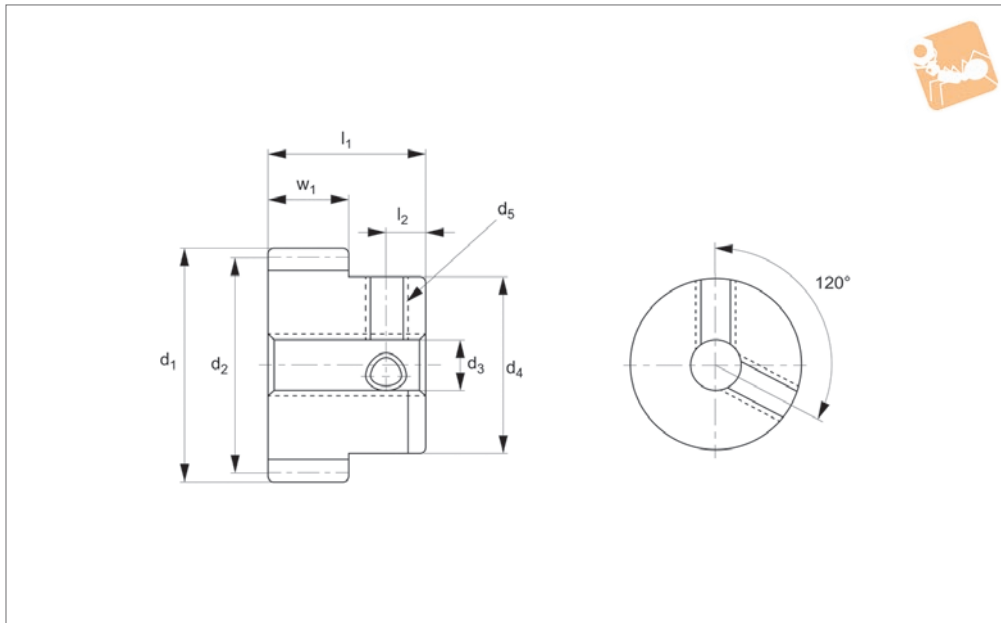




Spur Gears - Module 0.5 - Steel

carbon steel - 25-120 teeth



R5125

STANDARD SPUR GEARS

Material

Carbon steel (ISO C45) Accuracy to JIS B 1702-1 (ISO) Class 8-9. Gear tooth surface induction hardened to HRC 47-53.

Amount of backlash when assembling gears = 0,01 - 0,03mm.

Tips

For module 0.5 steel gears with fewer teeth, see R5121 & R5123.

standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Technical Notes

20° pressure angle, full depth tooth.

