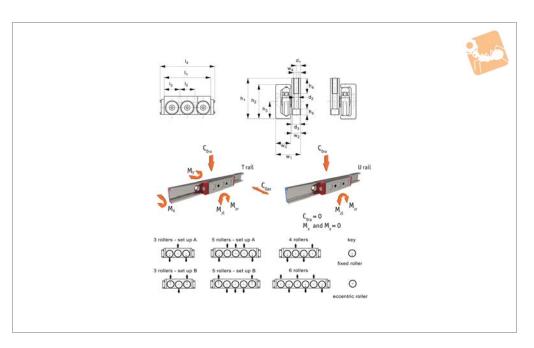


Medium Duty Sliders, size 28

no side seal, side fixing, with wiper







L1928.CR

Material

Zinc plated steel body. Steel rollers (100Cr6) with rubber seals.

Technical Notes

To be used with compact rail size 28H.

Select the relevant carriage for the rail and the required number of carriages to carry the load (taking into account any moment loads).

Tips

Easy to install (one or more rollers are

eccentric allowing for adjustable preload). Coefficient of friction (without seals) 0.003.

Quiet and fast (up to 5 m/s).

Order No.	For rail type	No. of rollers	d ₁ for screw	d_2	d ₃	h_1	h ₂	h ₃	h ₄	h ₅	I_1	l ₂	l ₃	l ₄	M _x Nm
L1928.28CR-080-TA	Т	3	M6	5.2	9	28	14	32	10	5.5	80	36	22	94	6.4
L1928.28CR-080-UA	U	3	M6	5.2	9	28	14	32	10	5.5	80	36	22	94	0
L1928.28CR-080-TB	Т	3	M6	5.2	9	28	14	32	10	5.5	80	36	22	94	6.4
L1928.28CR-080-UB	U	3	M6	5.2	9	28	14	32	10	5.5	80	36	22	94	0
L1928.28CR-100-TA	T	4	M6	5.2	9	28	14	32	10	5.5	100	28	22	114	11.8
L1928.28CR-100-UA	U	4	M6	5.2	9	28	14	32	10	5.5	100	28	22	114	0
L1928.28CR-100-TB	Т	4	M6	5.2	9	28	14	32	10	5.5	100	28	22	114	11.8
L1928.28CR-100-UB	U	4	M6	5.2	9	28	14	32	10	5.5	100	28	22	114	0
L1928.28CR-125-TA	Т	5	M6	5.2	9	28	14	32	10	5.5	125	27	22	139	11.8
L1928.28CR-125-UA	U	5	M6	5.2	9	28	14	32	10	5.5	125	27	22	139	0
L1928.28CR-125-TB	Т	5	M6	5.2	9	28	14	32	10	5.5	125	27	22	139	11.8
L1928.28CR-125-UB	U	5	M6	5.2	9	28	14	32	10	5.5	125	27	22	139	0
L1928.28CR-150-TA	Т	6	M6	5.2	9	28	14	32	10	5.5	150	27	22	164	14.1
L1928.28CR-150-UA	U	6	M6	5.2	9	28	14	32	10	5.5	150	27	22	164	0
L1928.28CR-150-TB	T	6	M6	5.2	9	28	14	32	10	5.5	150	27	22	164	14.1
L1928.28CR-150-UB	U	6	M6	5.2	9	28	14	32	10	5.5	150	27	22	164	0

Order No.	M _y Nm	M _{zr} Nm	M _{zl} Nm	w_1	W_2	w_3	W ₄	N max.	N max.	Static load C _{0 rad.} N max.
L1928.28CR-080- TA	16.4	28.0	28.0	24.1	10	12.3	5	4345	652	2213
L1928.28CR-080- UA	0	28.0	28.0	24.1	10	12.3	5	4345	0	2213
L1928.28CR-080- TB	16.4	28.0	28.0	24.1	10	12.3	5	4345	652	2213
L1928.28CR-080- UB	0	28.0	28.0	24.1	10	12.3	5	4345	0	2213
L1928.28CR-100- TA	22.3	28.0	84.1	24.1	10	12.3	5	4345	765	2213

