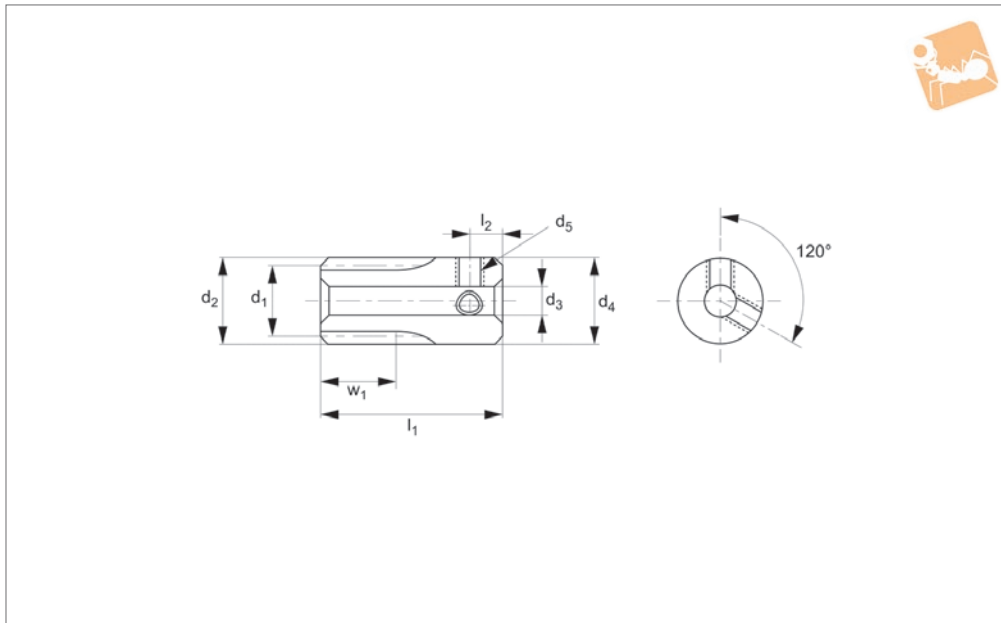




Spur Gears - Module 1

stainless steel - 14-16 teeth



R5163

STANDARD SPUR GEARS

Material

Stainless steel (SUS 304, JIS G 4303).
Accuracy to JIS B 1702-1 (ISO) class 9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,06 - 0,12mm.

Tips

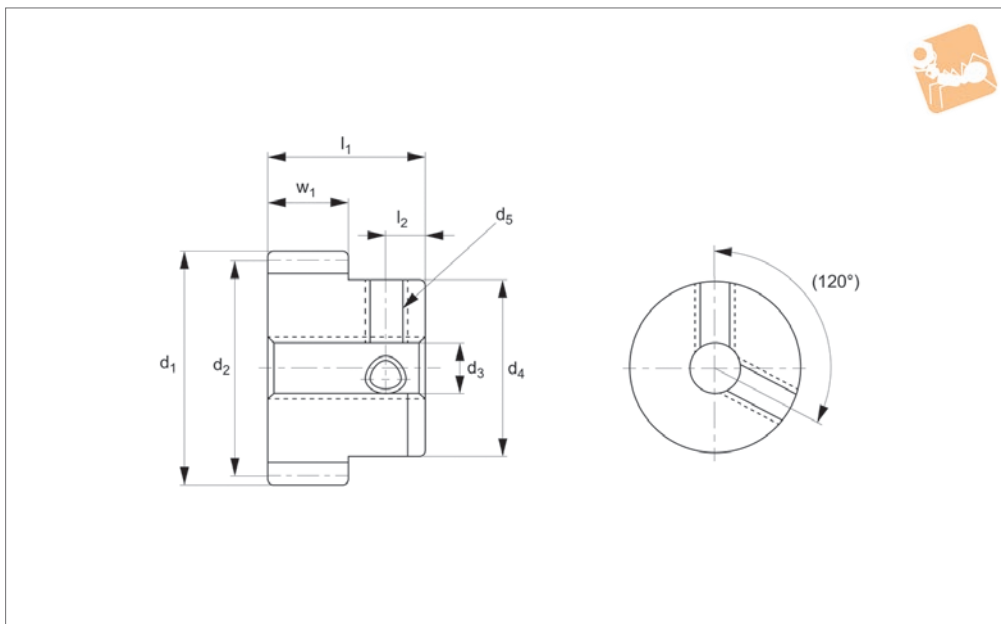
For stainless steel module 1 gears with 17-120 teeth, see R5165.
Max. allowable torque (Nm) is based on standard operating conditions (see tech-

