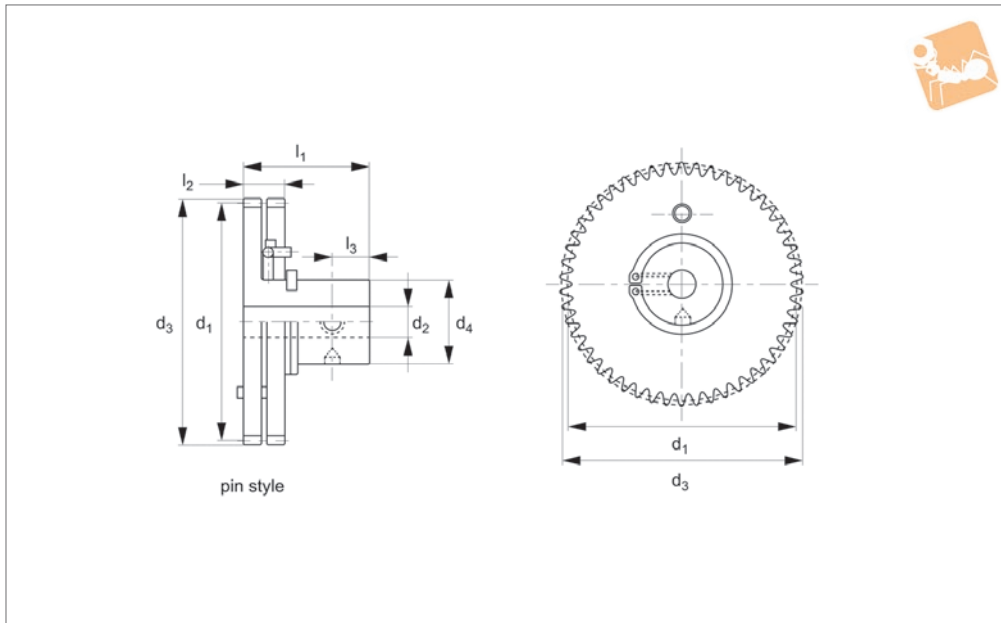




1,0 to 0,5 Module Anti-backlash stainless steel or aluminium pin hub



R2080

STANDARD SPUR GEARS

Material

Stainless steel (DIN 1,4305) or aluminium (DIN 3,1355 anodized before cutting).

Technical Notes

20° pressure angle, zero backlash.
Quality class DIN 7, AGMA 10.
The split gear design incorporates springs

which force the floating gear in a direction opposite to the rotation of the fixed gear, effectively enlarging the teeth width and overcoming the space, or backlash, between the teeth of the gear. Two types of design, one utilising scissor springs (figure

1), and the second, for larger diameter gears, utilising extension springs (figure 2).

Tips

Special versions available on request (e.g. different number of teeth, 14,5° pressure angle etc).

Order No.	No. of teeth	d ₁ p.d.	d ₂ tol. H8	d ₃	l ₁	l ₂	Module
R2080.1.0-18-S	18	18.0	8	20.0	14	6	1.0
R2080.1.0-21-S	21	21.0	8	23.0	14	6	1.0
R2080.1.0-24-S	24	24.0	8	26.0	14	6	1.0
R2080.0.8-24-S	24	19.2	8	20.8	14	6	0.8
R2080.0.8-28-S	28	22.4	8	24.0	14	6	0.8
R2080.0.8-32-S	32	25.6	8	27.2	14	6	0.8
R2080.0.6-28-S	28	16.8	8	18.0	14	6	0.6
R2080.0.6-32-S	32	19.2	8	20.4	14	6	0.6
R2080.0.6-36-S	36	21.6	8	22.8	14	6	0.6
R2080.0.5-36-S	36	18.0	8	19.0	14	6	0.5
R2080.0.5-42-S	42	21.0	8	22.0	14	6	0.5
R2080.0.5-48-S	48	24.0	8	25.0	14	6	0.5
R2080.1.0-18-A	18	18.0	8	20.0	14	6	1.0
R2080.1.0-21-A	21	21.0	8	23.0	14	6	1.0
R2080.1.0-24-A	24	24.0	8	26.0	14	6	1.0
R2080.0.8-24-A	24	19.2	8	20.8	14	6	0.8
R2080.0.8-28-A	28	22.4	8	24.0	14	6	0.8
R2080.0.8-32-A	32	25.6	8	27.2	14	6	0.8
R2080.0.6-28-A	28	16.8	8	18.0	14	6	0.6
R2080.0.6-32-A	32	19.2	8	20.4	14	6	0.6
R2080.0.6-36-A	36	21.6	8	22.8	14	6	0.6
R2080.0.5-36-A	36	18.0	8	19.0	14	6	0.5
R2080.0.5-42-A	42	21.0	8	22.0	14	6	0.5
R2080.0.5-48-A	48	24.0	8	25.0	14	6	0.5