0333 207 4498





Medium Duty Sliders, size 28 no side seal, side fixing, with wiper



Order No.	M _y Nm	M _{zr} Nm	M _{zl} Nm	w_1	W_2	W ₃	W ₄	Dyn. load C N max.	Static load C _{0 ax.} N max.	Static load C _{0 rad.} N max.
L1928.28CR-100- UA	0	28.0	84.1	24.1	10	12.3	5	4345	0	2213
L1928.28CR-100- TB	22.3	84.1	28.0	24.1	10	12.3	5	4345	765	2213
L1928.28CR-100- UB	0	84.1	28.0	24.1	10	12.3	5	4345	0	2213
L1928.28CR-125- TA	30.0	84.1	84.1	24.1	10	12.3	5	5160	919	2630
L1928.28CR-125- UA	0	84.1	84.1	24.1	10	12.3	5	5160	0	2630
L1928.28CR-125- TB	30.0	84.1	84.1	24.1	10	12.3	5	5160	919	2630
L1928.28CR-125- UB	0	84.1	84.1	24.1	10	12.3	5	5160	0	2630
L1928.28CR-150- TA	37.3	84.1	140.0	24.1	10	12.3	5	5160	1102	2630
L1928.28CR-150- UA	0	84.1	140.0	24.1	10	12.3	5	5160	0	2630
L1928.28CR-150- TB	37.3	140.0	84.1	24.1	10	12.3	5	5160	1102	2630
L1928.28CR-150- UB	0	140.0	84.1	24.1	10	12.3	5	5160	0	2630





Compact Rails

Introduction

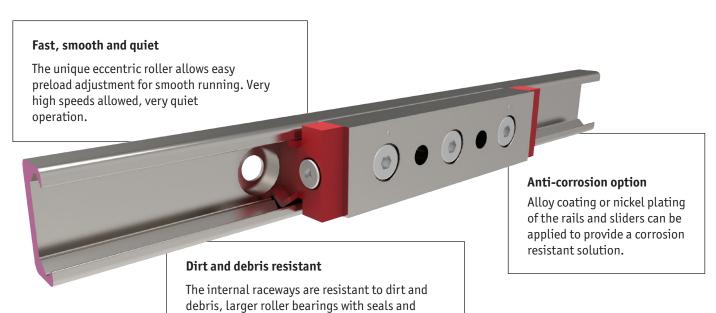
The compact rail systems are unique. They have many major advantages over other rail systems.

Easy and cost-effective to set up

The rails are easy to set up and can adjust for some misalignment of the structure on which it is being used. The compact rail system achieves this by using a master (T type) rail, and a slave (U type) rail. This allows the sliders in the T rail to remain fixed in place but allows lateral movement of the sliders in the U rail to adapt to any misalignment and avoid any issues of stiction.

Slave (U) rails have flat, parallel raceways that allow free lateral movement of the sliders. This flexibility can mean a large saving in the machining of the structure surface making it a very cost-effective solution.

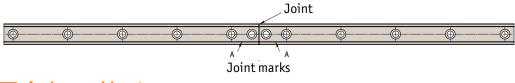




Unlimited rail lengths

Rails can be easily joined together for unlimited rail lengths, and extra hole needs to be machined at the joint area. The rails need to be selected so they are "matched" and a joining tool needs to be used to align the rails.

on other systems).





wipers are used (compared to small ball bearings

npact

Compact Rails

Specifications and applications



Specifications

- Maximum speed 9 m/s.
- Maximum acceleration 20 m/s².
- Maximum unjoined rail length 3600 mm.
- 4 rail sizes 18, 28, 35 and 43.
- Three rail types T rail, U rail and K rail.
- Rail lengths from 160mm upwards.
- Rail raceways hardened and ground.
- Accuracy 0,15mm over 3,5 metres.
- Maximum radial load per slider is 15,000 N.