nical 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5163.100-014	m 1	14	14	16	8	6	16	25	4	2xM 4	1.69	30.4
R5163.100-015	m 1	15	15	17	8	6	17	25	4	2xM 4	1.89	35.3
R5163.100-016	m 1	16	16	18	8	6	18	25	4	2xM 4	2.10	40.5



R5165



Material

Stainless steel (SUS 304, JIS G 4303).
Accuracy to JIS B 1702-1 (ISO) class 9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,06 - 0,12mm.

Tips

For stainless steel module 1 gears with 14-16 teeth, see R5163.

Max. allowable torque (Nm) is based on 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5165.100-017-08	m 1	17	17	19	8	6	14	16	4	2xM 4	2.31	19.9
R5165.100-018-08	m 1	18	18	20	8	6	14	16	4	2xM 4	2.53	21.7
R5165.100-018-10	m 1	18	18	20	10	6	14	20	4	2xM 4	3.16	27.2
R5165.100-020-08	m 1	20	20	22	8	6	16	16	4	2xM 4	2.97	28.3
R5165.100-020-10	m 1	20	20	22	10	6	16	20	4	2xM 4	3.71	35.5
R5165.100-021-08	m 1	21	21	23	8	6	18	16	4	2xM 4	3.19	33.5
R5165.100-022-08	m 1	22	22	24	8	6	18	16	4	2xM 4	3.41	35.7
R5165.100-024-08	m 1	24	24	26	8	6	18	16	4	2xM 4	3.87	40.3
R5165.100-024-10	m 1	24	24	26	10	6	18	20	4	2xM 4	4.84	50.6
R5165.100-025-08	m 1	25	25	27	8	6	18	16	4	2xM 4	4.10	42.7
R5165.100-025-10	m 1	25	25	27	10	6	20	20	4	2xM 4	5.12	58.2
R5165.100-026-08	m 1	26	26	28	8	6	20	16	4	2xM 4	4.33	48.9
R5165.100-028-08	m 1	28	28	30	8	6	20	16	4	2xM 4	4.80	54.2
R5165.100-028-10	m 1	28	28	30	10	6	20	20	4	2xM 4	6.00	68.1
R5165.100-030-08	m 1	30	30	32	8	6	24	16	4	2xM 4	5.27	68.5
R5165.100-030-10	m 1	30	30	32	8	6	24	20	4	2xM 4	6.68	86.0
R5165.100-032-06	m 1	32	32	34	10	6	24	16	4	2xM 4	4.31	69.1
R5165.100-034-06	m 1	34	34	36	6	6	24	16	4	2xM 4	4.67	74.0
R5165.100-035-06	m 1	35	35	37	6	6	24	16	4	2xM 4	4.85	76.6
R5165.100-036-06	m 1	36	36	38	6	8	24	16	4	2xM 4	5.03	76.6
R5165.100-040-06	m 1	40	40	42	6	8	28	16	4	2xM 4	5.77	100.6
R5165.100-042-06	m 1	42	42	44	6	8	28	16	4	2xM 4	6.14	106.7
R5165.100-044-06	m 1	44	44	46	6	8	28	16	4	2xM 4	6.50	113.1
R5165.100-045-06	m 1	45	45	47	6	8	28	16	4	2xM 4	6.69	116.5
R5165.100-048-06	m 1	48	48	50	6	8	28	16	4	2xM 4	7.25	126.9
R5165.100-050-06	m 1	50	50	52	6	8	28	16	4	2xM 4	7.62	134.2
R5165.100-052-06	m 1	52	52	54	6	8	28	16	5	2xM 5	8.00	140.9
R5165.100-054-06	m 1	54	54	56	6	8	28	16	5	2xM 5	8.38	148.8
R5165.100-056-06	m 1	56	56	58	6	10	30	16	5	2xM 5	8.75	160.6
R5165.100-060-06	m 1	60	60	62	6	10	30	16	5	2xM 5	9.51	178.0



