	150	75	52	37	8.3	32	6	11	50
L1781.20-1200	20	6.6	M6x25	1200	150	75	52	37	8.3	32	6	11	50
L1781.20-1350	20	6.6	M6x25	1350	150	75	52	37	8.3	32	6	11	50
L1781.20-1500	20	6.6	M6x25	1500	150	75	52	37	8.3	32	6	11	50
L1781.20-1650	20	6.6	M6x25	1650	150	75	52	37	8.3	32	6	11	50
L1781.20-1800	20	6.6	M6x25	1800	150	75	52	37	8.3	32	6	11	50
L1781.20-1950	20	6.6	M6x25	1950	150	75	52	37	8.3	32	6	11	50
L1781.20-2100	20	6.6	M6x25	2100	150	75	52	37	8.3	32	6	11	50
L1781.20-2250	20	6.6	M6x25	2250	150	75	52	37	8.3	32	6	11	50
L1781.20-2400	20	6.6	M6x25	2400	150	75	52	37	8.3	32	6	11	50
L1781.20-2550	20	6.6	M6x25	2550	150	75	52	37	8.3	32	6	11	50
L1781.20-2700	20	6.6	M6x25	2700	150	75	52	37	8.3	32	6	11	50
L1781.20-2850	20	6.6	M6x25	2850	150	75	52	37	8.3	32	6	11	50
L1781.20-3000	20	6.6	M6x25	3000	150	75	52	37	8.3	32	6	11	50
L1781.20-3150	20	6.6	M6x25	3150	150	75	52	37	8.3	32	6	11	50
L1781.20-3300	20	6.6	M6x25	3300	150	75	52	37	8.3	32	6	11	50
L1781.20-3450	20	6.6	M6x25	3450	150	75	52	37	8.3	32	6	11	50
L1781.20-3600	20	6.6	M6x25	3600	150	75	52	37	8.3	32	6	11	50
L1781.20-3750	20	6.6	M6x25	3750	150	75	52	37	8.3	32	6	11	50
L1781.20-3900	20	6.6	M6x25	3900	150	75	52	37	8.3	32	6	11	50
L1781.20-4000	20	6.6	M6x25	4000	150	75	52	37	8.3	32	6	11	50
L1781.20-4050	20	6.6	M6x25	4050	150	75	52	37	8.3	32	6	11	50
L1781.20-4200	20	6.6	M6x25	4200	150	75	52	37	8.3	32	6	11	50
L1781.20-4350	20	6.6	M6x25	4350	150	75	52	37	8.3	32	6	11	50
L1781.20-4500	20	6.6	M6x25	4500	150	75	52	37	8.3	32	6	11	50

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.20-4650	20	6.6	M6x25	4650	150	75	52	37	8.3	32	6	11	50
L1781.20-4800	20	6.6	M6x25	4800	150	75	52	37	8.3	32	6	11	50
L1781.20-4950	20	6.6	M6x25	4940	150	75	52	37	8.3	32	6	11	50
L1781.20-5100	20	6.6	M6x25	5100	150	75	52	37	8.3	32	6	11	50
L1781.20-5250	20	6.6	M6x25	5250	150	75	52	37	8.3	32	6	11	50
L1781.20-5400	20	6.6	M6x25	5400	150	75	52	37	8.3	32	6	11	50
L1781.20-5550	20	6.6	M6x25	5550	150	75	52	37	8.3	32	6	11	50
L1781.20-5700	20	6.6	M6x25	5700	150	75	52	37	8.3	32	6	11	50
L1781.20-5850	20	6.6	M6x25	5850	150	75	52	37	8.3	32	6	11	50
L1781.20-6000	20	6.6	M6x25	6000	150	75	52	37	8.3	32	6	11	50



25Ø Shaft Support Rails

complete stainless and aluminium support



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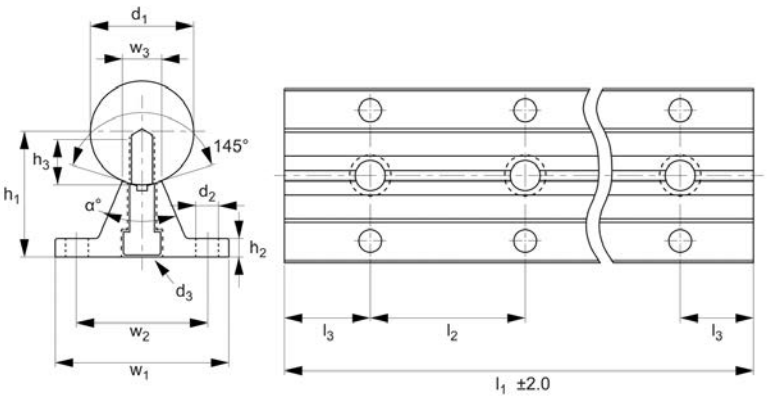


Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

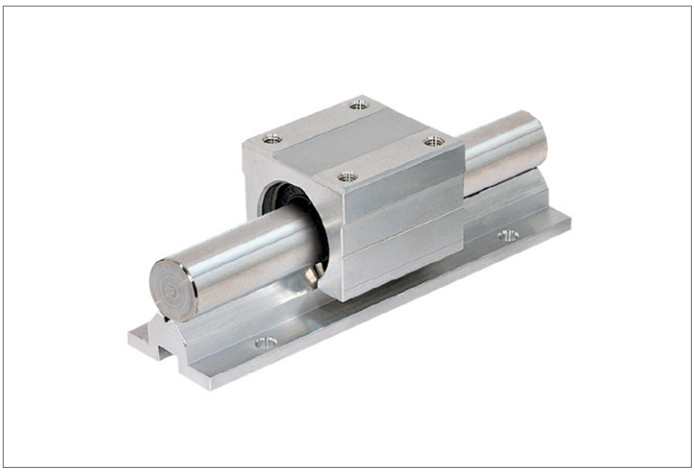
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

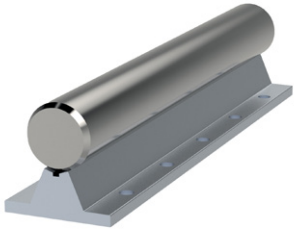
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.25-0400	25	6.6	M8x30	400	200	100	57	42	10.8	36	6	15	50
L1781.25-0600	25	6.6	M8x30	600	200	100	57	42	10.8	36	6	15	50
L1781.25-0800	25	6.6	M8x30	800	200	100	57	42	10.8	36	6	15	50
L1781.25-1000	25	6.6	M8x30	1000	200	100	57	42	10.8	36	6	15	50
L1781.25-1200	25	6.6	M8x30	1200	200	100	57	42	10.8	36	6	15	50
L1781.25-1400	25	6.6	M8x30	1400	200	100	57	42	10.8	36	6	15	50
L1781.25-1600	25	6.6	M8x30	1600	200	100	57	42	10.8	36	6	15	50
L1781.25-1800	25	6.6	M8x30	1800	200	100	57	42	10.8	36	6	15	50
L1781.25-2000	25	6.6	M8x30	2000	200	100	57	42	10.8	36	6	15	50
L1781.25-2200	25	6.6	M8x30	2200	200	100	57	42	10.8	36	6	15	50
L1781.25-2400	25	6.6	M8x30	2400	200	100	57	42	10.8	36	6	15	50
L1781.25-2600	25	6.6	M8x30	2600	200	100	57	42	10.8	36	6	15	50
L1781.25-2800	25	6.6	M8x30	2800	200	100	57	42	10.8	36	6	15	50
L1781.25-3000	25	6.6	M8x30	3000	200	100	57	42	10.8	36	6	15	50
L1781.25-3200	25	6.6	M8x30	3200	200	100	57	42	10.8	36	6	15	50
L1781.25-3400	25	6.6	M8x30	3400	200	100	57	42	10.8	36	6	15	50
L1781.25-3600	25	6.6	M8x30	3600	200	100	57	42	10.8	36	6	15	50
L1781.25-3800	25	6.6	M8x30	3800	200	100	57	42	10.8	36	6	15	50
L1781.25-4000	25	6.6	M8x30	4000	200	100	57	42	10.8	36	6	15	50
L1781.25-4200	25	6.6	M8x30	4200	200	100	57	42	10.8	36	6	15	50
L1781.25-4400	25	6.6	M8x30	4400	200	100	57	42	10.8	36	6	15	50
L1781.25-4600	25	6.6	M8x30	4600	200	100	57	42	10.8	36	6	15	50
L1781.25-4800	25	6.6	M8x30	4800	200	100	57	42	10.8	36	6	15	50
L1781.25-5000	25	6.6	M8x30	5000	200	100	57	42	10.8	36	6	15	50
L1781.25-5200	25	6.6	M8x30	5200	200	100	57	42	10.8	36	6	15	50
L1781.25-5400	25	6.6	M8x30	5400	200	100	57	42	10.8	36	6	15	50
L1781.25-5600	25	6.6	M8x30	5600	200	100	57	42	10.8	36	6	15	50
L1781.25-5800	25	6.6	M8x30	5800	200	100	57	42	10.8	36	6	15	50
L1781.25-6000	25	6.6	M8x30	6000	200	100	57	42	10.8	36	6	15	50



30Ø Shaft Support Rails

complete stainless and aluminium support



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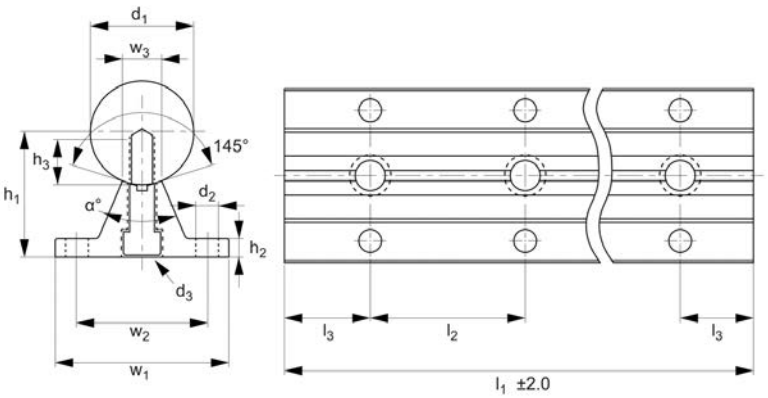


Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

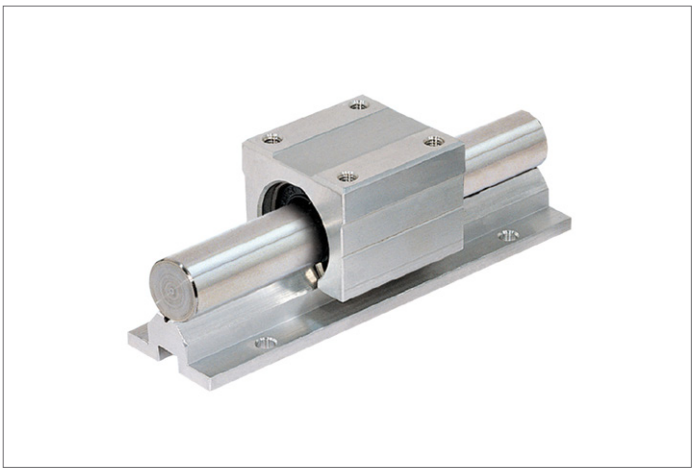
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

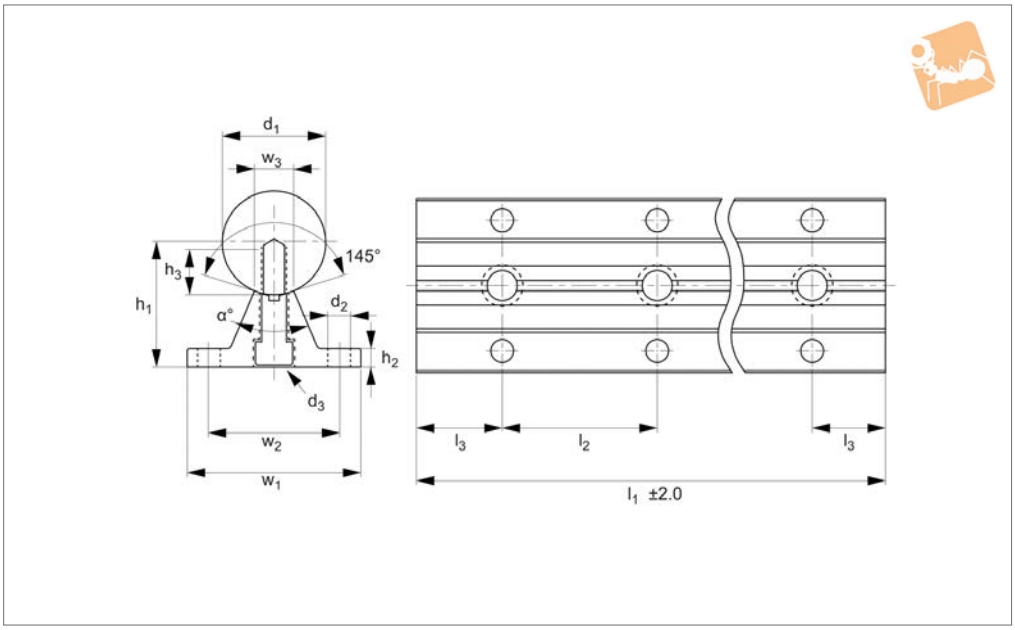
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.30-0400	30	9	M10x35	400	200	100	69	51	11	42	7	17	50
L1781.30-0600	30	9	M10x35	600	200	100	69	51	11	42	7	17	50
L1781.30-0800	30	9	M10x35	800	200	100	69	51	11	42	7	17	50
L1781.30-1000	30	9	M10x35	1000	200	100	69	51	11	42	7	17	50
L1781.30-1200	30	9	M10x35	1200	200	100	69	51	11	42	7	17	50
L1781.30-1400	30	9	M10x35	1400	200	100	69	51	11	42	7	17	50
L1781.30-1600	30	9	M10x35	1600	200	100	69	51	11	42	7	17	50
L1781.30-1800	30	9	M10x35	1800	200	100	69	51	11	42	7	17	50
L1781.30-2000	30	9	M10x35	2000	200	100	69	51	11	42	7	17	50
L1781.30-2200	30	9	M10x35	2200	200	100	69	51	11	42	7	17	50
L1781.30-2400	30	9	M10x35	2400	200	100	69	51	11	42	7	17	50
L1781.30-2600	30	9	M10x35	2600	200	100	69	51	11	42	7	17	50
L1781.30-2800	30	9	M10x35	2800	200	100	69	51	11	42	7	17	50
L1781.30-3000	30	9	M10x35	3000	200	100	69	51	11	42	7	17	50
L1781.30-3200	30	9	M10x35	3200	200	100	69	51	11	42	7	17	50
L1781.30-3400	30	9	M10x35	3400	200	100	69	51	11	42	7	17	50
L1781.30-3600	30	9	M10x35	3600	200	100	69	51	11	42	7	17	50
L1781.30-3800	30	9	M10x35	3800	200	100	69	51	11	42	7	17	50
L1781.30-4000	30	9	M10x35	4000	200	100	69	51	11	42	7	17	50
L1781.30-4200	30	9	M10x35	4200	200	100	69	51	11	42	7	17	50
L1781.30-4400	30	9	M10x35	4400	200	100	69	51	11	42	7	17	50
L1781.30-4600	30	9	M10x35	4600	200	100	69	51	11	42	7	17	50
L1781.30-4800	30	9	M10x35	4800	200	100	69	51	11	42	7	17	50
L1781.30-5000	30	9	M10x35	5000	200	100	69	51	11	42	7	17	50
L1781.30-5200	30	9	M10x35	5200	200	100	69	51	11	42	7	17	50
L1781.30-5400	30	9	M10x35	5400	200	100	69	51	11	42	7	17	50
L1781.30-5600	30	9	M10x35	5600	200	100	69	51	11	42	7	17	50
L1781.30-5800	30	9	M10x35	5800	200	100	69	51	11	42	7	17	50
L1781.30-6000	30	9	M10x35	6000	200	100	69	51	11	42	7	17	50



40Ø Shaft Support Rails

complete stainless and aluminium support

L1781.40



Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

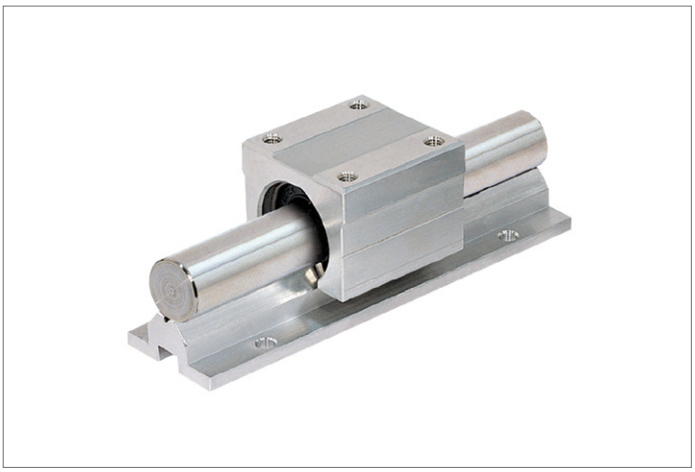
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

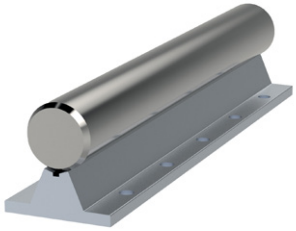
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.40-0600	40	9	M10x40	600	300	150	73	55	15	50	8	19	50
L1781.40-0900	40	9	M10x40	900	300	150	73	55	15	50	8	19	50
L1781.40-1200	40	9	M10x40	1200	300	150	73	55	15	50	8	19	50
L1781.40-1500	40	9	M10x40	1500	300	150	73	55	15	50	8	19	50
L1781.40-1800	40	9	M10x40	1800	300	150	73	55	15	50	8	19	50
L1781.40-2100	40	9	M10x40	2100	300	150	73	55	15	50	8	19	50
L1781.40-2400	40	9	M10x40	2400	300	150	73	55	15	50	8	19	50
L1781.40-2700	40	9	M10x40	2700	300	150	73	55	15	50	8	19	50
L1781.40-3000	40	9	M10x40	3000	300	150	73	55	15	50	8	19	50
L1781.40-3300	40	9	M10x40	3300	300	150	73	55	15	50	8	19	50
L1781.40-3600	40	9	M10x40	3600	300	150	73	55	15	50	8	19	50
L1781.40-3900	40	9	M10x40	3900	300	150	73	55	15	50	8	19	50
L1781.40-4200	40	9	M10x40	4200	300	150	73	55	15	50	8	19	50
L1781.40-4500	40	9	M10x40	4500	300	150	73	55	15	50	8	19	50
L1781.40-4800	40	9	M10x40	4800	300	150	73	55	15	50	8	19	50
L1781.40-5100	40	9	M10x40	5100	300	150	73	55	15	50	8	19	50
L1781.40-5400	40	9	M10x40	5400	300	150	73	55	15	50	8	19	50
L1781.40-5700	40	9	M10x40	5700	300	150	73	55	15	50	8	19	50
L1781.40-6000	40	9	M10x40	6000	300	150	73	55	15	50	8	19	50

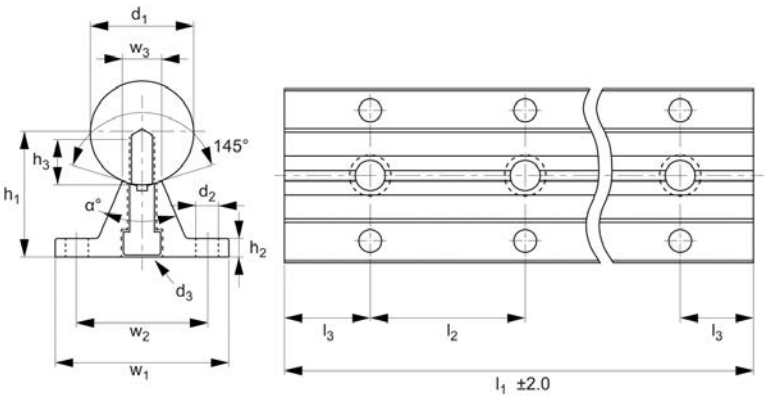


50Ø Shaft Support Rails

complete stainless and aluminium support



L1781.50



Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

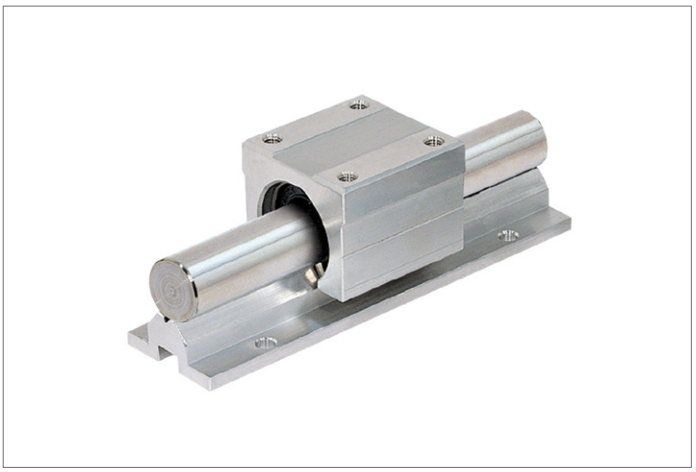
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

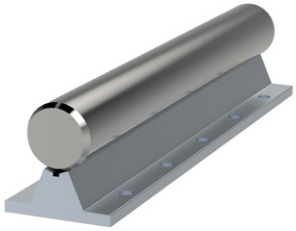
For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.50-0600	50	11	M12x45	600	300	150	84	63	19	60	9	21	46
L1781.50-0900	50	11	M12x45	900	300	150	84	63	19	60	9	21	46
L1781.50-1200	50	11	M12x45	1200	300	150	84	63	19	60	9	21	46
L1781.50-1500	50	11	M12x45	1500	300	150	84	63	19	60	9	21	46
L1781.50-1800	50	11	M12x45	1800	300	150	84	63	19	60	9	21	46
L1781.50-2100	50	11	M12x45	2100	300	150	84	63	19	60	9	21	46
L1781.50-2400	50	11	M12x45	2400	300	150	84	63	19	60	9	21	46
L1781.50-2700	50	11	M12x45	2700	300	150	84	63	19	60	9	21	46
L1781.50-3000	50	11	M12x45	3000	300	150	84	63	19	60	9	21	46
L1781.50-3300	50	11	M12x45	3300	300	150	84	63	19	60	9	21	46
L1781.50-3600	50	11	M12x45	3600	300	150	84	63	19	60	9	21	46
L1781.50-3900	50	11	M12x45	3900	300	150	84	63	19	60	9	21	46
L1781.50-4200	50	11	M12x45	4200	300	150	84	63	19	60	9	21	46
L1781.50-4500	50	11	M12x45	4500	300	150	84	63	19	60	9	21	46
L1781.50-4800	50	11	M12x45	4800	300	150	84	63	19	60	9	21	46
L1781.50-5100	50	11	M12x45	5100	300	150	84	63	19	60	9	21	46
L1781.50-5400	50	11	M12x45	5400	300	150	84	63	19	60	9	21	46
L1781.50-5700	50	11	M12x45	5700	300	150	84	63	19	60	9	21	46
L1781.50-6000	50	11	M12x45	6000	300	150	84	63	19	60	9	21	46

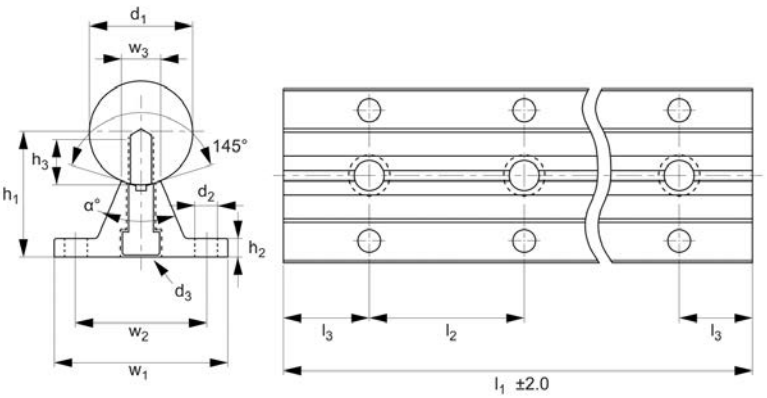


60Ø Shaft Support Rails

complete stainless and aluminium support



L1781.60



Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

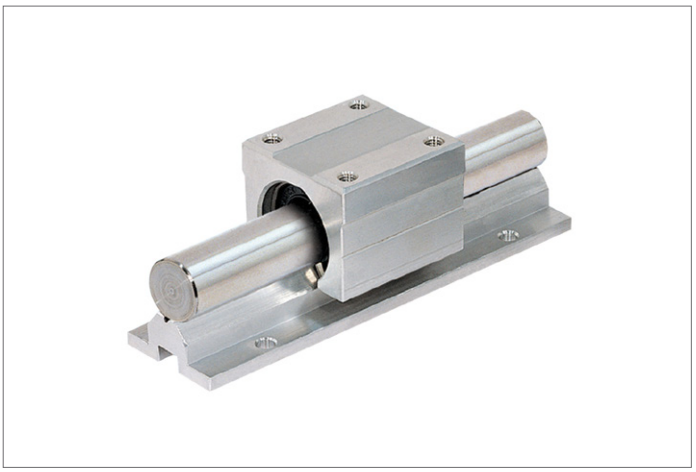
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

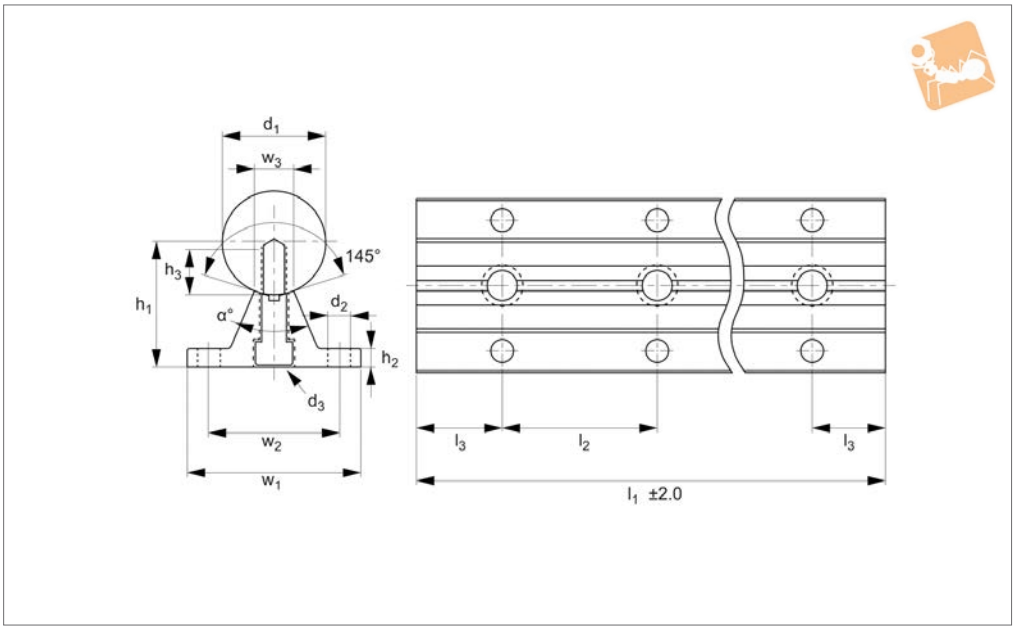
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.60-0600	60	11	M14x50	600	300	150	94	72	25	68	10	25	46
L1781.60-0900	60	11	M14x50	900	300	150	94	72	25	68	10	25	46
L1781.60-1200	60	11	M14x50	1200	300	150	94	72	25	68	10	25	46
L1781.60-1500	60	11	M14x50	1500	300	150	94	72	25	68	10	25	46
L1781.60-1800	60	11	M14x50	1800	300	150	94	72	25	68	10	25	46
L1781.60-2100	60	11	M14x50	2100	300	150	94	72	25	68	10	25	46
L1781.60-2400	60	11	M14x50	2400	300	150	94	72	25	68	10	25	46
L1781.60-2700	60	11	M14x50	2700	300	150	94	72	25	68	10	25	46
L1781.60-3000	60	11	M14x50	3000	300	150	94	72	25	68	10	25	46
L1781.60-3300	60	11	M14x50	3300	300	150	94	72	25	68	10	25	46
L1781.60-3600	60	11	M14x50	3600	300	150	94	72	25	68	10	25	46
L1781.60-3900	60	11	M14x50	3900	300	150	94	72	25	68	10	25	46
L1781.60-4200	60	11	M14x50	4200	300	150	94	72	25	68	10	25	46
L1781.60-4500	60	11	M14x50	4500	300	150	94	72	25	68	10	25	46
L1781.60-4800	60	11	M14x50	4800	300	150	94	72	25	68	10	25	46
L1781.60-5100	60	11	M14x50	5100	300	150	94	72	25	68	10	25	46
L1781.60-5400	60	11	M14x50	5400	300	150	94	72	25	68	10	25	46
L1781.60-5700	60	11	M14x50	5700	300	150	94	72	25	68	10	25	46
L1781.60-6000	60	11	M14x50	6000	300	150	94	72	25	68	10	25	46



80Ø Shaft Support Rails

complete stainless and aluminium support

L1781.80



Material

Hardened and ground stainless steel shaft (440C), aluminium alloy support rail.
Surface hardness of shaft 60-65 HRC.

Technical Notes

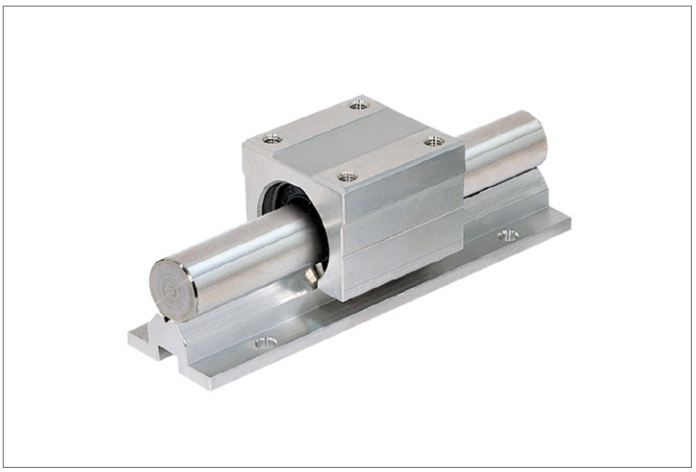
For open linear bushings, ensures a very rigid and stiff system.

The shaft is pre-mounted to the shaft support rail.
Standard lengths are shown which allow the distance to the first and last hole to be equal (ie $l_2/2$). Different holes pitches available on request.
Straightness: ±0.1mm/metre.

Tips

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

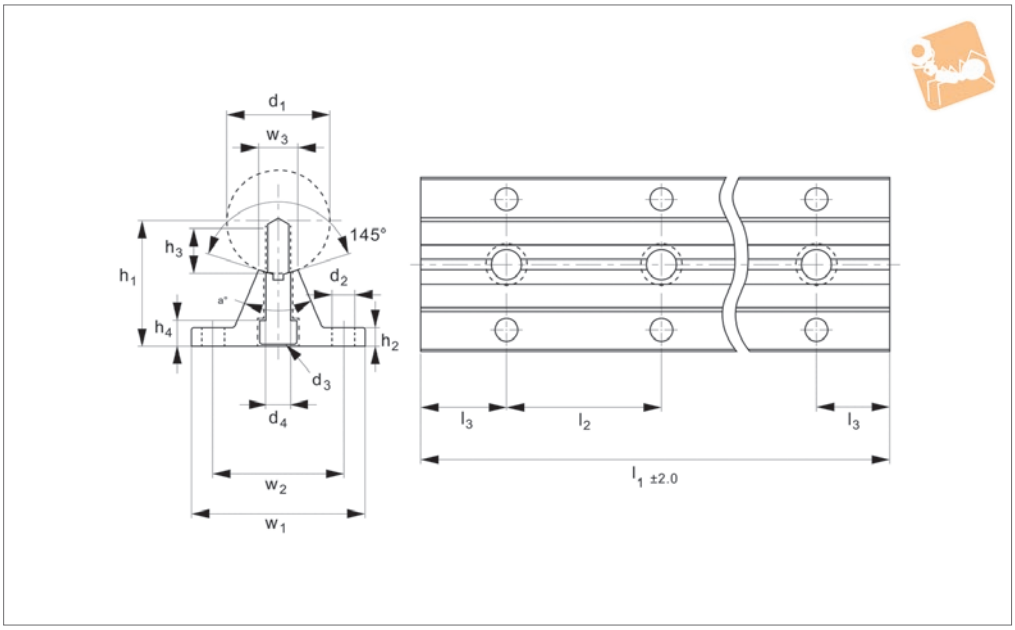
Order No.	d_1 tol. h6	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.02	h_2	h_3	α °
L1781.80-0600	80	13.5	M16x60	600	300	150	116	92	34	86	12	28	46
L1781.80-0900	80	13.5	M16x60	900	300	150	116	92	34	86	12	28	46
L1781.80-1200	80	13.5	M16x60	1200	300	150	116	92	34	86	12	28	46
L1781.80-1500	80	13.5	M16x60	1500	300	150	116	92	34	86	12	28	46
L1781.80-1800	80	13.5	M16x60	1800	300	150	116	92	34	86	12	28	46
L1781.80-2100	80	13.5	M16x60	2100	300	150	116	92	34	86	12	28	46
L1781.80-2400	80	13.5	M16x60	2400	300	150	116	92	34	86	12	28	46
L1781.80-2700	80	13.5	M16x60	2700	300	150	116	92	34	86	12	28	46
L1781.80-3000	80	13.5	M16x60	3000	300	150	116	92	34	86	12	28	46
L1781.80-3300	80	13.5	M16x60	3300	300	150	116	92	34	86	12	28	46
L1781.80-3600	80	13.5	M16x60	3600	300	150	116	92	34	86	12	28	46
L1781.80-3900	80	13.5	M16x60	3900	300	150	116	92	34	86	12	28	46
L1781.80-4200	80	13.5	M16x60	4200	300	150	116	92	34	86	12	28	46
L1781.80-4500	80	13.5	M16x60	4500	300	150	116	92	34	86	12	28	46
L1781.80-4800	80	13.5	M16x60	4800	300	150	116	92	34	86	12	28	46
L1781.80-5100	80	13.5	M16x60	5100	300	150	116	92	34	86	12	28	46
L1781.80-5400	80	13.5	M16x60	5400	300	150	116	92	34	86	12	28	46
L1781.80-5700	80	13.5	M16x60	5700	300	150	116	92	34	86	12	28	46
L1781.80-6000	80	13.5	M16x60	6000	300	150	116	92	34	86	12	28	46



Shaft Support Rail

support rail

L1783

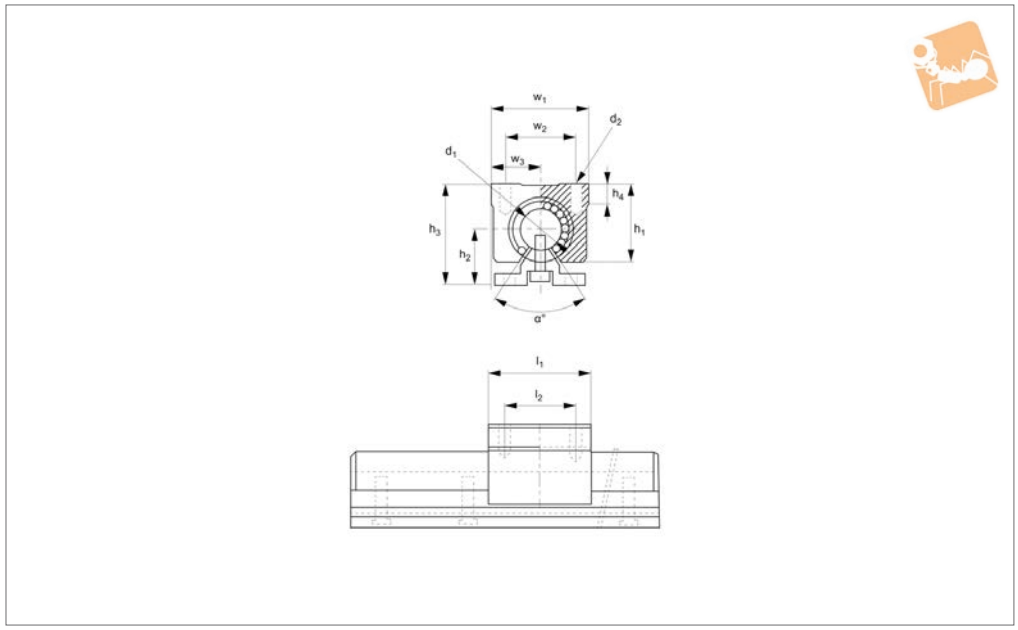


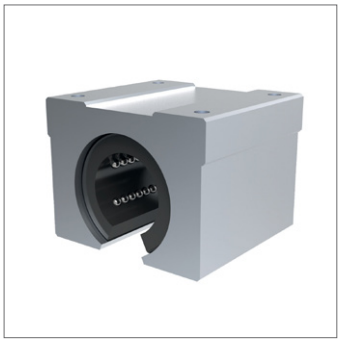
Material
Aluminium alloy support rail.

Technical Notes
For open linear bushings, ensures a very rigid and stiff system.
Standard lengths are shown which allow the distance to the first and last hole to be equal holes. For use with shaftsL1770 to L1774.

For linear carriages see part no. L1755 (flanged) or L1752 (unflanged).
Stainless steel carriages also available, see part no. L1756 (flanged) or L1753 (unflanged).

Order No.	a °	d_1	d_2	d_3	l_1	l_2	l_3	w_1	w_2	w_3	h_1 ±0.15	h_2	h_3	Weight
L1783.12-600-T1	50	12	4.5	8.0	600	75	37.5	40	29	5.8	22	5	5.0	0.45
L1783.16-600-T1	50	16	5.5	9.5	600	100	50	45	33	7.0	26	5	6.0	0.55
L1783.20-600-T1	50	20	6.6	11.0	600	100	50	52	37	8.3	32	6	6.5	0.80
L1783.25-600-T1	50	25	6.6	14.0	600	120	60	57	42	10.8	36	6	8.5	0.91
L1783.30-600-T1	50	30	9.0	17.0	600	150	75	69	51	11.0	42	7	10.5	1.15
L1783.40-600-T1	50	40	9.0	17.0	600	200	100	73	55	15.0	50	8	10.5	1.58
L1783.50-600-T1	46	50	11.0	19.0	600	200	100	84	63	19.0	60	9	12.5	2.13
L1783.12-600-T2	50	12	4.5	8.0	600	120	60	40	29	5.8	22	5	5.0	0.45
L1783.16-600-T2	50	16	5.5	9.5	600	150	75	45	33	7.0	26	5	6.0	0.55
L1783.20-600-T2	50	20	6.6	11.0	600	150	75	52	37	8.3	32	6	6.5	0.80
L1783.25-600-T2	50	25	6.6	14.0	600	200	100	57	42	10.8	36	6	8.5	0.91
L1783.30-600-T2	50	30	9.0	17.0	600	200	100	69	51	11.0	42	7	10.5	1.15
L1783.40-600-T2	50	40	9.0	17.0	600	300	150	73	55	15.0	50	8	10.5	1.58
L1783.50-600-T2	46	50	11.0	19.0	600	300	150	84	63	19.0	60	9	12.5	2.13





L1752

Material
Aluminium body, with L1707 (steel shell) linear bearing installed. Bearing has a resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

Technical Notes
For use with hardened shafts only - see part no.s L1770 - L1772.
Temperature range: -20°C to +80°C.

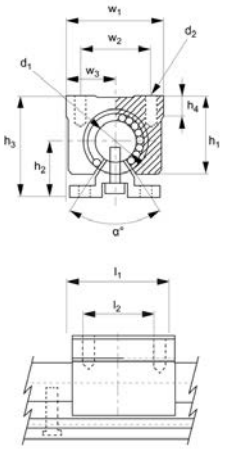
Tips
Use with shaft support rail L1780.
Particularly effective for high loads and long stroke applications.

Important Notes
If using the carriage inverted, ie hanging loads, then the load rating is reduced by 50%.

Order No.	d_1 tol. h6	l_1	d_2	h_1	h_2	h_3 ±0.05	h_4	l_2 ±0.2	w_1	w_2 ±0.2	w_3	α °	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1752.016	16	45	M 5x12	33	26	46	9	30	45	32	22.5	80°	770	1170	150
L1752.020	20	50	M 6x12	39	32	55	11	35	48	35	24.0	60°	860	1370	200
L1752.025	25	65	M 6x12	47	36	62	14	40	60	40	30.0	50°	980	1560	450
L1752.030	30	70	M 8x18	56	42	75	15	50	70	50	35.0	50°	1560	2740	630
L1752.040	40	90	M10x20	72	50	92	20	65	90	65	45.0	50°	2150	4010	1330
L1752.050	50	110	M10x20	91	60	113	25	80	120	94	60.0	50°	3820	7930	3000

Stainless Unflanged Carriages
open

L1753



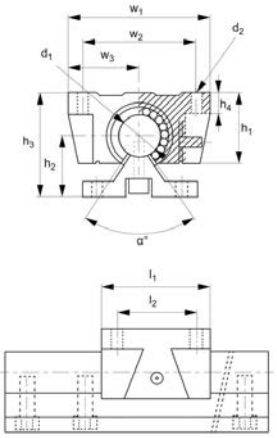
Material
Aluminium carriage housing with L1710 stainless steel (440C) linear bushing installed. Bushing has a resin -RS (POM) or stainless steel -SS (316) retainer and nitrile rubber (NBR) end seals -UU. Stainless steel balls 440C.

Technical Notes
For use with shaft support rails (see part number L1781 with hardened corrosive resistent shaft).
Temperature range: -20°C to +120°C.

Tips
Particularly effective for high loads and long stroke applications.

Important Notes
If using the carriage inverted, ie hanging loads, then the load rating is reduced by 50%.

Order No.	d_1 tol. H6	l_1	d_2	h_1	h_2	h_3 ±0.05	h_4	l_2 ±0.2	w_1	w_2 ±0.2	w_3	α °	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1753.016-RS	16	45	M5x12	33	26	46	9	30	45	32	22.5	80°	770	1170	150
L1753.020-RS	20	50	M6x12	39	32	55	11	35	48	35	24.0	60°	860	1370	200
L1753.025-RS	25	65	M6x12	47	36	63	14	40	60	40	30.0	50°	980	1560	450
L1753.016-SS	16	45	M5x12	33	26	46	9	30	45	32	22.5	80°	770	1170	150
L1753.020-SS	20	50	M6x12	39	32	55	11	35	48	35	24.0	60°	860	1370	200
L1753.025-SS	25	65	M6x12	47	36	63	14	40	60	40	30.0	50°	980	1560	450



L1755

Material
Aluminium body, with L1707 (steel shell) linear bearing installed. Bearing has a resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

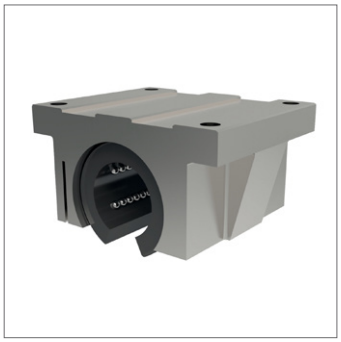
Technical Notes
For use with shaft support rails (see part number L1781 with hardened corrosive resistant shaft).
Temperature range: -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
Particularly effective for high loads and long stroke applications.

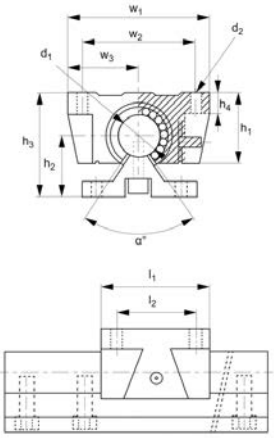
Important Notes
If using the carriage inverted, ie hanging loads, then the load rating is reduced by 50%.