Max. allowable torque (Nm) is based on

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	d ₄	l ₁	l ₂	Thread d ₄	Torque Nm max.	Weight g
R5125.050-025-04	m 0.5	25	12.5	13.5	8	4	10	16	4	2xM 3	2.05	10.8
R5125.050-026-04	m 0.5	26	13.0	14.0	8	4	10	16	4	2xM 3	2.17	11.4
R5125.050-027-04	m 0.5	27	13.5	14.5	8	4	10	16	4	2xM 3	2.27	12.1
R5125.050-028-04	m 0.5	28	14.0	15.0	8	4	10	16	4	2xM 3	2.40	12.8
R5125.050-030-04	m 0.5	30	15.0	16.0	8	5	12	16	4	2XM 3	1.65	12.7
R5125.050-030-H4	m 0.5	30	15.0	16.0	5	4 tol. H*	12	13	-	-	1.75	12.7
R5125.050-030-05	m 0.5	30	15.0	16.0	8	5	12	16	4	2xM 3	2.63	15.4
R5125.050-032-05	m 0.5	32	16.0	17.0	5	5	12	13	4	2xM 3	1.80	12.7
R5125.050-035-05	m 0.5	35	17.5	18.5	5	5	12	13	4	2xM 3	2.02	14.2
R5125.050-036-05	m 0.5	36	18.0	19.0	5	5	12	13	4	2xM 3	2.10	14.8
R5125.050-040-04	m 0.5	40	20.0	21.0	5	4 tol.H8	15	13	-	-	2.40	22.1
R5125.050-040-H4	m 0.5	40	20.0	21.0	5	4 tol. H*	15	13	-	-	2.54	22.1
R5125.050-040-05	m 0.5	40	20.0	21.0	5	5	15	13	4	2xM 3	2.40	21.0
R5125.050-040-H5	m 0.5	42	21.0	22.0	5	5	15	13	4	2xM 3	2.56	22.3
R5125.050-044-05	m 0.5	44	22.0	23.0	5	5	15	13	4	2xM 3	2.71	23.6
R5125.050-045-05	m 0.5	45	22.5	23.5	5	5	15	13	4	2xM 3	2.79	24.3
R5125.050-048-05	m 0.5	48	24.0	25.0	5	5	15	13	4	2xM 3	3.02	26.4
R5125.050-050-04	m 0.5	50	25.0	26.0	5	4 tol.H8	18	13	-	-	3.16	33.9
R5125.050-050-H4	m 0.5	50	25.0	26.0	5	4 tol. H*	18	13	-	-	3.35	33.9
R5125.050-050-05	m 0.5	50	25.0	26.0	5	5	15	13	4	2xM 3	3.18	27.9
R5125.050-052-05	m 0.5	52	26.0	27.0	5	5	15	13	4	2xM 3	3.33	29.5
R5125.050-054-05	m 0.5	54	27.0	28.0	5	5	15	13	4	2xM 3	3.49	31.1
R5125.050-055-05	m 0.5	55	27.5	28.5	5	5	15	13	4	2xM 3	3.57	32.0
R5125.050-056-05	m 0.5	56	28.0	29.0	5	5	15	13	4	2xM 3	3.65	32.8
R5125.050-060-05	m 0.5	60	30.0	31.0	5	5	22	13	-	-	3.94	49.5
R5125.050-060-H5	m 0.5	60	30.0	31.0	5	5 tol. H*	22	13	-	-	4.18	49.5
R5125.050-060-06	m 0.5	60	30.0	31.0	5	6	18	13	4	2xM 4	3.96	39.9
R5125.050-064-06	m 0.5	64	32.0	33.0	5	6	18	13	4	2xM 4	4.28	43.7
R5125.050-070-05	m 0.5	70	35.0	36.0	5	5	25	13	-	-	4.73	66.5
R5125.050-070-H5	m 0.5	70	35.0	36.0	5	5 tol. H*	25	13	-	-	5.01	66.5



Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	d ₄	l ₁	l ₂	Thread d ₄	Torque Nm max.	Weight g
R5125.050-070-06	m 0.5	70	35.0	36.0	5	6	18	13	4	2xM 4	4.76	49.9
R5125.050-072-06	m 0.5	72	36.0	37.0	5	6	18	13	4	2xM 4	4.92	52.1
R5125.050-075-06	m 0.5	75	37.5	38.5	5	6	18	13	4	2xM 4	5.16	55.5
R5125.050-080-06	m 0.5	80	40.0	41.0	5	6	28	13	-	-	5.52	85.0
R5125.050-080-H6	m 0.5	80	40.0	41.0	5	6 tol. H*	28	13	-	-	5.85	85.0
R5125.050-080-08	m 0.5	80	40.0	41.0	5	8	22	13	4	2xM 4	5.56	67.0
R5125.050-090-06	m 0.5	90	45.0	46.0	5	6	32	13	-	-	6.31	109.9
R5125.050-090-H6	m 0.5	90	45.0	46.0	5	6 tol. H*	32	13	-	-	6.69	109.9
R5125.050-090-08	m 0.5	90	45.0	46.0	5	8	22	13	4	2xM 4	6.36	80.1
R5125.050-096-08	m 0.5	96	48.0	49.0	5	8	22	13	4	2xM 4	6.84	88.7
R5125.050-100-06	m 0.5	100	50.0	51.0	5	6	35	13	-	-	7.10	134.4
R5125.050-100-H6	m 0.5	100	50.0	51.0	5	6 tol. H*	35	13	-	-	7.53	134.4
R5125.050-100-08	m 0.5	100	50.0	51.0	5	8	25	13	4	2xM 4	7.16	101.4
R5125.050-110-08	m 0.5	110	55.0	56.0	5	8	25	13	4	2xM 4	7.97	117.6
R5125.050-120-06	m 0.5	120	60.0	61.0	5	6	42	13	-	-	8.70	194.9
R5125.050-120-H6	m 0.5	120	60.0	61.0	5	6 tol. H*	42	13	-	-	9.23	194.9
R5125.050-120-08	m 0.5	120	60.0	61.0	5	8	25	13	4	2xM 4	8.78	135.4