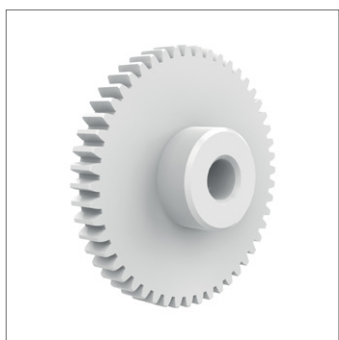
Spur Gears - Module 1

stainless steel - 17-120 teeth

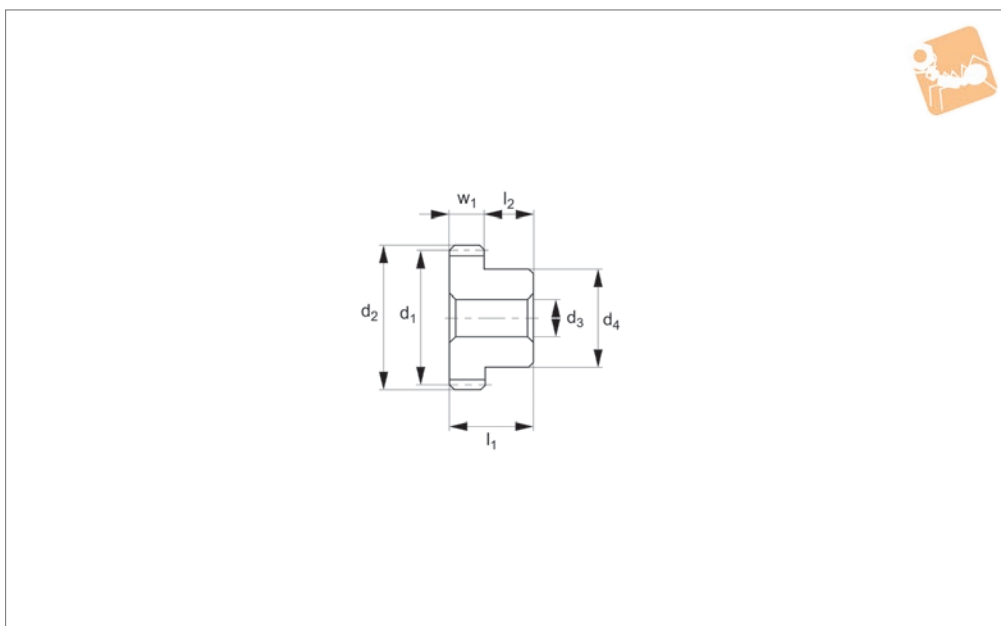


Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H8	d_4	l_1	l_2	Thread d_5	Torque Nm max.	Weight g
R5165.100-064-06	m 1	64	64	66	6	10	30	16	5	2xM 5	10.27	196.5
R5165.100-070-06	m 1	70	70	72	6	10	30	16	5	2xM 5	11.42	226.6
R5165.100-072-06	m 1	72	72	74	6	10	30	16	5	2xM 5	11.80	237.2
R5165.100-080-06	m 1	80	80	82	6	10	30	16	5	2xM 5	13.34	282.6
R5165.100-090-06	m 1	90	90	92	6	10	30	16	5	2xM 5	15.26	346.1
R5165.100-100-06	m 1	100	100	102	6	10	30	16	5	2xM 5	17.19	417.1
R5165.100-120-06	m 1	120	120	122	6	10	30	16	5	2xM 5	21.08	581.6

STANDARD SPUR GEARS



R5166



Material

White polyacetal (PA, also known as polyoxymethylene/POM), machined.
Accuracy to JIS B 1702-1 (ISO) class 9-10.

Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling gears = 0,06 - 0,12mm.

Tips

For module 1 white polyacetal gears with set screws see R5169 & R5170. Max. allowable torque (Nm) is based on 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H9	d ₄	l ₁	l ₂	Torque Nm max.	Weight g
R5166.100-017	m 1	17	17	19	8	6	14	16	8	0.80	3.7
R5166.100-018	m 1	18	18	20	8	8	15	16	8	0.84	3.7
R5166.100-020	m 1	20	20	22	8	8	16	16	8	0.94	4.7
R5166.100-022	m 1	22	22	24	8	8	18	16	8	1.03	6.0
R5166.100-023	m 1	23	23	25	8	8	18	16	8	1.08	6.4
R5166.100-024	m 1	24	24	26	8	8	18	16	8	1.12	6.8
R5166.100-025	m 1	25	25	27	8	8	18	16	8	1.17	7.3
R5166.100-026	m 1	26	26	28	8	8	20	16	8	1.22	8.4
R5166.100-028	m 1	28	28	30	8	8	20	16	8	1.31	9.4
R5166.100-030	m 1	30	30	32	8	8	20	16	8	1.40	10.4
R5166.100-032	m 1	32	32	34	6	8	20	14	8	2.00	9.4
R5166.100-034	m 1	34	34	36	6	8	20	14	8	2.13	10.2
R5166.100-035	m 1	35	35	37	6	8	20	14	8	2.19	10.7
R5166.100-036	m 1	36	36	38	6	8	20	14	8	2.25	11.2
R5166.100-038	m 1	38	38	40	6	8	20	14	8	2.38	12.2
R5166.100-040	m 1	40	40	42	6	8	20	14	8	2.50	13.2
R5166.100-042	m 1	42	42	44	6	8	20	14	8	2.63	14.3
R5166.100-044	m 1	44	44	46	6	8	20	14	8	2.75	15.4
R5166.100-045	m 1	45	45	47	6	8	20	14	8	2.91	16.0
R5166.100-048	m 1	48	48	50	6	8	20	14	8	3.00	17.9
R5166.100-050	m 1	50	50	52	6	8	20	14	8	3.13	19.2
R5166.100-052	m 1	52	52	54	6	8	20	14	8	3.25	20.5
R5166.100-055	m 1	55	55	57	6	8	20	14	8	3.44	22.7
R5166.100-056	m 1	56	56	58	6	8	20	14	8	3.50	23.4
R5166.100-060	m 1	60	60	62	6	8	20	14	8	3.75	26.5
R5166.100-064	m 1	64	64	66	6	8	20	14	8	4.00	29.8
R5166.100-070	m 1	70	70	72	6	8	20	14	8	4.38	35.1
R5166.100-072	m 1	72	72	74	6	8	20	14	8	4.50	37.0
R5166.100-080	m 1	80	80	82	6	8	20	14	8	5.00	45.1
R5166.100-090	m 1	90	90	92	6	8	30	14	8	5.62	60.8