Order No.	d_1 tol. H6	l_1	d_2	h_1	h_2	h_3 ±0.05	h_4	l_2 ±0.2	w_1	w_2 ±0.2	w_3	α °	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1755.016	16	42	M5	26	26	44	8	30	62	50	31.0	80°	392	490	180
L1755.020	20	51	M6	31	32	53	10	37	68	54	34.0	60°	784	1176	300
L1755.025	25	65	M8	41	36	64	12	50	82	65	41.0	50°	1568	2352	600
L1755.030	30	75	M8	48	42	76	12	60	91	75	45.5	50°	1764	2940	900

Stainless Flanged Carriages
open



L1756



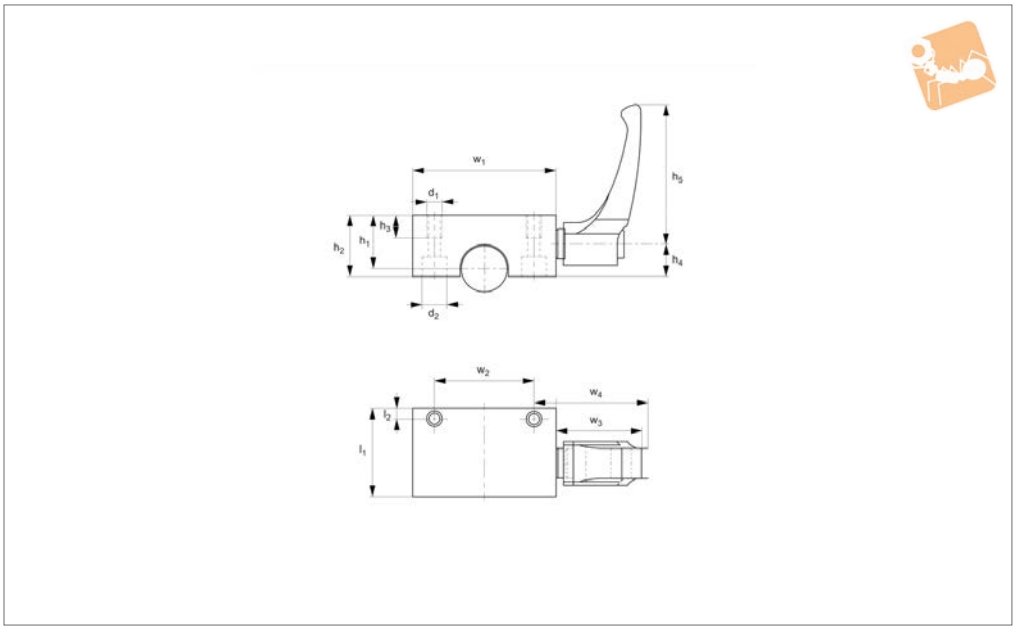
Material
Aluminium carriage housing with L1710 stainless steel (440C) linear bushing installed.
Bushing has a resin -RS (POM) retainer and nitrile rubber (NBR) end seals -UU.
Stainless steel balls 440C.

Technical Notes
For use with shaft support rails (see part number L1781 with hardened corrosive resistant shaft).
Temperature range: -20°C to +120°C.

Tips
Particularly effective for high loads and long stroke applications.

Important Notes
If using the carriage inverted, ie hanging loads, then the load rating is reduced by 50%.

Order No.	d_1 tol. H6	l_1	d_2	h_1	h_2	h_3 ±0.05	h_4	l_2 ±0.2	w_1	w_2 ±0.2	w_3	α °	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1756.016-RS	16	42	M5	26	26	44	8	30	62	50	31	80°	392	490	180
L1756.020-RS	20	51	M6	31	32	53	10	37	68	54	34	60°	784	1176	300
L1756.025-RS	25	65	M8	41	36	64	12	50	82	65	41	50°	1568	2352	600



L1784

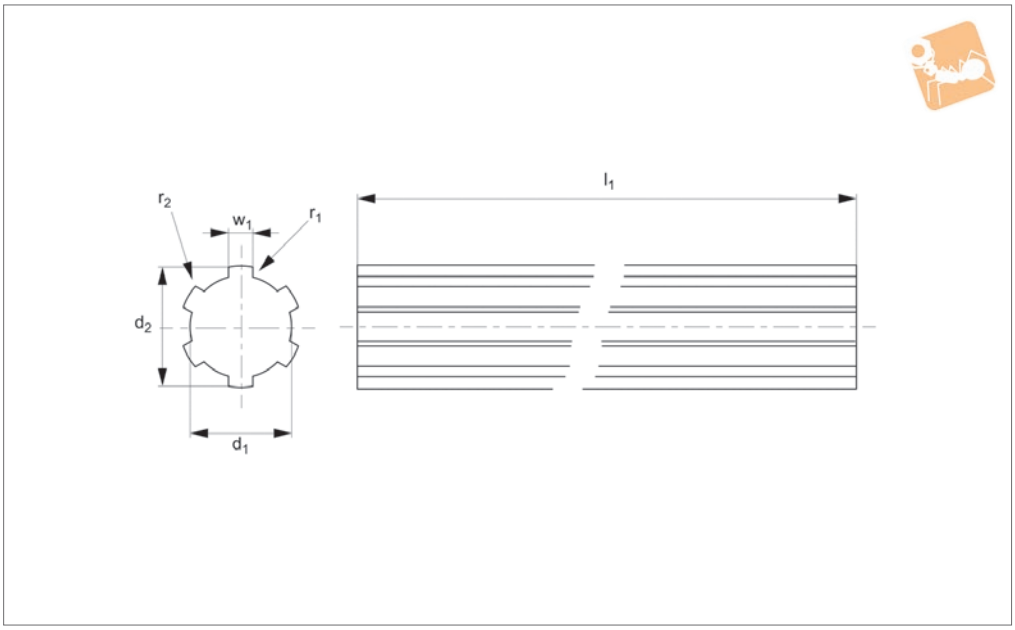
Material
Aluminium body, with hardened steel contact faces.

Technical Notes
Activating the clamping lever presses the contact faces into contact with the shaft bar to clamp it in place.
For clamping from above use d_1, for clamping from below use d_2.

Tips
Use with shaft support rail L1780.
Pneumatic shaft clamps also available.

Order No.	Shaft dia.	h_1	l_1	w_1	w_2	w_3	w_4	h_2	h_3	h_4	h_5	l_2	d_1	d_2 for	Torque to Nm	Holding force N
L1784.012	12	18	32	43	32	30.5	33.5	24	10	16.0	44	4.5	M 5	M 4	5	1200
L1784.016	16	22	38	53	40	30.5	33.5	29	12	19.0	44	5.5	M 6	M 5	5	1200
L1784.020	20	25	44	60	45	38.5	41.5	32	14	21.5	63	6.5	M 8	M 6	7	1200
L1784.025	25	30	52	78	60	38.5	41.5	38	16	25.0	63	9.0	M10	M 8	7	1200
L1784.030	30	35	58	87	68	46.5	50.5	43	16	28.5	78	10.0	M10	M 8	12	2000
L1784.040	40	45	68	108	86	56.5	61.5	53	20	34.5	95	11.0	M12	M10	17	2000
L1784.050	50	50	76	132	108	56.5	61.5	58	22	40.5	95	12.0	M16	M14	17	2000

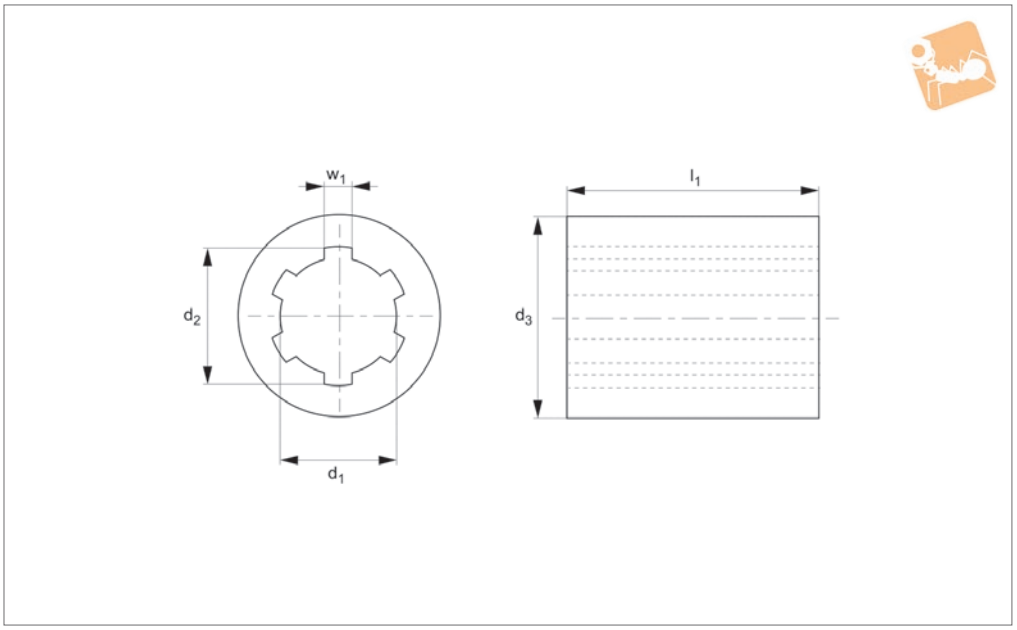
L1790

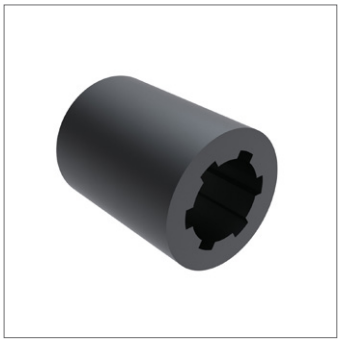


Material
Steel (C40).

Technical Notes
For use with splined bushings part no. L1791.
Torque figures stated are approximate, and dependent on the application. In important cases please consult our Technical department.

Order No.	No. of splines	d_1 +0.00|-0.08	d_2 +0.07|-0.27	l_1	r_1 45°	r_2	w_1 +0.00|-0.08	Section mm²	Approx. torque Nm	Weight g
L1790.011-1.0	6	11	14	1000	0.2	0.2	3	121.9	38	0.9
L1790.013-1.0	6	13	16	1000	0.2	0.2	3.5	164.1	45	1.3
L1790.016-1.0	6	16	20	1000	0.2	0.2	5	243.4	101	1.9
L1790.018-1.0	6	18	22	1000	0.2	0.2	5	312.4	117	2.5
L1790.021-1.0	6	21	25	1000	0.2	0.2	5	399.8	130	3.1
L1790.023-1.0	6	23	28	1000	0.3	0.3	6	505.2	225	3.9
L1790.026-1.0	6	26	32	1000	0.3	0.3	6	638.6	310	5.0
L1790.032-1.0	8	32	38	1000	0.3	0.3	8	947.8	598	7.4
L1790.036-1.0	8	36	42	1000	0.3	0.3	7	1185.3	649	9.3
L1790.042-1.0	8	42	48	1000	0.3	0.3	8	1576.7	732	12.4
L1790.046-1.0	8	46	54	1000	0.5	0.3	9	1949.0	1095	15.3





L1791

Material
Steel (9 SMnPb 36).

Technical Notes
For use with splined shafts no. L1790.

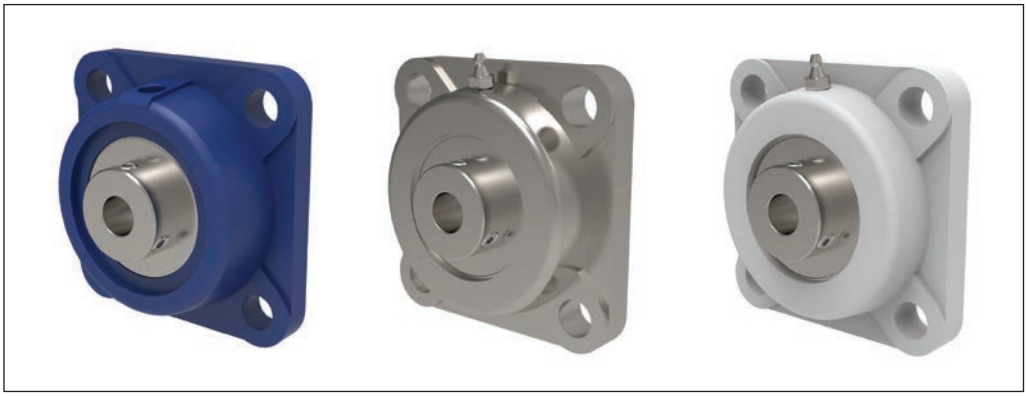
Order No.	No. of splines	d_1	d_2	d_3 tol. h8	l_1	w_1	Weight kg
L1791.011-14	6	11	14	18.75	30	3	0.03
L1791.013-16	6	13	16	21.75	40	3.5	0.06
L1791.013-25	6	13	16	24.75	40	3.5	0.09
L1791.016-20	6	16	20	27.75	40	4	0.11
L1791.018-22	6	18	22	31.75	40	5	0.15
L1791.021-25	6	21	25	35.75	45	5	0.21
L1791.023-28	6	23	28	39.70	45	6	0.25
L1791.026-32	6	26	32	44.70	45	6	0.32
L1791.032-38	8	32	38	49.70	50	6	0.38
L1791.036-42	8	36	42	59.70	70	7	0.89
L1791.042-48	8	42	48	69.70	80	8	1.38
L1791.046-54	8	46	54	81.70	90	9	2.33

Self-Aligning Bearing Units

Overview

Bearing Supports from Automotion Components

Housing material options

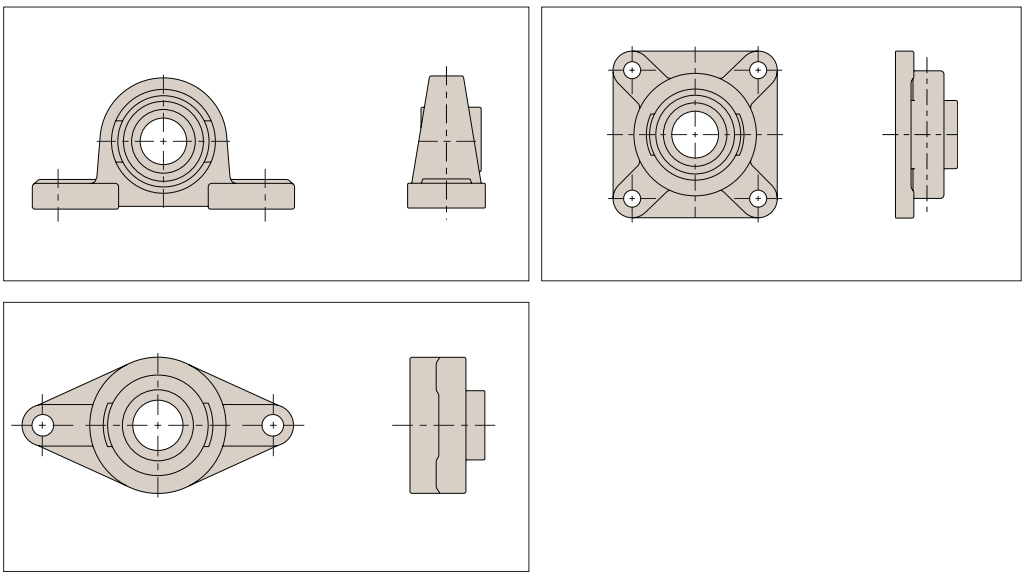


Cast iron housing
Standard version, passivated and painted Ø12-120mm.

Stainless steel housing
Stainless AISI 304, Ø12-60mm.

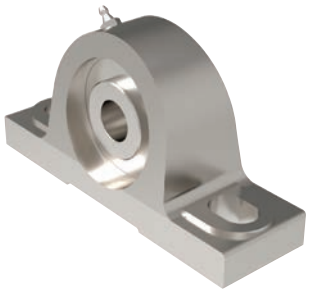
Thermoplastic housing
Food grade applications, smooth PBT resin material, Ø20-40mm.

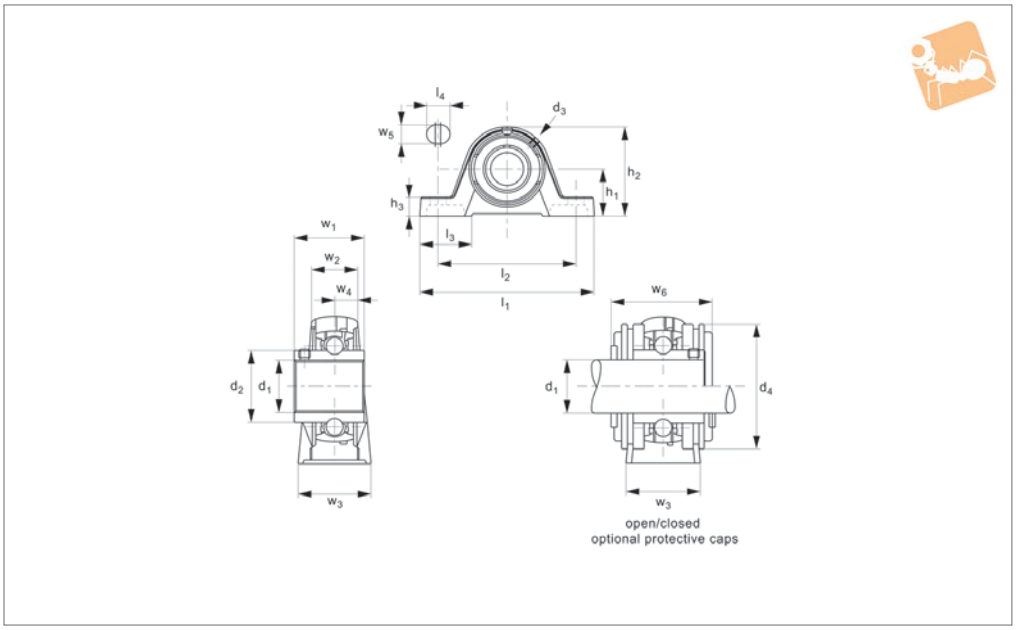
Pillow Bearings

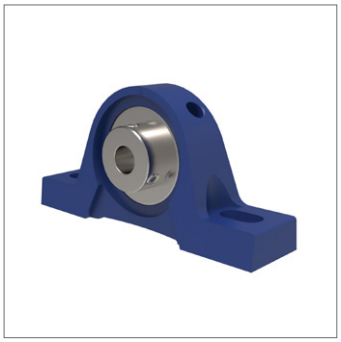


Use with Automotion linear shafts L1770-L1774

Options

Pillow block	Four point flange	Two point flange
		





L1860

Material
Cast iron (FG20 or FG25), passivated and painted blue (RAL 5010). Steel, self-aligning bearing units with double seals, lubricated for life.

Technical Notes
Self-aligning bearings, relubricatable.
Temperature range: -20°C to +120°C.

The max. axial load is 0.5 x radial static load.
The housings are rated to take the maximum bearing loads.
For optional shaft end caps add suffixes:
-CO for two open protective caps (with seals) for through shafts.
-CC for one open and one closed protective caps for shaft ends.

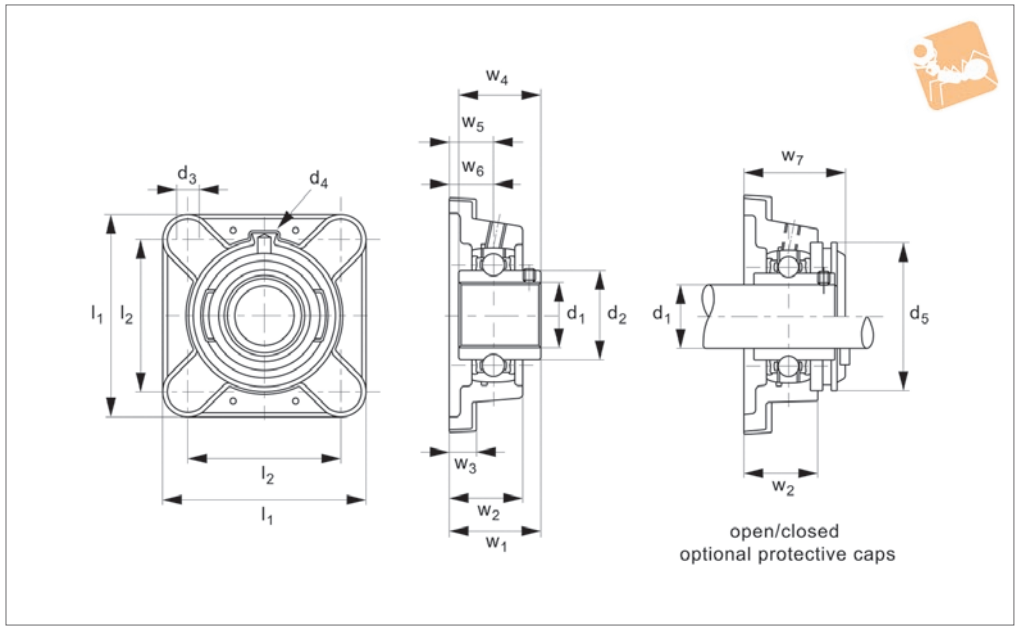
Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).

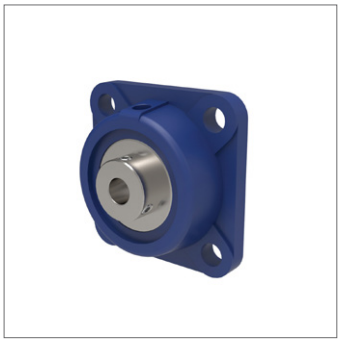
Order No.	d_1 for h6	l_1	h_1 ±0.2	l_2 ±1.0	d_2	d_3	d_4	h_2	h_3	Weight kg
L1860.012	12	130	33.3	97	29.0	R1/8“	54	64.0	14.5	0.5
L1860.015	15	130	33.3	97	29.0	R1/8“	54	64.0	14.5	0.5
L1860.017	17	130	33.3	97	29.0	R1/8“	54	64.0	14.5	0.5
L1860.020	20	130	33.3	97	29.0	R1/8“	54	64.0	14.5	0.5
L1860.025	25	130	36.5	103	34.0	R1/8“	60	70.0	14.5	0.7
L1860.030	30	158	42.9	118	40.3	R1/8“	70	82.0	17.0	1.1
L1860.035	35	163	47.6	126	48.0	R1/8“	80	93.0	19.0	1.5
L1860.040	40	179	49.2	138	53.0	R1/8“	88	99.0	19.0	1.8
L1860.045	45	192	54.0	150	57.2	R1/8“	95	107.0	21.5	2.2
L1860.050	50	200	57.2	158	61.8	R1/8“	100	115.0	21.5	2.7
L1860.055	55	222	63.5	176	69.0	R1/8“	110	124.5	22.5	3.4
L1860.060	60	240	69.9	190	74.9	R1/8“	120	140.0	25.0	4.8
L1860.065	65	260	79.4	203	82.0	R1/8“	132	140.0	27.5	6.1
L1860.070	70	260	79.4	203	86.5	R1/8“	-	156.0	27.5	6.1
L1860.075	75	265	82.5	210	91.5	R1/8“	-	156.0	27.5	6.9
L1860.080	80	290	89.0	232	98.0	R1/8“	-	175.0	30.0	9.0

Order No.	l_3	l_4	w_1	w_2	w_3	w_4	w_5	w_6	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1860.012	40.0	19	31.0	19	32	12.7	11	44.6	12.80	6.65	6500
L1860.015	40.0	19	31.0	19	32	12.7	11	44.6	12.80	6.65	6500
L1860.017	40.0	19	31.0	19	32	12.7	11	44.6	12.80	6.65	6500
L1860.020	40.0	19	31.0	19	32	12.7	11	44.6	12.80	6.65	6500
L1860.025	39.0	19	34.0	21	36	14.3	11	47.8	14.00	7.88	6500
L1860.030	47.0	22	38.1	25	40	15.9	14	52.8	19.50	11.20	4500
L1860.035	49.0	21	42.9	27	45	17.5	14	57.4	25.70	15.20	4500
L1860.040	53.0	26	49.2	30	48	19.0	14	66.8	26.90	18.20	3500
L1860.045	54.5	29	49.2	32	48	19.0	14	67.8	31.85	20.80	3500

Pillow Block Bearing Units
cast iron

Order No.	l_3	l_4	w_1	w_2	w_3	w_4	w_5	w_6	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1860.050	61.0	23	51.6	34	54	19.0	18	74.6	35.10	23.20	3000
L1860.055	68.0	30	55.6	35	60	22.2	18	75.2	43.55	29.20	3000
L1860.060	71.0	28	65.1	42	60	25.4	18	87.8	52.50	32.80	2500
L1860.065	77.0	28	65.1	44	65	25.4	22	88.8	57.20	40.00	2500
L1860.070	77.0	28	74.6	44	65	30.2	22	-	62.00	45.00	2500
L1860.075	78.0	30	77.8	48	66	33.3	22	-	66.00	49.50	2500
L1860.080	90.0	34	82.6	55	78	33.3	26	-	72.50	54.20	2500





L1862

Material
Cast iron (FG20 or FG25), passivated and painted blue (RAL 5010). Steel, self-aligning bearing units with double seals, lubricated for life.

Technical Notes
Self-aligning bearings, relubricatable.
Temperature range: -20°C to +120°C.
The max. axial load is 0.5 x radial static load.
The housings are rated to take the maximum bearing loads.
For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).

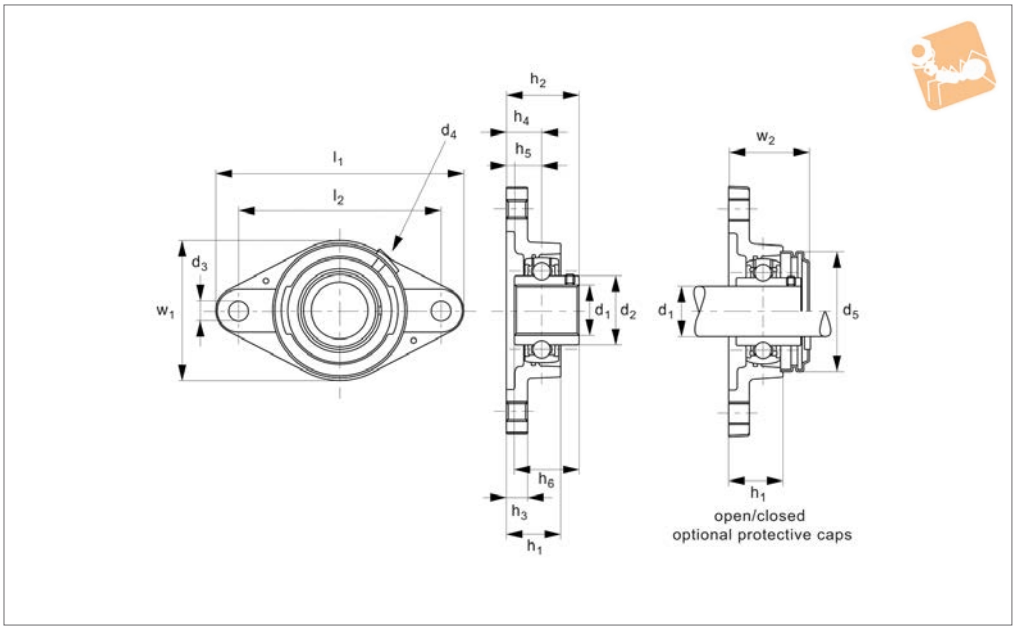
Important Notes
For precise positioning of the flanged units they are provided with a rear centring bore and dowel pin location - please see technical pages for these dimensions.

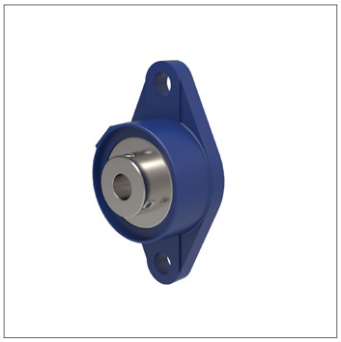
Order No.	d_1 for h6	l_1	l_2 ±0.7	d_2	d_3	d_4	d_5	w_1	w_2	Weight kg
L1862.012	12	86	63.5	29.0	11.5	R1/8“	54	37.3	29.5	0.7
L1862.015	15	86	63.5	29.0	11.5	R1/8“	54	37.3	29.5	0.7
L1862.017	17	86	63.5	29.0	11.5	R1/8“	54	37.3	29.5	0.5
L1862.020	20	86	63.5	29.0	11.5	R1/8“	54	37.3	29.5	0.7
L1862.025	25	95	70.0	34.0	11.5	R1/8“	60	38.7	30.0	0.8
L1862.030	30	108	82.5	40.3	11.5	R1/8“	70	42.2	33.5	1.2
L1862.035	35	118	92.0	48.0	14.0	R1/8“	80	46.4	36.0	1.6
L1862.040	40	130	101.5	53.0	14.0	R1/8“	88	54.2	39.5	2.1
L1862.045	45	137	105.0	57.2	14.0	R1/8“	95	54.2	40.0	2.2
L1862.050	50	143	111.0	61.8	18.0	R1/8“	100	60.6	44.0	2.6
L1862.055	55	162	130.0	69.0	18.0	R1/8“	110	64.4	48.5	3.7
L1862.060	60	175	143.0	74.9	18.0	R1/8“	120	73.7	53.5	4.9
L1862.065	65	188	150.0	82.0	18.0	R1/8“	132	77.7	56.0	6.0
L1862.070	70	188	150.0	86.5	18.0	R1/8“	-	82.4	56.0	6.2
L1862.075	75	197	153.0	91.5	23.0	R1/8“	-	85.8	59.0	6.3
L1862.080	80	197	153.0	98.0	23.0	R1/8“	-	90.6	61.0	7.1
L1862.090	90	235	187.0	111.0	23.0	R1/8“	-	80.1	45.0	10.4

Order No.	w_3	w_4	w_5 ±0.5	w_6	w_7	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1862.012	10.0	31.0	19.0	12.7	42.8	12.80	6.65	6500
L1862.015	10.0	31.0	19.0	12.7	42.8	12.80	6.65	6500
L1862.017	10.0	31.0	19.0	12.7	42.8	12.80	6.65	6500
L1862.020	10.0	31.0	19.0	12.7	42.8	12.80	6.65	6500
L1862.025	11.0	32.0	19.0	14.3	42.9	14.00	7.88	6500
L1862.030	12.0	38.1	20.0	15.9	46.9	19.50	11.20	4500

Square Flanged Bearing Units
cast iron

Order No.	w_3	w_4	w_5 ±0.5	w_6	w_7	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1862.035	12.5	42.9	21.0	17.5	50.2	25.70	15.20	4500
L1862.040	13.0	49.2	24.0	19.0	57.9	29.60	18.20	3500
L1862.045	13.0	49.2	24.0	19.0	58.4	31.85	20.80	3500
L1862.050	13.0	51.6	28.0	19.0	65.8	35.10	23.20	3000
L1862.055	15.0	55.6	31.0	22.2	69.1	43.55	29.20	3000
L1862.060	16.0	65.1	34.0	25.4	78.4	52.50	32.80	2500
L1862.065	18.0	95.1	38.0	25.4	77.4	57.20	40.00	2500
L1862.070	18.0	74.6	38.0	30.2	-	62.00	45.00	2500
L1862.075	20.0	77.8	41.3	33.3	-	66.00	49.50	2500
L1862.080	20.0	82.6	41.3	33.3	-	72.50	54.20	2500
L1862.090	22.0	96.0	23.8	39.7	-	96.00	71.50	2500





L1864

Material
Cast iron (FG20 or FG25), passivated and painted blue (RAL 5010). Steel, self-aligning bearing units with double seals, lubricated for life.

Technical Notes
Self-aligning bearings, relubricatable.
Temperature range: -20°C to +120°C.
The max. axial load is 0.5 x radial static load.
The housings are rated to take the maximum bearing loads.
For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).

Important Notes
For precise positioning of the flanged units they are provided with a rear centring bore and dowel pin location - please see technical pages fro these dimensions.

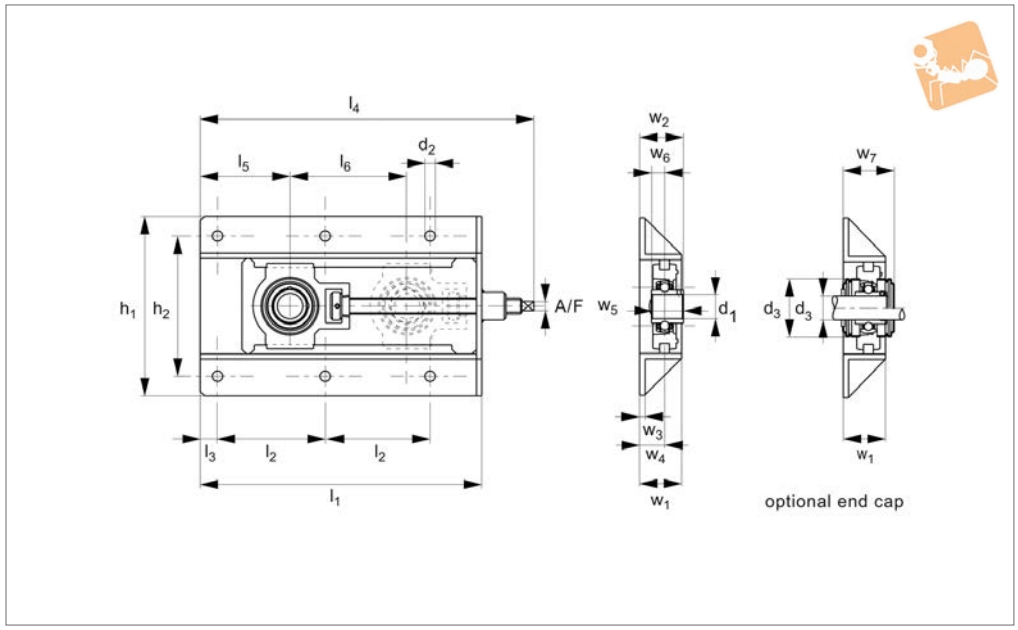
Order No.	d_1 for h6	l_1 ±0.7	h_1	l_2	d_2	d_3	d_4	d_5	h_2	h_3	Weight kg
L1864.012	12	112	30.3	90.0	29.0	11.5	R1/8“	54	37.3	10.0	0.5
L1864.015	15	112	30.3	90.0	29.0	11.5	R1/8“	54	37.3	10.0	0.5
L1864.017	17	112	30.3	90.0	29.0	11.5	R1/8“	54	37.3	10.0	0.5
L1864.020	20	112	30.3	90.0	29.0	11.5	R1/8“	54	37.3	10.0	0.5
L1864.025	25	124	29.3	99.0	34.0	11.5	R1/8“	60	38.7	11.0	0.6
L1864.030	30	142	32.1	116.5	40.3	11.5	R1/8“	70	42.2	12.0	0.8
L1864.035	35	155	33.7	130.0	48.0	14.0	R1/8“	80	46.4	12.5	1.1
L1864.040	40	172	37.5	143.5	53.0	14.0	R1/8“	88	54.2	13.0	1.6
L1864.045	45	180	37.5	148.5	57.2	14.0	R1/8“	95	54.2	13.0	1.8
L1864.050	50	190	41.6	157.0	61.8	18.0	R1/8“	100	60.6	13.0	2.1
L1864.055	55	222	45.8	184.0	69.0	18.0	R1/8“	110	64.4	15.0	3.4
L1864.060	60	238	50.4	202.0	74.9	18.0	R1/8“	120	73.7	16.0	3.7
L1864.065	65	258	57.0	216.0	82.0	21.0	R1/8“	132	77.7	18.0	4.0
L1864.070	70	258	57.0	216.0	86.5	21.0	R1/8“	-	82.4	18.0	5.4
L1864.075	75	258	57.0	216.0	91.5	21.0	R1/8“	-	82.5	18.0	5.2

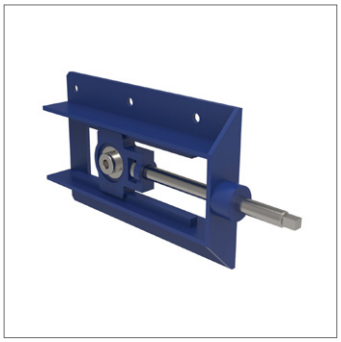
Order No.	h_4	h_5 ±0.5	h_6	w_1	w_2	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1864.012	19	12.7	31.0	61	41.8	12.80	6.65	6500
L1864.015	19	12.7	31.0	61	41.8	12.80	6.65	6500
L1864.017	19	12.7	31.0	61	41.8	12.80	6.65	6500
L1864.020	19	12.7	31.0	61	41.8	12.80	6.65	6500
L1864.025	19	14.3	34.0	70	43.9	14.00	7.88	6500
L1864.030	20	15.9	38.1	80	46.9	19.50	11.20	4500
L1864.035	21	17.5	42.9	92	50.2	25.70	15.20	4500
L1864.040	24	19.0	49.2	105	57.9	29.60	18.20	3500

Oval Flanged Bearing Unit

cast iron

Order No.	h_4	h_5 ±0.5	h_6	w_1	w_2	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1864.045	24	19.0	49.2	111	58.4	31.85	20.80	3500
L1864.050	28	19.0	51.6	116	65.8	35.10	23.20	3000
L1864.055	31	22.2	55.6	134	69.1	43.55	29.20	3000
L1864.060	34	25.4	65.1	138	82.4	52.50	32.80	2500
L1864.065	38	25.4	65.1	160	82.9	57.20	40.00	2500
L1864.070	38	30.2	74.6	160	-	62.00	45.00	2500
L1864.075	38	33.3	77.8	160	-	66.00	49.50	2500





L1865

Material
Cast iron (FG20 or FG25), passivated and painted blue (RAL 5010). Steel stretcher frame.

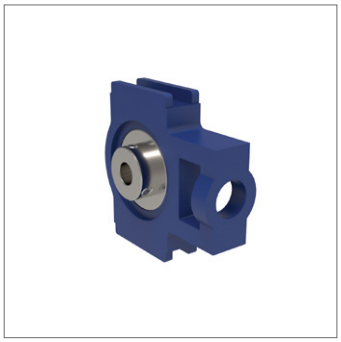
Technical Notes
Shaft retention with set screw.

Used with h6 tolerance shafts (see our part no.s L1770-L1776.
For optional shaft end caps add suffixes:
-C0 for two open protective caps (with seala) for through shafts.
-CC for one open and one closed protective caps for shaft ends.
Stretcher frame allows easy access and adjustment.

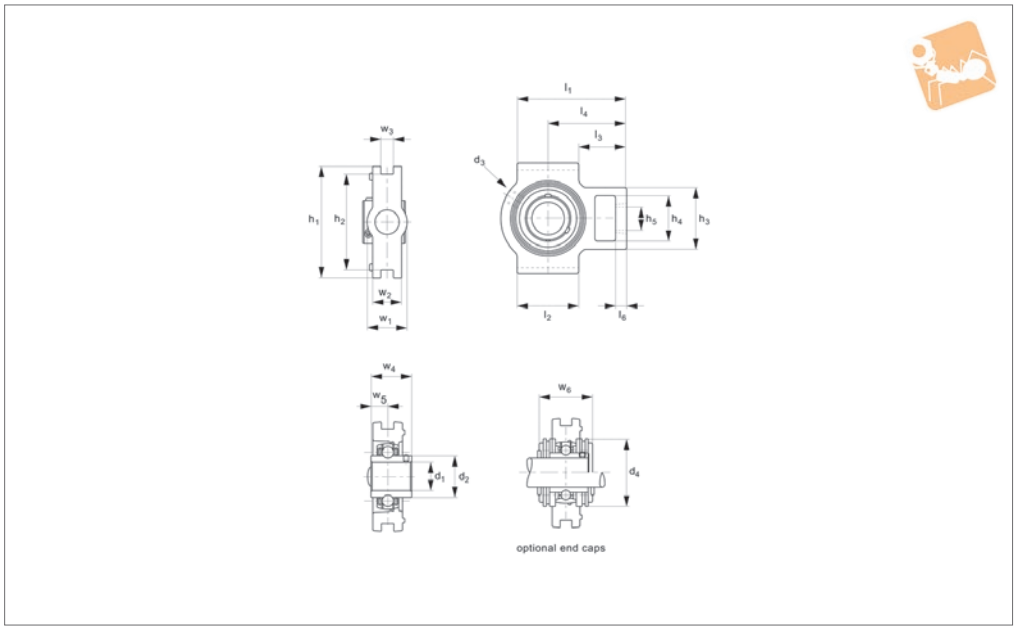
Order No.	d_1 for h6	l_1	h_1	l_2	d_2	d_3	h_2	l_3	l_4	l_5	Weight kg
L1865.012	12	317	199	117	12	54	154	19	367	83	5.2
L1865.015	15	317	199	117	12	54	154	19	367	83	5.2
L1865.017	17	317	199	117	12	54	154	19	367	83	5.2
L1865.020	20	317	199	117	12	54	154	19	367	83	5.2
L1865.025	25	317	199	117	12	60	154	19	368	83	5.2
L1865.030	30	337	212	127	12	70	166	19	396	95	6.2
L1865.035	35	429	212	173	12	80	166	19	490	99	8.4
L1865.040	40	520	233	219	15	88	192	22	591	108	11.7
L1865.045	45	520	233	219	15	95	192	22	590	108	11.8
L1865.050	50	520	233	219	15	100	192	22	593	108	12.0
L1865.055	55	542	301	230	15	110	240	22	631	114	18.4
L1865.060	60	568	301	243	15	120	240	22	651	127	20.2
L1865.065	65	606	322	260	15	132	260	22	699	144	25.3

Order No.	l_6	w_1	w_2	w_3	w_4	w_5	w_6	w_7	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.	A/F
L1865.012	150	50	47.3	6	29	31.0	12.7	43.7	12.8	6.6	6500	11
L1865.015	150	50	47.3	6	29	31.0	12.7	43.7	12.8	6.6	6500	11
L1865.017	150	50	47.3	6	29	31.0	12.7	43.7	12.8	6.6	6500	11
L1865.020	150	50	47.3	6	29	31.0	12.7	43.7	12.8	6.6	6500	11
L1865.025	150	50	48.7	6	29	34.0	14.3	47.5	14.0	7.8	6500	11
L1865.030	150	50	52.2	6	30	38.1	15.9	52.5	19.5	11.2	4500	11
L1865.035	230	50	55.4	6	30	42.9	17.5	59.1	25.7	15.2	4500	11
L1865.040	300	50	60.2	6	30	49.2	19.0	68.6	29.6	18.2	3500	15
L1865.045	300	50	60.2	6	30	49.2	19.0	68.6	31.8	20.8	3500	15
L1865.050	300	50	631	6	30	51.6	19.0	74.1	35.1	23.2	3000	15
L1865.055	300	65	71.4	6	38	55.6	22.2	75.3	43.5	29.2	3000	19
L1865.060	300	65	77.7	6	38	65.1	25.4	88.6	52.5	32.8	2500	19
L1865.065	300	65	77.7	6	38	65.1	25.4	88.6	57.2	40.0	2500	24

Take-up Units
set screw type



L1866



Material
Cast iron (FG20 or FG25), passivated and painted blue (RAL 5010).

Technical Notes
Shaft retention with set screw.

Used with h6 tolerance shafts (see our part no.s L1770-L1776.
For optional shaft end caps add suffixes:
-CO for two open protective caps (with seal) for through shafts.

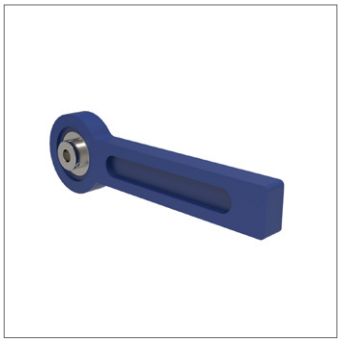
-CC for one open and one closed protective caps for shaft ends.