R2082



Material
Carbon Steel

Quality class DIN 7, AGMA 10.

pressure angle, quality class DIN 5 & 3 etc).

Technical Notes
20° pressure angle.

Tips
Special versions available on request
(e.g. different number of teeth, 14.5°

Order No.	No. of teeth	d ₁	d ₂	d ₃	d ₄	w ₁	w ₂	w ₃	h
R2082.015-008	15	8	18	22.5	25.5	12	10	-	-
R2082.016-008	16	8	20	24	27	12	10	-	-
R2082.018-010	18	10	22	27	30	12	10	-	-
R2082.020-010	20	10	25	30	33	12	10	-	-
R2082.024-010	24	10	30	36	39	12	10	-	-
R2082.025-010	25	10	32	37.5	40.5	12	10	-	-
R2082.028-010	28	10	36	42	45	12	10	-	-
R2082.030-010	30	10	40	45	48	12	10	-	-
R2082.032-010	32	10	40	48	51	10	10	-	-
R2082.036-010	36	10	50	54	57	10	10	-	-
R2082.040-012	40	12	50	60	63	10	10	-	-
R2082.048-012	48	12	50	72	75	10	10	-	-
R2082.050-012	50	12	50	75	78	10	10	-	-
R2082.056-014	56	14	50	84	87	10	10	-	-
R2082.060-014	60	14	50	90	93	10	10	-	-
R2082.064-014	64	14	50	96	99	10	10	-	-
R2082.070-014	70	14	50	105	108	10	10	-	-
R2082.072-015	72	15	50	108	111	10	10	-	-
R2082.080-015	80	15	60	120	123	10	10	-	-
R2082.100-015	100	15	60	150	153	10	10	-	-
R2082.020-015-K	20	15	25	30	33	12	10	5	2.3
R2082.025-015-K	25	15	30	37.5	40.5	12	10	5	2.3
R2082.028-015-K	28	15	30	42	45	12	10	5	2.3
R2082.030-015-K	30	15	30	45	48	12	10	5	2.3
R2082.036-015-K	36	15	30	54	57	10	10	5	2.3
R2082.040-018-K	40	18	36	60	63	10	10	6	2.8
R2082.048-018-K	48	18	36	72	75	10	10	6	2.8
R2082.050-018-K	50	18	36	75	78	10	10	6	2.8
R2082.056-015-K	56	15	30	84	87	10	10	5	2.3
R2082.060-018-K	60	18	36	90	93	10	10	6	2.8
R2082.064-015-K	64	15	30	96	99	10	10	5	2.3
R2082.070-015-K	70	15	30	105	108	10	10	5	2.3
R2082.072-018-K	72	18	36	108	111	10	10	6	2.8
R2082.080-018-K	80	18	36	120	123	10	10	6	2.8