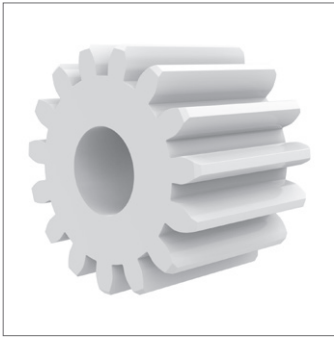
Spur Gears - Module 1 - Plastic

white polyacetal - 17-120 teeth

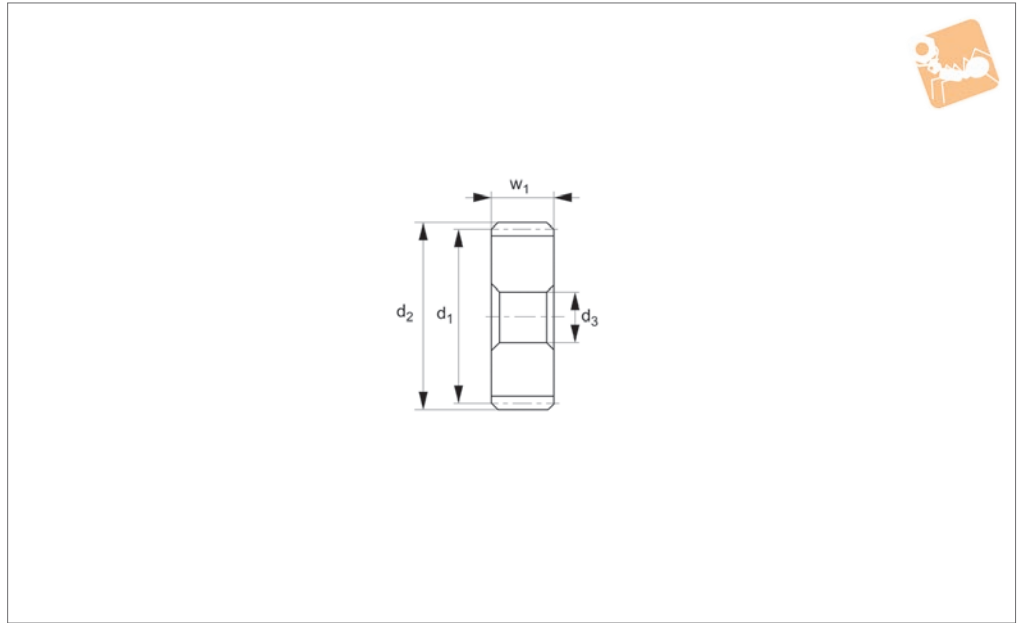


Standard Spur Gears

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H9	d_4	l_1	l_2	Torque Nm max.	Weight g
R5166.100-100	m 1	100	100	102	6	8	30	14	8	6.25	73.4
R5166.100-120	m 1	120	120	122	6	8	30	14	8	7.49	102.7



R5167



Material

White polyacetal, machined.
Accuracy to JIS B 1702-1 (ISO) class 9-10.

Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling gears = 0,06 - 0,12mm.

Tips

Module 1 for gears with 17-120 teeth see R5169. Max. allowable torque (Nm) is

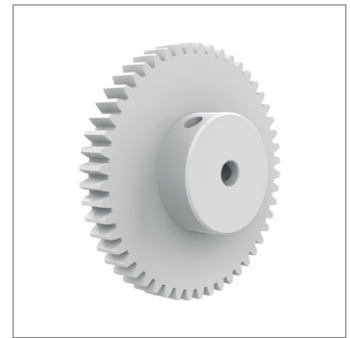
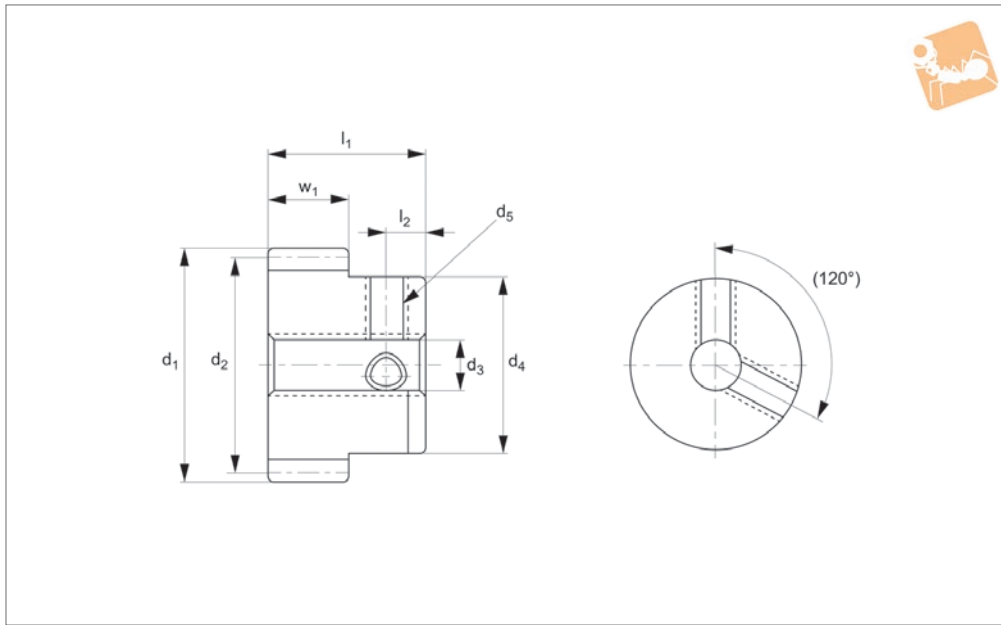
based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H9	Torque Nm max.	Weight g
R5167.100-012	m 1	12	12	14	12	6	0.84	1.4
R5167.100-014	m 1	14	14	16	12	6	0.98	2.1
R5167.100-015	m 1	15	15	17	12	6	1.05	2.5
R5167.100-016	m 1	16	16	18	12	6	1.12	2.9