Order No.	d_1 for h6	l_1	h_1	l_2	d_2	d_3	d_4	h_2 +0|-0.8	h_3	h_4	Weight kg
L1866.012	12	94	89	51	29.0	M 6x1	54	76	51	32	0.8
L1866.015	15	94	89	51	29.0	M 6x1	54	76	51	32	0.8
L1866.017	17	94	89	51	29.0	M 6x1	54	76	51	32	0.7
L1866.020	20	94	89	51	29.0	M 6x1	54	76	51	32	0.7
L1866.025	25	97	89	51	34.0	M 6x1	60	76	51	32	0.8
L1866.030	30	113	102	57	40.3	M 6x1	70	89	56	37	1.2
L1866.035	35	129	102	64	48.0	M 6x1	80	89	64	37	1.6
L1866.040	40	144	114	83	53.0	M 6x1	88	102	83	49	2.3
L1866.045	45	144	117	83	57.2	M 6x1	95	102	83	49	2.3
L1866.050	50	149	117	86	61.8	M 6x1	100	102	83	49	2.5
L1866.055	55	171	146	95	69.0	M 6x1	110	130	102	64	3.9
L1866.060	60	194	146	102	74.9	M 6x1	120	130	102	64	4.7
L1866.065	65	224	167	121	82.0	M 6x1	132	151	111	70	6.8
L1866.070	70	224	167	121	86.5	M10x1	-	151	111	70	6.9
L1866.075	75	232	167	121	91.5	M10x1	-	151	111	70	7.2
L1866.080	80	235	184	121	98.0	M10x1	-	165	111	70	8.2
L1866.085	85	260	198	157	105.1	M10x1	-	173	124	73	10.8

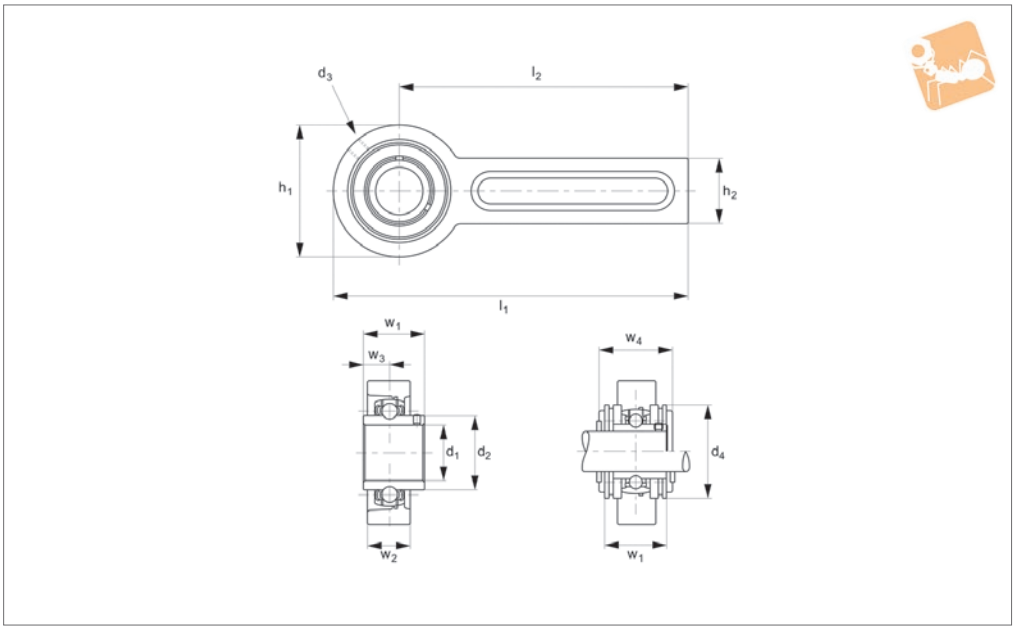
Order No.	h_5	l_3	l_4	l_5	w_1	w_2	w_3 +0.3|-0	w_4	w_5	w_6	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1866.012	19	35.5	61	10	32	21	12	31.0	12.7	43.7	12.80	6.65	6500
L1866.015	19	35.5	61	10	32	21	12	31.0	12.7	43.7	12.80	6.65	6500
L1866.017	19	35.5	61	10	32	21	12	31.0	12.7	43.7	12.80	6.65	6500
L1866.020	19	35.5	61	10	32	21	12	31.0	12.7	43.7	12.80	6.65	6500
L1866.025	19	36.5	62	10	32	24	12	34.0	14.3	47.5	14.00	7.88	6500
L1866.030	22	41.5	70	10	37	28	12	38.1	15.9	52.5	19.50	11.20	4500
L1866.035	22	46.0	78	13	37	30	12	42.9	17.5	59.1	25.70	15.20	4500
L1866.040	29	46.5	88	16	49	33	16	49.2	19.0	68.6	29.60	18.20	3500
L1866.045	29	45.5	87	16	49	35	16	49.2	19.0	68.6	31.85	20.80	3500
L1866.050	29	47.0	90	16	49	37	16	51.6	19.0	74.1	35.10	23.20	3000
L1866.055	35	58.5	106	19	64	38	22	55.6	22.2	75.3	43.55	29.20	3000

Order No.	h_5	l_3	l_4	l_5	w_1	w_2	w_3 +0.3 | -0	w_4	w_5	w_6	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1866.060	35	68.0	119	19	64	42	22	65.1	25.4	88.6	52.50	32.80	2500
L1866.065	41	76.5	137	21	70	44	26	65.1	25.4	88.6	57.20	40.00	2500
L1866.070	41	76.5	137	21	70	46	26	74.6	30.2	-	62.00	45.00	2500
L1866.075	41	79.5	140	21	70	48	26	77.8	33.3	-	66.00	49.50	2500
L1866.080	41	79.5	140	21	70	51	26	82.6	33.3	-	72.50	54.20	2500
L1866.085	48	83.5	162	29	73	54	30	85.7	34.1	-	83.20	63.80	2500

Conveyor Belt Tensioners
cast iron



L1867

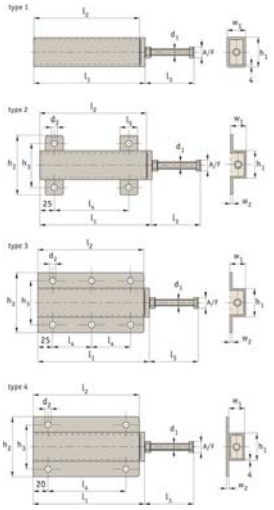


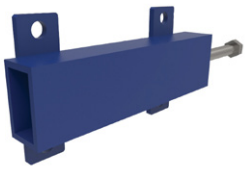
Material
Housings made from cold rolled sheet steel with zinc-plated surfaces.

Technical Notes
Re-lubricatable. For use with stretcher frame (see our part L1868).
For optional shaft end caps add suffixes:
-CO for two open protective caps (with seal) for through shafts.
-CC for one open and one closed protective caps for shaft ends.

Order No.	d_1 for h6	l_1	h_1	l_2	d_2	d_3	d_4	h_2	w_1	Weight kg
L1867.012	12	264	78	225	29.0	R1/8“	60	41	31.0	1.7
L1867.015	15	264	78	225	29.0	R1/8“	60	41	31.0	1.7
L1867.017	17	264	78	225	29.0	R1/8“	60	41	31.0	1.7
L1867.020	20	264	78	225	29.0	R1/8“	60	41	31.0	1.7
L1867.025	25	264	78	225	34.0	R1/8“	60	41	34.0	1.7
L1867.030	30	264	78	225	40.3	R1/8“	80	41	38.1	1.9
L1867.035	35	264	78	225	48.0	R1/8“	80	41	42.9	2.1
L1867.040	40	274	98	225	53.0	R1/8“	100	41	49.2	4.2
L1867.045	45	274	98	225	57.2	R1/8“	100	41	49.2	4.2
L1867.050	50	274	98	225	61.8	R1/8“	100	41	51.6	4.2

Order No.	w_2	w_3	w_4	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1867.012	21	12.7	48.8	12.8	6.6	6500
L1867.015	21	12.7	48.8	12.8	6.6	6500
L1867.017	21	12.7	48.8	12.8	6.6	6500
L1867.020	21	12.7	48.8	12.8	6.6	6500
L1867.025	21	14.3	48.8	14.0	7.8	6500
L1867.030	21	15.9	58.4	19.5	11.2	4500
L1867.035	21	17.5	58.4	25.7	15.2	4500
L1867.040	21	19.0	75.6	29.6	18.2	3500
L1867.045	21	19.0	45.6	31.8	20.8	3500
L1867.050	21	19.0	75.6	35.1	23.2	3000





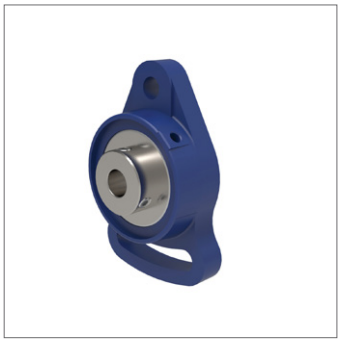
L1868

Material
Quality grey cast iron (FG20 or FG25), passivated and painted (RAL 5010).

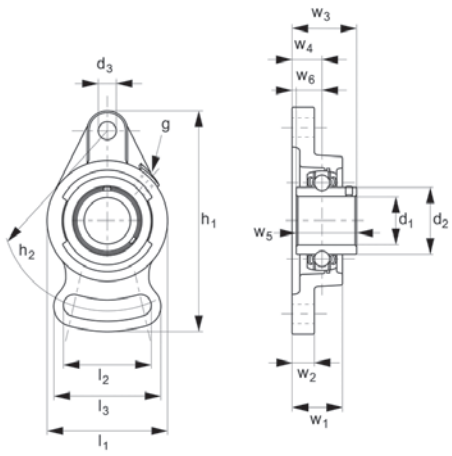
Technical Notes
Stretcher frame for use with conveyor belt tensioner, part L1867.

Order No.	For shaft dia.	Type	d_1	l_1	h_1	l_2	d_2	h_2	h_3	l_3	l_4	l_5	w_1	w_2	A/F
L1868.010	12-35	1	M12x 90	190	50	180	-	-	-	85	-	-	30	4	18
L1868.020	40-50	1	M16x110	225	70	210	-	-	-	105	-	-	40	4	24
L1868.011	12-35	2	M12x 90	190	50	180	11.0	100	80	85	130	30	30	5	18
L1868.021	40-50	2	M16x110	225	70	210	14.0	140	100	105	160	40	40	6	24
L1868.012	12-35	3	M12x 90	190	48	180	10.0	100	75	85	65	-	25	3	18
L1868.022	40-50	3	M16x110	225	68	210	12.0	130	100	105	80	-	35	3	24
L1868.014	12-35	4	M12x100	190	48	180	11.5	103	80	97	140	-	25	3	18
L1868.024	40-50	4	M16x120	235	68	220	14.0	130	100	111	180	-	35	3	24

Take-up Units
cast iron



L1869



Material
Quality grey cast iron (FG20 or FG25), passivated and painted (RAL 5010).

Technical Notes
Self-aligning bearings, relubricatable.
Temperature range: -20°C to +120°C.

The max. axial load is 0.5 x radial static load.
The housings are rated to take the maximum bearing loads.
For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

Tips
Shaft retention with set screw.
Used with h6 tolerance shafts (see our part no.s L1770-L1776.

Order No.	d_1 for h6	l_1	h_1	l_2	d_2	d_3	d_4	d_5	h_2	l_3	Weight kg
L1869.012	12	60	102	40	29.0	10	M6x1	54	78	54	0.5
L1869.015	15	60	102	40	29.0	10	M6x1	54	78	54	0.5
L1869.017	17	60	102	40	29.0	10	M6x1	54	78	54	0.5
L1869.020	20	60	102	40	29.0	10	M6x1	54	78	54	0.5
L1869.025	25	68	125	51	34.0	12	M6x1	60	98	65	0.7
L1869.030	30	80	144	58	40.3	12	M6x1	70	117	72	1.2
L1869.035	35	90	161	66	48.0	15	M6x1	80	130	82	1.6
L1869.040	40	100	175	71	53.0	15	M6x1	88	144	87	2.0
L1869.045	45	108	181	72	57.2	15	M6x1	95	148	90	2.3
L1869.050	50	115	190	76	61.8	15	M6x1	100	157	94	2.7
L1869.055	55	130	219	86	69.0	16	M6x1	110	184	104	3.5
L1869.060	60	140	250	92	74.9	23	M6x1	120	202	118	4.2

Order No.	w_1	w_2	w_3	w_4	w_5	w_6	w_7	Dyn. radial load C kN max.	Static radial load C_0 kN max.	Speed rpm max.
L1869.012	25.5	12	33.3	15	31.0	12.7	36.5	12.8	6.6	6500
L1869.015	25.5	12	33.3	15	31.0	12.7	36.5	12.8	6.6	6500
L1869.017	25.5	12	33.3	15	31.0	12.7	33.0	12.8	6.6	6500
L1869.020	25.5	12	33.3	15	31.0	12.7	36.5	12.8	6.6	6500
L1869.025	27.0	14	35.7	16	34.0	14.3	39.1	14.0	7.8	6500
L1869.030	31.0	14	40.2	18	38.1	15.9	44.1	19.5	11.2	4500
L1869.035	34.0	16	44.4	19	42.9	17.5	48.3	25.7	15.2	4500
L1869.040	36.0	16	51.2	21	49.2	19.0	55.1	29.6	18.2	3500
L1869.045	38.0	18	52.2	22	49.2	19.0	56.3	31.8	20.8	3500
L1869.050	40.0	18	54.6	22	51.6	19.0	59.3	35.1	23.2	3000
L1869.055	43.0	20	58.4	25	55.6	22.2	62.8	43.5	29.2	3000
L1869.060	48.0	20	68.7	29	65.1	25.4	73.3	52.5	32.8	2500

For cast iron housings

- Single row radial contact self-aligning bearings (steel 100Cr6).
- Re-lubricatable.
- Fixing to shaft via set screw.
- Operating temperature range -20° to +100°.

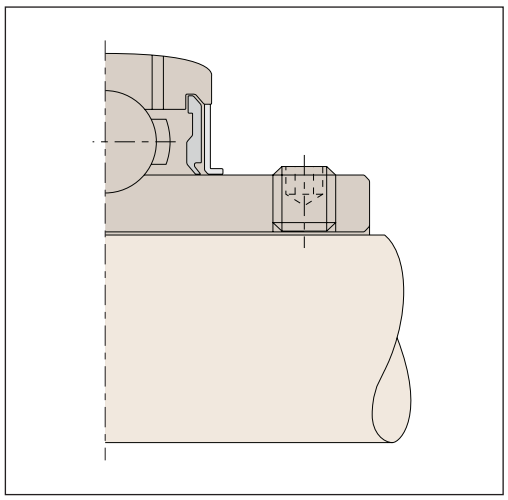
For stainless & thermoplastic housings

- Single row radial contact self-aligning bearings (stainless steel AISI 440C), stainless steel cage.
- Lubricated with food grade grease.
- Fixing to shaft via set screw.

Shaft fixing set screw

2 set screws at 120° with hexagon socket and knurled cup point, recommended shaft tolerance h6/h7.

Set screw	Max. tightening torque (Nm)	Hexagon socket A/F
M5 x 0,8	3,5	2,5
M6 x 1	5,5	3,0
M8 x 1	11,5	4,0
M10 x 1,25	22,0	5,0
M12 x 1,25	33,0	6,0
M14 x 1,5	42,0	7,0
M16 x 1,5	64,0	8,0
M18 x 1,5	75,0	9,0
M20 x 1,5	120,0	10,0

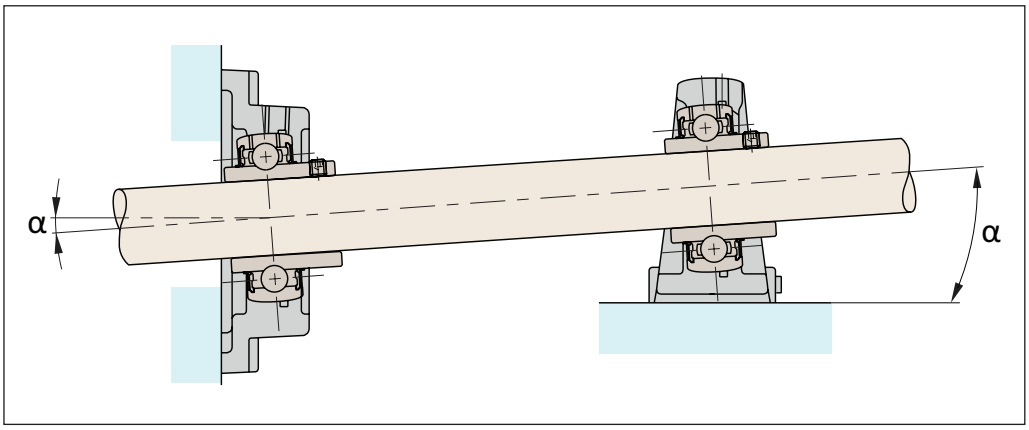


Lubrication

Our units are lubricated for life. If re-lubrication is necessary (because of severe operating conditions), use a lithium soap base with a viscosity of 100mm²/s at 40°C.

Installation

Shaft misalignment is compensated to a certain degree by the shaft-aligning bearings.



If re-lubrication required

α = ± 2°

If no re-lubrication

α = ± 5°

When using protective end caps

α = ± 5°

Bearing Supports from Automotion Components

Cast Iron Bearing Units

Equivalent load ratings

The radial loads of the cast iron bearing supports are limited by the bearings themselves – the housings can withstand the maximum loads.

Please see the part numbers for dynamic and static radial loads. The maximum axial loads are 50% of the maximum static radial loads. The standard bearing have a C3 clearance.

Bore nominal size (mm)		Radial bearing clearance (µ) C3	
Above	Up to	Min.	Max.
10	18	11	25
18	24	13	28
24	30	13	28
30	40	15	33
40	50	18	36
50	65	23	43
65	80	25	51
80	100	30	58
100	120	36	66
120	140	41	81

When choosing a suitable bearing size – this depends on the load and speed required.

If the load acts mainly whilst the bearing rotates, then it is a dynamic load, if it acts mainly during no movement or low speeds, then it is a static load.

The maximum for both of these, for each bearing, is shown in the part tables.

Dynamic equivalent loads:

For some situations the bearing will have to withstand both radial and axial loads and we then need to calculate an equivalent dynamic load using the following equation:

$$L = X \bullet F_r + Y \bullet F_a \ (kN)$$

P = Dynamic equivalent load (kN)
F_r = Actual radial load (kN)
F_a = Actual axial load (kN)
X = Radial factor
Y = Axial factor

Load ratio table 1:

$\frac{F_a}{C_{0r}}$	e	$\frac{F_a}{F_r} \le e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0,014	0,19				2,30
0,028	0,22				1,99
0,056	0,26				1,71
0,084	0,28				1,55
0,110	0,30	1	0	0,56	1,45
0,170	0,34				1,31
0,280	0,38				1,15
0,420	0,42				1,04
0,560	0,44				1,00

e = Limiting value
C_{0r} = Radial static load rating (see dimension tables for ball bearing units)

Static equivalent loads

For situations where there are radial and axial loads on the static or slow moving bearings:

$$P_0 = X_0 \bullet F_r + Y_0 \bullet F_a \ (kN)$$

$$P_0 = F_r \quad \text{if} \quad \frac{F_a}{F_r} \leq 0.8$$

P_0 = Static equivalent load (kN)
X_0 = Static radial factor
Y_0 = Static axial factor

For all bearing inserts the following applies:
X_0 = 0.6
Y_0 = 0.5

Using the ratio ***fs,*** it can be checked if sufficient static dimensioning for the insert has been ensured:

$$fs = \frac{C_{0r}}{p_0}$$

Some standard values are:

fs = 0.7 Minimal demands for running smoothness and rotating movement
fs = 1.0 occasional rotating bearing, normal demands for running
fs = 2.0 smoothness, high demands for running smoothness

It should be noted that this ratio does not provide any assurance against a break or similar, but instead it is assurance against excessive local deformation in the rolling contact (ball/raceway).

Calculating bearing life

When calculating bearing life for bearing units, the following applies:

$$L_{10} = \left(\frac{C_r}{p}\right)^3 \qquad (10^6 \text{ revolutions})$$

If the bearing life should be specified in hours, the following applies:

$$L_{10h} = \left(\frac{C_r}{p}\right)^3 \bullet \frac{10^6}{60n} \quad (h)$$

n = speed (min^{-1})

Bearing Supports from Automotion Components

Bearing life calculation

The bearing life of a UCP210 ball bearing unit under the following conditions:

Radial load:	F_r	=	2 kN
Axial load:	F_a	=	1.7 kN
Normal operating condition speed:	n	=	1800 min^{-1}
UCP210 ball bearing unit data:	C_r	=	35.1 kN
	C_{0r}	=	23.2 kN

Dynamic equivalent bearing load:

$$P = X \bullet F_r + Y \bullet F_a \quad (kN)$$

$$\frac{F_a}{C_{0r}} = \frac{1.7\ kN}{23.2\ kN} = 0.073 \text{ and } \frac{F_a}{F_r} = \frac{1.7\ kN}{2\ kN} = 0.85$$

From load ratio table 1:

with $F_a/C_{0r} = 0.073$, e is determined to be ≈ 0.28

with $F_a/F_r = 0.85 > e = 0.28$

X = 0.56 Y = 1.55

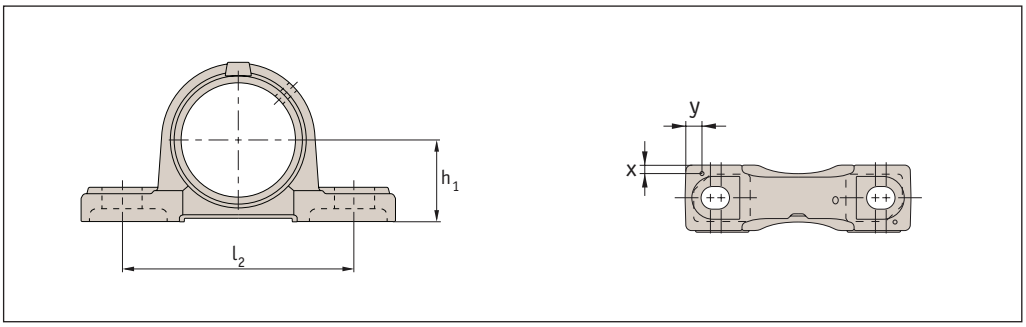
$$P = 0.56 \bullet 2\ kN + 1.7\ kN = 3.76\ kN$$

$$L_{10h} = \left(\frac{C_r}{p}\right)^3 \bullet \frac{10^6}{60n} \quad (h)$$

$$L_{10h} = \left(\frac{35.1}{3.76}\right)^3 \bullet \left(\frac{10^6}{60 \times 1800}\right) = 7532\ h$$

The theoretical bearing life of the bearing unit, under normal operating conditions, is 7532 hours.

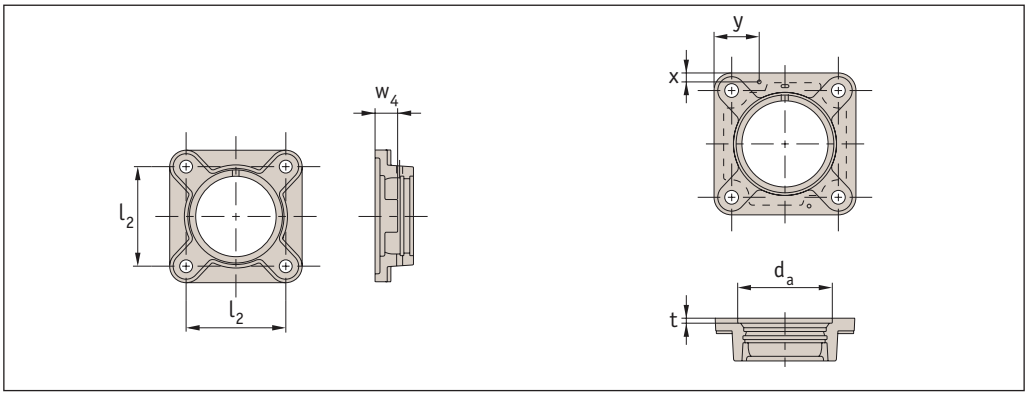
L1860 Pillow block housing



For shaft i/d d_1	h_1 ±	l_2 ±
12-20	±0,15	±0,70
25		
30		
35		
40		
45		
50		
55	±0,20	±1,00
60		
65		
70		
75		
80		
90	±0,30	

x	y	Dowel Ø
10,0	59,0	3
12,0	59,0	
13,0	72,0	
14,5	73,0	4
16,0	81,5	
16,0	88,0	5
18,0	91,0	
20,0	101,0	6
20,0	110,0	
-	-	-
21,5	119,0	6
22,0	121,5	
26,0	132,0	8
28,5	151,0	10

L1862 Square flanged bearing housing

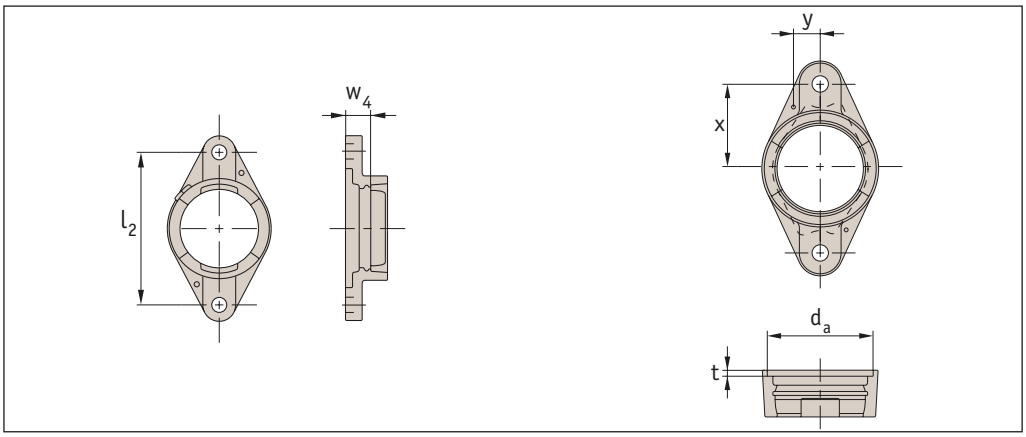


For shaft i/d d_1	l_2 ±	w_4 ±	Radial runout
12-20	±0,70	±0,50	0,20
25			
30			
35			
40			
45			
50			
55	±1,00	±0,80	0,30
60			
65			
70			
75			
80			
90			

x	y	Dowel Ø	d_a	t
36,0	13,0	3	50,80	3,2
40,5	15,0		63,50	
46,0	17,0		76,20	4,0
51,0	18,0	4	88,90	
57,0	20,0		88,90	
60,5	21,0	5	98,42	
63,5	22,0		101,60	
71,0	25,0	6	107,95	
77,5	27,0		125,40	
85,0	29,0		161,92	
85,0	29,0		161,92	
88,5	30,0		161,92	
88,5	30,0		161,92	
103,5	36,0		179,37	

Bearing Supports from Automotion Components

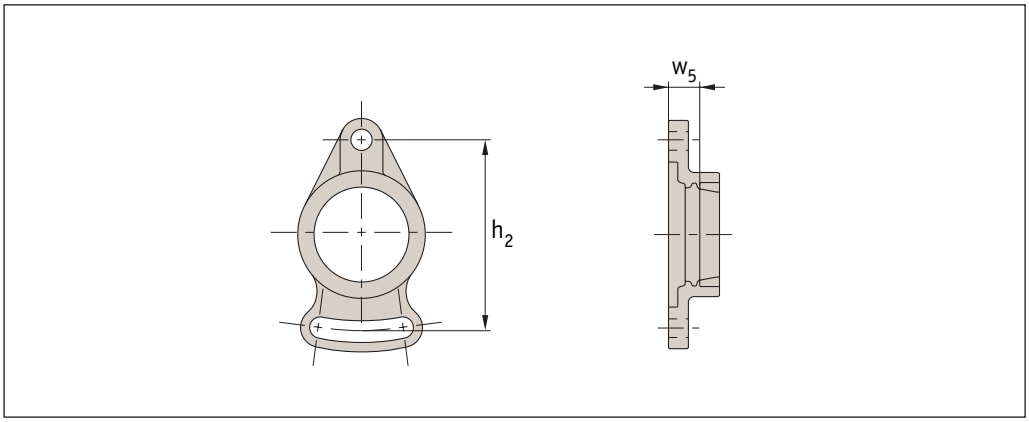
L1864 Oval flanged bearing housing



For shaft i/d d_1	l_2 ±	w_4 ±	Radial runout
12-20	±0,70	±0,50	0,20
25			
30			
35			
40			
45			
50			
55	±1,00	±0,80	0,30
60			
65			
70			
75			

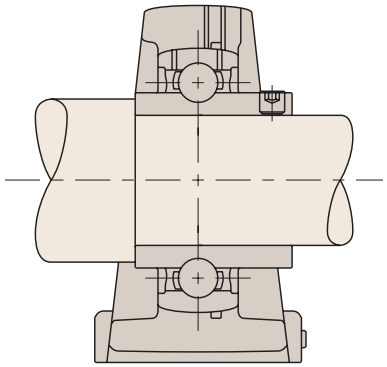
x	y	Dowel Ø	d_a	t
31,0	14,5	3	50,80	3,2
35,0	16,0		63,50	
42,5	17,0		73,00	4,0
50,0	17,0	4	82,50	
55,0	19,0		88,90	
58,0	21,0	5	98,42	
60,0	22,5		101,60	
70,0	26,0	6	107,95	
75,0	26,0		125,40	
85,0	28,0		142,00	
85,0	28,0		142,00	
85,0	30,0		142,00	

L1869 Take up unit housing



For shaft i/d	h_2 ±	w_5 ±
12-20	±0,70	±0,50
25		
30		
35		
40		
45		
50		
55	±1,00	±0,80
60		

Axial load capacity



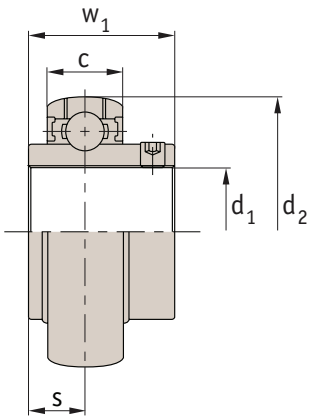
shaft shoulder recommended
for axial loads

The axial load capacity of the inserts depends largely on the type of fixing on the shaft. The inner design of the raceways and balls is of little importance in most cases. A further factor is the shaft tolerance used.

In order to attain the largest possible axial load capacity for the respective type of fixing, it is necessary that the fixing element (e.g. set screw, adapter sleeve) is secured at the specified tightening torque.

For applications with strong vibrations or shock loads, it is recommended to set the inner ring against a shaft shoulder and to secure with a groove nut and lock washer as necessary. In this case, the axial load carrying capacity of the inserts can be fully utilised. The axial load rating can be up to 0.5 times the radial static load rating C_{0r}.

Bearing tolerances



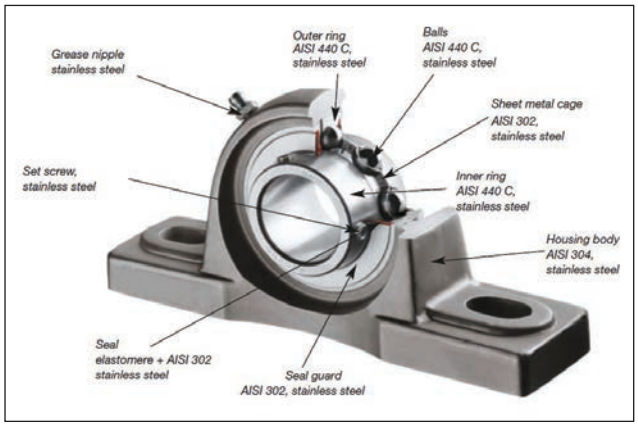
For shaft i/d	w_1	d_2 µ
12-20	±0,020	+0,0 -11
25		
30		
35		
40		
45		
50	±0,025	+0,0 -11
55		
60		
65		
70		
75		
80	±0,035	+0,0 -15
90		

Stainless Pillow Blocks

Overview

Bearing Supports from Automotion Components

Technical specification - materials



Suitable for:

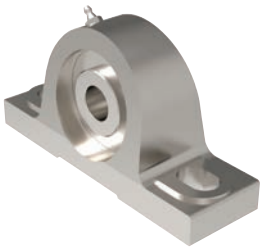
- Wet environments.
- Chemical environments.
- Frequent wash downs.

e.g. food, pharmaceuticals, bottling, outdoor application etc.

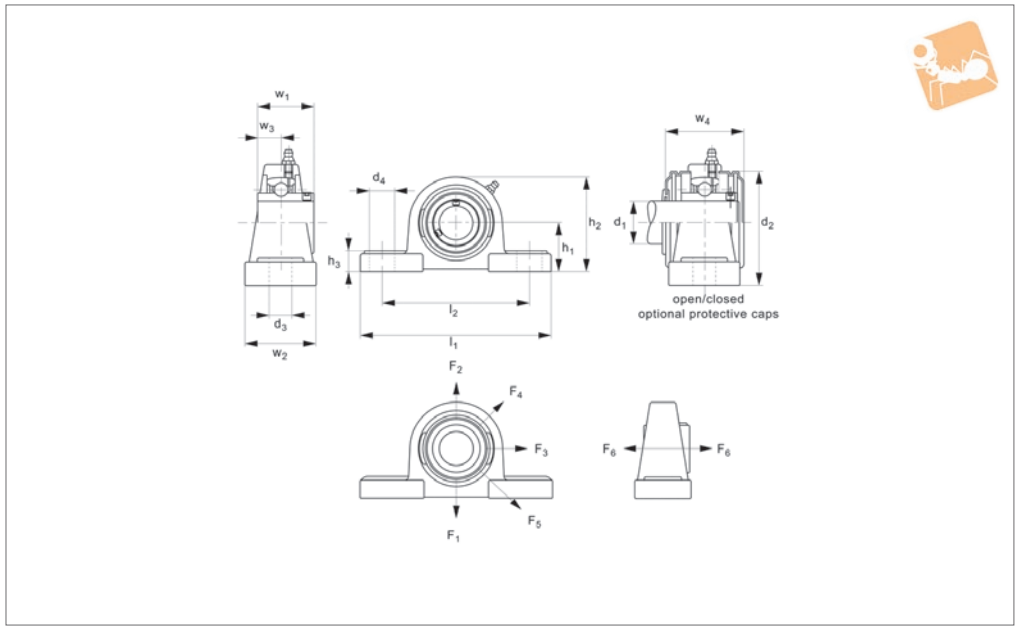
Protective end caps made of stainless steel, SCC and SCO models

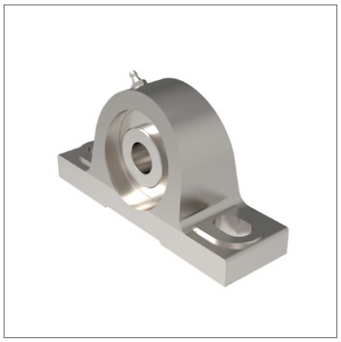
- Open protective end cap for through shafts with double-lip seal made of flourine elastomer.
- Closed protective end cap for shaft ends.
- Stainless steel AISI 304.
- Shafts Ø 12 - 60mm.
- Standard sizes available from stock.

- Stainless steel self-aligning units. Stainless steel (AISI 304 body) with AISI 440C stainless bearing unit.
- For shafts Ø 12-60mm.
- Lubricated with food grade grease (USDA H1 approved), Mobil FM102.
- Temperature range -20°C to +120°C.

Pillow block	Four point flange	Two point flange
		

- Generally used in food, pharmaceutical and chemical industries, or where washdown is needed/ outdoor applications.
- Use with h6 tolerance shafts.





L1870

Material
Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes
Self-aligning bearing units.
Temperature range for bearings: -15°C to +120°C.
Resistant to a moisture and a wide range of aggressive chemicals.
For optional shaft end caps add suffixes:
-CO for two open protective caps (with seals) for through shafts.
-CC for one open and one closed protective caps for shaft ends.

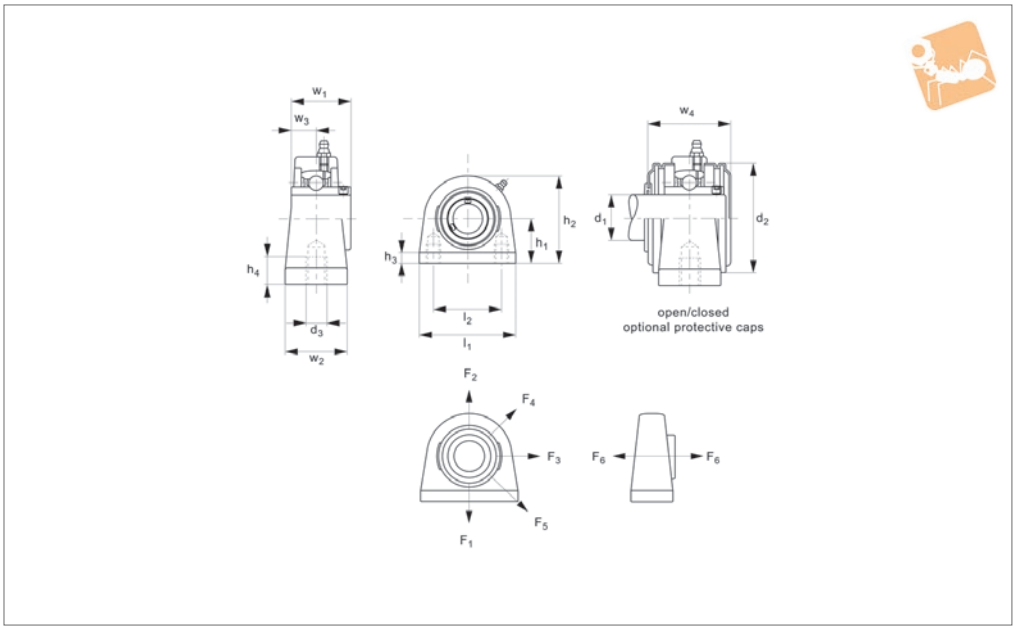
Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
Maximum housing loads measured @ 20°C.

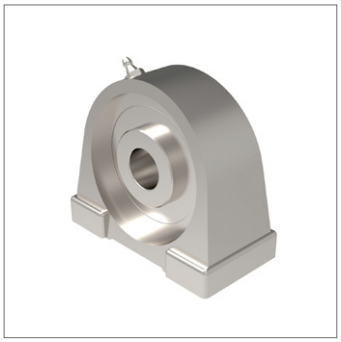
Order No.	d_1 for h6	l_1	d_2	d_3	d_4	h_1	h_2 +0|-0.8	h_3	l_2	w_1	w_2	w_3	w_4	Weight kg
L1870.012	12	126	54	13	19	33.3	65	15	95	31.0	38	12.7	45.6	0.83
L1870.015	15	126	54	13	19	33.3	63	15	95	31.0	38	12.7	45.6	0.80
L1870.017	17	126	54	13	19	33.3	65	15	95	31.0	38	12.7	45.6	0.84
L1870.020	20	126	54	13	19	33.3	65	15	95	31.0	38	12.7	45.6	0.82
L1870.025	25	140	60	13	19	36.5	70	16	105	34.1	38	14.3	47.8	0.95
L1870.030	30	165	70	17	21	42.9	83	18	121	38.1	48	15.9	52.8	1.58
L1870.035	35	167	80	17	21	47.6	94	19	127	42.9	48	17.5	57.4	1.95
L1870.040	40	184	88	17	23	49.2	100	19	136	49.2	54	19.0	66.8	2.39
L1870.045	45	190	95	17	23	54.0	109	20	146	49.2	54	19.0	67.8	2.72
L1870.050	50	206	100	20	25	57.2	114	22	159	51.6	60	19.0	75.6	3.28
L1870.055	55	219	110	20	25	63.5	126	23	171	55.6	60	22.2	75.2	4.12
L1870.060	60	241	120	20	25	69.8	138	25	184	65.1	70	25.4	87.8	5.71

Order No.	Speed rpm max.	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Housing load F_2 kN max.	Housing load F_3 kN max.	Torque screw to Nm	Housing load F_4 kN max.	Housing load F_5 kN max.	Set screw size
L1870.012	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.015	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.017	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.020	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.025	4000	11.0	8.0	180	36	74	120	8.5	56	180	M 6x1
L1870.030	3400	15.3	11.5	240	44	100	180	8.5	70	240	M 6x1

Stainless Pillow Block Bearing Units

Order No.	Speed rpm max.	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Housing load F_2 kN max.	Housing load F_3 kN max.	Torque screw to Nm	Housing load F_4 kN max.	Housing load F_5 kN max.	Set screw size
L1870.035	3000	20.1	15.6	320	48	120	200	20	88	320	M 8x1
L1870.040	2600	22.8	18.2	360	50	130	220	20	90	360	M 8x1
L1870.045	2400	25.7	20.8	380	52	140	240	40	98	380	M 10x1,25
L1870.050	2200	27.5	23.7	380	64	150	280	40	110	380	M 10x1,25
L1870.055	1800	34.0	25.5	475	80	191	350	40	262	475	M 10x1,25
L1870.060	1600	41.0	31.5	587	99	236	433	40	324	587	M 10x1,25





L1871

Material
Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes
Self-aligning bearing units.
Temperature range for bearings: -15°C to +120°C.
Resistant to a moisture and a wide range of aggressive chemicals.
For shaft end caps add suffixes:
-CO for open (with seal)
-CC for closed.

Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
Maximum housing loads measured @ 20°C.