Spur Gears

Steel



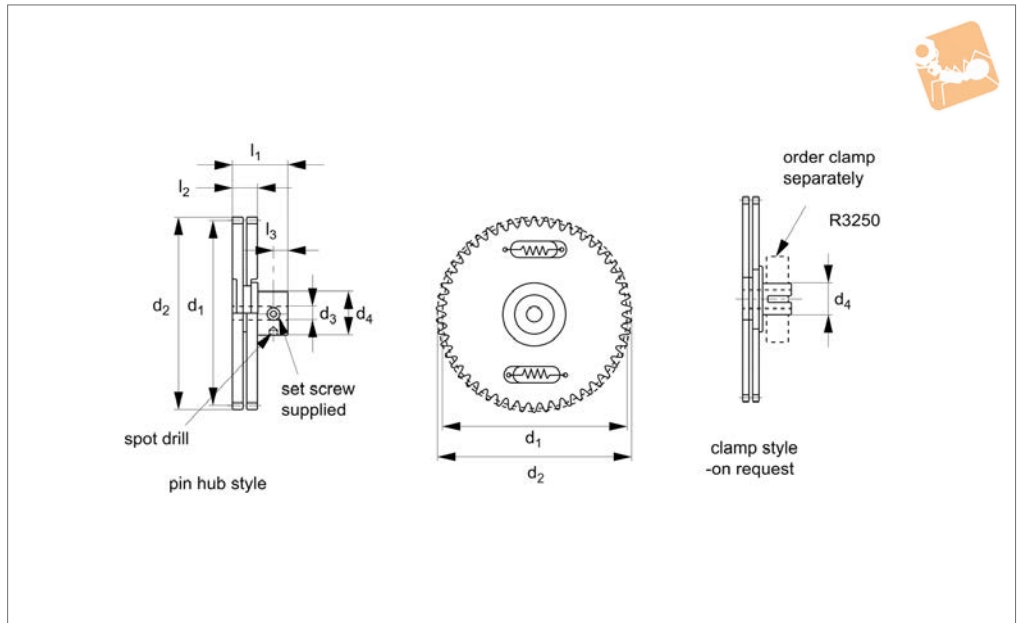
Standard Spur Gears

Order No.	No. of teeth	d_1	d_2	d_3	d_4	w_1	w_2	w_3	h
R2082.100-020-K	100	20	40	150	153	10	10	6	2.8

STANDARD SPUR GEARS



R2084



Material
A2 Stainless

Quality class DIN 7, AGMA 10.

pressure angle, quality class DIN 5 & 3 etc).

Technical Notes
20° pressure angle.

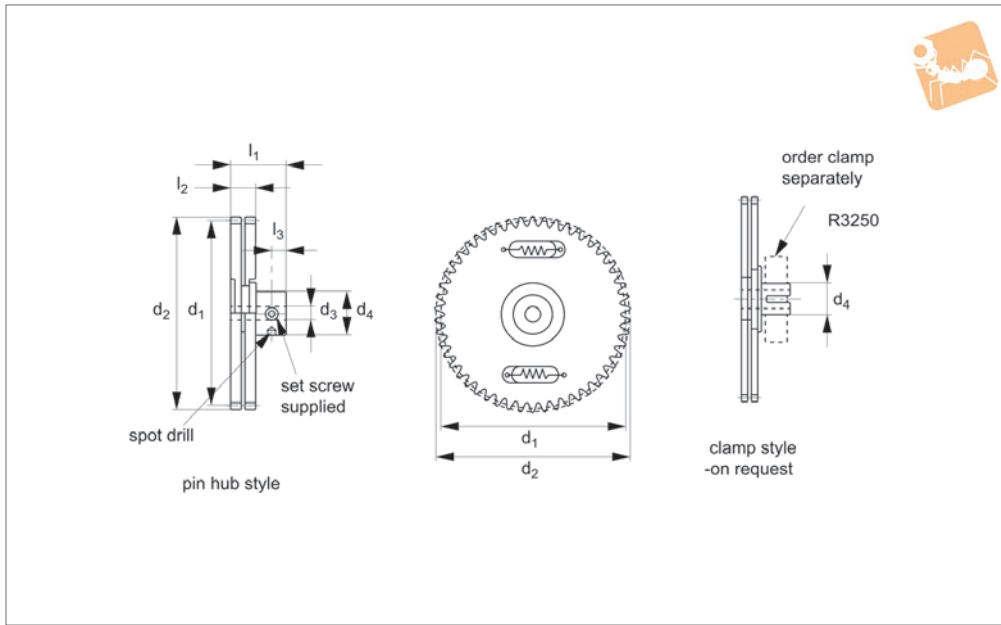
Tips
Special versions available on request (e.g. different number of teeth, 14.5°