- Temperature range -30°C to +120°C.
- Roller bearings seals either 2Z (dust proof) or 2RS (splash proof), lubricated for life.
- Roller bearings from 100Cr6.
- Easy adjustment of preload.
- Three slider body types.
- Rails can be joined together, please contact our Technical Department for details.
- Special anti-corrosion coatings and finishes on

Applications



Special purpose & packaging machines

Precision positioning systems handling units robotic systems • cutting machines



Seating

Sliding seats disability ramps seat extensions



Safety guarding

Extending protective systems sliding gates automatic pick & place



Sliding doors & windows

Internal sliding doors gates • roof lights display cases



Photography & lighting

Sliding tracks positioning of lights shielding systems



Medical technology

X-ray equipment dental chairs bed extensions



Food, drink & pharmaceuticals

Food handling conveyors pharmaceutical factories stainless display equipment



Transport (naval)

Sliding hatches pull-out storage



Transport (rail)

Seat adjustment sliding doors battery removal units



Transport (automotive)

Ambulance sliding systems fire fighting vehicles sliding panels



Transport (military)

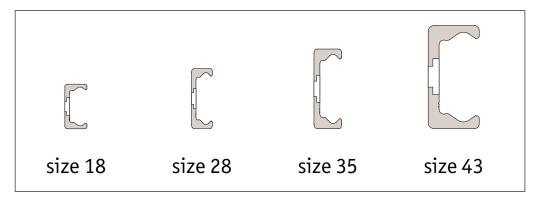
Sliding seats protective hatches stretcher extensions



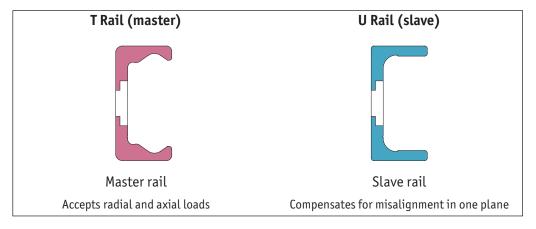
ompact Rail from Automotion Components



Rail sizes



Rail types



Sliders

Solid body, front mount - Type CL

Solid steel, zinc plated body with removable end wipers side seals, fixing in top face

Solid body, front mount - Type CS

Narrow body, solid steel zinc plated with removable end wipers no side seals, fixing on top face

Solid body, side mount - Type CR

Solid steel, zinc plated body with removable end wipers side seals, fixing in side of body





ompact Rail from Automotion Components



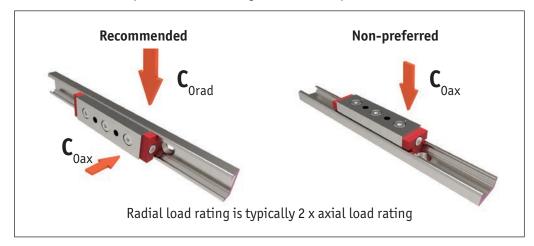
Compact Rail

Set-up



Orientation of rails

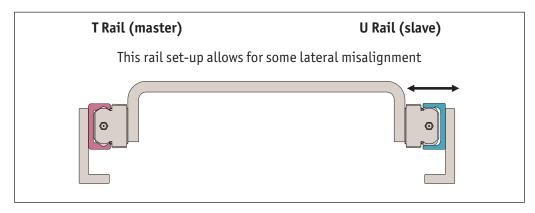
The radial load that the sliders can take is significantly higher than the axial load, so where possible the rails should be set up with the sliders taking the loads in this plane.



One of the key benefits of the compact rail system is that it compensates for misalignment in the structure. This often results in a major cost saving when compared to the use of other guideways which have to be very accurately installed.

The compact rail system achieves this by using a master (T type) rail, and a slave (U type) rail. This allows the slides in the Trail to remain fixed in place but allows lateral movement of the sliders in the U rail to adapt to any misalignment and avoid any issues of stiction.

U rails have flat, parallel raceways that allow free lateral movement of the sliders. The maximum lateral movement for each size is shown in later tables.



Using flat rails

It is acceptable (but not the preferred method), to use rails as below but the alignment accuracy needed is slightly greater and in this set-up only T type rails can be used.

In this case the axial load figure C_{Oax} should be used in any calculations (which is considerably less than the radial load figure C_{Orad}).