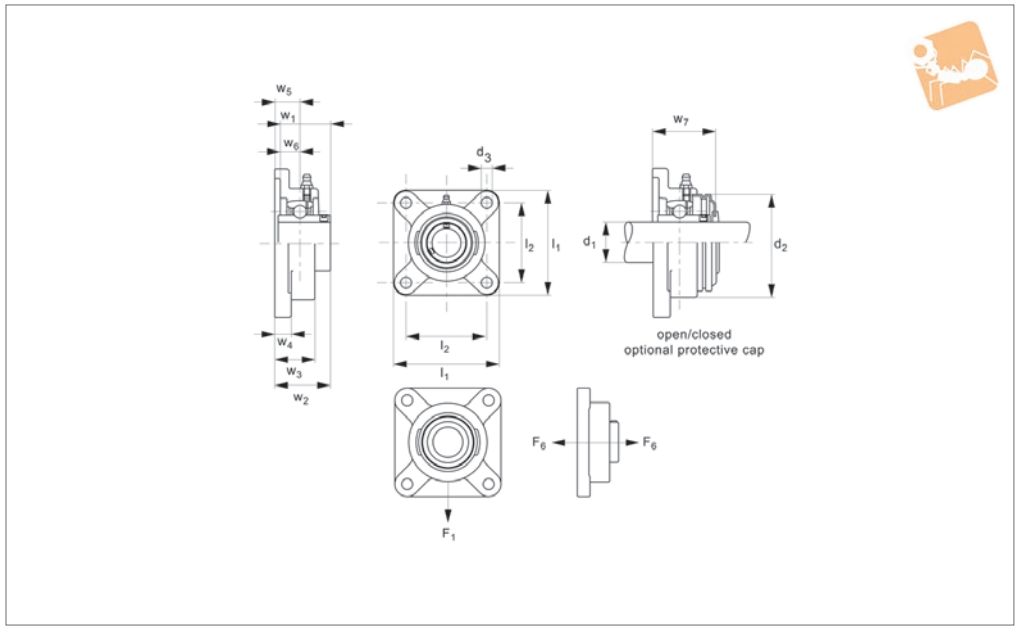
Order No.	d_1 for h6	l_1	d_2	d_3	h_1	h_2 +0|-0.8	h_3	h_4	l_2	w_1	w_2	w_3	w_4	Weight kg
L1871.012	12	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.73	33.3
L1871.015	15	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.71	33.3
L1871.017	17	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.70	33.3
L1871.020	20	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.68	33.3
L1871.025	25	76	M10	50.8	60	11	13	34.1	71	38	14.3	47.8	0.78	36.5
L1871.030	30	102	M10	76.2	70	12	16	38.1	86	38	15.9	52.8	1.30	42.9
L1871.035	35	108	M10	82.6	80	12	19	42.9	95	48	17.5	57.4	1.72	47.6
L1871.040	40	117	M12	89.0	88	13	19	42.9	100	48	19.0	66.8	1.91	49.2
L1871.045	45	127	M12	95.3	95	13	19	49.2	108	51	19.0	67.8	2.33	54.0
L1871.050	50	140	M16	101.6	100	13	19	51.6	117	51	19.0	75.6	2.83	57.2

Order No.	Speed rpm	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Housing load F_2 kN max.	Housing load F_3 kN max.	Torque screw to Nm	Housing load F_4 kN max.	Housing load F_5 kN max.	Set screw size
L1871.012	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.015	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.017	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.020	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.025	4000	11.0	8.0	180	36	74	120	20	56	180	M 8x1
L1871.030	3400	15.3	11.5	240	44	100	180	20	70	240	M 8x1
L1871.035	3000	20.1	15.6	320	48	120	200	40	88	320	M 10x1,25

Stainless Pillow Block Bearing Units

blind holes

Order No.	Speed rpm	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Housing load F_2 kN max.	Housing load F_3 kN max.	Torque screw to Nm	Housing load F_4 kN max.	Housing load F_5 kN max.	Set screw size
L1871.040	2600	22.8	18.2	360	50	130	220	40	90	360	M 10x1,25
L1871.045	2400	25.7	20.8	380	52	140	240	40	98	380	M 10x1,25
L1871.050	2200	27.5	23.7	380	64	150	280	40	110	380	M 10x1,25



L1872

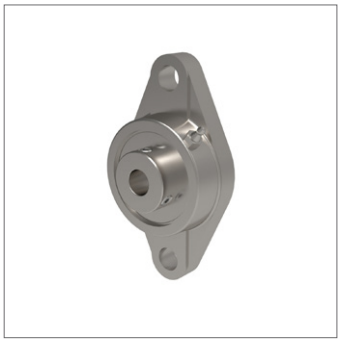
Material
Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes
Self-aligning bearing units.
Temperature range for bearings: -15°C to +120°C.
Resistant to a moisture and a wide range of aggressive chemicals.
For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

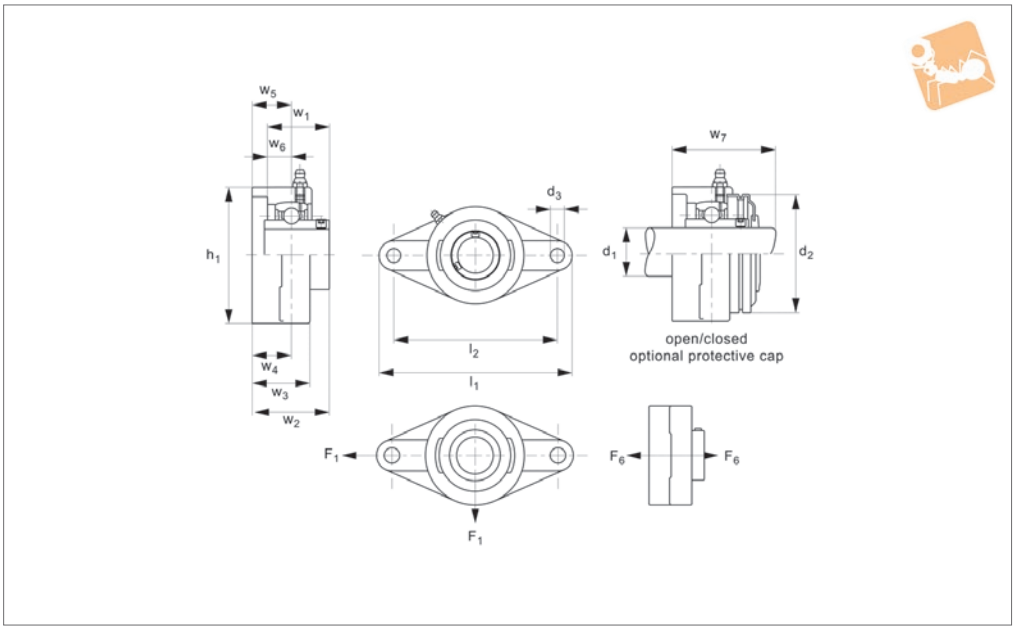
Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
Maximum housing loads measured @ 20°C.

Order No.	d_1 for h6	l_1	d_2	d_3	l_2	w_1	w_2 +0.3|-0	w_3	w_4	w_5	Weight kg
L1872.012	12	86	12	64	31.0	33.3	25.5	12.0	15	0.66	54
L1872.015	15	86	12	64	31.0	33.3	25.5	12.0	15	0.64	54
L1872.017	17	86	12	64	31.0	33.3	25.5	12.0	15	0.63	54
L1872.020	20	86	12	64	31.0	33.3	25.5	12.0	15	0.61	0.71
L1872.025	25	95	12	70	34.1	35.8	27.0	14.0	16	0.82	60
L1872.030	30	108	12	83	38.1	40.2	30.5	14.0	18	1.31	70
L1872.035	35	116	14	92	42.9	44.4	33.5	14.5	19	1.41	80
L1872.040	40	130	16	102	49.2	51.2	36.0	14.5	21	1.89	88
L1872.045	45	137	16	105	49.2	52.2	38.0	15.5	22	2.32	95
L1872.050	50	143	16	111	51.6	54.6	40.0	15.0	22	2.65	100
L1872.055	55	162	19	130	55.6	58.4	44.0	20.0	25	4.06	110
L1872.060	60	175	19	143	65.1	68.7	48.0	20.0	29	5.48	120

Order No.	w_6	w_7	Speed rpm	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Torque screw to Nm	Set screw size
L1872.012	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.015	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.017	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.020	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.025	14.3	39.9	4000	11.0	8.0	130	50	8.5	M 6x1
L1872.030	15.9	44.4	3400	15.3	11.5	130	60	8.5	M 6x1
L1872.035	17.5	48.2	3000	20.1	15.6	130	70	20	M 8x1
L1872.040	19.0	54.4	2600	22.8	18.2	140	78	20	M 8x1
L1872.045	19.0	55.9	2400	25.7	20.8	200	90	40	M 10x1,25
L1872.050	19.0	59.8	2200	27.5	23.7	200	100	40	M 10x1,25
L1872.055	22.2	62.6	1800	34.0	25.5	255	125	40	M 10x1,25
L1872.060	25.4	72.9	1600	41.0	31.5	315	155	40	M 10x1,25



L1873



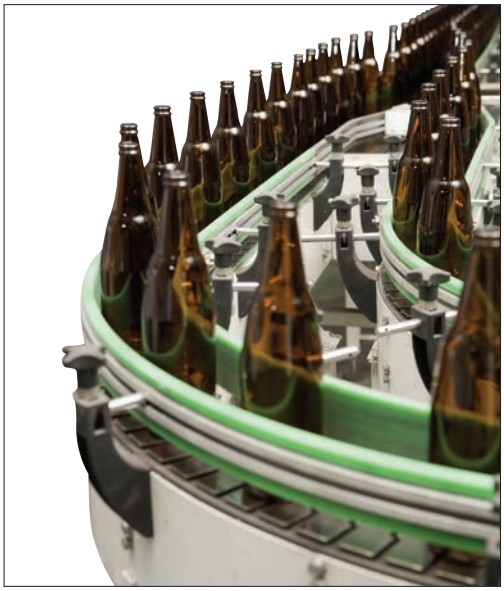
Material
Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes
Self-aligning bearing units.
Temperature range for bearings: -15°C to +120°C.
Resistant to a moisture and a wide range of aggressive chemicals.
For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
Maximum housing loads measured @ 20°C.

Order No.	d_1 for h6	l_1	d_2	d_3	h_1	l_2	w_1	w_2 +0.3 | -0	w_3	w_4	Weight kg
L1873.012	12	112	12	90	46	31.0	33.3	25.5	12	0.52	60
L1873.015	15	112	12	90	46	31.0	33.3	25.5	12	0.51	60
L1873.017	17	112	12	90	46	31.0	33.3	25.5	12	0.49	60
L1873.020	20	112	12	90	54	31.0	33.3	25.5	12	0.47	60
L1873.025	25	125	16	99	60	34.1	35.8	27.0	13	0.60	68
L1873.030	30	141	16	117	70	38.1	40.2	31.0	13	0.89	80
L1873.035	35	156	16	130	80	42.9	44.4	33.0	15	1.18	90
L1873.040	40	172	19	144	88	49.2	51.2	36.0	15	1.53	100
L1873.045	45	180	19	148	95	49.2	52.2	38.0	15	1.81	108
L1873.050	50	190	19	157	100	51.6	54.6	39.0	16	2.17	115

Order No.	w_5	w_6	w_7	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Torque screw to Nm	Set screw size	Axial load F_6 kN max.
L1873.012	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.015	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.017	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.020	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.025	16	14.3	39.9	11.0	8.0	76	20	M 8x1	32
L1873.030	18	15.9	44.4	15.3	11.5	76	20	M 8x1	40
L1873.035	19	17.5	47.7	20.1	15.6	80	40	M 10x1,25	46
L1873.040	21	19.0	54.4	22.8	18.2	82	40	M 10x1,25	54
L1873.045	22	19.0	55.9	25.7	20.8	120	40	M 10x1,25	64
L1873.050	22	19.0	59.8	27.5	23.7	124	40	M 10x1,25	78

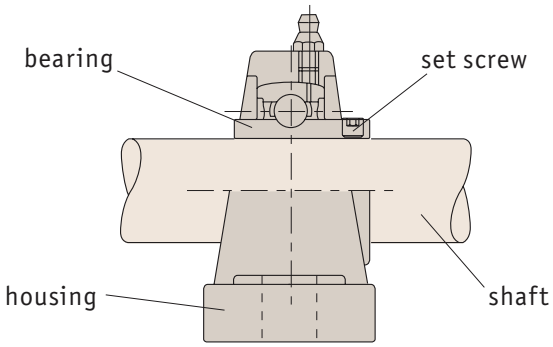


Ball bearing units made of stainless steel are used in areas where corrosion resistance is a must. In these areas, where high atmospheric humidity or the requirement for periodic washdown of the equipment is necessary to prevent bacteria growth, conventional ball bearing units made of cast iron do not suit.

We offer a comprehensive standard range of ball bearing units made of stainless steel. To satisfy the requirements of the pharmaceutical and food industries all our ball bearing units made of stainless steel are filled with grease meeting the USDA H1 food grade specification.

Bearing i/d Ø	Max. rpm	Max. dynamic bearing load kN	Max. static bearing load kN
12	4800	10,1	6,8
15	4800	10,1	6,8
17	4800	10,1	6,8
20	4800	10,1	6,8
25	4000	11,0	8,0
30	3400	15,3	11,5
35	3000	20,1	15,6
40	2600	22,8	18,2
45	2400	25,7	20,8
50	2200	27,5	23,7
55	1800	34,0	25,5
60	1600	41,0	31,5

Tightening torques

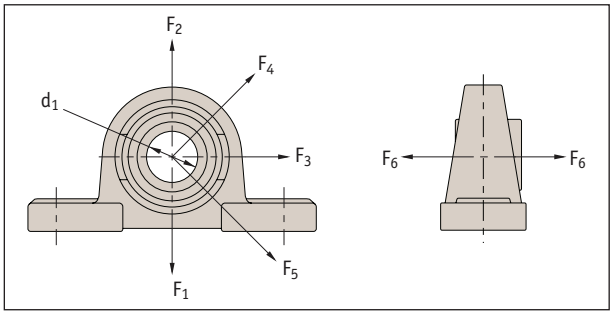


Ø	Set screw	Torque to Nm
12-30	M6 x 1	8,5
35-40	M8 x 1	20
45-60	M 10 x 1,5	40

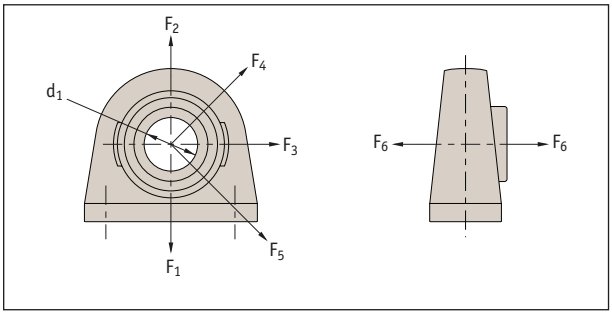
Bearing Supports from Automotion Components

Stainless Pillow Blocks

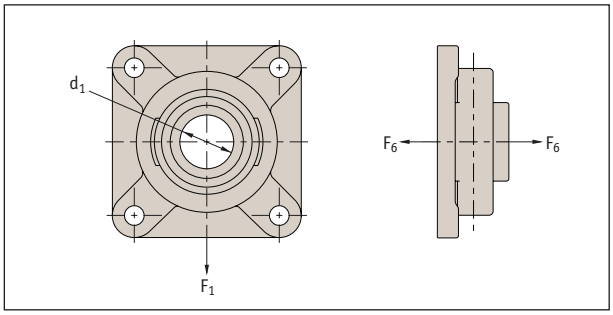
Maximum housing loads



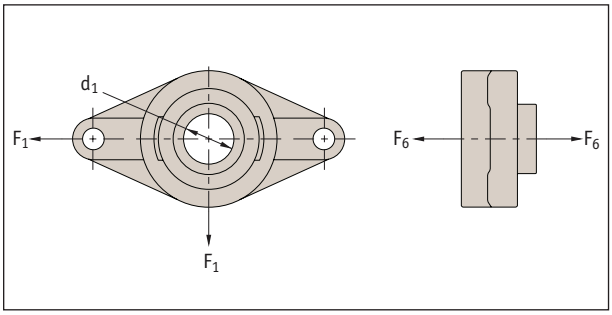
Order no.	Static load carrying capacity (kN) Load direction						Ød1
	F1	F2	F3	F4	F5	F6	
L1870.012-020	160	66	110	50	160	34	12-20
L1870.012-025	180	74	120	56	180	36	25
L1870.012-030	240	100	180	70	240	44	30
L1870.012-035	320	120	200	88	320	48	35
L1870.012-040	360	130	220	90	360	50	40
L1870.012-045	380	140	240	98	380	52	45
L1870.012-050	380	150	280	110	380	64	50
L1870.012-055	475	191	350	262	475	80	55
L1870.012-060	587	236	433	324	587	99	60



Order no.	Static load carrying capacity (kN) Load direction						Ød1
	F1	F2	F3	F4	F5	F6	
L1871.012-020	160	66	110	50	160	34	12-20
L1871.012-025	180	74	120	56	180	36	25
L1871.012-030	240	100	180	70	240	44	30
L1871.012-035	320	120	200	88	320	48	35
L1871.012-040	360	130	220	90	360	50	40
L1871.012-045	380	140	240	98	380	52	45
L1871.012-050	380	150	280	110	380	64	50



Order no.	Static load carrying capacity (kN) Load direction						Ød1
	F1	F2	F3	F4	F5	F6	
L1872.012-020	86	-	-	-	-	36	12-20
L1872.012-025	130	-	-	-	-	50	25
L1872.012-030	130	-	-	-	-	60	30
L1872.012-035	130	-	-	-	-	70	35
L1872.012-040	140	-	-	-	-	78	40
L1872.012-045	200	-	-	-	-	90	45
L1872.012-050	200	-	-	-	-	100	50
L1872.012-055	255	-	-	-	-	125	55
L1872.012-060	315	-	-	-	-	155	60



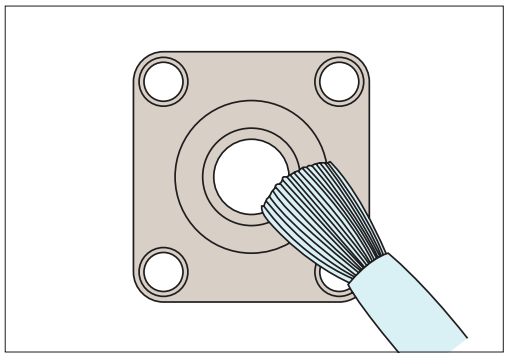
Order no.	Static load carrying capacity (kN) Load direction						Ød1
	F1	F2	F3	F4	F5	F6	
L1873.012-020	48	-	-	-	-	24	12-20
L1873.012-025	76	-	-	-	-	32	25
L1873.012-030	76	-	-	-	-	40	30
L1873.012-035	80	-	-	-	-	46	35
L1873.012-040	82	-	-	-	-	54	40
L1873.012-045	120	-	-	-	-	64	45
L1873.012-050	124	-	-	-	-	78	50

Description of the installation steps

Self-aligning bearing units must be installed under conditions that ensure maximum bearing life. We recommend that you refer to the following chapters and follow the reference procedures for this type of bearing unit.

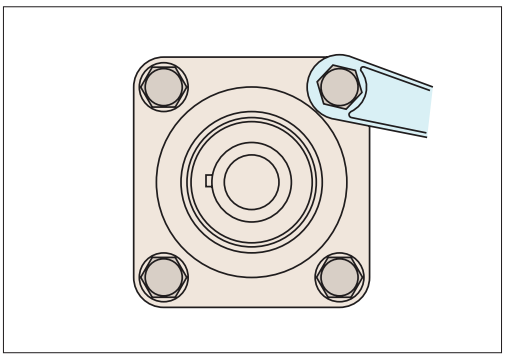
When installing sealed bearings, grease the seals to avoid dry operation when the shaft first starts to rotate.

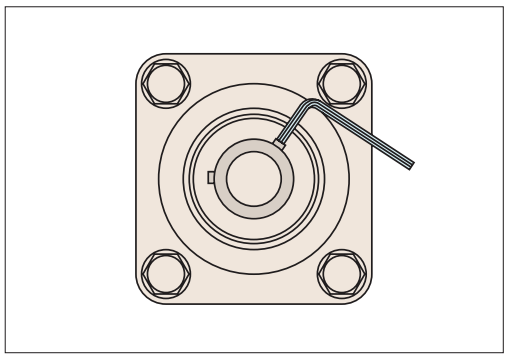
Make sure that the seating surfaces are perfectly clean and flat before starting any installation operations.



Install the shaft by mounting the bearing unit housings on the supporting frame. Tighten the inner ring retaining screw to the required torque indicated in the torque value table.

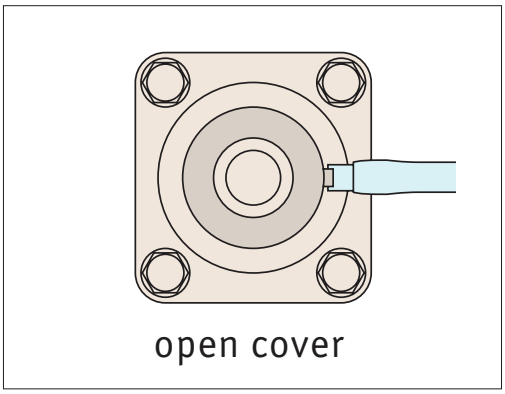
In all cases the shaft is installed first by attaching the bearing unit housings to the supporting frame. Tighten the screws in alternate diagonals.

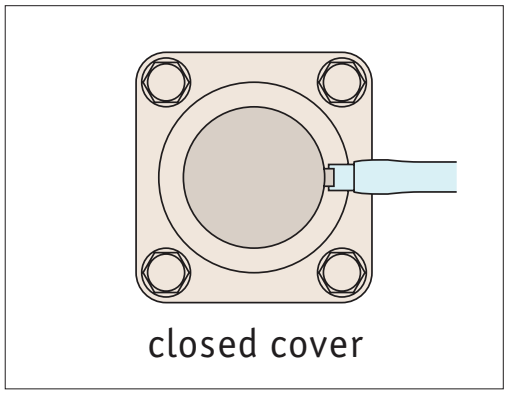




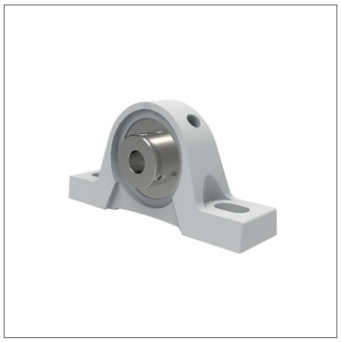
Installation / removal of protective covers

The covers (if required) are installed by snap-fitting, which can be done with a light blow of a mallet. They are removed by inserting the tip of a screwdriver into the cavity and applying light pressure to release them.

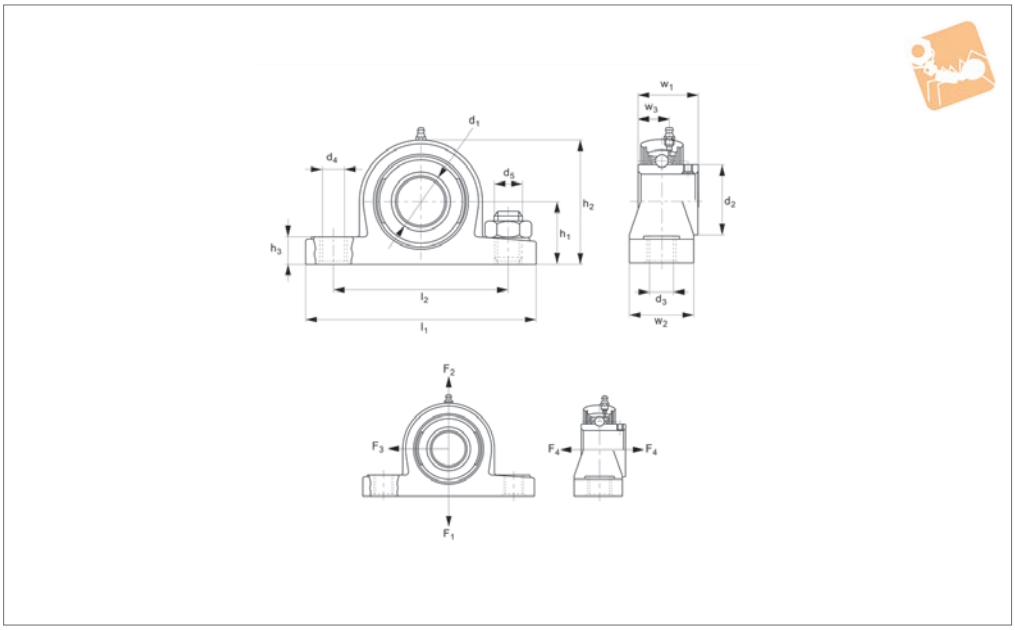




Thermoplastic Pillow Block Unit



L1876



Material
Thermoplastic (PBT) housing, with smooth surfaces. Stainless steel bearings (440C) with 2RS seals and sleeves for fixing bolts. Bearing lubricated with food grade grease.

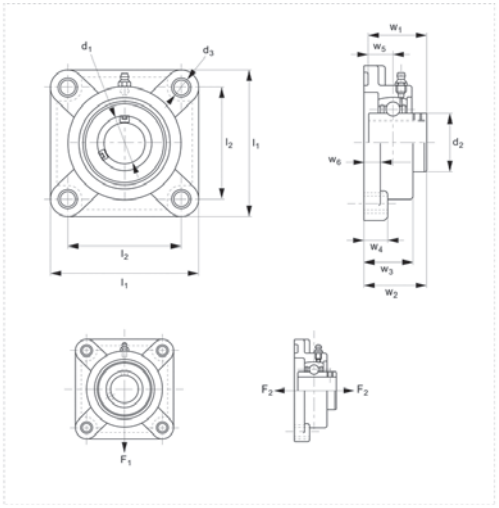
Technical Notes
Self-aligning bearing units.

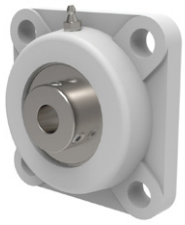
Temperature range for bearings: -15°C to +120°C.
Resistant to a wide range of chemicals.
Provide good protection against bacterial contamination.

Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
For protective end caps see L1879.

Order No.	d_1 for h6	l_1	w_1	w_2	w_3	d_2	d_3	d_4	d_5	h_1	h_2 +0|-0.8	h_3	l_2	Weight kg
L1876.020	20	127.0	31.0	38.0	12.7	29.0	11.0	14.0	M10	33.3	65.0	14.2	95.0	0.30
L1876.025	25	140.0	34.0	38.0	14.3	34.0	11.0	14.0	M10	36.5	71.0	14.5	105.0	0.35
L1876.030	30	162.0	38.1	46.0	15.9	40.5	14.0	18.0	M12	42.9	83.0	17.8	119.0	0.55
L1876.035	35	167.0	42.9	48.0	17.5	48.0	14.0	18.0	M12	47.6	94.0	18.0	127.0	0.78
L1876.040	40	184.0	49.2	54.0	19.0	53.0	14.0	18.0	M12	49.2	98.0	19.5	137.0	0.98

Order No.	Speed rpm max.	Static radial bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_2 kN max.	Housing load F_3 kN max.	Axial load F_4 kN max.	Set screw size	Torque screw to Nm
L1876.020	7400	5.3	1.7	1.4	1.3	0.7	M6x1	3.9
L1876.025	6200	6.3	2.0	1.5	1.3	0.9	M6x1	3.9
L1876.030	5300	9.0	2.5	1.8	2.0	1.3	M6x1	3.9
L1876.035	4500	12.3	3.0	2.1	2.1	1.6	M8x1	8.3
L1876.040	4000	14.3	3.0	2.1	2.1	1.6	M8x1	8.3





L1877

Material
Thermoplastic (PBT) housing, with smooth surfaces. Stainless steel bearings (440C) with 2RS seals and sleeves for fixing bolts. Bearing lubricated with food grade grease.

Technical Notes
Self-aligning bearing units.

Temperature range for bearings: -15°C to +120°C.
Resistant to a wide range of chemicals.
Provide good protection against bacterial contamination.
Open and closed protection caps available (see our part L1869).

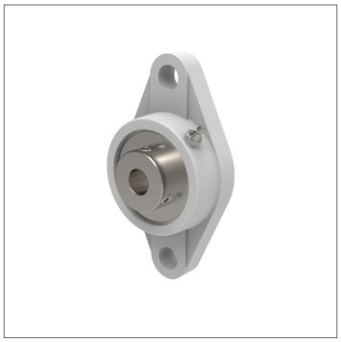
Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
For protective end caps see L1879.

Order No.	d_1 for h6	l_1	w_1	w_2	w_3	w_4	w_5	w_6	d_2	Weight kg
L1877.020	20	86	31.0	36.3	27.8	13.4	12.7	18.0	29.0	0.30
L1877.025	25	95	34.0	36.7	28.0	14.3	14.3	17.0	34.0	0.36
L1877.030	30	107	38.1	41.4	31.5	14.3	15.9	19.2	40.5	0.51
L1877.035	35	118	42.9	46.9	34.8	15.5	17.5	21.5	48.0	0.75
L1877.040	40	130	49.2	53.2	37.5	17.0	19.0	23.0	53.0	0.98

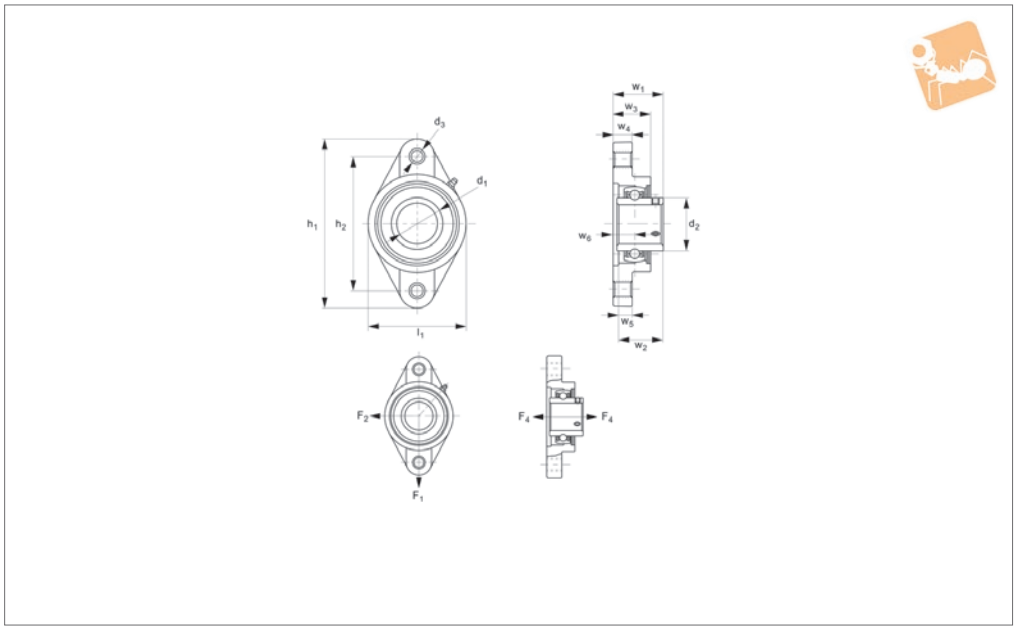
Order No.	d_3	l_2	Speed rpm	Static radial bearing load C_0 kN max.	Housing load F_1 kN max.	Axial load F_2 kN max.
L1877.020	11	63.5	7400	5.3	1.6	0.7
L1877.025	11	70.0	6200	6.3	1.7	0.7
L1877.030	11	83.0	5300	9.0	2.3	1.1
L1877.035	13	92.0	4500	12.3	3.1	1.3
L1877.040	14	102.0	4000	14.3	3.1	1.5

Thermoplastic Oval Flanged Unit

two point flange



L1878



Material

Thermoplastic (PBT) housing, with smooth surfaces. Stainless steel bearings (440C) with 2RS seals and sleeves for fixing bolts. Bearing lubricated with food grade grease.

Technical Notes

Self-aligning bearing units.

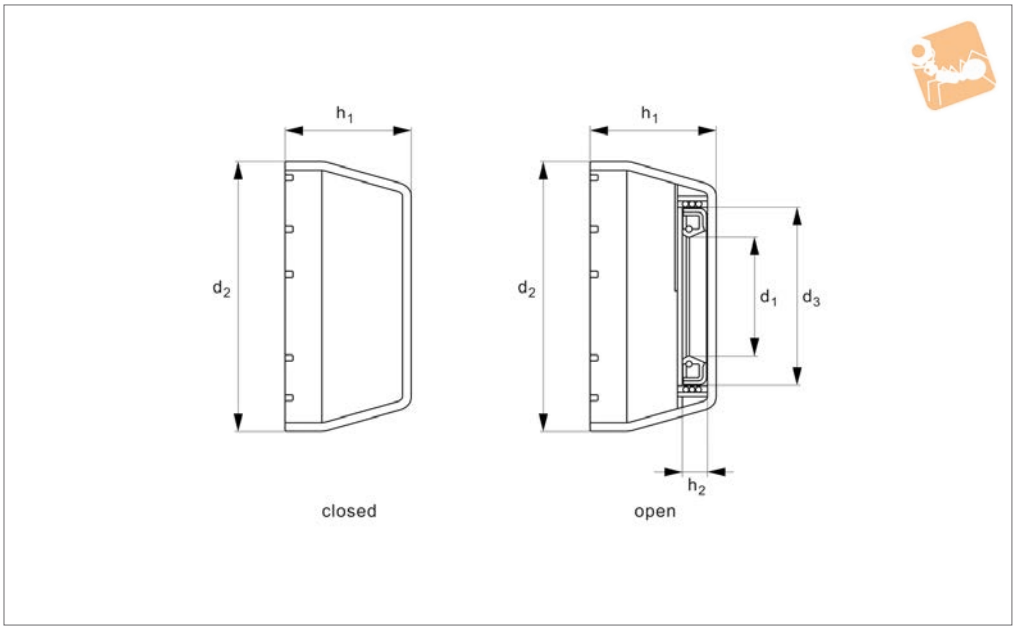
Temperature range for bearings: -15°C to +120°C.
Resistant to a wide range of chemicals.
Provide good protection against bacterial contamination.
Open and closed protection caps available (see our part L1869).

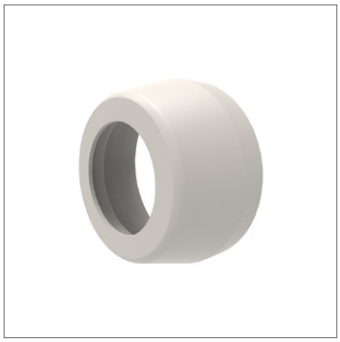
Tips

Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
For protective end caps see L1879.

Order No.	d_1 for h6	l_1	w_1	w_2	w_3	w_4	w_5	w_6	d_2	d_3	Weight kg
L1878.020	20	65	33.7	31.0	26.5	11.4	12.7	15.4	29.0	11	0.25
L1878.025	25	70	36.7	34.0	29.7	13.5	14.3	17.0	34.0	11	0.30
L1878.030	30	80	41.2	38.1	30.5	13.3	15.9	19.0	40.5	11	0.45
L1878.035	35	90	43.4	42.9	32.8	16.1	17.5	18.0	48.0	13	0.67
L1878.040	40	100	51.7	49.2	37.5	20.0	19.0	21.5	53.0	14	0.88

Order No.	h_1	h_2 +0|-0.8	Speed rpm max.	Static radial bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_2 kN max.	Axial load F_3 kN max.	Set screw size	Torque screw to Nm
L1878.020	130	90	7400	5.3	0.9	2.2	0.7	M6x1	3.9
L1878.025	130	99	6200	6.3	1.5	2.2	0.7	M6x1	3.9
L1878.030	148	117	5300	9.0	1.6	2.9	1.0	M6x1	3.9
L1878.035	163	130	4500	12.3	2.0	3.2	1.4	M8x1	8.3
L1878.040	175	144	4000	14.3	2.0	3.2	1.4	M8x1	8.3





L1879

Material
White SR50 polypropene, with smooth surfaces.

Technical Notes
Temperature range: -15°C to +110°C.
Resistant to a wide range of chemicals.

Provide good protection against bacterial contamination.

Order No.	Type	d_1	d_2	d_3	h_1	h_2
L1879.200-CC	Closed	20	50.1	-	23	7
L1879.250-CC	Closed	25	55.0	-	25	7
L1879.300-CC	Closed	30	64.0	-	30	7
L1879.350-CC	Closed	35	74.5	-	32	7
L1879.400-CC	Closed	40	84.0	-	37	7
L1879.200-CO	Open	20	50.1	32	23	7
L1879.250-CO	Open	25	55.0	37	25	7
L1879.300-CO	Open	30	64.0	42	30	7
L1879.350-CO	Open	35	74.5	47	32	7
L1879.400-CO	Open	40	84.0	52	37	7

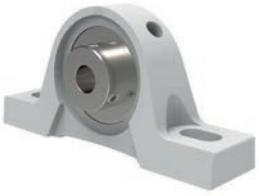
Thermoplastic Pillow Blocks

Overview

Bearing Supports from Automotion Components

- Thermoplastic self-aligning unit, with stainless steel insert
- For diameters of shaft 20-40mm
- White PBT resin (prevents retention of dust, mould and bacteria)
- Lubricated with food grade grease (USDA H1 approved)
- Temperature range -15°C to +90°C
- Excellent chemical resistance (acids, bases, organic solvents, salts etc.)

Pillow block



Four point flange

Two point flange

- Can be used in wet or chemical environments such as bottling lines, food or pharmaceutical production lines, outdoor applications etc.
- Use with h6 tolerance shafts

Installation

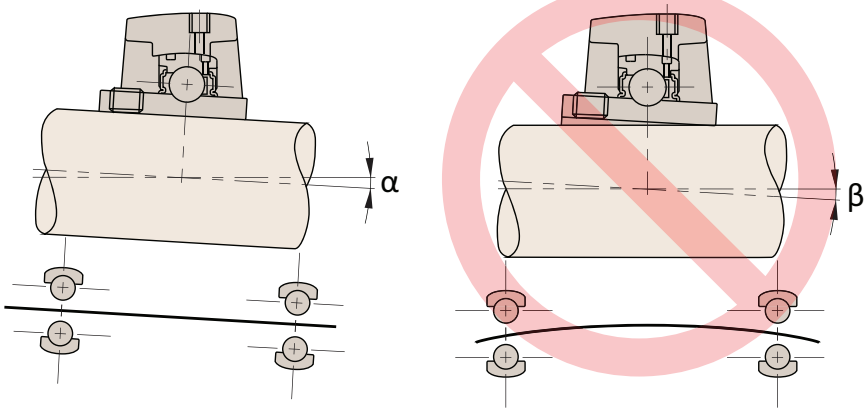
- Check clean and flat surface
- Tighten retaining screws, diagonal method
- Check shaft can be rotated by hand
- Check no distortion

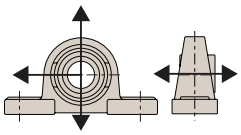
Tightening of stainless steel fitting screws

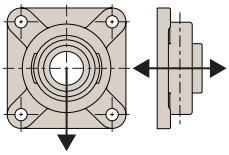
M6 thread, torque to 3.9 Nm
M8 thread, torque to 8.3 Nm

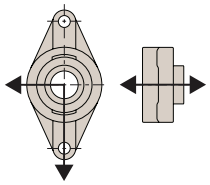
Permissible misalignment

- With provision for re-lubrication, the bearing can swivel inside the housing up to an angle **α** of about 5° (the groove is aligned with the lubricator hole) and 8° without provision for re-lubrication
- Pay attention to the swivelling of the bearing in the bearing unit. Permanent swivelling induced by rotational deflection of the shaft would cause wear of the housing and is therefore not allowable (angle ß)
- The maximum allowable values are those for deep-groove ball bearings corresponding to the same shaft diameter (maximum angle ß < 0.5)



Part no.	Max. rpm (h_6 shaft)	Loads	Max. static bearing radial load C_o kN	Max. housing load capacity at 20°C* kN ↓	↑	←	Max. axial load kN ↔	Screw size
L1876.020	7,400		5,3	1,7	1,4	1,3	0,7	M10
L1876.025	6,200		6,3	2,0	1,5	1,3	0,9	M10
L1876.030	5,300		9,0	2,5	1,8	2,0	1,3	M10
L1876.035	4,500		12,3	3,0	2,1	2,1	1,6	M12
L1876.040	4,000		14,3	3,0	2,1	2,1	1,6	M12

Part no.	Max. rpm (h_6 shaft)	Loads	Max. static bearing radial load C_o kN	Max. housing load capacity at 20°C* kN ↓	Max. axial load kN ↔	Screw size
L1877.020	7,400		5,3	1,6	0,7	M10
L1877.025	6,200		6,3	1,7	0,7	M10
L1877.030	5,300		9,0	2,3	1,1	M10
L1877.035	4,500		12,3	3,1	1,3	M12
L1877.040	4,000		14,3	3,1	1,5	M12

Part no.	Max. rpm (h_6 shaft)	Loads	Max. static bearing radial load C_o kN	Max. housing load capacity at 20°C* kN ←	↓	Max. axial load kN ↔	Screw size
L1877.020	7,400		5,3	2,2	0,9	0,7	M10
L1877.025	6,200		6,3	2,0	1,5	0,7	M10
L1877.030	5,300		9,0	2,9	1,6	1,0	M10
L1877.035	4,500		12,3	3,2	2,0	1,4	M12
L1877.040	4,000		14,3	3,2	2,0	1,4	M12

*at 20° continuous load

Characteristics of thermoplastic PBT

Properties	Unit	
Tensile strength at yield	N/mm²	115
Elongation at yield	%	3
Tensile modulus	N/mm²	8,000
Flexural yield strength	N/mm²	170
Flexural modulus	N/mm²	7,000
Notched impact strength Charpy	k/m²	12
Notched impact strength IZOD	J/m	100
Hardness H358/10	N/mm²	104
Hardness H358/60	N/mm²	101
Hardness Rockwell	-	L102

Thermal	Unit	
Oxygen index	%	19
Flame retardancy (1/6mm thickness)	-	94HB
Heat resistance: Vicat, method B	°C	210-215
Thermal conductivity	W/m²C	0,19
Mould shrinkage flow	%	0,4-0,6
Cross flow direction	%	0,6-0,8

Physical	Unit	
Water absorption: Saturation for 24h at 23°C	%	0,06

Chemical Resistance of PBT

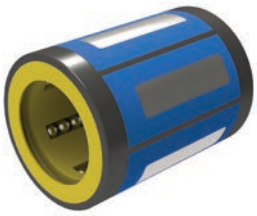
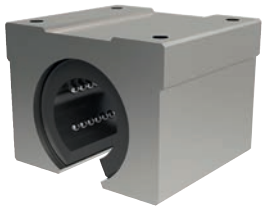
Thermoplastic bearing units

Bearing Supports from Automotion Components

For units L1876 - L1878

All data expressed in terms of % retention of tensile strength.

Chemical environment	°C	Immulsion days	% retention of strength
Acids			
10% Hydrochloric	23	30	89
	23	90	85
	23	180	82
10% Sulphuric	23	30	97
	23	90	94
	23	180	90
36% Sulphuric (battery)	23	30	97
	23	180	96
	66	30	84
	66	180	35
10% Acetic	23	30	89
	23	180	88
Bases			
5% Potassium hydroxide	23	30	83
	23	90	10
10% Sodium hydroxide	23	30	2
	23	180	-
10% Ammonium hydroxide	23	30	90
	23	90	87
	23	180	58
Salts			
10% Zinc chloride	25	30	97
	25	90	94
10% Sodium hydroxide	25	30	98
	25	90	98
10% Sodium chloride	25	30	97
	25	90	97
Organic solvents			
Ethyl alcohol	23	30	99
	23	180	94
Methyl alcohol	23	30	91
	23	180	76
Isopropyl-alcohol	23	30	100
	23	180	100
Isopropyl-alcohol & water (50/50)	23	30	93
	23	180	96
Turpentine	23	30	66
	23	180	92
Acetone	23	30	90
	23	180	63

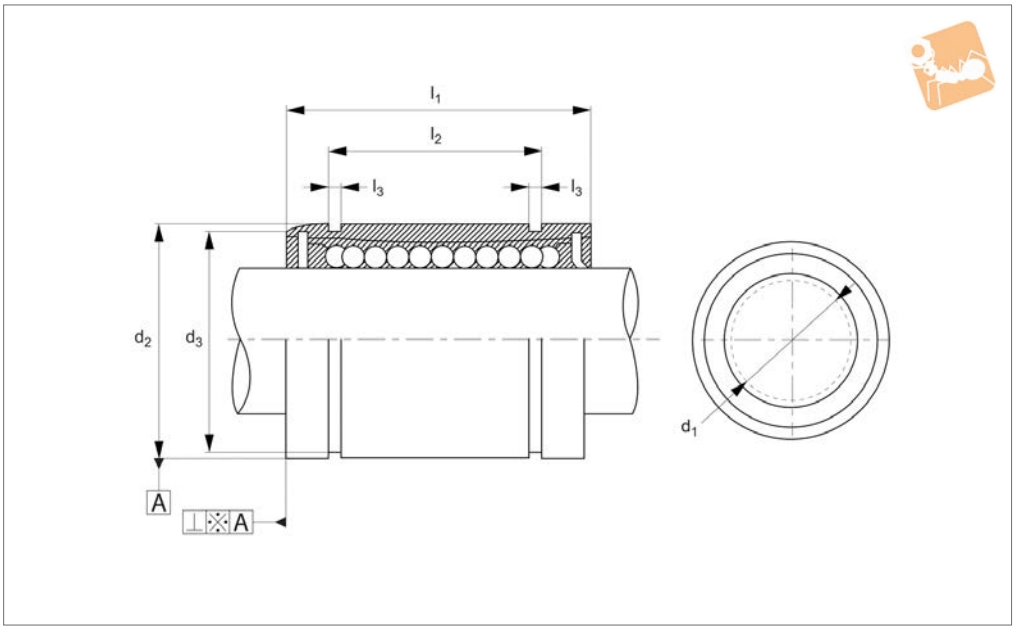
L1706  Closed, open + adjustable	**L1712**  Double compliment versions	**L1715**  Compact versions
L1718  Front flanged standard	**L1723**  Front flanged double compliment	**L1731**  Centre flanged double compliment
L1740  Superball bushings	**L1750**  Closed linear carriage	**L1753**  Open linear carriage

For full technical information, see end of product section.