Order No.	No. of teeth	d_1 p.d.	d_2	d_3	d_4	w_1	w_2
R2084.018-12-SS	18	12	20	27.0	30.0	25	12
R2084.020-12-SS	20	12	20	30.0	33.0	25	12
R2084.024-12-SS	24	12	20	36.0	39.0	25	12
R2084.028-12-SS	28	12	20	42.0	45.0	25	12
R2084.030-12-SS	30	12	20	45.0	48.0	25	12
R2084.032-12-SS	32	12	20	48.0	51.0	25	12
R2084.036-12-SS	36	12	20	54.0	57.0	25	12
R2084.040-12-SS	40	12	20	60.0	63.0	25	12
R2084.042-12-SS	42	12	20	63.0	66.0	25	12
R2084.045-12-SS	45	12	20	67.5	70.5	25	12
R2084.048-12-SS	48	12	20	72.0	75.0	25	12
R2084.050-12-SS	50	12	20	75.0	78.0	25	12
R2084.056-12-SS	56	12	20	84.0	87.0	25	12
R2084.060-12-SS	60	12	20	90.0	93.0	25	12
R2084.064-12-SS	64	12	20	96.0	99.0	25	12



Hubless Spur Gears

Stainless Steel



R2086

STANDARD SPUR GEARS

Material
A2 Stainless

Quality class DIN 7, AGMA 10.

pressure angle, quality class DIN 5 & 3 etc).

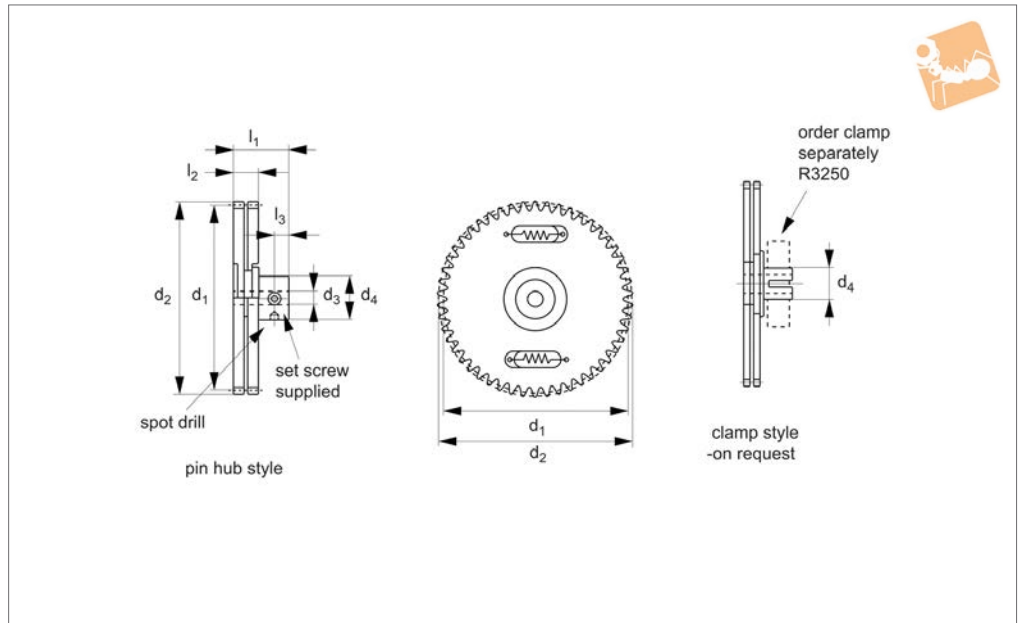
Technical Notes
20° pressure angle.

Tips
Special versions available on request (e.g. different number of teeth, 14.5°

Order No.	No. of teeth	d ₁ p.d.	d ₂	d ₃	w
R2086.018-16-SS	18	16	27.0	30.0	10
R2086.020-16-SS	20	16	30.0	33.0	10
R2086.024-16-SS	24	16	36.0	39.0	10
R2086.028-16-SS	28	16	42.0	45.0	10
R2086.030-16-SS	30	16	45.0	48.0	10
R2086.032-16-SS	32	16	48.0	51.0	10
R2086.036-16-SS	36	16	54.0	57.0	10
R2086.040-16-SS	40	16	60.0	63.0	10
R2086.042-16-SS	42	16	63.0	66.0	10
R2086.045-16-SS	45	16	67.5	70.5	10
R2086.048-16-SS	48	16	72.0	75.0	10
R2086.050-16-SS	50	16	75.0	78.0	10
R2086.056-16-SS	56	16	84.0	87.0	10
R2086.060-16-SS	60	16	90.0	93.0	10
R2086.064-16-SS	64	16	96.0	99.0	10



R2088



Material
Carbon Steel

ØH= 10 when bore=5mm
ØH= 13 when bore=8mm.