Spur Gears - Module 1 - Plastic

white polyacetal - set screw - 17-120 teeth



R5169

STANDARD SPUR GEARS

Material

White polyacetal, machined.
Accuracy to JIS B 1702-1 (ISO) class 9 - 10.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,06-0,12mm.

Tips

Module 1 for gears with 12-16 teeth see R5167.
Max. allowable torque (Nm) is based on standard operating conditions (see tech-

nical 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H9	d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5169.100-017	m 1	17	17	19	8	4	14	16	4	2xM 4	0.80	4.0
R5169.100-018	m 1	18	18	20	8	4	15	16	4	2xM 4	0.84	4.5
R5169.100-020	m 1	20	20	22	8	5	16	16	4	2xM 4	0.94	5.3
R5169.100-022	m 1	22	22	24	8	5	18	16	4	2xM 4	1.03	6.7
R5169.100-023	m 1	23	23	25	8	5	20	16	4	2xM 4	1.08	7.7
R5169.100-024	m 1	24	24	26	8	5	20	16	4	2xM 4	1.12	8.2
R5169.100-025	m 1	25	25	27	8	5	22	16	4	2xM 4	1.17	9.3
R5169.100-026	m 1	26	26	28	8	5	22	16	4	2xM 4	1.22	9.8
R5169.100-028	m 1	28	28	30	8	5	24	16	4	2xM 4	1.31	11.6
R5169.100-030	m 1	30	30	32	8	5	24	16	4	2xM 4	1.40	12.6
R5169.100-032	m 1	32	32	34	6	5	24	14	4	2xM 4	2.00	11.5
R5169.100-034	m 1	34	34	36	6	5	24	14	4	2xM 4	2.13	12.4
R5169.100-035	m 1	35	35	37	6	5	24	14	4	2xM 4	2.19	12.8
R5169.100-036	m 1	36	36	38	6	5	24	14	4	2xM 4	2.25	13.3
R5169.100-038	m 1	38	38	40	6	5	24	14	4	2xM 4	2.38	14.3
R5169.100-040	m 1	40	40	42	6	5	24	14	4	2xM 4	2.50	15.3
R5169.100-042	m 1	42	42	44	6	5	24	14	4	2xM 4	2.63	16.4
R5169.100-044	m 1	44	44	46	6	5	24	14	4	2xM 4	2.75	17.5
R5169.100-045	m 1	45	45	47	6	5	24	14	4	2xM 4	2.91	18.1
R5169.100-048	m 1	48	48	50	6	5	24	14	4	2xM 4	3.00	20.0
R5169.100-050	m 1	50	50	52	6	5	24	14	4	2xM 4	3.13	21.3
R5169.100-052	m 1	52	52	54	6	5	24	14	4	2xM 4	3.25	22.6
R5169.100-055	m 1	55	55	57	6	5	24	14	4	2xM 4	3.44	24.8
R5169.100-056	m 1	56	56	58	6	5	24	14	4	2xM 4	3.50	25.5
R5169.100-060	m 1	60	60	62	6	5	24	14	4	2xM 4	3.75	28.6
R5169.100-064	m 1	64	64	66	6	5	24	14	4	2xM 4	4.00	31.9
R5169.100-070	m 1	70	70	72	6	5	24	14	4	2xM 4	4.38	37.2
R5169.100-072	m 1	72	72	74	6	5	24	14	4	2xM 4	4.50	39.1
R5169.100-080	m 1	80	80	82	6	5	24	14	4	2xM 4	5.00	47.2
R5169.100-090	m 1	90	90	92	6	5	24	14	4	2xM 4	5.62	58.5



Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H9	d_4	l_1	l_2	Thread d_5	Torque Nm max.	Weight g
R5169.100-100	m 1	100	100	102	6	5	24	14	4	2xM 4	6.25	71.1
R5169.100-120	m 1	120	120	122	6	5	24	14	4	2xM 4	7.49	100.4

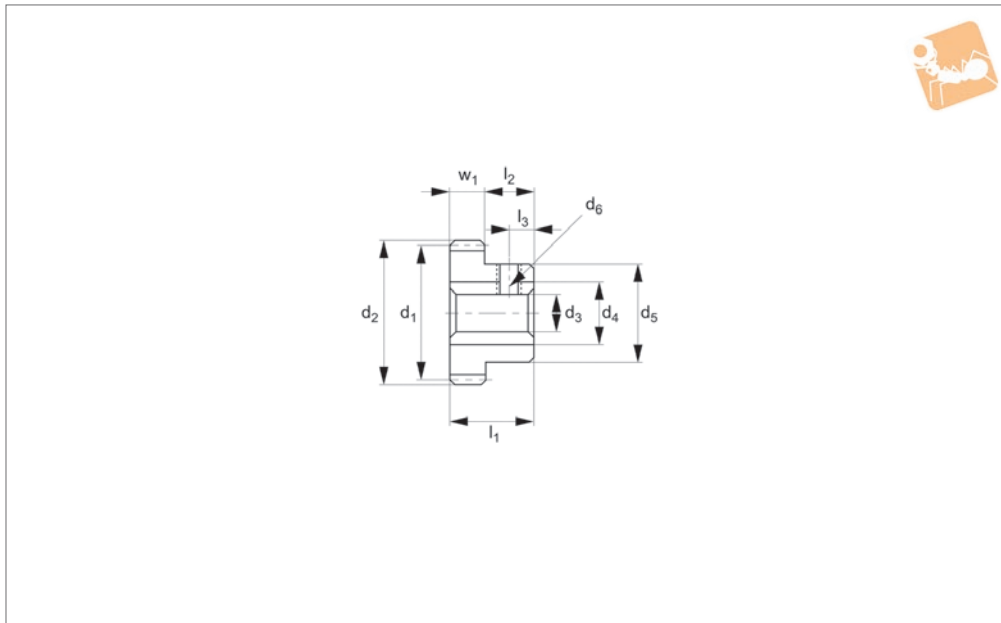


Spur Gears - Module 1 - Plastic

white polyacetal - brass bush - 20-120 teeth



Standard Spur Gears



R5170

STANDARD SPUR GEARS

Material

White polyacetal, with brass bushing.
Accuracy to JIS B 1702-1 (ISO) class 9-10.

Technical Notes

20° pressure angle, full depth tooth.

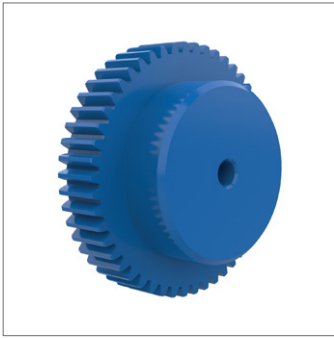
Amount of backlash when assembling gears = 0,06 - 0,12mm.