Linear Ball Bushings from Automotion Components

Closed Linear Ball Bushings

L1706



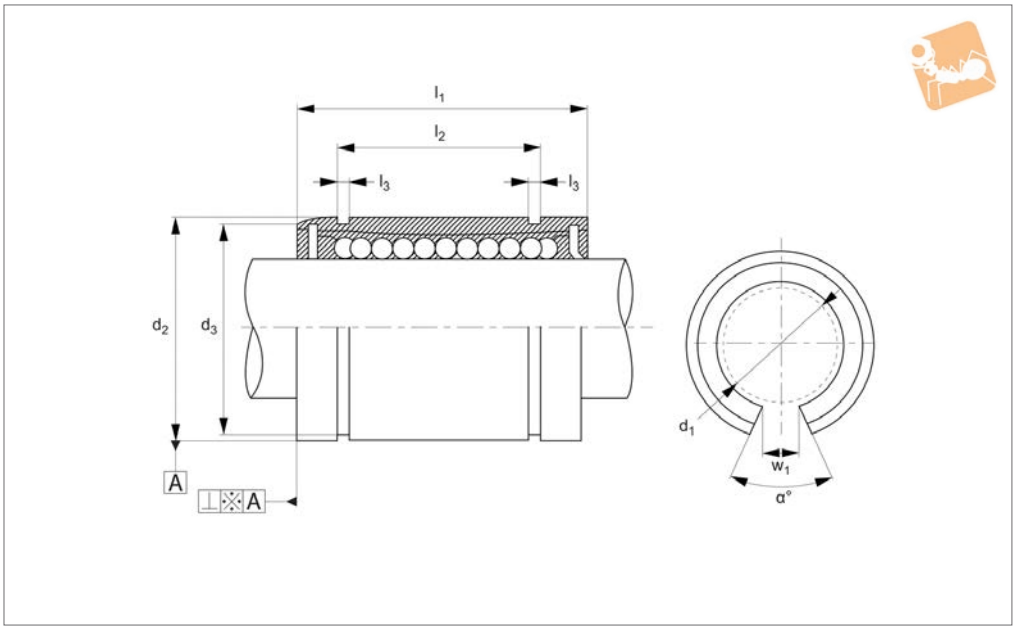
Material
Hardened and ground body from bearing steel. Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.

Perpendicularity .A is better than 15µ.
For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications up to 120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
Superball linear bearings are also available (3 x load rating of standard bushings and 27 x travel life see part nos. L1740 and L1742.)
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1709.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 +0|-0.3	d_3	l_2 +0|-0.3	l_3	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1706.005	5	12	22	11.5	14.5	1.10	4	200	260	12
L1706.006-1	6	12	19	11.5	13.5	1.10	4	200	260	8
L1706.008	8	16	25	15.2	16.5	1.10	4	260	400	20
L1706.010-1	10	19	29	18.0	22.0	1.30	4	370	540	30
L1706.012	12	22	32	21.0	22.9	1.30	4	410	590	41
L1706.016	16	26	36	24.9	24.9	1.30	5	770	1170	57
L1706.020	20	32	45	30.3	31.5	1.60	5	860	1370	91
L1706.025	25	40	58	37.5	44.1	1.85	6	980	1560	215
L1706.030	30	47	68	44.5	52.1	1.85	6	1560	2740	325
L1706.040	40	62	80	59.0	60.6	2.15	6	2150	4010	705
L1706.050	50	75	100	72.0	77.6	2.65	6	3820	7930	1130
L1706.060	60	90	125	86.5	101.7	3.15	6	4700	9990	2220



L1707

Material
Hardened and ground body from bearing steel. Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals -UU as standard.

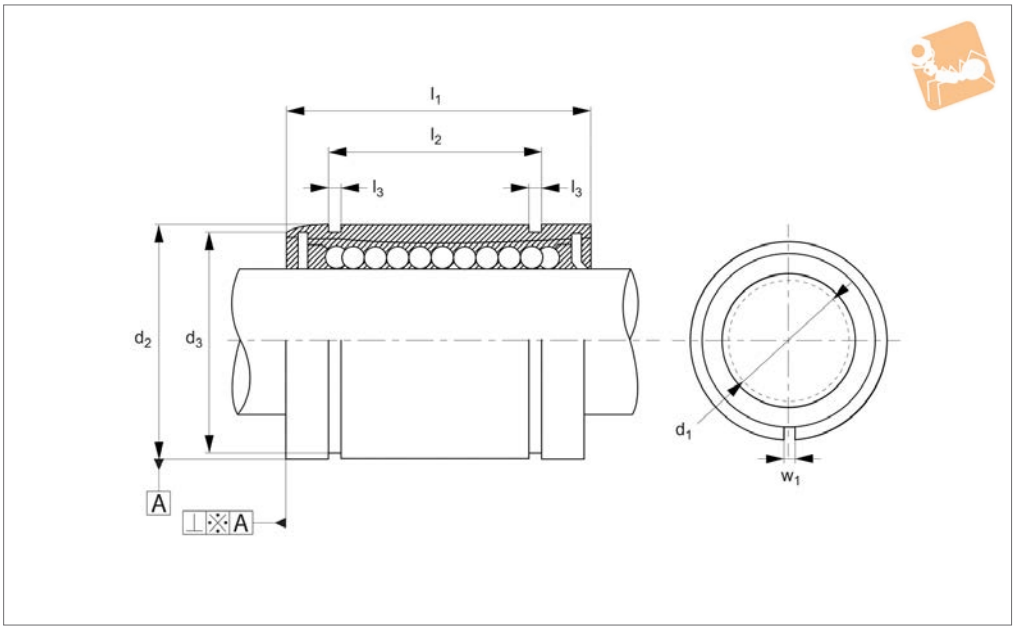
Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6. Perpendicularity . A is better than 15µ. Temperature range: -20°C to +80°C. Steel ball retainers can be supplied for higher temperature applications up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
d_2 is the dimension before the bush has been slotted. Superball linear bearings are also available (3 x load rating of standard bushings and 27 x travel life see part nos. L1740 and L1742.)

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 +0|-0.3	d_3	l_2 +0|-0.3	l_3	w_1	α °	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1707.012	12	22	32	21.0	22.9	1.30	7.3	78°	3	410	590	41
L1707.016	16	26	36	24.9	24.9	1.30	10.0	78°	4	770	1170	57
L1707.020	20	32	45	30.3	31.5	1.60	10.0	60°	5	860	1370	91
L1707.025	25	40	58	37.5	44.1	1.85	12.5	60°	6	980	1560	215
L1707.030	30	47	68	44.5	52.1	1.85	12.5	50°	6	1560	2740	325
L1707.040	40	62	80	59.0	60.6	2.15	16.8	50°	6	2150	4010	705
L1707.050	50	75	100	72.0	77.6	2.65	21.0	50°	6	3820	7930	1130
L1707.060	60	90	125	86.5	101.7	3.15	27.2	54°	6	4700	9990	2220

Adjustable Linear Ball Bushings

L1708



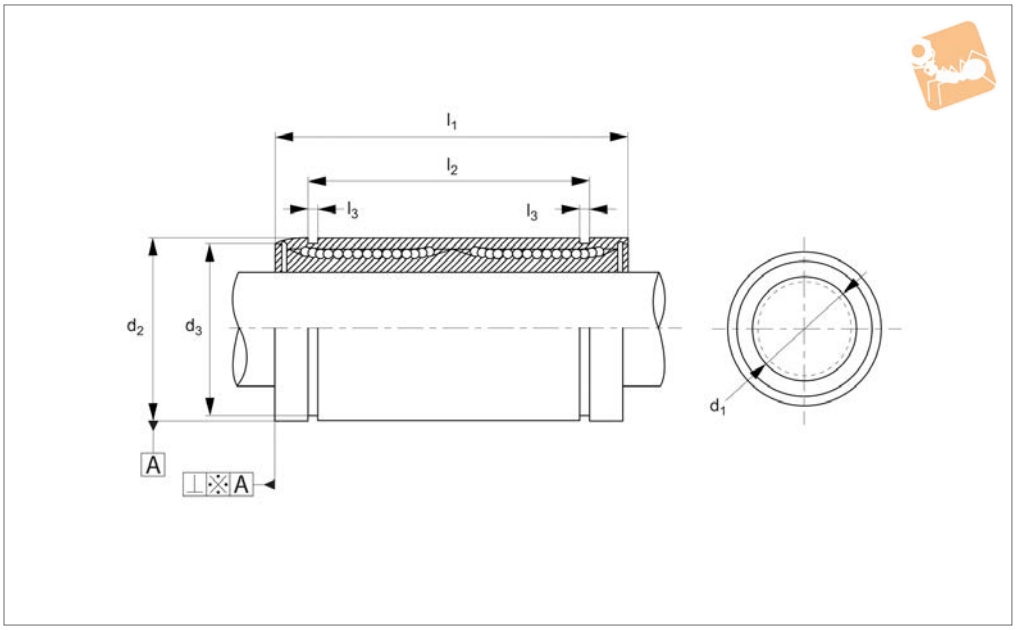
Material
Hardened and ground body from bearing steel. Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6. Perpendicularity TA is better than 15µ.

For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: -20°C to +80°C.
Steel ball retainers can be supplied for higher temperatures applications up to 120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
d_2 is the dimension before the bush has been slotted. Superball linear bearings are also available (3 x load rating of standard bushings and 27 x travel life see part nos. L1740 and L1742.)
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1711.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3	l_2	l_3	w_1	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1708.005	5	12	22	11.5	14.5	1.10	1.0	4	200	260	12
L1708.006-1	6	12	19	11.5	13.5	1.10	1.0	4	200	260	8
L1708.008	8	16	25	15.2	16.5	1.10	1.0	4	260	400	20
L1708.010-1	10	19	29	18.0	22.0	1.30	1.0	4	370	540	30
L1708.012	12	22	32	21.0	22.9	1.30	1.5	4	410	590	41
L1708.016	16	26	36	24.9	24.9	1.30	1.5	5	770	1170	57
L1708.020	20	32	45	30.3	31.5	1.60	2.0	5	860	1370	91
L1708.025	25	40	58	37.5	44.1	1.85	2.0	6	980	1560	215
L1708.030	30	47	68	44.5	52.1	1.85	2.0	6	1560	2740	325
L1708.040	40	62	80	59.0	60.6	2.15	3.0	6	2150	4010	705
L1708.050	50	75	100	72.0	77.6	2.65	3.0	6	3820	7930	1130
L1708.060	60	90	125	86.0	101.7	3.15	3.0	6	4700	9990	2220



L1712

Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

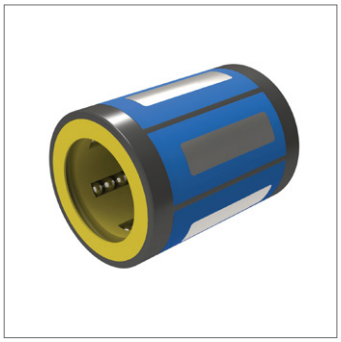
Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1713.

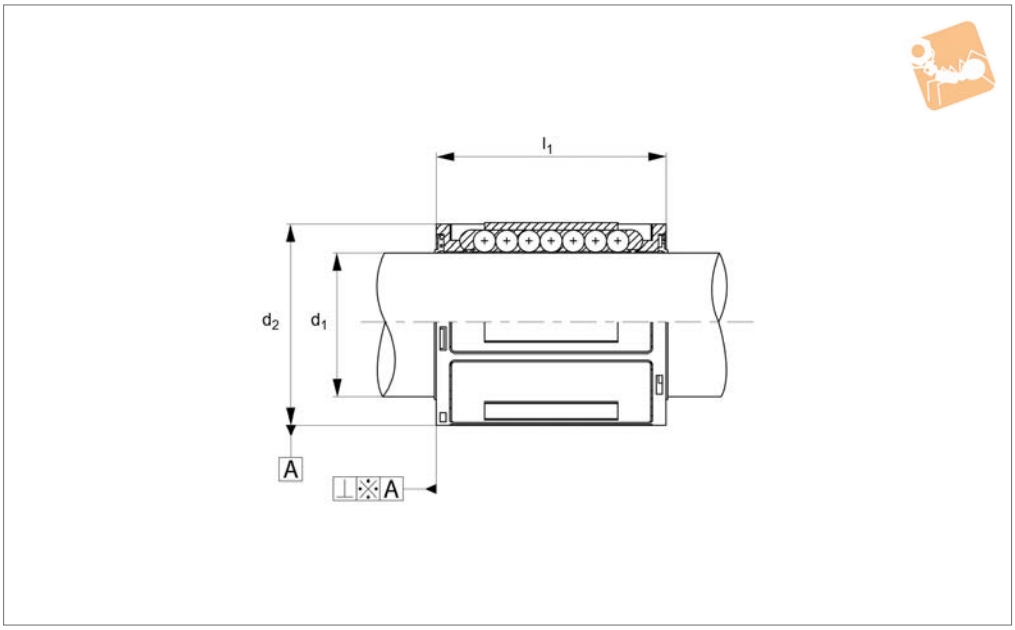
Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3	l_2	l_3	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1712.008	8	16	45	15.2	33.0	1.10	4	430	780	31
L1712.012	12	22	57	21.0	45.8	1.30	4	650	1200	80
L1712.012-1	12	22	61	21.0	45.8	1.30	4	830	1600	80
L1712.016	16	26	70	24.9	49.8	1.30	5	1230	2350	145
L1712.020	20	32	80	30.3	61.0	1.60	5	1400	2750	180
L1712.025	25	40	112	38.0	82.0	1.85	6	1560	3140	440
L1712.030	30	47	123	44.5	104.2	1.85	6	2490	5490	580
L1712.040	40	62	154	59.0	121.2	2.15	6	3430	8040	1170
L1712.050	50	75	192	72.0	155.2	2.65	6	6080	15900	3100
L1712.060	60	90	211	86.5	170.0	3.15	6	7650	20000	3500

Compact Linear Ball Bushings

Compact size



L1715



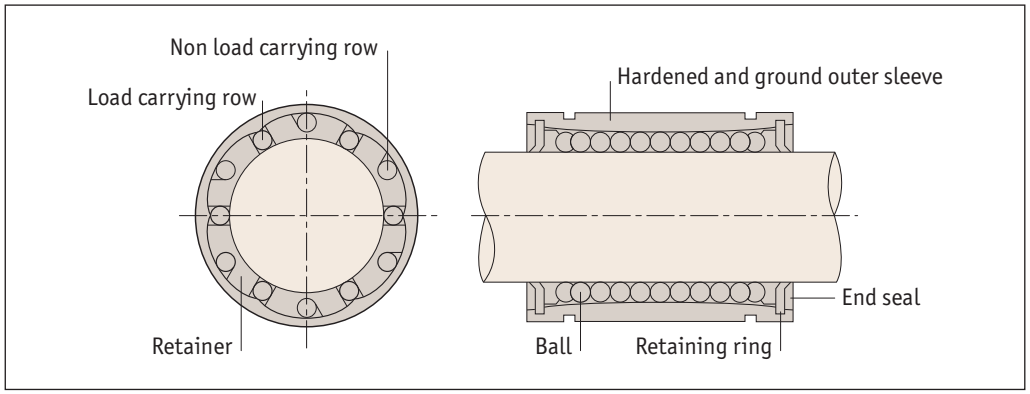
Material
Durable plastic body with corrosion resistant hardened steel raceway segments.

Technical Notes
Advantages - Low cost, compact construction, press fit, oil resistant seal, corrosion resistant housing.
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: -20°C to +80°C.

Tips
Easy assembly by press fitting, no additional retention is required when fitted into a bore with a tolerance of J6 or J7.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 ±0.2	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1715.008	8	15	24	4	350	260	6.9
L1715.010	10	17	26	4	416	320	8.4
L1715.012	12	19	28	4	480	385	11.3
L1715.014	14	21	28	5	640	440	13.3
L1715.016	16	24	30	5	925	625	18.3
L1715.020	20	28	30	6	1165	790	22.1
L1715.025	25	35	40	6	2100	1370	51.2
L1715.030	30	40	50	6	2870	2100	70.6
L1715.040	40	52	60	7	5200	4100	90.2
L1715.050	50	62	70	8	6620	5600	110.2

Linear ball bushings



Applications

- Computers and peripheral equipment.
- Recording equipment.
- Linear motion systems.
- Multi-axis drilling machine.
- Printing machines.
- Food packaging machines.
- Punching presses.
- Tool grinders.
- Assembly systems.
- Card selectors.

Interchangeability

Our linear bushing systems are designed to have full interchangeability, with other manufacturers' parts. **For shafting see part numbers L1770 to L1785.**

High precision retainer

The single body retainer guides 4-6 ball circuits. It precisely guides the balls with a smooth motion.

Tolerance of housing bore

Normal fit is standard, pressed fit is for without clearance.

Type	Case	
Part no.	Normal fit	Pressed fit
L1706 to L1733	H7	K6, J6
L1706...$^{-1}$ to L1733...$^{-1}$	H7	J7

Rigid outer sleeve

The hardened and precisely ground outer sleeve is made of bearing steel.

L1750 bushing carriages

Consists of light aluminium case and L1706 type linear bushing, so the installation can be finished simply by bolting. Longer life can be obtained by adjusting the orientation of the ball circuits in the linear carriage element against the direction of load.

Tolerance of shaft

Type	Shaft	
Part no.	Normal fit	Tight fit
L1706 to L1733	h6	k6
L1706...$^{-1}$ to L1733...$^{-1}$	f6, g6	h6

Basic dynamic load rating C

The basic dynamic load rating is defined as the constant load both in direction and magnitude under which a group of identical linear bushings are individually operated. 90% of the units can travel 50Km without failing due to rolling contact fatigue.

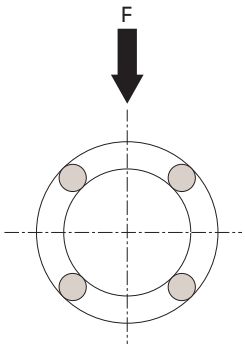
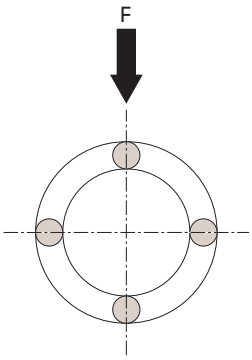
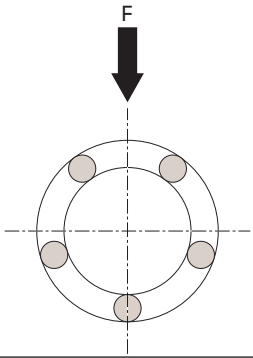
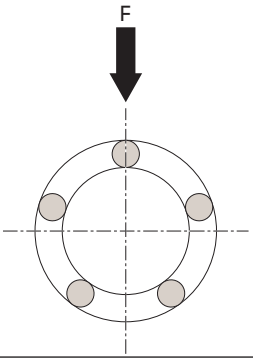
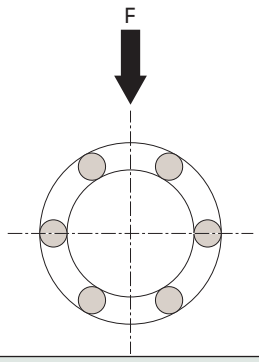
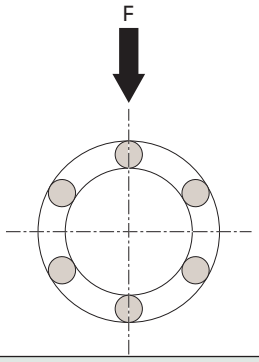
Basic static load rating C_0

If a linear bushing is subject to an excessive load or impact, a permanent deformation occurs between the raceway and the rolling element. The basic static load rating is defined as the static load that gives a prescribed constant contact stress at the centre of the contact area between the rolling element and raceway receiving the maximum load.

Relationships between load ratings and the position of ball circuits

Load ratings of linear bushing are affected by the position of the ball circuits as shown below.

Load ratings and orientation of balls.

No of ball rows	Orientation of balls	
	Maximum load rating	Minimum load rating
4		
	F = 1.41 x C	F = C
5		
	F = 1.46 x C	F = C
6		
	F = 1.26 x C	F = C

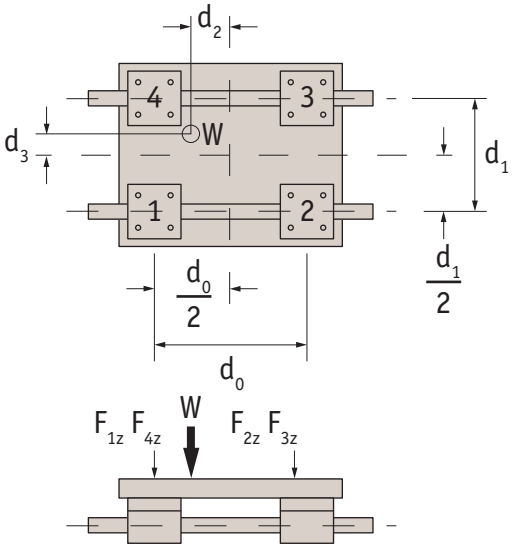
When designing a linear motion system it is necessary to consider how the application will affect performance. The following examples demonstrate how the position of the load and the centre of gravity can influence product selection. When evaluating your application, review each of the forces acting on your system and determine the product that best suits your needs.

$$F_{1z} = \frac{W}{4} + \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) - \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$

$$F_{2z} = \frac{W}{4} - \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) - \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$

$$F_{3z} = \frac{W}{4} - \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) + \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$

$$F_{4z} = \frac{W}{4} + \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) + \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$



Horizontal application

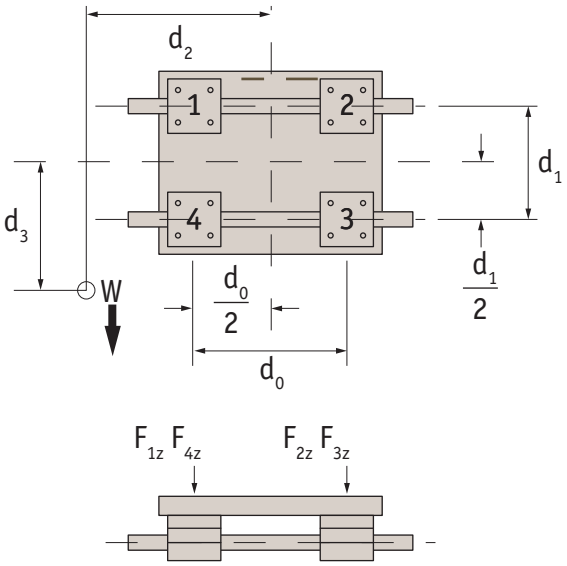
For uniform speed or when stopped.

$$F_{1z} = \frac{W}{4} + \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) - \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$

$$F_{2z} = \frac{W}{4} - \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) - \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$

$$F_{3z} = \frac{W}{4} - \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) + \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$

$$F_{4z} = \frac{W}{4} + \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right) + \left(\frac{W}{2} \cdot \frac{d_3}{d_1}\right)$$



Horizontal application

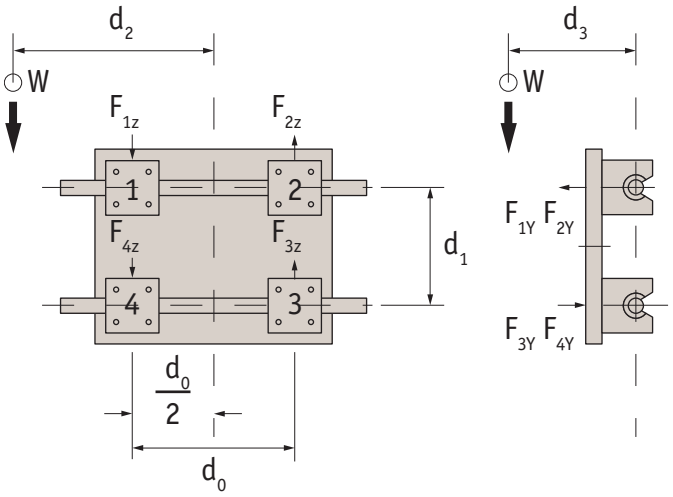
For uniform speed or when stopped.

Side mounted application

For uniform speed or when stopped.

$$F_{1Y} \sim F_{4Y} = \left(\frac{W}{2} \cdot \frac{d_3}{d_0}\right) \qquad F_{1Z} = F_{4Z} = \frac{W}{4} + \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right)$$

$$F_{2Z} = F_{3Z} = \frac{W}{4} + \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right)$$



Vertical application

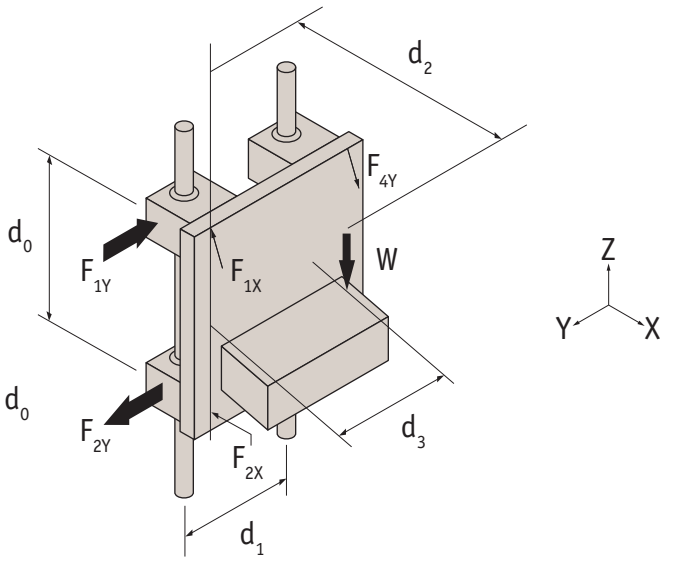
For uniform speed or when stopped. On start up/stop the load varies due to inertia in the system.

$$F_{1X} \sim F_{4X} = \left(\frac{W}{2} \cdot \frac{d_2}{d_0}\right)$$

$$F_{1Y} \sim F_{4Y} = \left(\frac{W}{2} \cdot \frac{d_3}{d_0}\right)$$

$$F_{1X} + F_{4X} \sim F_{2X} + F_{3X}$$

$$F_{1Y} + F_{4Y} \sim F_{2Y} + F_{3Y}$$



Friction

The coefficient of friction (μ) of Automotion Components ball bushings without seals is very low at approximately 0.001 to 0.003. When seals are used to retain lubricant or to prevent entry of foreign particles, friction resistance must be taken into account for determining total frictional drag. This protection measure adds to the frictional drag of the bearing system. There is a fine line between minimizing frictional drag and maximizing containment protection which is controlled by the addition or removal of seals, wipers or scrapers.

Linear bushings are used with grease or oil lubrication but in some cases can be used without any lubrication.

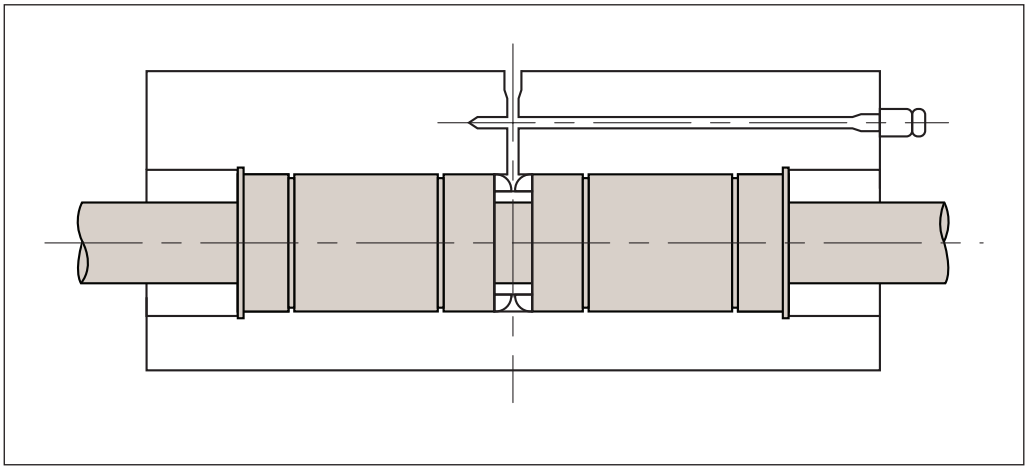
Grease lubrication

Before applying the grease, the anti-corrosive oil must be removed with kerosene or an organic solvent. The grease must be applied when the bushing is dry. Grease must be applied directly on the balls for linear bushing with seals. Lithium soap of viscosity mark (JIS No.2) is recommended for use.

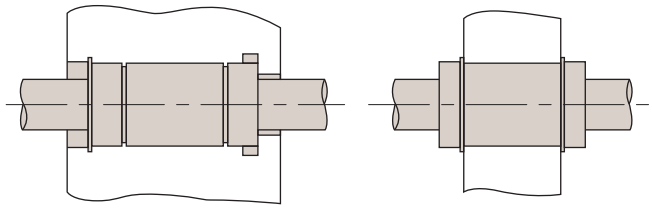
Oil lubrication

There is no need to to remove the anti-corrosive oil when oil is used for lubrication. ISO viscosity grade VG15~100 oil is usually used according to the temperature ranges below. Drop the oil onto the shaft for lubrication, or supply it through an oil hole provided on the housing (see illustration below). However, dropping lubrication cannot be used on linear bushings with seals as the seals remove the oil.

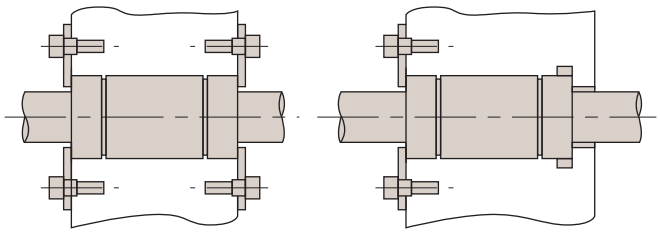
Operating temperature	Viscosity
-30°C to +50°C	VG 15 to 46
+50°C to +80°C	VG 46 to 100



Standard type



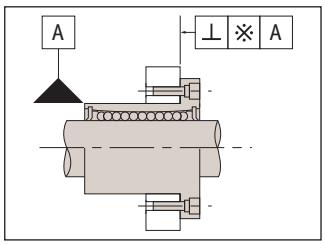
Mounted with circlips

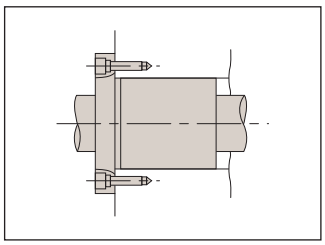


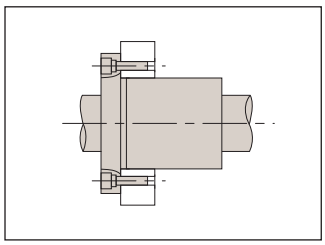
Mounted with adapter plates

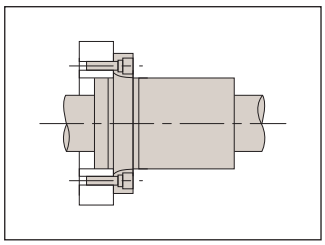
For shaft Ø	Circlip	
	External (for Shaft)	Internal (for Bore)
5	P0380.012-A2	P0381.012-A2
6	P0380.012-A2	P0381.012-A2
8	P0380.016-A2	P0381.016-A2
10	P0380.019-A2	P0381.019-A2
12	P0380.022-A2	P0381.022-A2
16	P0380.026-A2	P0381.026-A2
20	P0380.032-A2	P0381.032-A2
25	P0380.040-A2	P0381.040-A2
30	P0380.048-A2	P0381.047-A2
40	P0380.065-A2	P0381.062-A2
50	P0380.075-A2	P0381.075-A2
60	P0380.090-A2	P0381.090-A2

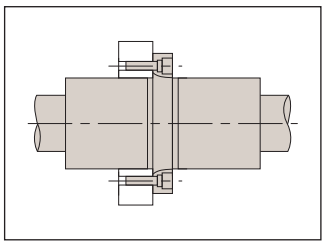
Flanged type









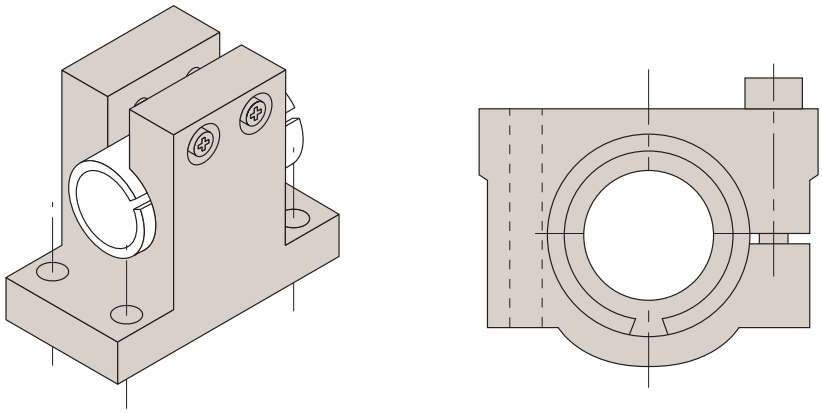


See part tolerances for perpendicularity accuracy ⊥ when outer sleeve is used as datum for installation.

Adjustable type bearings

Adjustment of clearance (for adjustable type bearings and shafts), is achieved with an adjustable housing assembly (as shown below). In this case, the slotted side of linear bushing should be located at 90° to the open side of housing for equal radial deformation.

Mounting of adjustable type bearing



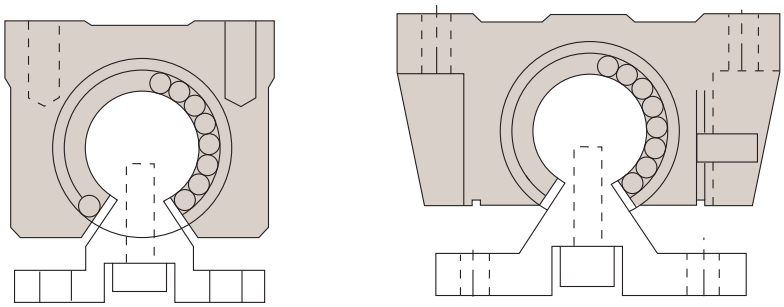
When moment load applies

External loads should be distributed uniformly on a linear bushing. When moment loads are applied, two or more linear bushings should be used on one shaft, and the distance between the two linear bushings should have adequate spacing. Calculate the equivalent load when the moment loads are applied and choose the correct linear bushing.

Open type bearings

Open type bearings can be used with a clearance adjustable housing as shown below. Light preload is applied for normal use, heavy preload should be avoided.

Mounting of open type bearing

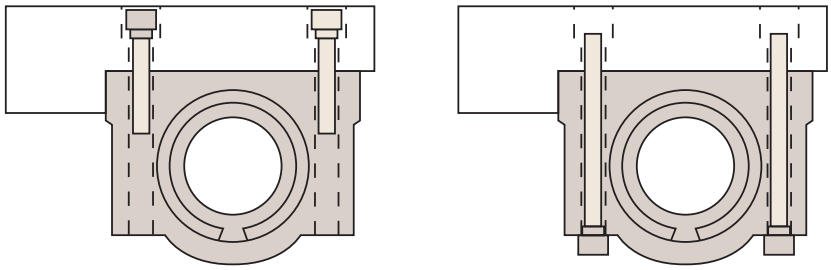


Unflanged Flanged

L1750 Bushing carriages

L1750 carriages can be mounted from both the top or the bottom, minimising assembly time.

Mounting of case unit



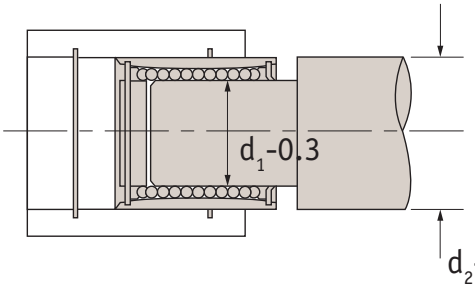
Fixing holes

Carriage fixing holes are threaded from the top a certain distance down. Fixing holes from the bottom are through holes so the screw size when mounting from below needs to be smaller than the thread size if you weremounting from the top.

Application tips

For mounting a standard type linear bushing into a housing, a jig should be used to avoid directly striking the outer sleeve or seal during installation.

Mounting into housing

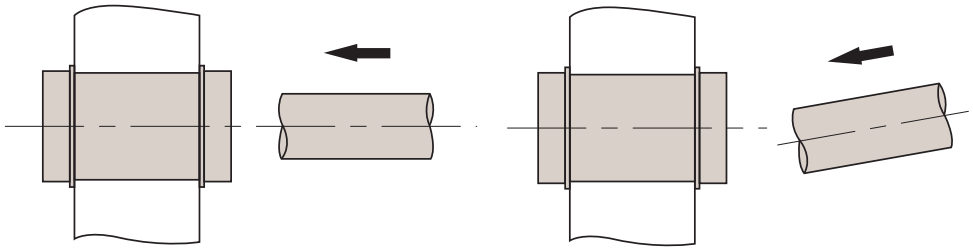


d_1: Shaft diameter
d_2: Housing bore diameter

Insertion of shaft

Care must be taken when inserting a shaft into a linear bushing. If the shaft is inserted incorrectly, the ball retaining cage may be damaged and the balls loosened from position.

Insertion of shaft into linear bushing

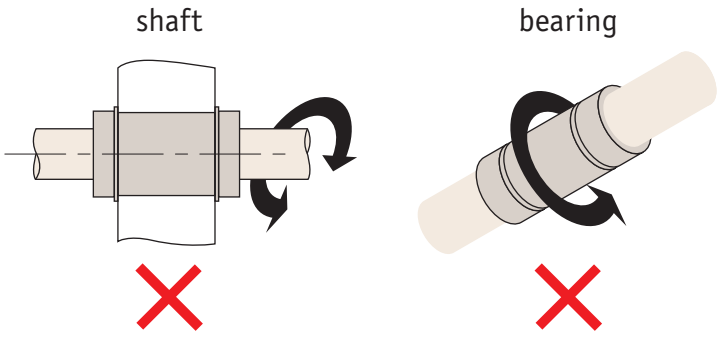


Correct

Incorrect

Rotational motion prohibited

Linear bushing are not suitable for rotational motion. If the linear bushing is exposed to rotational motion it may lead to unexpected accidents.



Static safety factor f_s

A linear motion system may receive an unpredictable external force due to vibration or impact while it is at rest or in motion, or inertia as a result of starting and stopping. It is, therefore, necessary to consider the static safety factor against operating loads. The static safety factor (f_s) indicates the ratio of a linear motion system load carrying capacity (basic static load rating, C_0) to the load exerted thereon.

$$f_s = \frac{C_0}{P} \quad \text{or} \quad f_s = \frac{M_0}{M}$$

f_s = Static safety factor
C_0 = Basic static load rating (N)
M_0 = Static permissible moment (Nmm)
P = Calculated load (N)
M = Calculated moment (Nmm)

To calculate a load exerted on the linear motion system, the mean load for calculating the service life and the maximum load for calculating the static safety factor must be obtained in advance. A system can receive unexpected excessive load when it is subject to frequent starts and stops, placed under machining loads, or when a severe moment is applied by overhanging loads. When selecting the correct type of a linear motion system for your application, be sure that the type you are considering can bear the maximum possible load when stopped and in operation. Both tables below specify the standard values for the static safety factors.

Machine used	Loading conditions	f_s Lower limit
Ordinary industrial machine	No vibration or impact	1,0 ~ 1,3
	Vibration and/or impact	2,0 ~ 3,0
Machine tool	No vibration or impact	1,0 ~ 1,5
	Vibration and/or impact	2,5 ~ 7,0

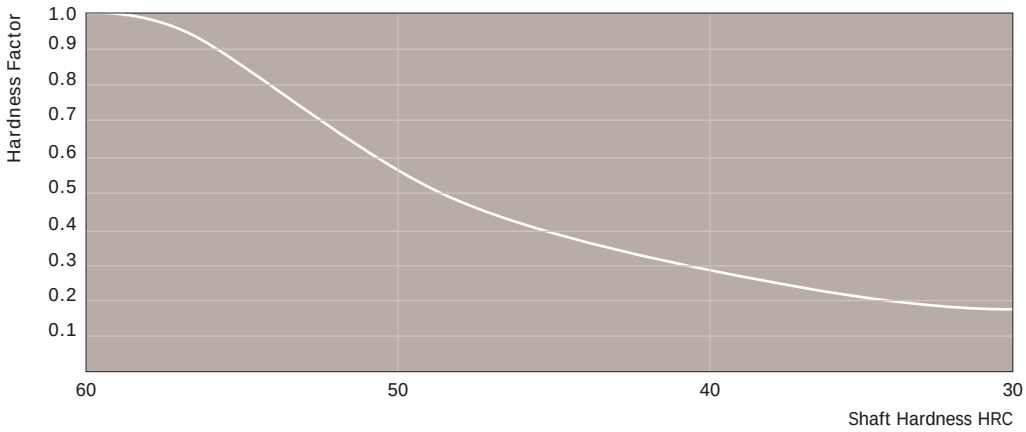
For large radial loads

$$\frac{f_h \cdot f_t \cdot f_c \cdot C_0}{P} \geqslant f_s$$

C_0 = Basic static load rating (N)
f_h = Hardness factor
f_c = Contact factor
P = Calculated load (N)
f_t = Temperature factor

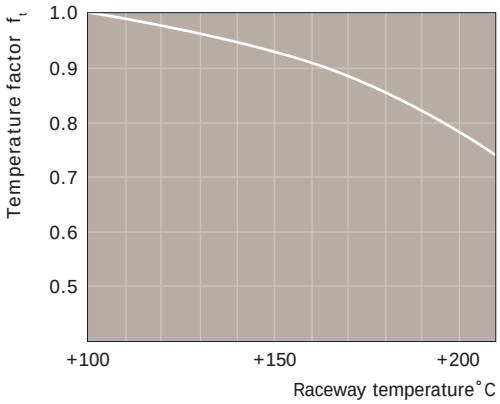
Hardness factor f_h

To achieve the optimum load rating of the linear ball bushings, the shaft hardness must be 58 to 64 HRC. At a hardness below this range, the basic dynamic and static load ratings decrease. The ratings must therefore be multiplied by the respective hardness factors (f_h).



Temperature factor f_t

For linear bushings used at ambient temperatures of over 100˚C, a temperature factor must be taken into consideration.
For higher than 80˚C applications, the seals, end plates, and retainer must be changed for high temperature specifications. (Temperature range: -20˚C - +80˚C). Please note that the selected linear bushing in this case must be a model with high temperature specifications.



Contact factor f_c

When multiple linear bushings are used moments and mounting surface precision will affect operation, making it difficult to achieve uniform load distribution. In this case, multiply the basic load rating (C or C_0) by a contact factor selected from the table.

Number of linear bushing on a shaft	Contact factor f_c
2	0.81
3	0.72
4	0.66
5	0.61
Over 6	0.60
In normal use	1.00

Operating conditions f_w

Some machines may cause vibration. It is particularly difficult to determine the magnitude of vibration that develops during high-speed operation, as well as that of impact during repeated starting and stopping and stopping in normal use. Therefore, where the effects of speed and vibration are estimated to be significant, divide the basic dynamic load rating (C) by a load factor selected from the table.

Operating conditions		Load factor f_w
Load conditions	Speed	
No impact and vibration	Under 15m/min	1.0~1.5
Slight impact and vibration	Under 60m/min	1.5~2.0
Considerable impact and vibration	Over 60m/min	2.0~4.0

Linear bushings load ratings and travel life are influenced by load direction, ball circuit orientation, and hardness of the shaft.