Tips
Special versions available on request (e.g. different number of teeth, 14.5° pressure angle, quality class DIN 5 & 3 etc).

Technical Notes
20° pressure angle.
Quality class DIN 7, AGMA 10.

Order No.	No. of teeth	Type	d ₁	d ₂	d ₃	d ₄	d ₅	w ₁	w ₂	w ₃	h
R2088.016-08-ST	16	W/o Keyway	8	-	-	24.0	27.0	18	-	-	-
R2088.018-10-ST	18	W/o Keyway	10	-	-	27.0	30.0	18	-	-	-
R2088.020-10-ST	20	W/o Keyway	10	-	-	30.0	33.0	18	-	-	-
R2088.024-12-ST	24	W/o Keyway	12	-	-	36.0	39.0	18	-	-	-
R2088.025-12-ST	25	W/o Keyway	12	-	-	37.5	40.5	18	-	-	-
R2088.028-12-ST	28	W/o Keyway	12	-	-	42.0	45.0	18	-	-	-
R2088.030-14-ST	30	W/o Keyway	14	-	-	45.0	48.0	18	-	-	-
R2088.032-14-ST	32	W/o Keyway	14	-	-	48.0	51.0	16	-	-	-
R2088.036-14-ST	36	W/o Keyway	14	-	-	54.0	57.0	16	-	-	-
R2088.040-14-ST	40	W/o Keyway	14	-	-	60.0	63.0	16	-	-	-
R2088.048-16-ST	48	W/o Keyway	16	-	-	72.0	75.0	16	-	-	-
R2088.050-16-ST	50	W/o Keyway	16	-	-	75.0	78.0	16	-	-	-
R2088.056-16-ST	56	W/o Keyway	16	-	-	84.0	87.0	16	-	-	-
R2088.060-16-ST	60	W/o Keyway	16	-	-	90.0	93.0	16	-	-	-
R2088.064-16-ST	64	W/o Keyway	16	-	-	96.0	99.0	16	-	-	-
R2088.070-16-ST	70	W/o Keyway	16	-	-	105.0	108.0	16	-	-	-
R2088.072-18-ST	72	W/o Keyway	18	-	-	108.0	111.0	18	-	-	-
R2088.080-18-ST	80	W/o Keyway	18	-	-	120.0	123.0	18	-	-	-
R2088.100-18-ST	100	W/o Keyway	18	-	-	150.0	153.0	18	-	-	-
R2088.020-14-ST	20	With Keyway	14	-	-	30.0	33.0	18	8	4	1.8
R2088.024-16-ST	24	With Keyway	16	-	-	36.0	39.0	18	8	5	2.3
R2088.025-16-ST	25	With Keyway	16	-	-	37.5	40.5	18	8	5	2.3
R2088.028-16-ST	28	With Keyway	16	-	-	42.0	45.0	18	8	5	2.3
R2088.030-18-ST	30	With Keyway	18	-	-	45.0	48.0	18	8	6	2.8
R2088.032-18-ST	32	With Keyway	18	-	-	48.0	51.0	16	8	6	2.8
R2088.036-18-ST	36	With Keyway	18	-	-	54.0	57.0	16	8	6	2.8
R2088.040-18-ST	40	With Keyway	18	-	-	60.0	63.0	16	8	6	2.8
R2088.048-20-ST	48	With Keyway	20	-	-	72.0	75.0	16	8	6	2.8
R2088.050-20-ST	50	With Keyway	20	-	-	75.0	78.0	16	8	6	2.8
R2088.056-20-ST	56	With Keyway	20	-	-	84.0	87.0	16	8	6	2.8
R2088.060-20-ST	60	With Keyway	20	40	76	90.0	93.0	16	8	6	2.8
R2088.064-20-ST	64	With Keyway	20	40	82	96.0	99.0	16	8	6	2.8
R2088.070-20-ST	70	With Keyway	20	40	91	105.0	108.0	16	8	6	2.8