Basic dynamic load rating (C) and travel life

The travel life of a linear bushing is determined largely by the quality of the shaft. The basic dynamic load rating is the maximum continuous load that can be applied to the linear bushing with 90% of reliability and achieving over 50km of operation under normal conditions. When calculating the nominal life for 100km, please divide the dynamic load rating C in the data tables by 1.26.

The nominal travel life can be calculated by the following equation.

$$L = \left(\frac{C}{P}\right)^3 \times 50 \qquad L_{100} = \left(\frac{C_{100}}{P}\right)^3 \times 100$$

L = Nominal life in km (standard 50)
L_{100} = Nominal life in km (100)
C = Basic dynamic load rating (at 50km) in Newtons
C_{100} = Dynamic load rating (at 100km) in Newtons $\left(= \frac{C}{1.26}\right)$
P = Applied load (Newtons)

Other factors will affect the life as follows.

$$L = \left(\frac{f_h \times f_t \times f_c}{f_w} \times \frac{C}{P}\right)^3 \times 50 \qquad L_{100} = \left(\frac{f_h \times f_t \times f_c}{f_w} \times \frac{C_{100}}{P}\right)^3 \times 100$$

f_h = Hardness factor
f_t = Temperature factor
f_w = Load factor
f_c = Contact factor

From the above equations, when the stroke and frequency are constant, the travel life can be calculated by the following equation.

Travel life

$$L_n = \frac{L \times 10^6}{2 \times L_S \times n_o \times 60}$$

L_S = Stroke (km)
n_o = Number of strokes per minute
L_n = Travel life
L = Nominal life (km)

Calculation example

The maximum applied load and the travel life are the most important factors for choosing the correct size of linear ball bushings. Below are sample calculations for expected travel life and selection of the correctly sized linear ball bushing.

Working conditions

Applied load (P):	250N
Stroke (L_s):	0,25 m
Number of strokes per minute (n_o):	60
Shaft hardness:	HRC 60 (f_h = 1,0)
Operating speed (V):	$2 \times L_s \times n_o$
	2 x 0,25 x 60
	30,000 mm/min (f_w = 1,6)

other factors (f_c, f_t) are considered as 1,0

Calculation of expected travel life

Assuming the basic dynamic load rating is based on travel life of 50km and all other factors are 1,0, you choose the linear bushing size for the life required.

Let's try Superball bushing L1740.020 with the above working conditions.

$$L = \left(\frac{1,0 \times 1,0 \times 1,0}{1,6} \times \frac{2,580}{250} \right)^3 \times 50$$

$$= 13,417 \text{ km}$$

$$L_n = \frac{13,417 \times 10^6}{2 \times 0,25 \times 60 \times 60}$$

$$= 7,454 \text{ hours}$$

Choosing the correct linear ball bushing

Let's assume our design travel life is 15,000 hours.

$$L = 15,000 \times 2 \times 0,250 \times 10^{-6} \times 60 \times 60$$

$$= 27,000 \text{ km; and therefore}$$

$$C = \frac{250 \times 1,6}{1,0 \times 1,0 \times 1,0} \times \sqrt[3]{\frac{27,000}{50}}$$

$$= 3,257N$$

Choosing type L1740 and referring to the table, the correct Superball bushing for the above condition is L1740.025 which has 3,800N as the basic dynamic load rating.

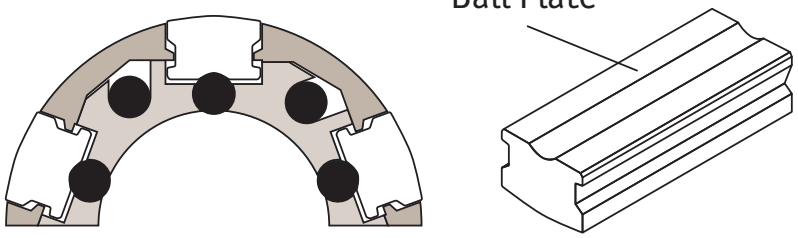
Superball linear ball bushings

- 3 x the load rating and 27 x the travel life of conventional linear bushings
- Self-aligning feature

Features

Higher load ratings

The uniquely designed ball plate (in the outside diameter of the bushing), is made of hardened steel. The precision ground groove is slightly larger than the ball size, which provides greater contact area between the balls and the ball plate, and as a result, provides 3 x higher load ratings of conventional linear bushings.



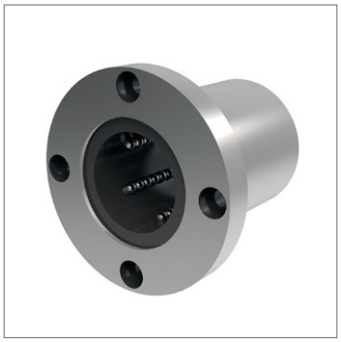
Self-alignment

The ball plate has a convex shape to provide a pivot point at the centre which allows self-alignment up to ±0.5°. This self-alignment capability eliminates any possibility of edge pressure caused by inaccurate machining, errors on mounting, or shaft deflection.

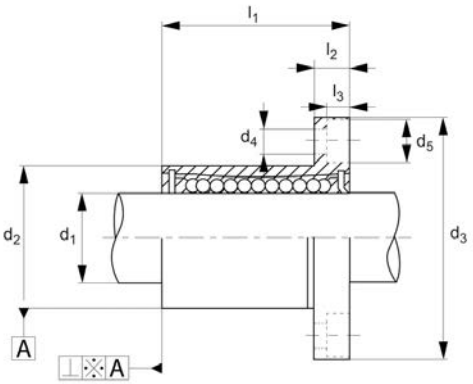
Tolerance of shaft and housing bore

Part no.	Shaft		Housing	
	Shaft Ø d_1	Tol. h6 µ	Housing bore Ø d_2	Tol. H7 µ
L1740.010	10	+0 to - 9	19	+21 to -0
L1740.012	12	+0 to - 11	22	
L1740.016	16		26	
L1740.020	20	+0 to - 13	32	+25 to -0
L1740.025	25		40	
L1740.030	30		47	
L1740.040	40	+0 to - 16	62	+30 to -0
L1740.050	50		75	

Flanged Linear Ball Bushings
circular flange



L1718

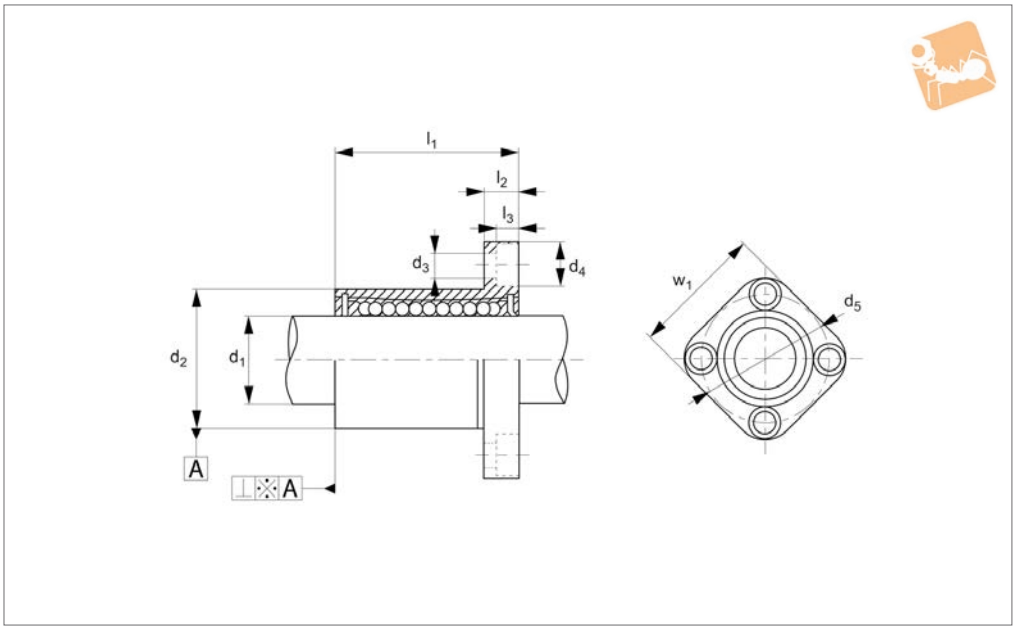


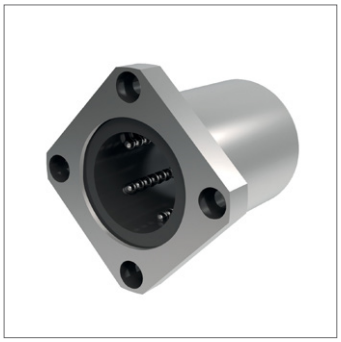
Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range : -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1720.

Order No.	d_1	d_2	l_1	d_3	d_4	d_5	d_6	l_2	l_3	No. of ball circuits	Squareness A µm	Dyn. load C N	Static load C_0 N	Weight g
L1718.006-1	6	12	19	28	3.4	6.5	20	5	3.3	4	12	200	260	26.5
L1718.008	8	16	25	32	3.4	6.5	24	5	3.3	4	12	260	400	44.0
L1718.010-1	10	19	29	40	4.5	8.0	29	6	4.4	4	12	370	540	78.0
L1718.012	12	22	32	42	4.5	8.0	32	6	4.4	4	12	410	590	86.0
L1718.016	16	26	36	46	4.5	8.0	36	6	4.4	5	12	770	1170	120.0
L1718.020	20	32	45	54	5.5	9.5	43	8	5.4	5	15	860	1370	184.0
L1718.025	25	40	58	62	5.5	9.5	51	8	5.4	6	15	980	1560	335.0
L1718.030	30	47	68	76	6.6	11.0	62	10	6.5	6	15	1560	2740	545.0
L1718.040	40	62	80	98	9.0	14.0	80	13	8.6	6	20	2150	4010	1185.0
L1718.050	50	75	100	112	9.0	14.0	94	13	8.6	6	20	3820	7930	1730.0
L1718.060	60	90	125	134	11.0	17.5	112	18	10.8	6	25	4700	9990	3180.0





L1719

Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

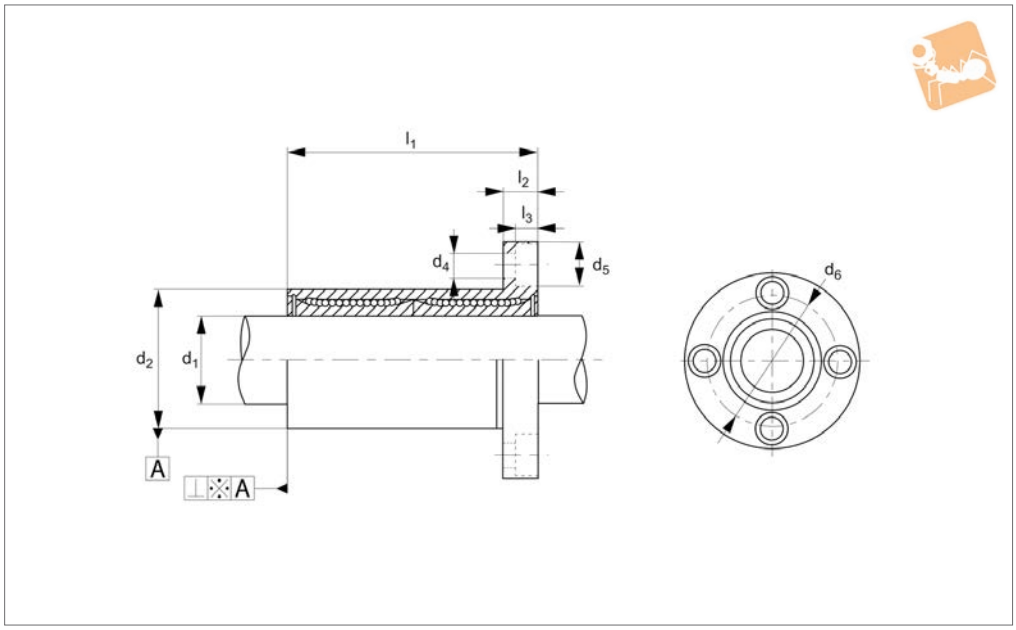
Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
For part numbers with^{-1} shaft tolerance required is g6. Temperature range : -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to +120°C) - with no end seals. Please advise at time of ordering if this is required.

Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1721.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3	d_4	d_5	l_2	l_3	No. of ball circuits	w_1	Squareness A µm	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1719.006-1	6	12	19	3,4	6,5	20	5	3,3	4	22	12	200	260	26,5
L1719.008	8	16	25	3,4	6,5	24	5	3,3	4	25	12	260	400	44,0
L1719.010-1	10	19	29	4,5	8,0	29	6	4,4	4	30	12	370	540	78,0
L1719.012	12	22	32	4,5	8,0	32	6	4,4	4	32	12	410	590	86,0
L1719.016	16	26	36	4,5	8,0	36	6	4,4	5	35	12	770	1170	120,0
L1719.020	20	32	45	5,5	9,5	43	8	5,4	5	42	15	860	1370	184,0
L1719.025	25	40	58	5,5	9,5	51	8	5,4	6	50	15	980	1560	335,0
L1719.030	30	47	68	6,6	11,0	62	10	6,5	6	60	15	1560	2740	545,0
L1719.040	40	62	80	9,0	14,0	80	13	8,6	6	75	20	2150	4010	1185,0
L1719.050	50	75	100	9,0	14,0	94	13	8,6	6	88	20	3820	7930	1730,0
L1719.060	60	90	125	11	17,5	112	18	10,8	6	106	25	4700	9990	3180,0

Long Flanged Linear Ball Bushings
circular flange

L1722

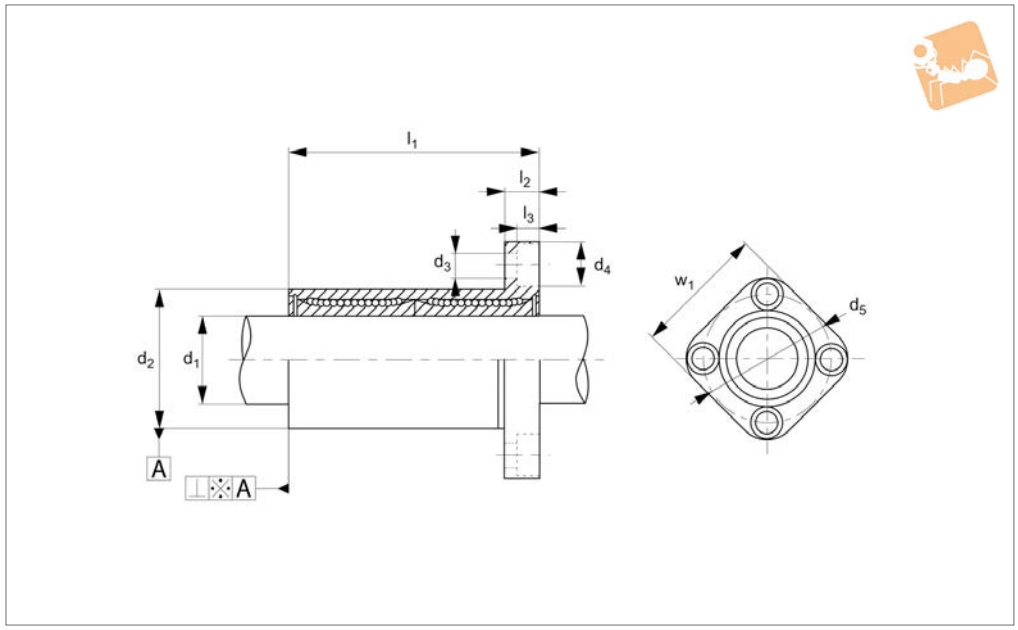


Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range : -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version part no. L1724.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3 tol. h4	d_4	d_5	d_6	l_2	l_3	No. of ball circuits	Squareness A µm	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1722.006-1	6	12	35	28	3,4	6,5	20	5	3,3	4	12	320	520	31
L1722.008	8	16	45	32	3,4	6,5	24	5	3,3	4	12	430	780	53
L1722.010-1	10	19	55	40	4,5	8,0	29	6	4,4	4	12	580	1100	105
L1722.012	12	22	57	42	4,5	8,0	32	6	4,4	4	12	650	1200	100
L1722.016	16	26	70	46	4,5	8,0	36	6	4,4	5	12	1230	2350	187
L1722.020	20	32	80	54	5,5	9,5	43	8	5,4	5	15	1400	2750	260
L1722.025	25	40	112	62	5,5	9,5	51	8	5,4	6	15	1560	3140	515
L1722.030	30	47	123	76	6,6	11,0	62	10	6,5	6	15	2490	5490	655
L1722.040	40	62	154	98	9,0	14,0	80	13	8,6	6	20	3430	8040	1560
L1722.050	50	75	192	112	9,0	14,0	94	13	8,6	6	20	6080	15900	3500
L1722.060	60	90	211	134	11,0	17,5	112	18	10,8	6	25	7650	20000	4500



L1723

Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

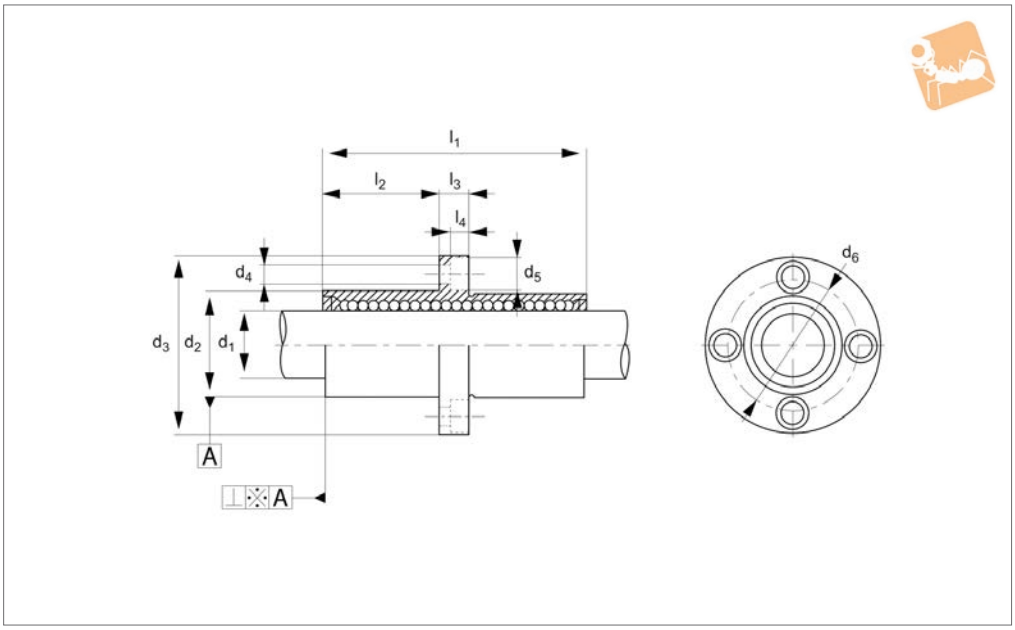
Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range : -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1725.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3	d_4	d_5	l_2	l_3	No. of ball circuits	w_1	Squareness A µm	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1723.006-1	6	12	35	3.4	6.5	20	5	3.3	4	22	15	320	520	31
L1723.008	8	16	45	3.4	6.5	24	5	3.3	4	25	15	430	780	53
L1723.010-1	10	19	55	4.5	8.0	29	6	4.4	4	30	15	580	1100	105
L1723.012	12	22	57	4.5	8.0	32	6	4.4	4	32	15	650	1200	100
L1723.016	16	26	70	4.5	8.0	36	6	4.4	5	35	15	1230	2350	187
L1723.020	20	32	80	5.5	9.5	43	8	5.4	5	42	17	1400	2750	260
L1723.025	25	40	112	5.5	9.5	51	8	5.4	6	50	17	1560	3140	515
L1723.030	30	47	123	6.6	11.0	62	10	6.5	6	60	17	2490	5490	655
L1723.040	40	62	154	9.0	14.0	80	13	8.6	6	75	20	3430	8040	1560
L1723.050	50	75	192	9.0	14.0	94	13	8.6	6	88	20	6080	15900	3500
L1723.060	60	90	211	11.0	17.5	112	18	10.8	6	106	25	7650	20000	4500

Long Centre Flange Linear Ball
circular flange

L1730

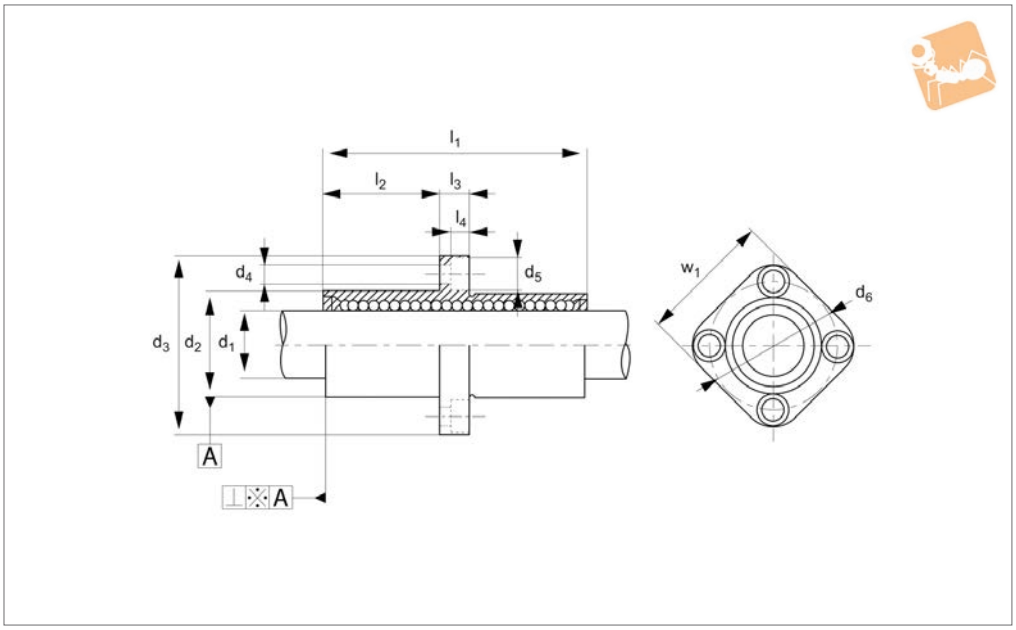


Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Temperature range : -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to +120°C) - with no end seals. Please advise at time of ordering if this is required.

Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1732.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3 tol. h4	d_4	d_5	d_6	l_2	l_3	l_4	No. of ball circuits	Squareness A µm	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1730.008	8	16	45	32	3,4	6,5	24	20,0	5	3,3	4	15	430	780	53
L1730.012	12	22	57	42	4,5	8,0	32	25,5	6	4,4	4	15	650	1200	100
L1730.016	16	26	70	46	4,5	8,0	36	32,0	6	4,4	5	15	1230	2350	187
L1730.020	20	32	80	54	5,5	9,5	43	36,0	8	5,4	5	17	1400	2750	260
L1730.025	25	40	112	62	5,5	9,5	51	52,0	8	5,4	6	17	1560	3140	515
L1730.030	30	47	123	76	6,6	11,0	62	56,5	10	6,5	6	17	2940	5490	655
L1730.040	40	62	154	98	9	14,0	80	70,5	13	8,6	6	20	3430	8040	1560
L1730.050	50	75	192	112	9	14,0	94	89,5	13	8,6	6	20	6080	15900	3500
L1730.060	60	90	211	134	11	17,5	112	96,5	18	10,8	6	30	7650	20000	4500



L1731

Material
Hardened and ground body from bearing steel.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end-seals -UU as standard.

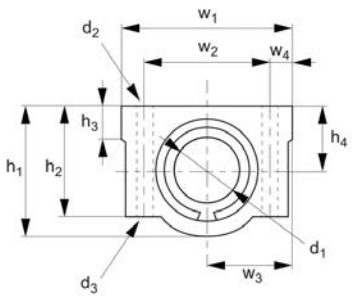
Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Temperature range: -20°C to +80°C.
For applications requiring higher temperatures we can make the bushings suitable for use up to +120°C by changing the ball retainers, end plates, and seals. Please advise at time of ordering if this is required.

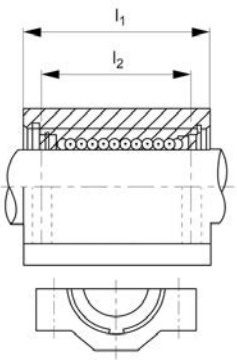
Tips
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1733.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1	d_3	d_4	d_5	d_6	l_2	l_3	l_4	No. of ball circuits	w_1	Squareness A µm	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1731.008	8	16	45	32	3,4	6,5	24	20,0	5	3,3	4	25	15	430	780	53
L1731.012	12	22	57	42	4,5	8,0	32	25,5	6	4,4	4	32	15	650	1200	100
L1731.016	16	26	70	46	4,5	8,0	36	32,0	6	4,4	5	35	15	1230	2350	187
L1731.020	20	32	80	54	5,5	9,5	43	36,0	8	5,4	5	42	17	1400	2750	260
L1731.025	25	40	112	62	5,5	9,5	51	52,0	8	5,4	6	50	17	1560	3140	515
L1731.030	30	47	123	76	6,6	11,0	62	56,5	10	6,5	6	60	17	2940	5490	655
L1731.040	40	62	154	98	9	14,0	80	70,5	13	8,6	6	75	20	3430	8040	1560
L1731.050	50	75	192	112	9	14,0	94	89,5	13	8,6	6	88	20	6080	15900	3500
L1731.060	60	90	211	134	11	17,5	112	96,5	18	10,8	6	106	30	7650	20000	4500

Linear Carriages
closed

L1750





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Material
Aluminium body, with linear bearing L1706 (steel shell) installed. Bearing has a resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

Long versions have L1712 linear bearing installed, short versions have L1715 Linear bearing installed.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772).
Temperature range: -20°C to +80°C.
Steel ball retainers can be supplied for higher temperature applications (up to 120°C - with no end seals. Please advise at time of ordering if this is required.

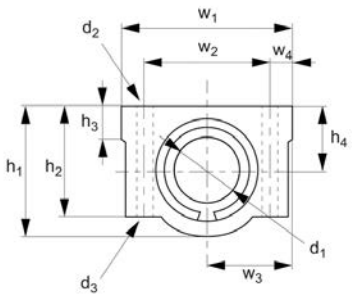
Order No.	Type	d_1 tol. h6	l_1	d_2	d_3	h_1	h_2	h_3	Weight g
L1750.008	Standard	8	30.0	M 4x8	3.4	22.0	18.0	6	60
L1750.012	Standard	12	39.0	M 5x10	4.3	30.0	24.5	8	118
L1750.016	Standard	16	44.0	M 5x12	4.3	38.5	32.5	9	180
L1750.020	Standard	20	53.0	M 6x12	5.2	41.0	35.0	11	245
L1750.025	Standard	25	67.0	M 8x18	6.8	51.5	41.0	12	550
L1750.030	Standard	30	76.0	M 8x18	6.8	59.5	49.0	15	760
L1750.040	Standard	40	90.0	M10x25	8.6	78.0	62.0	20	1700
L1750.050	Standard	50	110.0	M10x25	8.6	102.0	80.0	24	2950
L1750.008-L	Long	8	58.0	M 4X8	3.4	22.0	18.0	6	98
L1750.012-L	Long	12	77.0	M 5x10	4.3	30.0	24.5	8	232
L1750.016-L	Long	16	89.0	M 5x12	4.3	38.5	32.5	9	360
L1750.020-L	Long	20	106.0	M 6x12	5.2	41.0	35.0	11	490
L1750.025-L	Long	25	136.0	M 8x18	6.8	51.5	41.0	12	1100
L1750.030-L	Long	30	154.0	M 8x18	6.8	59.5	49.0	15	1525
L1750.040-L	Long	40	180.0	M10x25	8.6	78.0	62.0	20	3400
L1750.050-L	Long	50	230.0	M10x25	8.6	102.0	80.0	24	5920
L1750.008-S	Short	8	14.4	M 4x8	3.4	22.0	18.0	6	40
L1750.012-S	Short	12	20.3	M 5x10	4.3	30.0	24.5	8	82
L1750.016-S	Short	16	22.3	M 5x12	4.3	38.5	32.5	9	122
L1750.020-S	Short	20	28.3	M 6x12	5.2	41.0	35.0	11	176
L1750.025-S	Short	25	40.4	M 8x18	6.8	51.5	41.0	12	400
L1750.030-S	Short	30	48.4	M 8x18	6.8	59.5	49.0	15	570
L1750.040-S	Short	40	56.4	M10x25	8.6	78.0	62.0	20	1320
L1750.050-S	Short	50	72.3	M10x25	8.6	102.0	80.0	24	1900

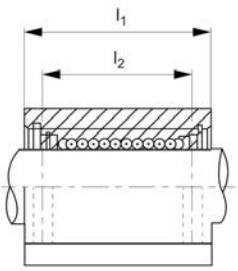
Order No.	h_4 ±0.02	l_2 ±0.2	w_1	w_2 ±0.2	w_3 ±0.02	w_4	Dyn. load C N max.	Static load C_0 N max.	Linear ball bushing used
L1750.008	11	18	34	24	17	5.0	260	400	L1706.008
L1750.012	15	26	44	33	22	5.5	410	590	L1706.012
L1750.016	19	34	50	36	25	7.0	770	1170	L1706.016
L1750.020	21	40	54	40	27	7.0	860	1370	L1706.020

Order No.	h_4 ±0.02	l_2 ±0.2	w_1	w_2 ±0.2	w_3 ±0.02	w_4	Dyn. load C N max.	Static load C_0 N max.	Linear ball bushing used
L1750.025	26	50	76	54	38	11.0	980	1560	L1706.025
L1750.030	30	58	78	58	39	10.0	1560	2740	L1706.030
L1750.040	40	60	102	80	51	11.0	2150	4010	L1706.040
L1750.050	52	80	122	100	61	11.0	3820	7930	L1706.050
L1750.008-L	11	42	34	24	17	5.0	410	800	2 x L1706.008
L1750.012-L	15	64	44	33	22	5.5	650	1180	2 x L1706.012
L1750.016-L	19	79	50	36	25	7.0	1230	2340	2 x L1706.016
L1750.020-L	21	90	54	40	27	7.0	1370	2740	2 x L1706.020
L1750.025-L	26	119	76	54	38	11.0	1560	3120	2 x L1706.025
L1750.030-L	30	132	78	58	39	10.0	2490	5480	2 x L1706.030
L1750.040-L	40	150	102	80	51	11.0	3440	8020	2 x L1706.040
L1750.050-L	52	200	122	100	61	11.0	6110	15860	2 x L1706.050
L1750.008-S	11	-	34	24	17	5.0	260	400	L1706.008
L1750.012-S	15	-	44	33	22	5.5	410	590	L1706.012
L1750.016-S	19	-	50	36	25	7.0	770	1170	L1706.016
L1750.020-S	21	-	54	40	27	7.0	860	1370	L1706.020
L1750.025-S	26	-	76	54	38	11.0	980	1560	L1706.025
L1750.030-S	30	-	78	58	39	10.0	1560	2740	L1706.030
L1750.040-S	40	-	102	80	51	11.0	2150	4010	L1706.040
L1750.050-S	52	-	122	100	61	11.0	3820	7930	L1706.050

Stainless Linear Carriages
closed

L1751





Material
Aluminium carriage housing with L1709, stainless steel (440C) linear bushing installed.
Bushing has a resin -RS (POM) or stainless steel -SS (316) retainer and nitrile rubber (NBR) end seals -UU.
Stainless steel balls 440C.
Long versions have L1713 linear bearing installed.

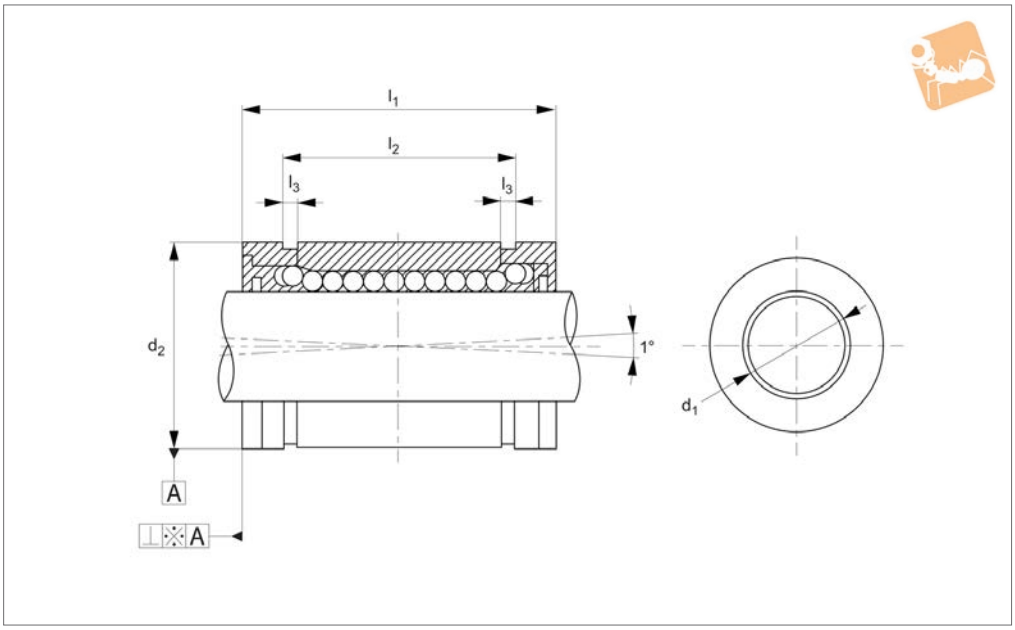
Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772).
Temperature range: -20°C to +120°C.

Order No.	Type	Ball cage	d_1 tol. h6	l_1	d_2	d_3	h_1	h_2	Weight g
L1751.008-RS	Normal	Resin	8	30.0	M4x 8	3.4	22.0	18.0	60
L1751.012-RS	Normal	Resin	12	39.0	M5x10	4.3	30.0	24.5	118
L1751.016-RS	Normal	Resin	16	44.0	M5x12	4.3	38.5	32.5	180
L1751.020-RS	Normal	Resin	20	53.0	M6x12	5.2	41.0	35.0	245
L1751.025-RS	Normal	Resin	25	67.0	M8x18	6.8	51.5	41.0	550
L1751.008-SS	Normal	Stainless	8	30.0	M4x 8	3.4	22.0	18.0	60
L1751.012-SS	Normal	Stainless	12	39.0	M5x10	4.3	30.0	24.5	118
L1751.016-SS	Normal	Stainless	16	44.0	M5x12	4.3	38.5	32.5	180
L1751.020-SS	Normal	Stainless	20	53.0	M6x12	5.2	41.0	35.0	245
L1751.025-SS	Normal	Stainless	25	67.0	M8x18	6.8	51.5	41.0	550
L1751.008-L-RS	Long	Resin	8	58.0	M4x 8	3.4	22.0	18.0	98
L1751.012-L-RS	Long	Resin	12	77.0	M5x10	4.3	30.0	24.5	232
L1751.016-L-RS	Long	Resin	16	89.0	M5x12	4.3	38.5	32.5	360
L1751.020-L-RS	Long	Resin	20	106.0	M6x12	5.2	41.0	35.0	490
L1751.025-L-RS	Long	Resin	25	136.0	M8x18	6.8	51.5	41.0	1100
L1751.008-L-SS	Long	Stainless	8	58.0	M4x 8	3.4	22.0	18.0	98
L1751.012-L-SS	Long	Stainless	12	77.0	M5x10	4.3	30.0	24.5	232
L1751.016-L-SS	Long	Stainless	16	89.0	M5x12	4.3	38.5	32.5	360
L1751.020-L-SS	Long	Stainless	20	106.0	M6x12	5.2	41.0	35.0	490
L1751.025-L-SS	Long	Stainless	25	136.0	M8x18	6.8	51.5	41.0	1100
L1751.008-S-RS	Short	Resin	8	14.4	M4x 8	3.4	22.0	18.0	40
L1751.012-S-RS	Short	Resin	12	20.3	M5x10	4.3	30.0	24.5	82
L1751.016-S-RS	Short	Resin	16	22.3	M5x12	4.3	38.5	32.5	122
L1751.020-S-RS	Short	Resin	20	28.3	M6x12	5.2	41.0	35.0	176
L1751.025-S-RS	Short	Resin	25	40.4	M8x18	6.8	51.5	41.0	400
L1751.008-S-SS	Short	Stainless	8	14.4	M4x 8	3.4	22.0	18.0	40
L1751.012-S-SS	Short	Stainless	12	20.3	M5x10	4.3	30.0	24.5	82
L1751.016-S-SS	Short	Stainless	16	22.3	M5x12	4.3	38.5	32.5	122
L1751.020-S-SS	Short	Stainless	20	28.3	M6x12	5.2	41.0	35.0	176
L1751.025-S-SS	Short	Stainless	25	40.3	M8x18	6.8	51.5	41.0	400

Order No.	h_3	h_4 ±0.02	l_2 ±0.2	w_1	w_2 ±0.2	w_3 ±0.02	w_4	Dyn. load C N max.	Static load C_0 N max.	Linear ball bushing used
L1751.008-RS	6	11	18	34	24	17	5.0	260	400	L1709.008
L1751.012-RS	8	15	26	44	33	22	5.5	410	590	L1709.012
L1751.016-RS	9	19	34	50	36	25	7.0	770	1170	L1709.016
L1751.020-RS	11	21	40	54	40	27	7.0	860	1370	L1709.020
L1751.025-RS	12	26	50	76	54	38	11.0	980	1560	L1709.025
L1751.008-SS	6	11	18	34	24	17	5.0	260	400	L1709.508
L1751.012-SS	8	15	26	44	33	22	5.5	410	590	L1709.512
L1751.016-SS	9	19	34	50	36	25	7.0	770	1170	L1709.516
L1751.020-SS	11	21	40	54	40	27	7.0	860	1370	L1709.520
L1751.025-SS	12	26	50	76	54	38	11.0	980	1560	L1709.525
L1751.008-L-RS	6	11	42	34	24	17	5.0	410	800	2 x L1709.008
L1751.012-L-RS	8	15	64	44	33	22	5.5	650	1180	2 x L1709.012
L1751.016-L-RS	9	19	79	50	36	25	7.0	1230	2340	2 x L1709.016
L1751.020-L-RS	11	21	90	54	40	27	7.0	1370	2740	2 x L1709.020
L1751.025-L-RS	12	26	119	76	54	38	11.0	1560	3120	2 x L1709.025
L1751.008-L-SS	6	11	42	34	24	17	5.0	410	800	2 x L1709.508
L1751.012-L-SS	8	15	64	44	33	22	5.5	650	1180	2 x L1709.512
L1751.016-L-SS	9	19	79	50	36	25	7.0	1230	2340	2 x L1709.516
L1751.020-L-SS	11	21	90	54	40	27	7.0	1370	2740	2 x L1709.520
L1751.025-L-SS	12	26	119	76	54	38	11.0	1560	3120	2 x L1709.525
L1751.008-S-RS	6	11	-	34	24	17	5.0	260	400	L1709.008
L1751.012-S-RS	8	15	-	44	33	22	5.5	410	590	L1709.012
L1751.016-S-RS	9	19	-	50	36	25	7.0	770	1170	L1709.016
L1751.020-S-RS	11	21	-	54	40	27	7.0	860	1370	L1709.020
L1751.025-S-RS	12	26	-	76	54	38	11.0	980	1560	L1709.025
L1751.008-S-SS	6	11	-	34	24	17	5.0	260	400	L1709.508
L1751.012-S-SS	8	15	-	44	33	22	5.5	410	590	L1709.512
L1751.016-S-SS	9	19	-	50	36	25	7.0	770	1170	L1709.516
L1751.020-S-SS	11	21	-	54	40	27	7.0	860	1370	L1709.520
L1751.025-S-SS	12	26	-	76	54	38	11.0	980	1560	L1709.525

Superball Closed Linear Ball Bushings

L1740



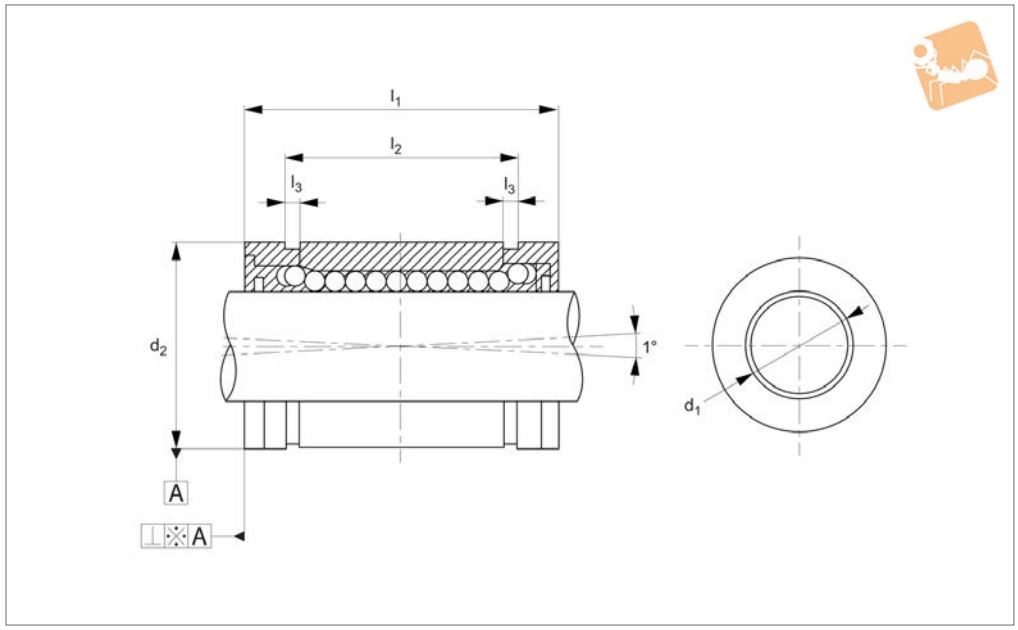
Material

Hardened and ground steel ball plate from bearing steel.
Floating plate feature offers self-alignment and clearance adjustment.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

Technical Notes

The superball series has 3 x the load rating and 27 x the travel life of conventional linear bushings.
They offer self-alignment - prolonging travel life by reducing the friction between shaft and balls.
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: -20°C to +80°C.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 ±0.2	l_2 ±0.2	l_3 min.	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1740.010	10	19	29	21.7	1.35	5	550	750	17
L1740.012	12	22	32	22.7	1.35	5	1100	1230	23
L1740.016	16	26	36	24.7	1.35	5	1250	1550	28
L1740.020	20	32	45	31.3	1.65	6	1670	2580	61
L1740.025	25	40	58	43.8	1.90	6	2750	3800	122
L1740.030	30	47	68	51.8	1.90	6	2800	4710	185
L1740.040	40	62	80	60.4	2.20	6	5720	6500	360
L1740.050	50	75	100	77.4	2.70	6	7940	11460	580



L1741

Material

Hardened and ground body from bearing steel - nickel plated.
Stainless steel balls 440C.
Floating plate feature offers self-alignment and clearance adjustment.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

Technical Notes

The superball series has 3 x the load rating and 27 x the travel life of conventional linear bushings.
They offer self-alignment - prolonging travel life by reducing the friction between shaft and balls.
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: -20°C to +80°C.

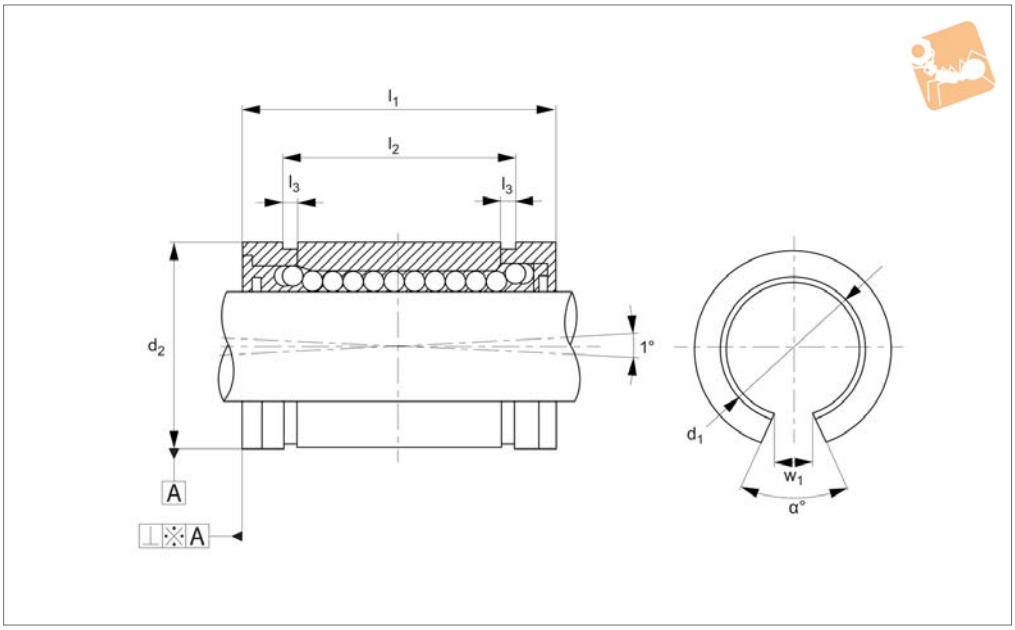
Tips

The nickel plated bearing plates and the stainless steel bearing balls provide a good degree of corrosion protection.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 ±0.2	l_2 ±0.2	l_3 min.	No. of ball circuits	Dyn. load C N max.	Static load C_0 N max.	Weight g
L1741.010	10	19	29	21.7	1.35	5	550	750	17
L1741.012	12	22	32	22.7	1.35	5	1100	1230	23
L1741.016	16	26	36	24.7	1.35	5	1250	1550	28
L1741.020	20	32	45	31.3	1.65	6	1670	2580	61
L1741.025	25	40	58	43.8	1.90	6	2750	3800	122
L1741.030	30	47	68	51.8	1.90	6	2800	4710	185
L1741.040	40	62	80	60.4	2.20	6	5720	6500	360
L1741.050	50	75	100	77.4	2.70	6	7940	11460	580

Superball Open Linear Ball Bushings

L1742

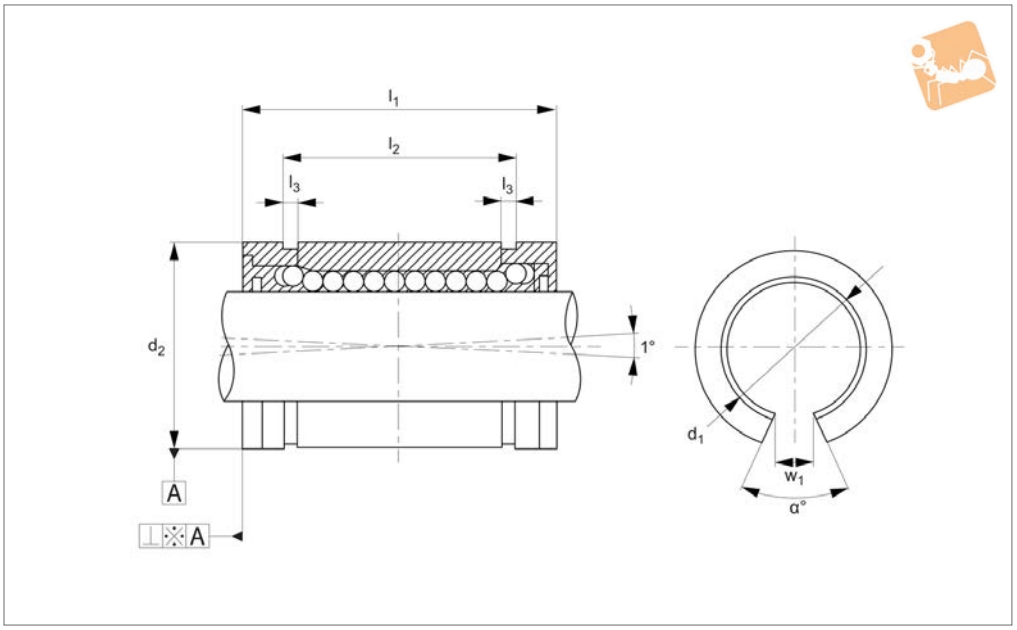


Material
Hardened and ground steel ball plate from bearing steel.
Floating plate feature offers self-alignment and clearance adjustment.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

Technical Notes
The superball series has 3 x the load rating and 27 x the travel life of conventional linear bushings.
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: -20°C to +80°C.

Tips
d_2 is the dimension before the bush has been slotted.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 ±0.2	l_2 ±0.2	l_3 min.	Dyn. load C N max.	w_1	α °	Static load C_0 N max.	Weight g
L1742.012	12	22	32	22.7	1.35	1260	6.5	66	1290	18
L1742.016	16	26	36	24.7	1.35	1320	9.0	68	1640	22
L1742.020	20	32	45	31.3	1.65	1720	9.0	55	2630	51
L1742.025	25	40	58	43.8	1.90	2850	11.5	57	3910	102
L1742.030	30	47	68	81.8	1.90	2900	14.0	57	4850	155
L1742.040	40	62	80	60.4	2.20	5900	19.5	56	6700	300
L1742.050	50	75	100	77.4	2.70	8100	22.5	54	11700	480



L1743

Material

Hardened and ground body from bearing steel - nickel plated.
Stainless steel balls 440C.
Floating plate feature offers self-alignment and clearance adjustment.
Single body resin retainer (POM).
Supplied with nitrile rubber (NBR) end seals -UU as standard.

Technical Notes

The superball series has 3 x the load rating and 27 x the travel life of conventional linear bushings.
They offer self-alignment - prolonging travel life by reducing the friction between shaft and balls.
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: -20°C to +80°C.

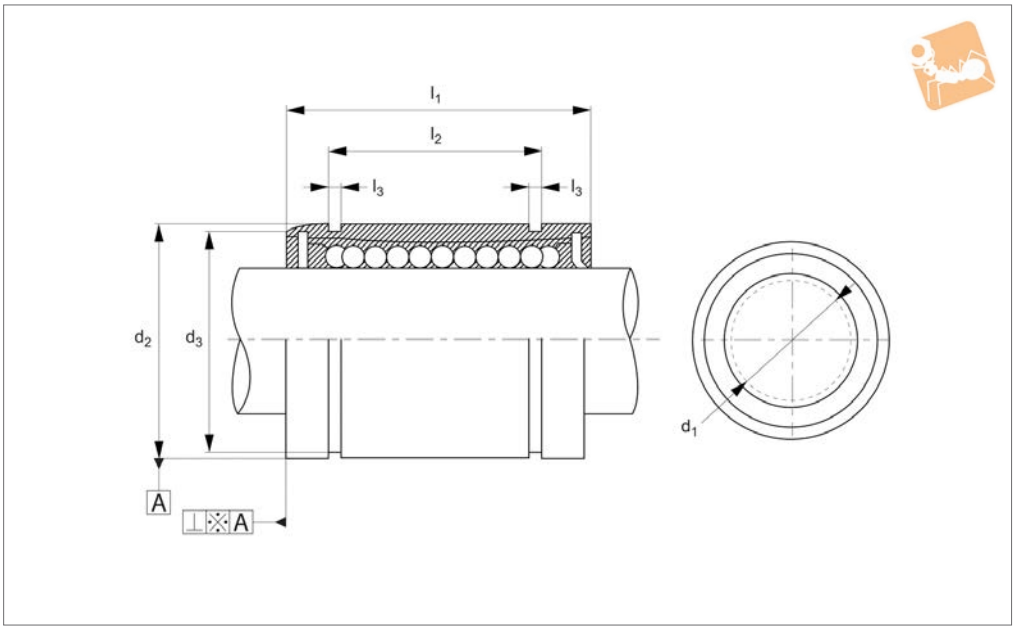
Tips

The nickel plated bearing plates and the stainless steel bearing balls provide a good degree of corrosion protection. d_2 is the dimension before the bush has been slotted.

Order No.	d_1 tol. h6	d_2 tol. h6	l_1 ±0.2	l_2 ±0.2	l_3 min.	Dyn. load C N max.	w_1	α °	Static load C_0 N max.	Weight g
L1743.012	12	22	32	22.7	1.35	1260	6.5	66	1290	18
L1743.016	16	26	36	24.7	1.35	1320	9.0	68	1640	22
L1743.020	20	32	45	31.3	1.65	1720	9.0	55	2630	51
L1743.025	25	40	58	43.8	1.90	2850	11.5	57	3910	102
L1743.030	30	47	68	81.8	1.90	2900	14.0	57	4850	155
L1743.040	40	62	80	60.4	2.20	5900	19.5	56	6700	300
L1743.050	50	75	100	77.4	2.70	8100	22.5	54	11700	480

Ball Bushings
closed

L1709

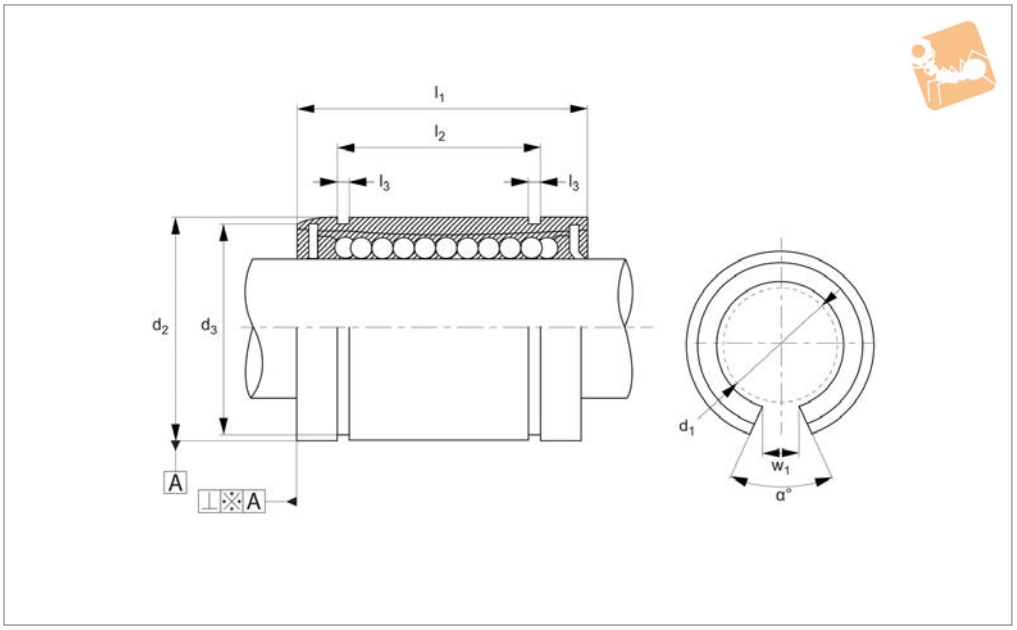


Material
Stainless steel body (440C) with a resin (POM) retainer.
Stainless steel balls (440C).
Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6.

Perpendicularity A is better than 15µ.
For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage -20°C to +80°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Weight g
L1709.005-RS	Resin	5	12	22	14.5	1.10	11.5	200	4	260	12
L1709.006-RS-1	Resin	6	12	19	13.5	1.10	11.5	200	4	260	8
L1709.008-RS	Resin	8	16	25	16.5	1.10	15.2	260	4	400	20
L1709.010-RS-1	Resin	10	19	29	22.0	1.30	18.0	370	4	540	30
L1709.012-RS	Resin	12	22	32	22.9	1.30	21.0	410	4	590	41
L1709.016-RS	Resin	16	26	36	24.9	1.30	24.9	770	5	1170	57
L1709.020-RS	Resin	20	32	45	31.5	1.60	30.3	860	5	1370	91
L1709.025-RS	Resin	25	40	58	44.1	1.85	37.5	980	6	1560	215
L1709.030-RS	Resin	30	47	68	52.1	1.85	44.5	1584	6	2740	360
L1709.040-RS	Resin	40	62	80	60.6	2.15	59	2357	6	4020	770
L1709.050-RS	Resin	50	75	100	77.6	2.65	72	4702	6	7940	1250
L1709.060-RS	Resin	60	90	125	101.7	3.15	86.5	6085	6	9800	2220



L1710

Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

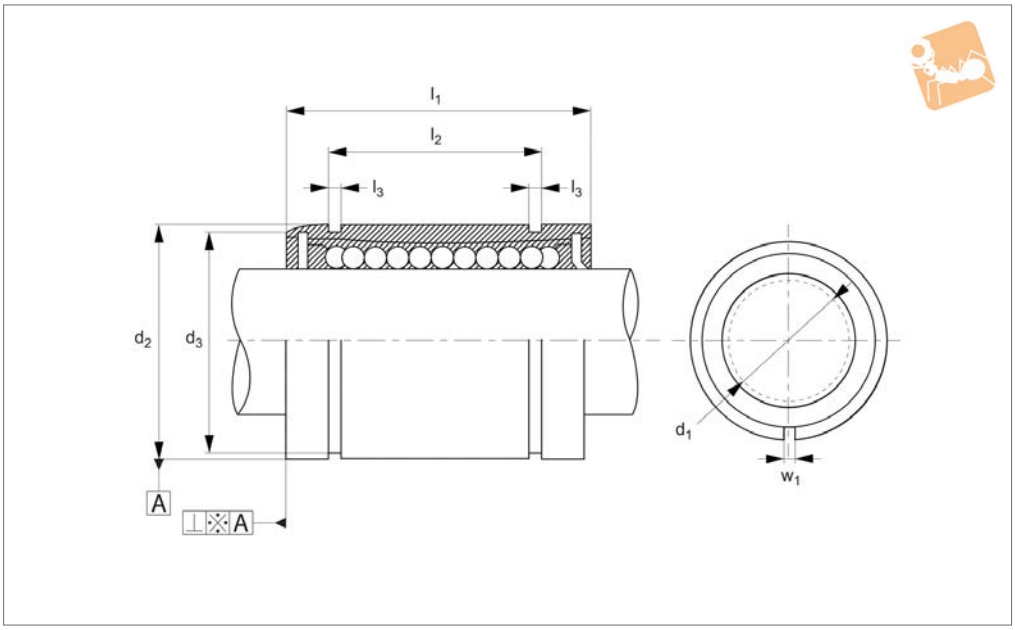
Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3	w_1	Dyn. load C N max.	α °	No. of ball circuits	Static load C_0 N max.	Weight g
L1710.012-RS	Resin	12	22	32	22.9	1.30	21.0	7.5	510	78	3	784	35
L1710.016-RS	Resin	16	26	36	24.9	1.30	24.9	10.0	578	78	3	892	48
L1710.020-RS	Resin	20	32	45	31.5	1.60	30.3	10.0	862	60	4	1370	84
L1710.025-RS	Resin	25	40	58	44.1	1.85	37.5	12.5	980	60	5	1570	195
L1710.012-SS	St. Steel	12	22	32	22.9	1.30	21.0	7.5	510	78	3	784	35
L1710.016-SS	St. Steel	16	26	36	24.9	1.30	24.9	10.0	578	78	3	892	48
L1710.020-SS	St. Steel	20	32	45	31.5	1.60	30.3	10.0	862	60	4	1370	84
L1710.025-SS	St. Steel	25	40	58	44.1	1.85	37.5	12.5	980	60	5	1570	195

Stainless Ball Bushings
adjustable

L1711

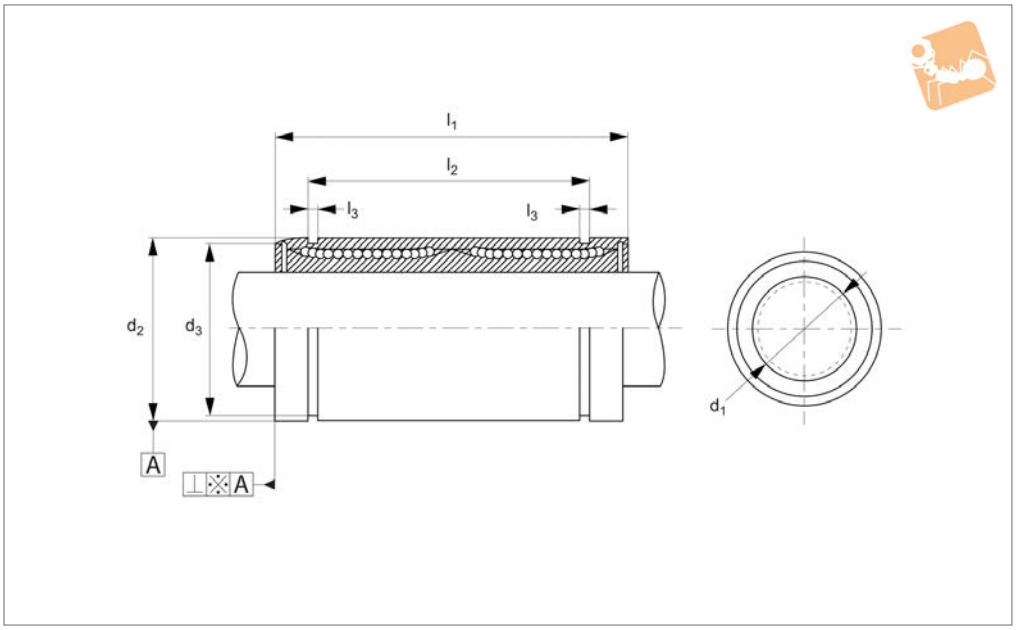


Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).
Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Tips
d_2 is the dimension before the bush has been slotted.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3	w_1	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Weight g
L1711.005-RS	Resin	5	12	22	14.5	1.10	11.5	1.0	200	4	260	12
L1711.006-RS-1	Resin	6	12	19	13.5	1.10	11.5	1.0	200	4	260	8
L1711.008-RS	Resin	8	16	25	16.5	1.10	15.2	1.0	260	4	400	20
L1711.010-RS-1	Resin	10	19	29	22.0	1.30	18.0	1.0	370	4	540	30
L1711.012-RS	Resin	12	22	32	22.9	1.30	21.0	1.5	410	4	590	41
L1711.016-RS	Resin	16	26	36	24.9	1.30	24.9	1.5	770	5	1170	57
L1711.020-RS	Resin	20	32	45	31.5	1.60	30.3	2.0	860	5	1370	91
L1711.025-RS	Resin	25	40	58	44.1	1.85	37.5	2.0	980	6	1560	215
L1711.006-SS-1	Stainless	6	12	19	13.5	1.10	11.5	1.0	200	4	260	8
L1711.008-SS	Stainless	8	16	25	16.5	1.10	15.2	1.0	260	4	400	20
L1711.010-SS-1	Stainless	10	19	29	22.0	1.30	18.0	1.0	370	4	540	30
L1711.012-SS	Stainless	12	22	32	22.9	1.30	21.0	1.5	410	4	590	41
L1711.016-SS	Stainless	16	26	36	24.9	1.30	24.9	1.5	770	5	1170	57
L1711.020-SS	Stainless	20	32	45	31.5	1.60	30.3	2.0	860	5	1370	91
L1711.025-SS	Stainless	25	40	58	44.1	1.85	37.5	2.0	980	6	1560	215



L1713

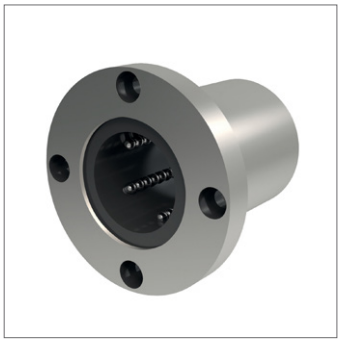
Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

Supplied with nitrile rubber (NBR) end seals.

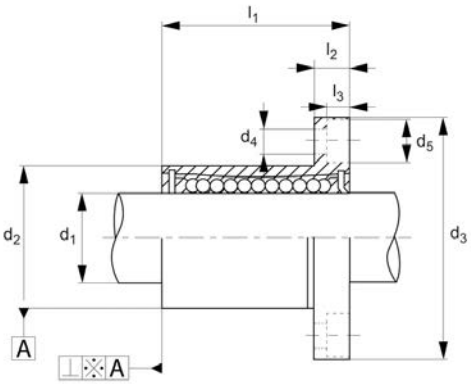
Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6.
Perpendicularity A is better than 15µ.
Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Weight g
L1713.008-RS	Resin	8	16	45	33.0	1.10	15.2	430	4	780	31
L1713.012-RS	Resin	12	22	57	45.8	1.30	21.0	650	4	1200	80
L1713.016-RS	Resin	16	26	70	49.8	1.30	24.9	1230	5	2350	145
L1713.020-RS	Resin	20	32	80	61.0	1.60	30.3	1400	5	2750	180
L1713.025-RS	Resin	25	40	112	82.0	1.85	38.0	1560	6	3140	440
L1713.008-SS	Stainless	8	16	45	33.0	1.10	15.2	430	4	780	31
L1713.012-SS	Stainless	12	22	57	45.8	1.30	21.0	650	4	1200	80
L1713.016-SS	Stainless	16	26	70	49.8	1.30	24.9	1230	5	2350	145
L1713.020-SS	Stainless	20	32	80	61.0	1.60	30.3	1400	5	2750	180
L1713.025-SS	Stainless	25	40	112	82.0	1.85	38.0	1560	6	3140	440

Stainless Ball Bushings
circular flange



L1720

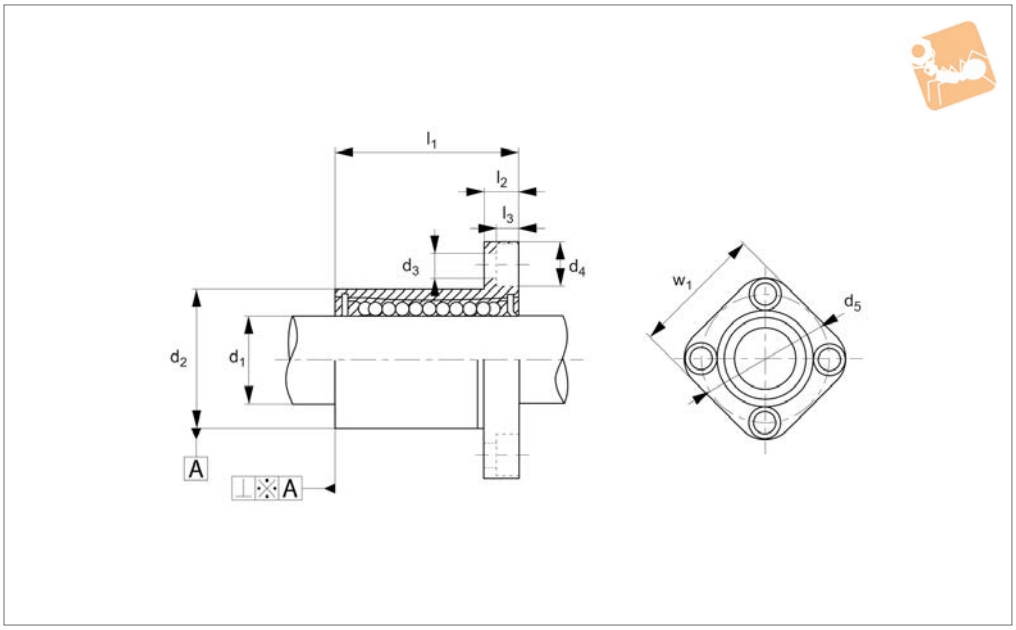


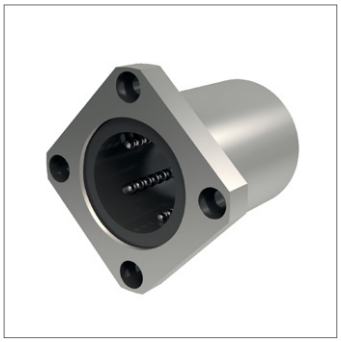
Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage - 20°C to +80°C. For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3 tol. h4	d_4	d_5	d_6	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Squareness A µm	Weight g
L1720.006-RS-1	Resin	6	12	19	5	3,3	28	3,4	6,5	20	200	4	260	12	26,5
L1720.008-RS	Resin	8	16	25	5	3,3	32	3,4	6,5	24	260	4	400	12	44,0
L1720.010-RS-1	Resin	10	19	29	6	4,4	40	4,5	8,0	29	370	4	540	12	78,0
L1720.012-RS	Resin	12	22	32	6	4,4	42	4,5	8,0	32	410	4	590	12	86,0
L1720.016-RS	Resin	16	26	36	6	4,4	46	4,5	8,0	36	770	5	1170	12	120,0
L1720.020-RS	Resin	20	32	45	8	5,4	54	5,5	9,5	43	860	5	1370	15	184,0
L1720.025-RS	Resin	25	40	58	8	5,4	62	5,5	9,5	51	980	6	1560	15	335,0
L1720.006-SS-1	Stainless	6	12	19	5	3,3	28	3,4	6,5	20	200	4	260	12	26,5
L1720.008-SS	Stainless	8	16	25	5	3,3	32	3,4	6,5	24	260	4	400	12	44,0
L1720.010-SS-1	Stainless	10	19	29	6	4,4	40	4,5	8,0	29	370	4	540	12	78,0
L1720.012-SS	Stainless	12	22	32	6	4,4	42	4,5	8,0	32	410	4	590	12	86,0
L1720.016-SS	Stainless	16	26	36	6	4,4	46	4,5	8,0	36	770	5	1170	12	120,0
L1720.020-SS	Stainless	20	32	45	8	5,4	54	5,5	9,5	43	860	5	1370	15	184,0
L1720.025-SS	Stainless	25	40	58	8	5,4	62	5,5	9,5	51	980	6	1560	15	335,0





L1721

Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

Supplied with nitrile rubber (NBR) end seals.

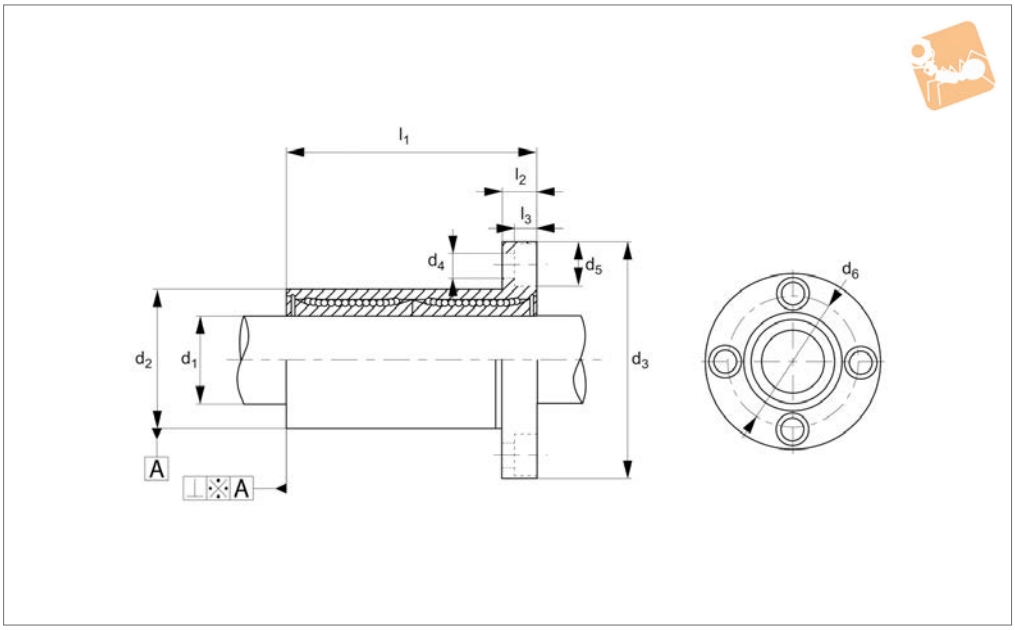
Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3	d_4	d_5	w_1	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Squareness A µm	Weight g
L1721.006-RS-1	Resin	6	12	19	5	3,3	3,4	6,5	20	22	200	4	260	12	26,5
L1721.008-RS	Resin	8	16	25	5	3,3	3,4	6,5	24	25	260	4	400	12	44,0
L1721.010-RS-1	Resin	10	19	29	6	4,4	4,5	8,0	29	30	370	4	540	12	78,0
L1721.012-RS	Resin	12	22	32	6	4,4	4,5	8,0	32	32	410	4	590	12	86,0
L1721.016-RS	Resin	16	26	36	6	4,4	4,5	8,0	36	35	770	5	1170	12	120,0
L1721.020-RS	Resin	20	32	45	8	5,4	5,5	9,5	43	42	860	5	1370	15	184,0
L1721.025-RS	Resin	25	40	58	8	5,4	5,5	9,5	51	50	980	6	1560	15	335,0
L1721.006-SS-1	Stainless	6	12	19	5	3,3	3,4	6,5	20	22	200	4	260	12	26,5
L1721.008-SS	Stainless	8	16	25	5	3,3	3,4	6,5	24	25	260	4	400	12	44,0
L1721.010-SS-1	Stainless	10	19	29	6	4,4	4,5	8,0	29	30	370	4	540	12	78,0
L1721.012-SS	Stainless	12	22	32	6	4,4	4,5	8,0	32	32	410	4	590	12	86,0
L1721.016-SS	Stainless	16	26	36	6	4,4	4,5	8,0	36	35	770	5	1170	12	120,0
L1721.020-SS	Stainless	20	32	45	8	5,4	5,5	9,5	43	42	860	5	1370	15	184,0
L1721.025-SS	Stainless	25	40	58	8	5,4	5,5	9,5	51	50	980	6	1560	15	335,0

Stainless Ball Bushings

long version, circular flange

L1724



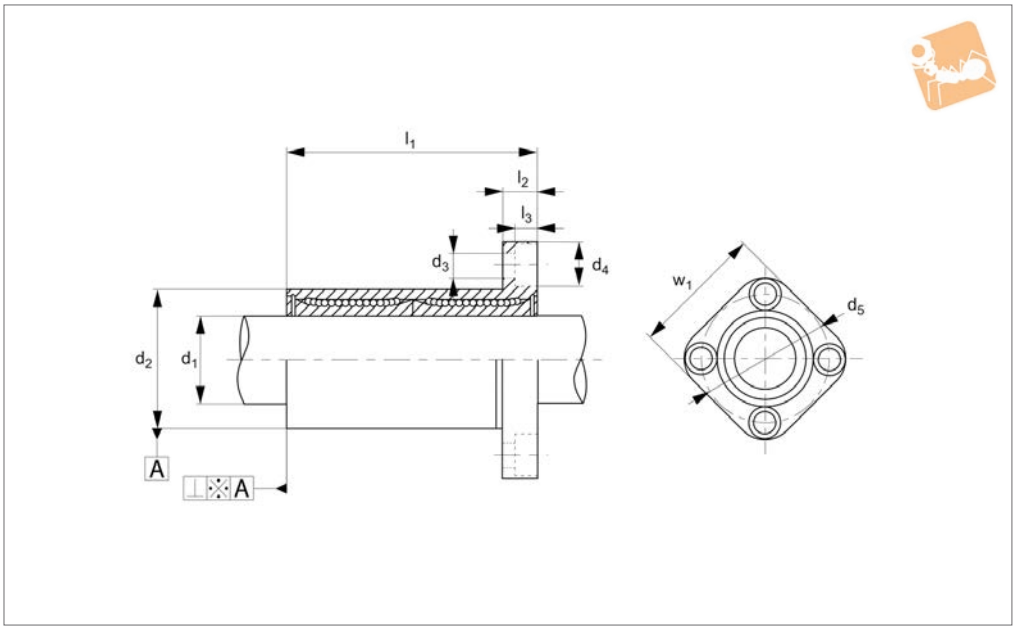
Material

Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).
Supplied with nitrile rubber (NBR) end seals.

Technical Notes

For use with corrosion resistant hardened shafts (see part no. L1772).
Tolerance h6. For part numbers with^{-1} shaft tolerance required for these is g6.
Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3 tol. h4	d_4	d_5	d_6	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Squareness A µm	Weight g
L1724.006-RS-1	Resin	6	12	35	5	3,3	28	3,4	6,5	20	320	4	520	15	31
L1724.008-RS	Resin	8	16	45	5	3,3	32	3,4	6,5	24	430	4	780	15	53
L1724.010-RS-1	Resin	10	19	55	6	4,4	40	4,5	8,0	29	580	4	1100	15	105
L1724.012-RS	Resin	12	22	57	6	4,4	42	4,5	8,0	32	650	4	1200	15	100
L1724.016-RS	Resin	16	26	70	6	4,4	46	4,5	8,0	36	1230	5	2350	15	187
L1724.020-RS	Resin	20	32	80	8	5,4	54	5,5	9,5	43	1400	5	2750	17	260
L1724.025-RS	Resin	25	40	112	8	5,4	62	5,5	9,5	51	1560	6	3140	17	515
L1724.006-SS-1	Stainless	6	12	35	5	3,3	28	3,4	6,5	20	320	4	520	15	31
L1724.008-SS	Stainless	8	16	45	5	3,3	32	3,4	6,5	24	430	4	780	15	53
L1724.010-SS-1	Stainless	10	19	55	6	4,4	40	4,5	8,0	29	580	4	1100	15	105
L1724.012-SS	Stainless	12	22	57	6	4,4	42	4,5	8,0	32	650	4	1200	15	100
L1724.016-SS	Stainless	16	26	70	6	4,4	46	4,5	8,0	36	1230	5	2350	15	187
L1724.020-SS	Stainless	20	32	80	8	5,4	54	5,5	9,5	43	1400	5	2750	17	260
L1724.025-SS	Stainless	25	40	112	8	5,4	62	5,5	9,5	51	1560	6	3140	17	515



L1725

Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

Supplied with nitrile rubber (NBR) end seals.

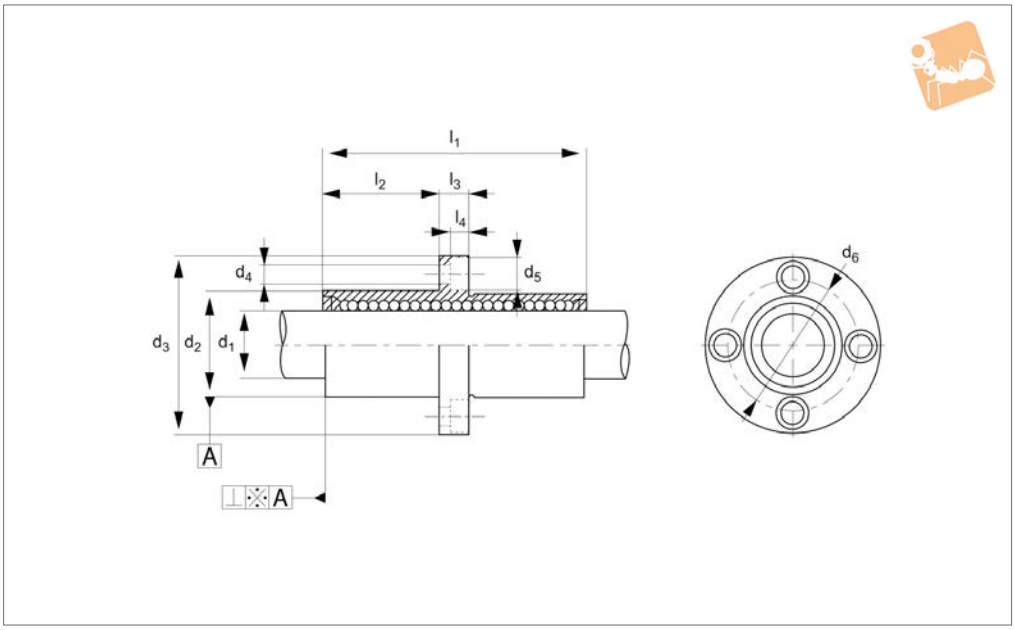
Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	d_3	d_4	d_5	w_1	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Squareness A µm	Weight g
L1725.006-RS-1	Resin	6	12	35	5	3,3	3,4	6,5	20	22	320	4	520	15	31
L1725.008-RS	Resin	8	16	45	5	3,3	3,4	6,5	24	25	430	4	780	15	53
L1725.010-RS-1	Resin	10	19	55	6	4,4	4,5	8,0	29	30	580	4	1100	15	105
L1725.012-RS	Resin	12	22	57	6	4,4	4,5	8,0	32	32	650	4	1200	15	100
L1725.016-RS	Resin	16	26	70	6	4,4	4,5	8,0	36	35	1230	5	2350	15	187
L1725.020-RS	Resin	20	32	80	8	5,4	5,5	9,5	43	42	1400	5	2750	17	260
L1725.025-RS	Resin	25	40	112	8	5,4	5,5	9,5	51	50	1560	6	3140	17	515
L1725.006-SS-1	Stainless	6	12	35	5	3,3	3,4	6,5	20	22	320	4	520	15	31
L1725.008-SS	Stainless	8	16	45	5	3,3	3,4	6,5	24	25	430	4	780	15	53
L1725.010-SS-1	Stainless	10	19	55	6	4,4	4,5	8,0	29	30	580	4	1100	15	105
L1725.012-SS	Stainless	12	22	57	6	4,4	4,5	8,0	32	32	650	4	1200	15	100
L1725.016-SS	Stainless	16	26	70	6	4,4	4,5	8,0	36	35	1230	5	2350	15	187
L1725.020-SS	Stainless	20	32	80	8	5,4	5,5	9,5	43	42	1400	5	2750	17	260
L1725.025-SS	Stainless	25	40	112	8	5,4	5,5	9,5	51	50	1560	6	3140	17	515

Stainless Ball Bushings

long version, circular centre flange

L1732

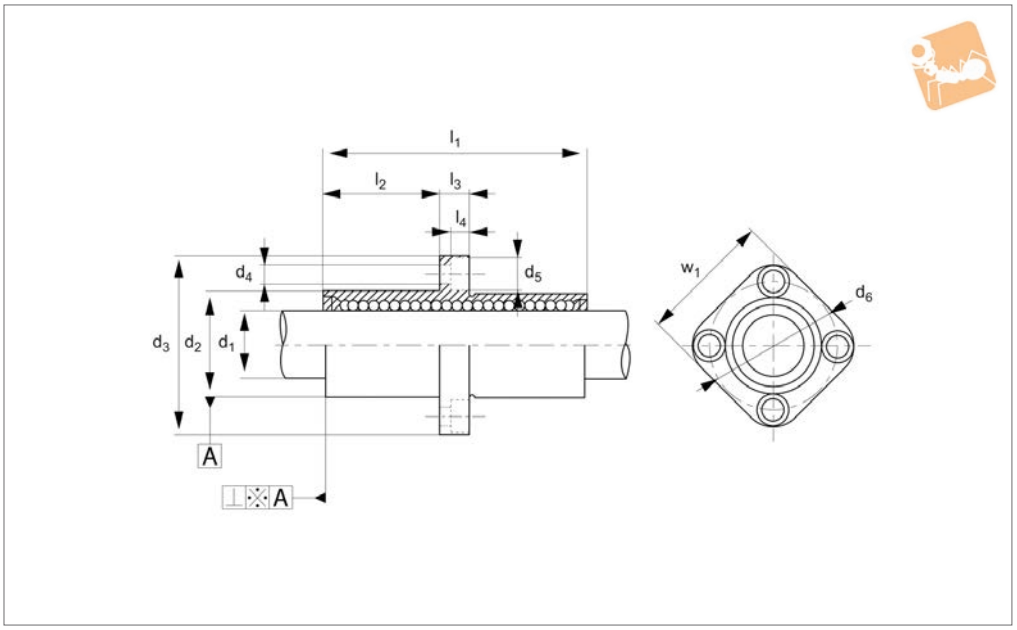


Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage - 20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	l_4	d_3 tol. h4	d_4	d_5	d_6	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Squareness A µm	Weight g
L1732.006-RS-1	Resin	6	12	35	15,0	5	3,3	28	3,4	6,5	20	320	4	520	15	31
L1732.008-RS	Resin	8	15	45	20,0	5	3,3	32	3,4	6,5	24	430	4	780	15	53
L1732.010-RS-1	Resin	10	19	55	24,5	6	4,4	40	4,5	8,0	29	580	4	1100	15	105
L1732.012-RS	Resin	12	21	57	25,5	6	4,4	42	4,5	8,0	32	650	4	1200	15	100
L1732.016-RS	Resin	16	26	70	32,0	6	4,4	46	4,5	8,0	36	1230	5	2350	15	187
L1732.020-RS	Resin	20	32	80	36,0	8	5,4	54	5,5	9,5	43	1400	5	2750	17	260
L1732.025-RS	Resin	25	40	112	52,0	8	5,4	62	5,5	9,5	51	1560	6	3140	17	515
L1732.006-SS-1	Stainless	6	12	35	15,0	5	3,3	28	3,4	6,5	20	320	4	520	15	31
L1732.008-SS	Stainless	8	15	45	20,0	5	3,3	32	3,4	6,5	24	430	4	780	15	53
L1732.010-SS-1	Stainless	10	19	55	24,5	6	4,4	40	4,5	8,0	29	580	4	1100	15	105
L1732.012-SS	Stainless	12	21	57	25,5	6	4,4	42	4,5	8,0	32	650	4	1200	15	100
L1732.016-SS	Stainless	16	26	70	32,0	6	4,4	46	4,5	8,0	36	1230	5	2350	15	187
L1732.020-SS	Stainless	20	32	80	36,0	8	5,4	54	5,5	9,5	43	1400	5	2750	17	260
L1732.025-SS	Stainless	25	40	112	52,0	8	5,4	62	5,5	9,5	51	3140	6	3140	17	515



L1733

Material
Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer.
Stainless steel balls (440C).

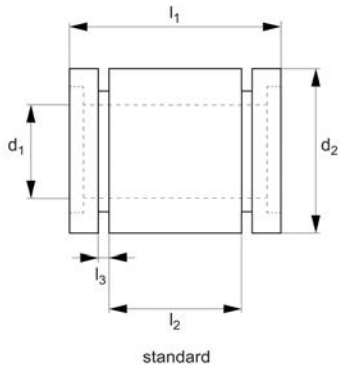
Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6. For part numbers with $^{-1}$ shaft tolerance required is g6. Temperature range: For resin ball cage -20°C to +80°C.
For stainless ball cage -20°C to +120°C.