Hubless Spur Gears

Steel

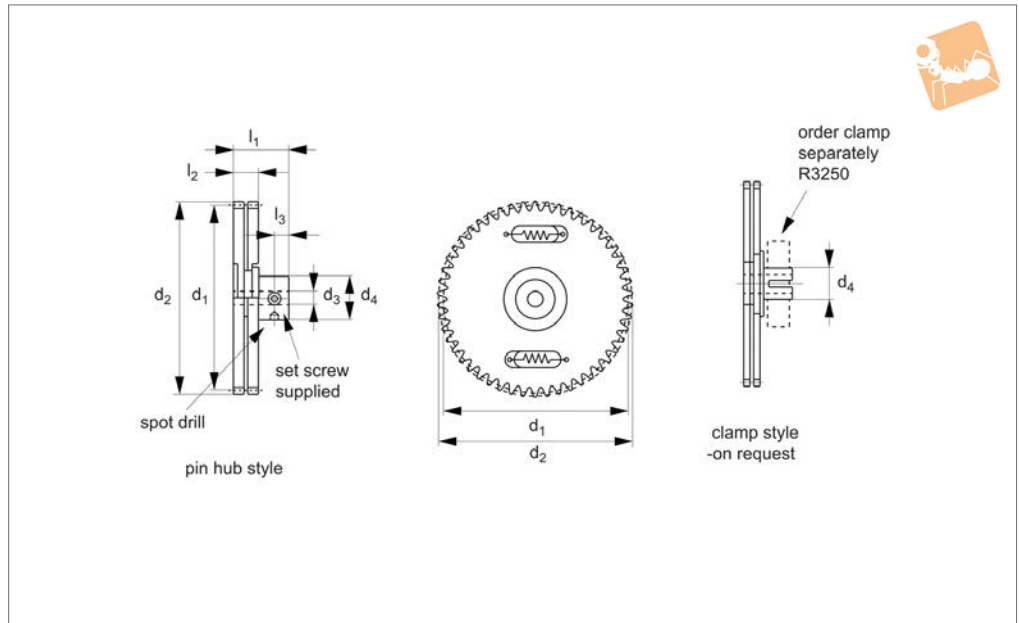


Standard Spur Gears

Order No.	No. of teeth	Type	d_1	d_2	d_3	d_4	d_5	w_1	w_2	w_3	h
R2088.072-25-ST	72	With Keyway	25	50	94	108.0	111.0	16	8	8	3.3
R2088.080-25-ST	80	With Keyway	25	50	106	120.0	123.0	16	8	8	3.3
R2088.100-25-ST	100	With Keyway	25	50	136	150.0	153.0	16	8	8	3.3



R2088.1



Material

Aluminium (DIN 3,1355 anodized before cutting).

Hub - stainless steel (DIN 1,4305).

Quality class DIN 7, AGMA 10.

ØH= 10 when bore=5mm

ØH= 13 when bore=8mm.

Tips

Special versions available on request (e.g. different number of teeth, 14.5° pressure angle, quality class DIN 5 & 3 etc).

Technical Notes

20° pressure angle.

Order No.	No. of teeth	d ₁ p.d.	d ₂ tol. H8	d ₃	l ₁	l ₂	Module
R2088.A065-08	65	39.0	8	40.2	10	3	0.6
R2088.A070-08	70	42.0	8	43.2	10	3	0.6
R2088.A072-08	72	43.2	8	44.4	10	3	0.6
R2088.A075-08	75	45.0	8	46.2	10	3	0.6
R2088.A080-08	80	48	8	49.2	10	3	0.6
R2088.A084-08	84	50.4	8	51.6	10	3	0.6
R2088.A085-08	85	51.0	8	52.2	10	3	0.6
R2088.A090-08	90	54.0	8	55.2	10	3	0.6
R2088.A095-08	95	57.0	8	58.2	10	3	0.6
R2088.A096-08	96	57.6	8	58.8	10	3	0.6
R2088.A100-08	100	60.0	8	61.2	10	3	0.6
R2088.A105-08	105	63.0	8	64.2	10	3	0.6
R2088.A110-08	110	66.0	8	67.2	10	3	0.6
R2088.A115-08	115	69.0	8	70.2	10	3	0.6
R2088.A120-08	120	72.0	8	73.2	10	3	0.6
R2088.A125-08	125	75.0	8	76.2	10	3	0.6
R2088.A130-08	130	78.0	8	79.2	10	3	0.6
R2088.A132-08	132	79.2	8	80.4	10	3	0.6
R2088.A140-08	140	84.0	8	85.2	10	3	0.6
R2088.A144-08	144	86.4	8	87.6	10	3	0.6
R2088.A150-08	150	90.0	8	91.2	10	3	0.6
R2088.A065-05	65	39.0	8	40.2	10	3	0.6
R2088.A070-05	70	42.0	8	43.2	10	3	0.6
R2088.A072-05	72	43.2	8	44.4	10	3	0.6
R2088.A075-05	75	45.0	8	46.2	10	3	0.6
R2088.A080-05	80	48.0	8	49.2	10	3	0.6
R2088.A084-05	84	50.4	8	51.6	10	3	0.6
R2088.A085-05	85	51.0	8	52.2	10	3	0.6
R2088.A090-05	90	54.0	8	55.2	10	3	0.6
R2088.A095-05	95	57.0	8	58.2	10	3	0.6
R2088.A096-05	96	57.6	8	58.8	10	3	0.6



0,6 Module Anti-backlash Gears

aluminium



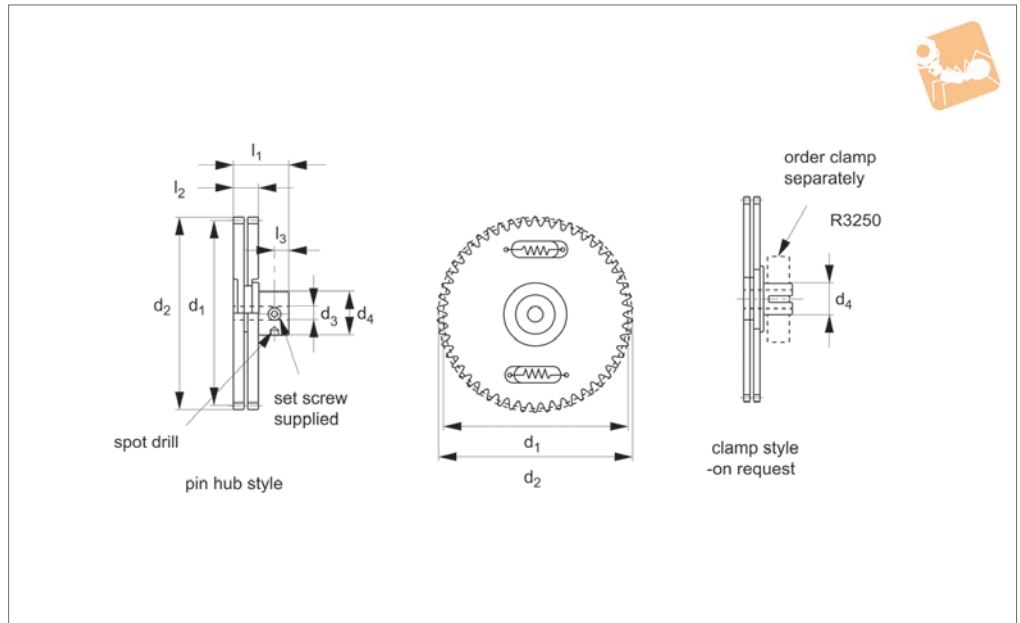
Standard Spur Gears

Order No.	No. of teeth	d ₁ p.d.	d ₂ tol. H8	d ₃	l ₁	l ₂	Module
R2088.A100-05	100	60.0	8	61.2	10	3	0.6
R2088.A105-05	105	63.0	8	64.2	10	3	0.6
R2088.A110-05	110	66.0	8	67.2	10	3	0.6
R2088.A115-05	115	69.0	8	70.2	10	3	0.6
R2088.A120-05	120	72.0	8	73.2	10	3	0.6
R2088.A125-05	125	75.0	8	76.2	10	3	0.6
R2088.A130-05	130	78.0	8	79.2	10	3	0.6
R2088.A132-05	132	79.2	8	80.4	10	3	0.6
R2088.A140-05	140	84.0	8	85.2	10	3	0.6
R2088.A144-05	144	86.4	8	87.6	10	3	0.6
R2088.A150-05	150	90.0	8	91.2	10	3	0.6

STANDARD SPUR GEARS



R2090



Material

Core - A2 Stainless Steel
 Gear - Machined from cast Nylon blocks

Quality class DIN 7, AGMA 10.
 $\emptyset H = 10$ when bore=5mm
 $\emptyset H = 13$ when bore=8mm.