Order No.	Ball cage	d_1 tol. h6	d_2 tol. h6	l_1	l_2	l_3	l_4	d_3	d_4	d_5	d_6	w_1	Dyn. load C N max.	No. of ball circuits	Static load C_0 N max.	Squareness A µm	Weight g
L1733.006-RS-1	Resin	6	12	35	15,0	5	3,3	20	3,4	6,5	20	22	320	4	520	15	31
L1733.008-RS	Resin	8	15	45	20,0	5	3,3	24	3,4	6,5	24	25	430	4	780	15	53
L1733.010-RS-1	Resin	10	19	55	24,5	6	4,4	29	4,5	8,0	29	30	580	4	1100	15	105
L1733.012-RS	Resin	12	21	57	25,5	6	4,4	32	4,5	8,0	32	32	650	4	1200	15	100
L1733.016-RS	Resin	16	26	70	32,0	6	4,4	36	4,5	8,0	35	35	1230	5	2350	15	187
L1733.020-RS	Resin	20	32	80	36,0	8	5,4	43	5,5	9,5	42	42	1400	5	2750	20	260
L1733.025-RS	Resin	25	40	112	52,0	8	5,4	51	5,5	9,5	50	51	1560	6	3140	20	515
L1733.006-SS-1	Stainless	6	12	35	15,0	5	3,3	20	3,4	6,5	20	22	320	4	520	15	31
L1733.008-SS	Stainless	8	15	45	20,0	5	3,3	24	3,4	6,5	24	25	430	4	780	15	53
L1733.010-SS-1	Stainless	10	19	55	24,5	6	4,4	29	4,5	8,0	29	30	580	4	1100	15	105
L1733.012-SS	Stainless	12	21	57	25,5	6	4,4	32	4,5	8,0	32	32	650	4	1200	15	100
L1733.016-SS	Stainless	16	26	70	32,0	6	4,4	36	4,5	8,0	35	35	1230	5	2350	15	187
L1733.020-SS	Stainless	20	32	80	36,0	8	5,4	43	5,5	9,5	42	42	1400	5	2750	20	260
L1733.025-SS	Stainless	25	40	112	52,0	8	5,4	51	5,5	9,5	50	51	1560	6	3140	20	515

Ceramic Closed Linear Bearings

L1764



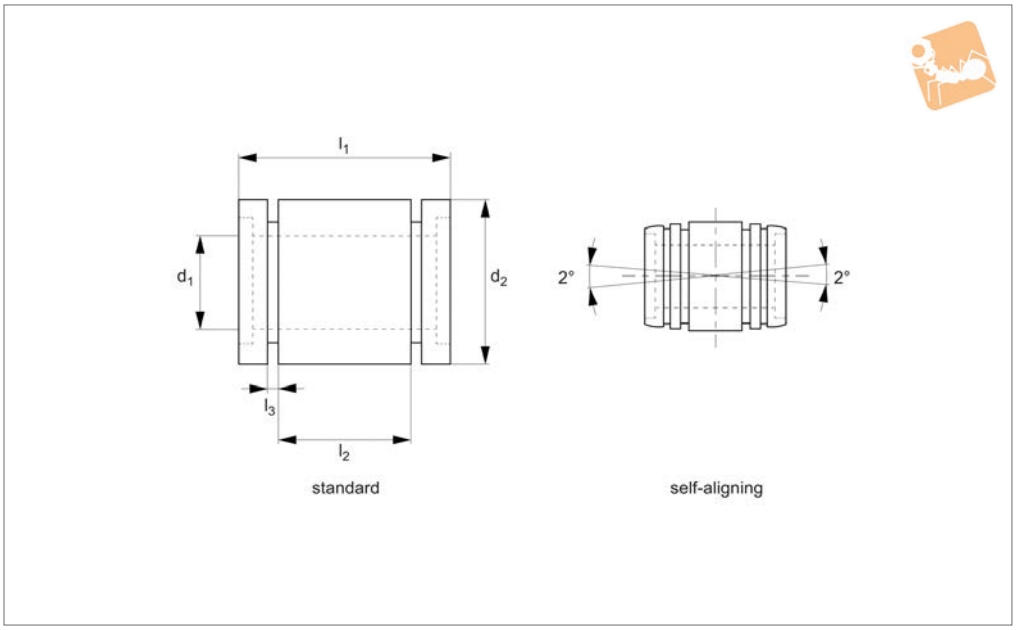
Material
Aluminium with aluminium-oxide ceramic coating (4-7µ). Hardness >80 HRC.

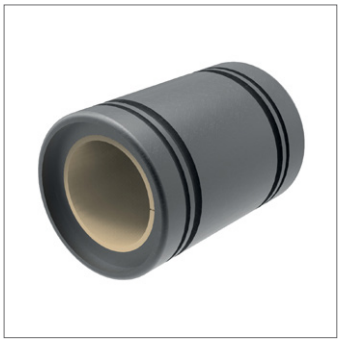
Technical Notes
Concentricity is better than 15µ.
Available with or without seals, if seals are required, please contact our sales team.
Temperature range: -130°C to +200°C.

Tips
Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1776.
For dynamic load ratings, this is linked to PV (pressure velocity) - see technical pages for calculations.
Load ratings are straight compressive loads on a horizontal. They do not take into account moment loads or orientations such as inverse or vertical arrangements.

*** Bore tolerances where d_1 is:**
5-16: +0,0, -0.04 to -0.07
20-30: +0.0, 0.05 to -0.07
40-60: +0.0, 0.05 to -0.09
80: +0.0, 0.12 to -0.17

Order No.	Type	d_1*	d_2 tol. h7	l_1 tol. h14	l_2 tol. h13	l_3	Static load C_0 kN max.
L1764.005	Standard	5	12	22	12	1.10	2.4
L1764.008	Standard	8	16	25	14	1.10	4.3
L1764.012	Standard	12	22	32	20	1.30	8.2
L1764.016	Standard	16	26	36	22	1.30	12.0
L1764.020	Standard	20	32	45	28	1.60	19.0
L1764.025	Standard	25	40	58	40	1.85	35.0
L1764.030	Standard	30	47	68	48	1.85	43.0
L1764.040	Standard	40	62	80	58	2.15	68.0
L1764.050	Standard	50	75	100	72	2.65	106.0
L1764.060	Standard	60	90	125	95	3.20	159.0
L1764.080	Standard	80	120	165	125	4.20	277.0
L1764.008-SA	Self Align.	8	16	25	14	1.10	4.3
L1764.012-SA	Self Align.	12	22	32	20	1.30	8.2
L1764.016-SA	Self Align.	16	26	36	22	1.30	12.0
L1764.020-SA	Self Align.	20	32	45	28	1.60	19.0
L1764.025-SA	Self Align.	25	40	58	40	1.85	35.0
L1764.030-SA	Self Align.	30	47	68	48	1.85	43.0
L1764.040-SA	Self Align.	40	62	80	58	2.15	68.0
L1764.050-SA	Self Align.	50	75	100	72	2.65	106.0
L1764.060-SA	Self Align.	60	90	125	95	3.20	159.0
L1764.080-SA	Self Align.	80	120	165	125	4.20	277.0





L1765

Material
Aluminium with aluminium-oxide ceramic coating (4-7µ). Hardness >80 HRC.
PTFE insert.

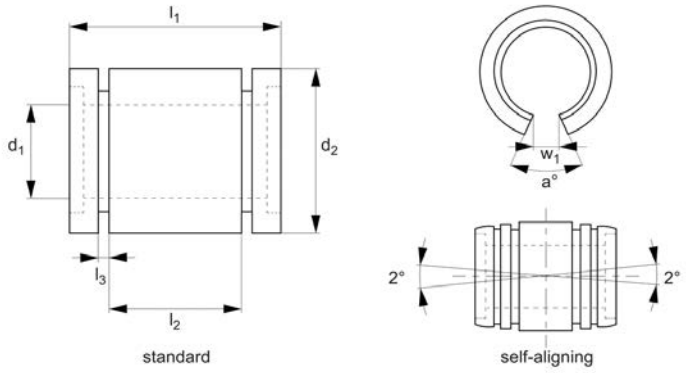
Technical Notes
Concentricity is better than 15µ.
Available with or without seals, if seals are required, please contact our sales team.
Temperature range: -130°C to +200°C.

Tips
Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1776.
Self lubricating versions can also be run on ceramic coated aluminium shafts (see part no. L1778.)
Load ratings are straight compressive loads on a horizontal. They do not take into account moment loads or orientations such as inverse or vertical arrangements.
*** Bore tolerances where d_1 is:**
5-16: +0,0, -0.04 to -0.07
20-30: +0.0, 0.05 to -0.07
40-60: +0.0, 0.05 to -0.09
80: +0.0, 0.12 to -0.17

Order No.	Type	d_1*	d_2 tol. h7	l_1 tol. h14	l_2 tol. h13	l_3	Static load C_0 kN max.
L1765.005	Self Lub.	5	12	22	12	1.10	2.3
L1765.008	Self Lub.	8	16	25	14	1.10	4.3
L1765.012	Self Lub.	12	22	32	20	1.30	8.3
L1765.016	Self Lub.	16	26	36	22	1.30	12.0
L1765.020	Self Lub.	20	32	45	28	1.60	18.0
L1765.025	Self Lub.	25	40	58	40	1.85	35.0
L1765.030	Self Lub.	30	47	68	48	1.85	43.0
L1765.040	Self Lub.	40	62	80	58	2.15	68.0
L1765.050	Self Lub.	50	75	100	72	2.65	106.0
L1765.060	Self Lub.	60	90	125	95	3.20	159.0
L1765.080	Self Lub.	80	120	165	125	4.20	277.0
L1765.008-SA	Self Lub/align	8	16	25	14	1.10	4.3
L1765.012-SA	Self Lub/align	12	22	32	20	1.30	8.3
L1765.016-SA	Self Lub/align	16	26	36	22	1.30	12.0
L1765.020-SA	Self Lub/align	20	32	45	28	1.60	18.0
L1765.025-SA	Self Lub/align	25	40	58	40	1.85	35.0
L1765.030-SA	Self Lub/align	30	47	68	48	1.85	43.0
L1765.040-SA	Self Lub/align	40	62	80	58	2.15	68.0
L1765.050-SA	Self Lub/align	50	75	100	72	2.65	106.0
L1765.060-SA	Self Lub/align	60	90	125	95	3.20	159.0
L1765.080-SA	Self Lub/align	80	120	165	125	4.20	277.0

Ceramic Open Linear Bearings

L1766



Material
Aluminium with aluminium-oxide ceramic coating (4-7µ). Hardness >80 HRC.

Technical Notes
Concentricity is better than 15µ.
Available with or without seals, if seals are required, please contact our sales team.

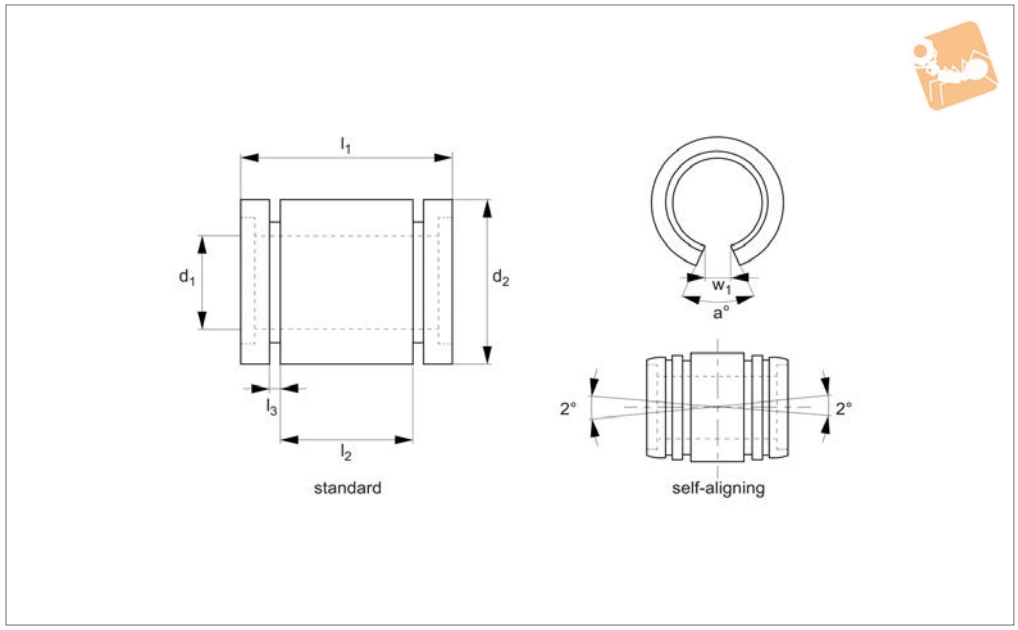
Temperature range: -130°C to +200°C.

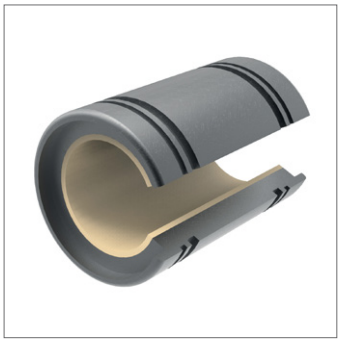
Tips
Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1776.
Inverting (hanging upside down) open style bearings is not recommended.

*** Bore tolerances where d_1 is:**
12-16: +0,0, -0.04 to -0.07
20-30: +0.0, 0.05 to -0.07
40-60: +0.0, 0.05 to -0.09
80: +0.0, 0.12 to -0.17

Order No.	Type	d_1*	d_2 tol. h7	l_1 tol. h14	l_2	l_3	w_1	α °	Static load C_0 kN max.
L1766.012	Standard	12	22	32	20	1.30	7.6	78°	8.2
L1766.016	Standard	16	26	36	22	1.30	10.8	78°	12.0
L1766.020	Standard	20	32	45	28	1.60	10.8	60°	18.0
L1766.025	Standard	25	40	58	40	1.85	13.2	60°	35.0
L1766.030	Standard	30	47	68	48	1.85	14.2	50°	43.0
L1766.040	Standard	40	62	80	58	2.15	18.7	50°	67.0
L1766.050	Standard	50	75	100	72	2.65	23.8	50°	106.0
L1766.060	Standard	60	90	125	95	3.20	29.8	54°	159.0
L1766.080	Standard	80	120	165	125	4.20	38.4	54°	227.0
L1766.012-SA	Self Align.	12	22	32	20	1.30	7.6	78°	8.2
L1766.016-SA	Self Align.	16	28	36	22	1.30	10.8	78°	12.0
L1766.020-SA	Self Align.	20	32	45	28	1.60	10.8	60°	18.0
L1766.025-SA	Self Align.	25	40	58	40	1.85	13.2	60°	35.0
L1766.030-SA	Self Align.	30	47	68	48	1.85	14.2	50°	43.0
L1766.040-SA	Self Align.	40	62	80	58	2.15	18.7	50°	67.0
L1766.050-SA	Self Align.	50	75	100	72	2.65	23.8	50°	106.0
L1766.060-SA	Self Align.	60	90	125	95	3.20	29.8	54°	159.0
L1766.080-SA	Self Align.	80	120	165	125	4.20	38.4	54°	277.0

Ceramic Open Linear Bearings
self-lubricating





L1767

Material
Aluminium with aluminium-oxide ceramic coating (4-7µ). Hardness >80 HRC.
PTFE insert.

Technical Notes
Concentricity is better than 15µ.
Available with or without seals, if seals are required, please contact our sales team.

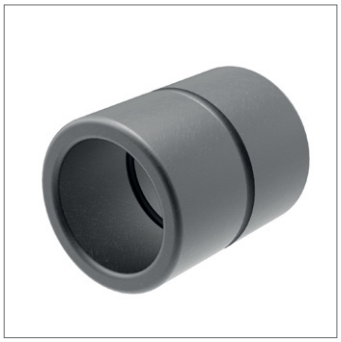
Temperature range: -130°C to +200°C.

Tips
Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1776.
Self lubricating versions can also be run on ceramic coated aluminium shafts (see part no. L1778).

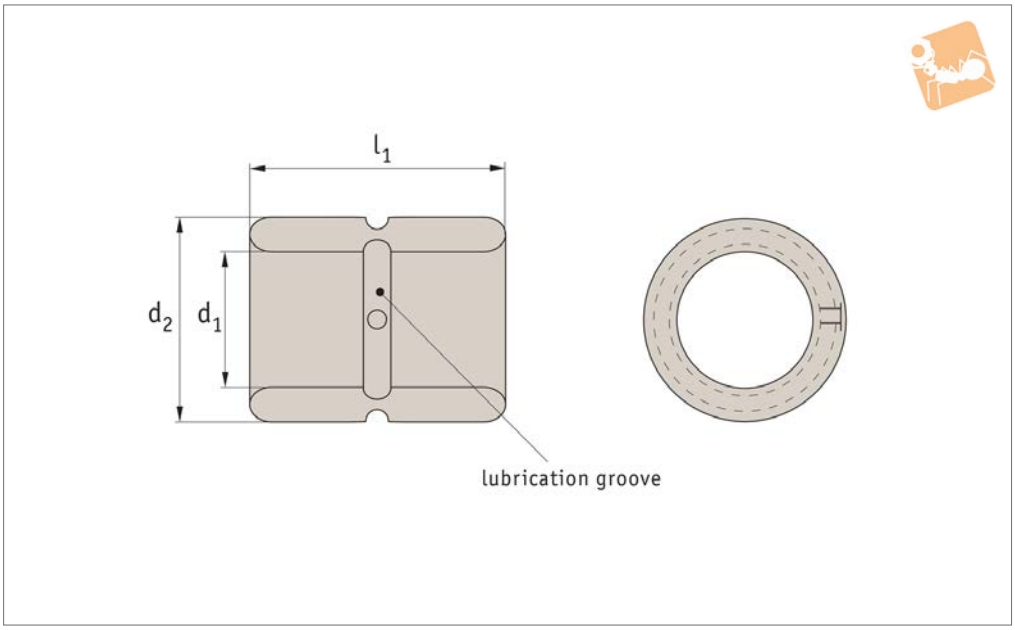
Inverting (hanging upside down) open style bearing use is not recommended.
*** Bore tolerances where d_1 is:**
12-16: +0,0, -0.04 to -0.07
20-30: +0.0, 0.05 to -0.07
40-60: +0.0, 0.05 to -0.09
80: +0.0, 0.12 to -0.17

Order No.	Type	d_1*	d_2 tol. h7	l_1 tol. h14	l_2	l_3	w_1	α °	Static load C_0 kN max.
L1767.012	Self Lub.	12	22	32	20	1.30	7.6	78°	8.2
L1767.016	Self Lub.	16	26	36	22	1.30	10.8	78°	12.0
L1767.020	Self Lub.	20	32	45	28	1.60	10.8	60°	18.0
L1767.025	Self Lub.	25	40	58	40	1.85	13.2	60°	35.0
L1767.030	Self Lub.	30	47	68	48	1.85	14.2	50°	43.0
L1767.040	Self Lub.	40	62	80	58	2.15	18.7	50°	67.0
L1767.050	Self Lub.	50	75	100	72	2.65	23.8	50°	106.0
L1767.060	Self Lub.	60	90	125	95	3.20	29.8	54°	159.0
L1767.080	Self Lub.	80	120	165	125	4.20	38.4	54°	277.0
L1767.012-SA	Self Lub/align	12	22	32	20	1.30	7.6	78°	8.2
L1767.016-SA	Self Lub/align	16	26	36	22	1.30	10.8	78°	12.0
L1767.020-SA	Self Lub/align	20	32	45	28	1.60	10.8	60°	18.0
L1767.025-SA	Self Lub/align	25	40	58	40	1.85	13.2	60°	35.0
L1767.030-SA	Self Lub/align	30	47	68	48	1.85	14.2	50°	43.0
L1767.040-SA	Self Lub/align	40	62	80	58	2.15	18.7	50°	67.0
L1767.050-SA	Self Lub/align	50	75	100	72	2.65	23.8	50°	106.0
L1767.060-SA	Self Lub/align	60	90	125	95	3.20	29.8	54°	159.0
L1767.080-SA	Self Lub/align	80	120	165	125	4.20	38.4	54°	277.0

Thin Wall Ceramic Linear Bearings



L1768



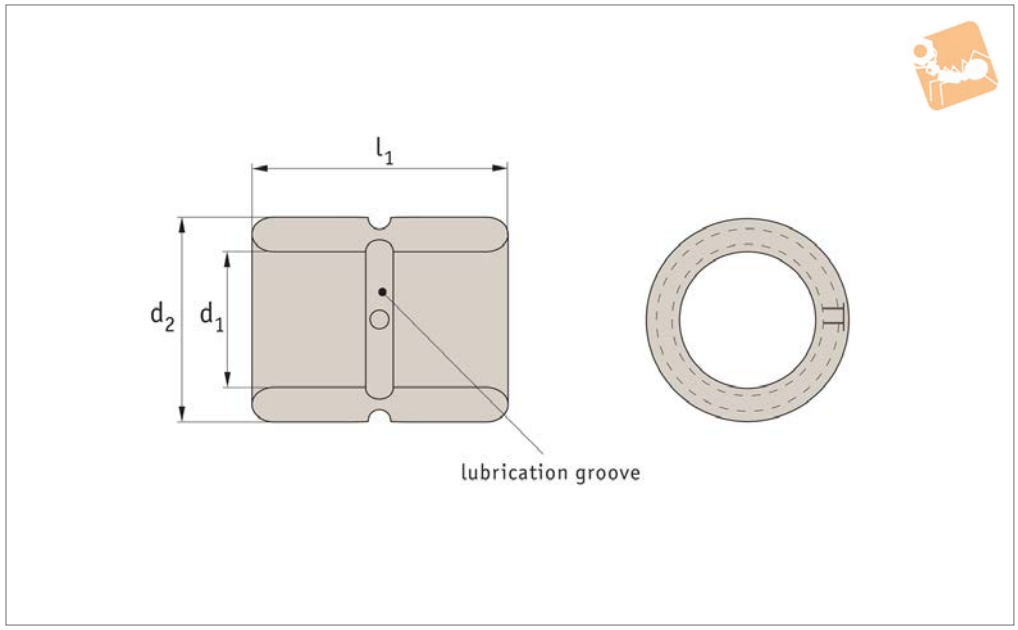
Material
Aluminium with aluminium-oxide ceramic coating (4-7µ). Hardness >80 HRC.

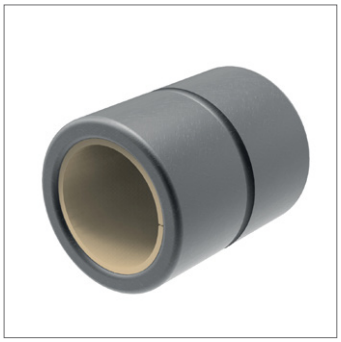
Technical Notes
Concentricity is better than 15µ.
Available with or without seals, if seals are required, please contact our sales team.
Temperature range: -130°C to +200°C.

Tips
Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1776.

Bore tolerances where d_1 is:
6-16: +0,0, -0.04 to -0.07
20-30: +0.0, 0.05 to -0.07
40-50: +0.0, 0.05 to -0.09

Order No.	d_1	d_2 tol. H7	l_1 tol. h14	Dyn. load C kN max.	Static load C_0 kN max.
L1768.006	6	12	22	0.21	0.79
L1768.008	8	15	24	0.32	1.38
L1768.010	10	17	26	0.47	1.89
L1768.012	12	19	28	0.62	2.64
L1768.014	14	21	28	0.77	3.02
L1768.016	16	24	30	0.92	3.96
L1768.020	20	28	30	1.44	6.19
L1768.025	25	35	40	2.31	9.98
L1768.030	30	40	50	3.25	14.03
L1768.040	40	52	60	5.10	22.02
L1768.050	50	62	70	7.96	34.40





L1769

Material
Aluminium with aluminium-oxide ceramic coating (4-7µ). Hardness >80 HRC.
PTFE insert.

Technical Notes
Concentricity is better than 15µ.
Available with or without seals, if seals are required, please contact our sales team.
Temperature range: -130°C to +200°C.

Tips
Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1776.
Self lubricating versions can also be run on ceramic coated aluminium shafts (see part no. L1788.)

Bore tolerances where d_1 is:
6-16: +0,0, -0.04 to -0.07
20-30: +0.0, 0.05 to -0.07
40-50: +0.0, 0.05 to -0.09

Order No.	d_1	d_2 tol. H7	l_1 tol. h14	Dyn. load C kN max.	Static load C_0 kN max.
L1769.006	6	12	22	0.08	0.64
L1769.008	8	15	24	0.18	1.04
L1769.010	10	17	26	0.23	1.41
L1769.012	12	19	28	0.34	2.00
L1769.014	14	21	28	0.44	2.42
L1769.016	16	24	30	0.51	3.00
L1769.020	20	28	30	0.80	4.68
L1769.025	25	35	40	1.29	7.54
L1769.030	30	40	50	1.83	10.81
L1769.040	40	52	60	2.88	16.64
L1769.050	50	62	70	4.48	26.00

Self-lubricating

These ceramic coated linear bearings are lined with a self-lubricating composite which is bonded to the aluminium shell. This composite is a combination of Teflon® and non-abrasive, polyamide fillers for both load carrying capability and dynamic coefficient of friction.

As the self-liner is non-abrasive, it runs equally well on either hardened steel or on soft steel or stainless steel shafting (303 or 316).

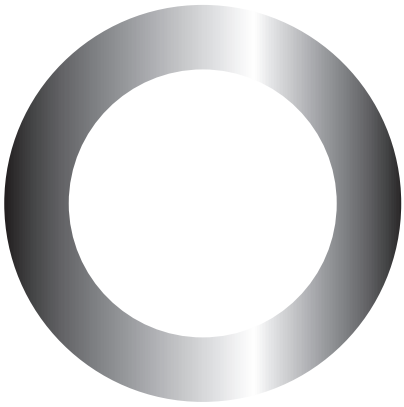
Ceramic coated

Ceramic coated linear bearings are a one piece construction, employing a file-hard ceramic coating over an aluminium shell. Our ceramic coating is not an anodised or surface coating that can fracture, flake, chip or wash-off in corrosive environments. The ceramic coating is FDA compliant.

These bearings require lubrication (grease or light oil is sufficient - no silicone based lubricants).

Ceramic bearings

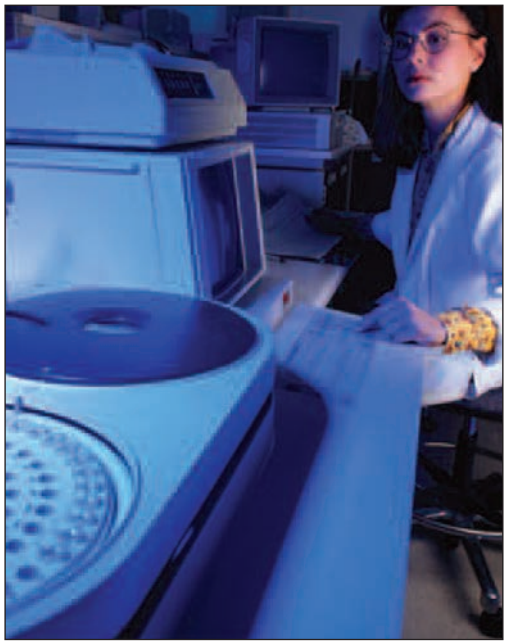
Self-lubricating with teflon liner



Ceramic coated

Applications

- Automated assembly.
- Packaging machines.
- Food processing equipment.
- Pharmaceutical equipment.
- Medical equipment.
- Wash-down systems.



Ceramic coated bearings

These are manufactured from a special grade of aluminium, then ceramic coated.
Surface hardness is 85HRC, which is why the bearings have extremely long wear life.
Their extreme hardness prevents particles from entering into the surface of the shafting, (this is the primary cause of bearing and shaft failure).

The ceramic series must be lubricated with a thin film of oil in order to perform correctly.

- Lasting precision alignment.
- Abrasion resistance.
- Elimination of noise.
- Interchangeable with ball bushings.
- Minimal lubrication is required.
- Design economies.
- Rotary/linear motion capabilities.
- Zero shake or play.
- Elimination of galvanic action.
- High operation speeds.
- Excellent electrical insulating abilities.
- Oscillatory motion & rapid directional change.
- Unaffected by salt water or corrosion.
- Cleanliness.
- Vacuum applications.
- No catastrophic failure.
- Low friction.
- Food machinery
  (FDA approved materials available).

Self-lubricating bearings

- Tough
- Resource free
- Quiet
- Cost-effective

These are maintenance free bearings, manufactured to the same standards as our ceramic coated series, but the inside diameter is lined with a special blended Teflon-material; eliminating the need for lubrication. It also allows the use of soft shaft materials such as unhardened steel, 300 series stainless steel or aluminium.

Parallel shafting and edge loading

Sleeve-type linear motion bearings, more so than ball bushings, require parallel shafting to be aligned as closely as possible to avoid edge loading. Edge loading can cause higher than expected friction and subsequent wear.

To combat shaft misalignment, we offer two options:

1. Self-aligning bearings: a subtle o/d radius allows the bearing to pivot on the bearing crown
2. Bearings can be supplied with self-aligning O-rings to provide for a “full float bearing”. Unlike our self-aligning bearings, floating bearings on O-rings result in changes between shaft centreline to housing tolerances due to deflection and possible mechanical sets

Breakaway force requirements - static	
Self lube PTFE dry	Ceramic coated lubricated
30% of static load	10% of static load

Example

For a linear slide employing 2 rails and 4 self lubricating PTFE pillow block assemblies and supporting a horizontal, centred load of 250N

Static self-lubricating linear bearings 30% of system load to get the system moving

250N x 0.3 = 75N

Dynamic self-lubricating linear bearings (in motion) 10% of system load

250N x 0.1 = 25N

Comparison between ceramic coated and self-lubricating bearings

Linear bearing categories	Self-lubricating bearings	Ceramic coated bearings
Max PV (continuous) N/mm² x m/s	63,05	84,06
Max. pressure N/mm²	34,47	34,47
Max. speed (no load) m/s	2	Unlimited
Shaft hardness (minimum)	25HRB	35HRB
Coefficient of friction	0,09 - 0,12	0,04 - 0,08
Temperature range - Typical limits	-240°C to +190°C	-125°C to +200°C

Pressure velocity (PV) calculations

The load factor PV has a considerable influence on determining the bearing's useful operating life. PV is determined by multiplying the specific bearing load or pressure (P) by the sliding speed (V).

Bearing materials are rated by a PV limit, with the PV limit representing the highest combination of load and speed under which the bearing material will operate. The PV unit of measure is N/mm² x m/s.

To determine P in an application: the specific bearing load (P) is found by dividing the bearing load by the pressure supporting area of the bearing. The units for P are N/mm².
The pressure supporting area depends on the the specific geometry of the bearing.
The following are formulae for the most common types of bearing geometry.

Specific bearing load P (N/mm²)

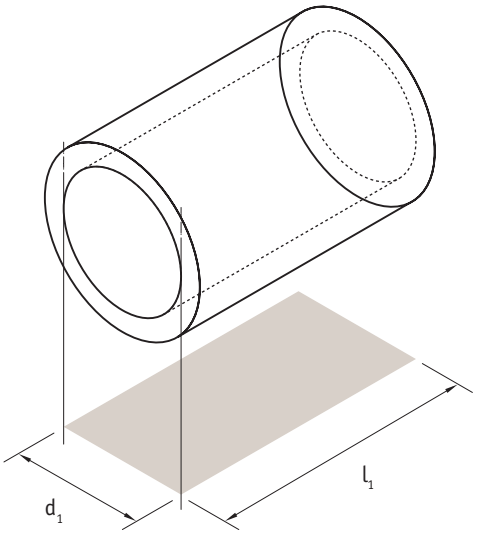
$$P = \frac{Wr}{d_1 \times l_1}$$

Sliding speed V (m/s) rotation

$$V = \frac{\pi \times d_1 \times N}{60 \times 10^3}$$

Where;

P = Specific bearing load (N/mm²)
Wr = Load on bushing (N)
d_1 = Bearing inside diameter (mm)
N = Speed of rotation (rpm)
l_1 = Bearing length



Open bearing load capacity

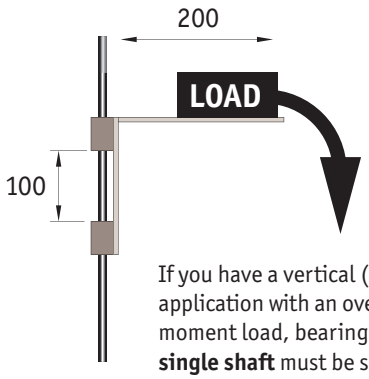
Inverting (hanging upside down) open style sleeve bearings is not an optimal design configuration. System load is forced into the bearing slot - the weakest part of the bearing. Depending on the load and possible moments, point loading on the edges of the slot can result in hot spots, liner cold flow and excessive wear. If the bearings are being used in this way the percentage of the load stated in the data table they can take is shown below.

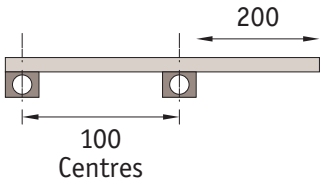
Straight downward compressive	Side mounted	Inverted (upside down)
100%	70%	30%

Cantilevered loading

When you have a cantilevered load **you must observe the 2:1 ratio rule**.
Moment loading can result in edge loading of sleeve-type linear bearings, so the correct spacing between bearings on a single shaft (vertical or Z axes) and spacing between shafting on horizontal applications (X,Y axes) must meet the 2:1 ratio rule.

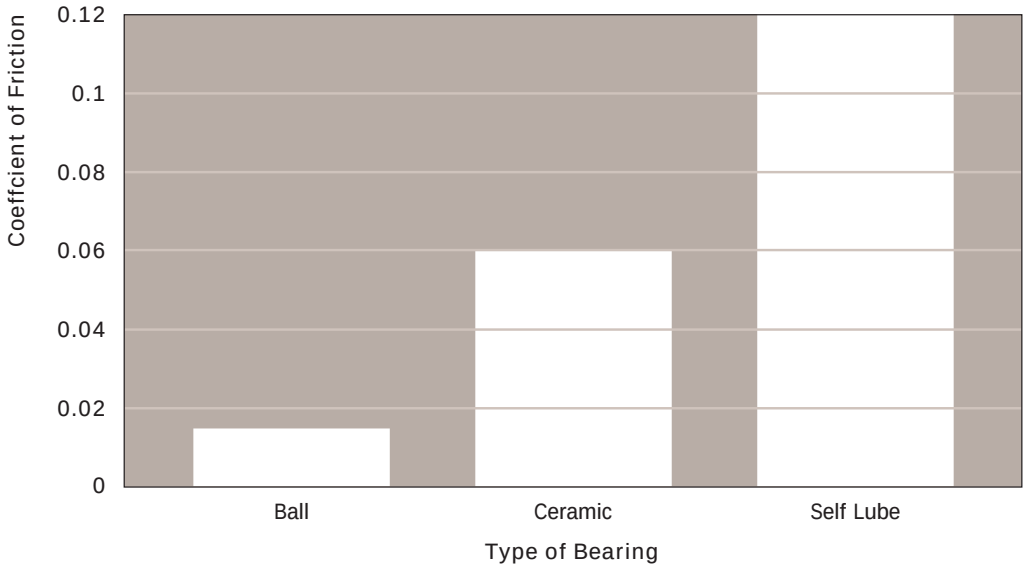
If this rule is not observed the friction will increase, the system will bind and the bearings will ultimately fail.



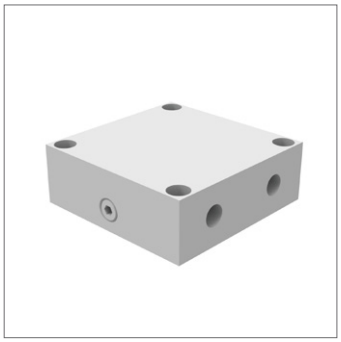


If you have a vertical (2 axis) application with an overturning moment load, bearings on a **single shaft** must be spaced (face to face) a minimum distance equalling half the length of the moment arm.

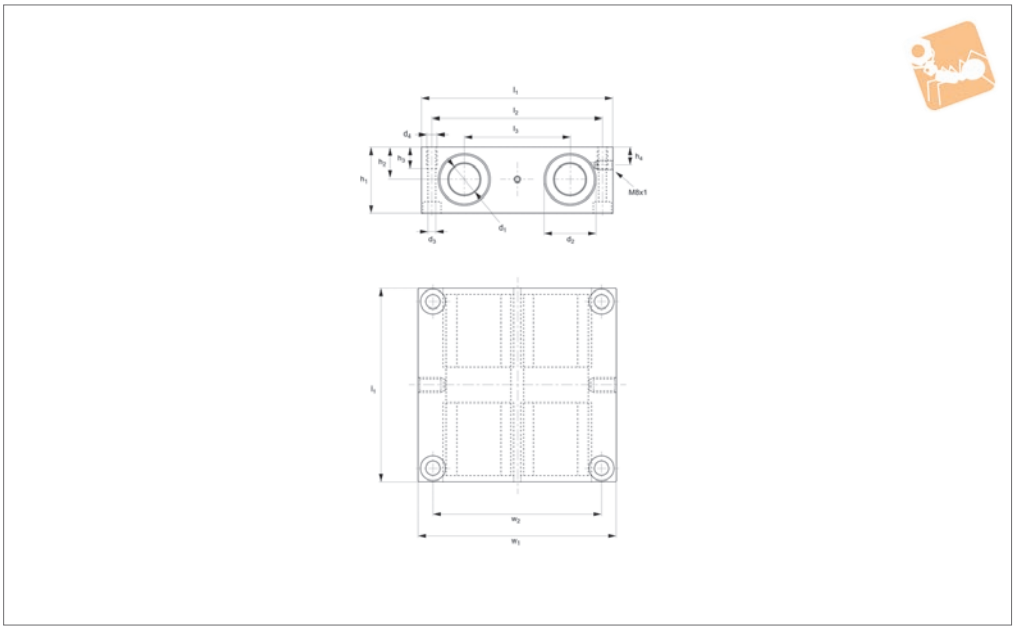
Coefficient of friction



Quadro Carriages
closed type bearings



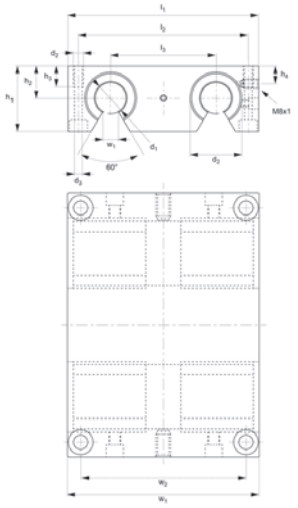
L1758

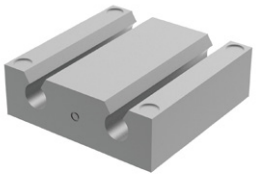


Material
Aluminium alloy body.
Steel bearings with plastic ball retainer and end seals.

Technical Notes
Quadruple, closed, self-aligning linear ball bearings with two integral seals and lubrication hole.
Bearings are fixed in the housing by retaining rings (DIN 472).
For use with hardened shafts only (see part no.s L1770 - L1772). Load ratings apply for hardened and ground shafts only.
Temperature range: -20°C to +80°C.
For applications requiring higher temperatures we can make the bushings suitable for use up to +120°C by changing the ball retainers, end plates, and seals. Please advise at time of ordering if this is required.

Order No.	d_1 for h_7	d_2 tol. h6	w_1	h_1	h_2 +0.01 | -0.02	h_3	h_4	l_1	l_2 & w_2	l_3 ±0.02	d_3	d_4	Dyn. load C kN max.	Static load C_0 kN max.	Weight kg
L1758.012	12	22	85	32	16	13	13	85	73	42	5.3	M 6	1.3	2.0	0.70
L1758.016	16	26	100	36	18	13	15	100	88	54	5.3	M 6	1.4	2.2	1.02
L1758.020	20	32	130	46	23	18	19	130	115	72	6.8	M 8	3.2	4.9	2.15
L1758.025	25	40	160	56	28	22	24	160	140	88	9.0	M10	5.5	8.5	4.07
L1758.030	30	47	180	64	32	26	27	180	158	96	10.5	M12	6.2	9.5	5.87
L1758.040	40	62	230	80	40	34	35	230	202	122	13.5	M16	10.5	14.0	11.78





L1759

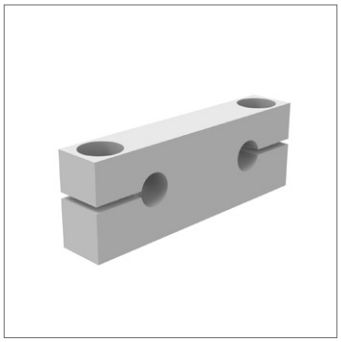
Material
Aluminium alloy body.
Steel bearings with plastic ball retainer and end seals.

Technical Notes
Quadruple, closed, self-aligning linear ball bearings with two integral seals and lubrication hole.
Bearings are fixed in the housing by retaining rings (DIN 472).
For use with hardened shafts only (see part no.s L1770 - L1772). Load ratings apply for hardened and ground shafts only.
Temperature range: -20°C to +80°C.
For applications requiring higher temperatures we can make the bushings suitable for use up to +120°C by changing the ball retainers, end plates, and seals. Please advise at time of ordering if this is required.

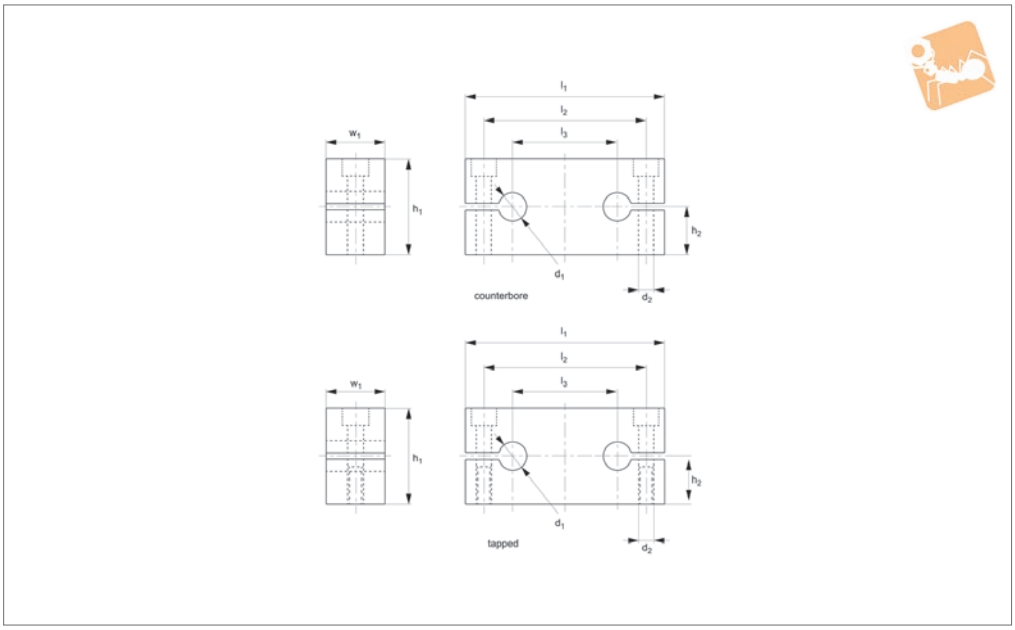
Order No.	d_1 for h_7	d_2 tol. h6	w	w_1	h_1	h_2 +0.01 | -0.02	h_3	h_4	l_1	l_2 & w_2	l_3 ±0.02	d_3	d_4	Dyn. load C kN max.	Static load C_0 kN max.	Weight kg
L1759.012	12	22	7.0	85	30	18	13	13	85	73	42	5.3	M 6	1.3	2.0	0.59
L1759.016	16	26	9.4	100	35	22	13	15	100	88	54	5.3	M 6	1.4	2.2	0.92
L1759.020	20	32	10.2	130	42	25	18	19	130	115	72	6.8	M 8	3.2	4.9	1.82
L1759.025	25	40	12.9	160	51	30	22	24	160	140	88	9.0	M10	5.5	8.5	3.46
L1759.030	30	47	13.9	180	60	35	26	27	180	158	96	10.5	M12	6.2	9.5	5.19
L1759.040	40	62	18.2	230	77	45	34	35	230	202	122	13.5	M16	10.5	14.0	10.78

End Blocks for Twin Shafts

clearance and tapped hole fixing



L1760



Material
Aluminium alloy.

Technical Notes
For use with parts L1758 and L1759.

Order No.	Type	d_1	d_2	w_1	h_1	h_2 ±0.015	l_1	l_2	l_3	Weight kg
L1760.008-C	Clearance	8	5.5	12	23	12.5	65	52	32	0.04
L1760.012-C	Clearance	12	6.6	14	32	18.0	85	70	42	0.07
L1760.016-C	Clearance	16	9.0	18	36	20.0	100	82	54	0.13
L1760.020-C	Clearance	20	11.0	20	46	25.0	130	108	72	0.22
L1760.025-C	Clearance	25	13.5	25	56	30.0	160	132	88	0.44
L1760.030-C	Clearance	30	13.5	25	64	35.0	180	150	96	0.56
L1760.040-C	Clearance	40	17.5	30	80	44.0	230	190	122	1.00
L1760.008-T	Tapped	8	M 5	12	22	11	65	52	32	0.04
L1760.012-T	Tapped	12	M 6	14	28	14	85	70	42	0.07
L1760.016-T	Tapped	16	M 8	18	32	16	100	82	54	0.13
L1760.020-T	Tapped	20	M10	20	42	21	130	108	72	0.22
L1760.025-T	Tapped	25	M12	25	52	26	160	132	88	0.44
L1760.030-T	Tapped	30	M12	25	58	29	180	150	96	0.56
L1760.040-T	Tapped	40	M16	30	72	36	230	190	122	1.00