(e.g. different number of teeth, 14.5° pressure angle, quality class DIN 5 & 3 etc).

Technical Notes

20° pressure angle.

Tips

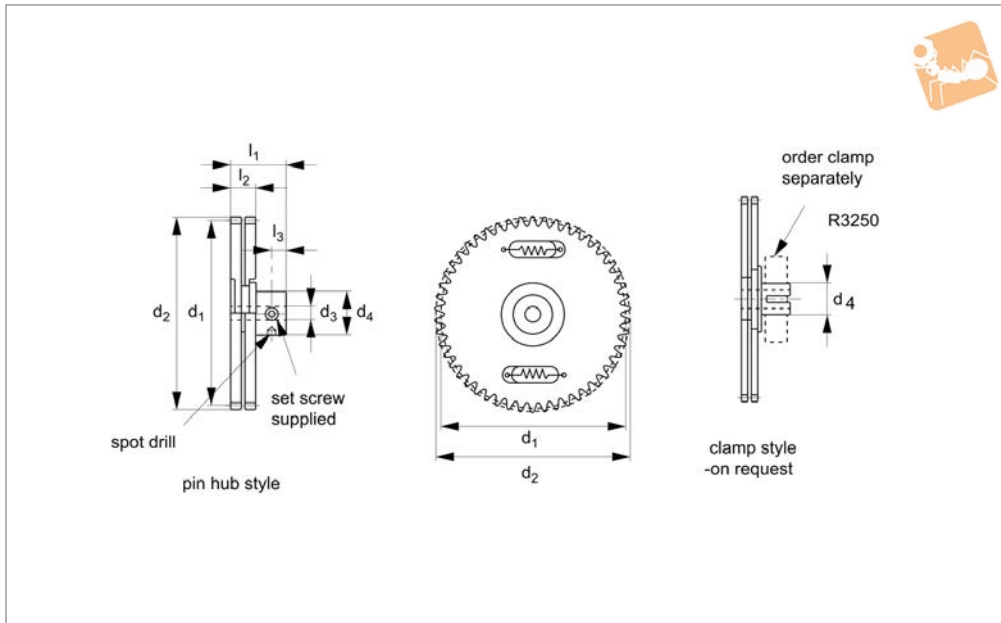
Special versions available on request

Order No.	No. of teeth	d ₁	d ₂	d ₃	d ₄	d ₅	w ₁	w ₂	w ₃
R2090.030-10	30	10	30	30	45.0	48.0	27	15	12
R2090.035-10	35	10	33	36	52.5	55.5	27	15	12
R2090.040-10	40	10	40	45	60.0	63.0	27	15	12
R2090.050-12	50	12	40	45	75.0	78.0	27	15	12
R2090.060-12	60	12	50	55	90.0	93.0	27	15	12
R2090.018-12	18	12	60	85	120.0	123.0	27	15	12



0,25 Module Anti-backlash Gears

stainless or aluminium



R2096

STANDARD SPUR GEARS

Material

Stainless steel (DIN 1,4305) or aluminium (DIN 3,1355 anodized before cutting).
Hub - stainless steel (DIN 1,4305).

Quality class DIN 7, AGMA 10.

ØH= 10 when bore=5mm
ØH= 13 when bore=8mm.

pressure angle, quality class DIN 5 & 3 etc).

Technical Notes

20° pressure angle.

Tips

Special versions available on request (e.g. different number of teeth, 14.5°

Order No.	No. of teeth	d ₁	d ₂	d ₃	d ₄	w ₁	w ₂	w ₃
R2096.015-12-SS	15	12	24	30	34	36	20	16
R2096.016-12-SS	16	12	26	32	36	36	20	16
R2096.018-12-SS	18	12	30	36	40	36	20	16
R2096.020-12-SS	20	12	32	40	44	36	20	16
R2096.022-12-SS	22	12	36	44	48	36	20	16
R2096.024-12-SS	24	12	38	48	52	36	20	16
R2096.025-12-SS	25	12	40	50	54	36	20	16
R2096.028-12-SS	28	12	45	56	60	36	20	16
R2096.030-12-SS	30	12	50	60	64	36	20	16