Tips

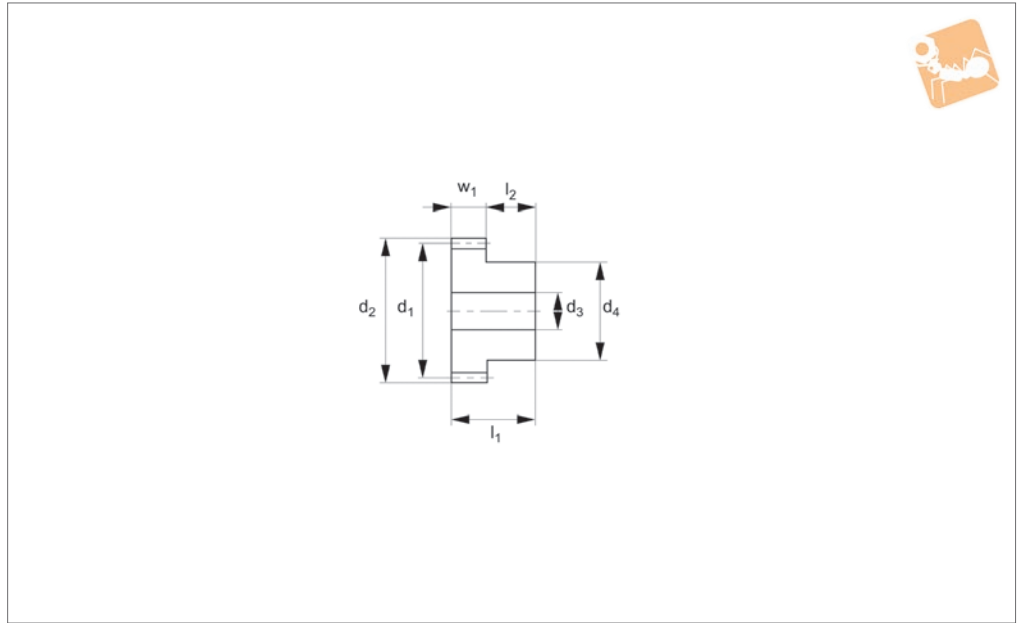
Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Max. allowable torque (Nm) is based on 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	d ₆	l ₁	l ₂	l ₃	Thread d ₅	Torque Nm max.	Weight g
R5170.100-020	m 1	20	20	22	10	8	16	12	20	10	4	M 4	1.54	16.8
R5170.100-024	m 1	24	24	26	10	8	20	12	20	10	4	M 4	1.84	17.5
R5170.100-025	m 1	25	25	27	10	8	20	12	20	10	4	M 4	1.92	18.0
R5170.100-028	m 1	28	28	30	10	10	24	16	20	10	4	M 4	2.15	35.0
R5170.100-030	m 1	30	30	32	10	10	24	16	20	10	4	M 4	2.30	36.4
R5170.100-032	m 1	32	32	34	10	10	24	16	20	10	4	M 4	2.46	37.8
R5170.100-036	m 1	36	36	38	10	10	30	16	20	10	4	M 4	2.76	38.0
R5170.100-040	m 1	40	40	42	10	10	30	16	20	10	4	M 4	3.07	41.4
R5170.100-045	m 1	45	45	47	10	10	30	16	20	10	4	M 4	3.45	46.1
R5170.100-048	m 1	48	48	50	10	10	30	16	20	10	4	M 4	3.68	49.2
R5170.100-050	m 1	50	50	52	10	10	30	16	20	10	4	M 4	3.84	51.4
R5170.100-056	m 1	56	56	58	10	10	30	16	20	10	4	M 4	4.29	58.5
R5170.100-060	m 1	60	60	62	10	10	30	16	20	10	4	M 4	4.60	63.7
R5170.100-064	m 1	64	64	66	10	10	30	16	20	10	4	M 4	4.91	69.2
R5170.100-070	m 1	70	70	72	10	10	30	16	20	10	4	M 4	5.37	78.2
R5170.100-072	m 1	72	72	74	10	10	30	16	20	10	4	M 4	5.52	81.4
R5170.100-080	m 1	80	80	82	10	10	30	16	20	10	4	M 4	6.13	94.9
R5170.100-090	m 1	90	90	92	10	10	30	16	20	10	4	M 4	6.89	113.9
R5170.100-100	m 1	100	100	102	10	10	30	16	20	10	4	M 4	7.66	135.1
R5170.100-120	m 1	120	120	122	10	10	30	16	20	10	4	M 4	9.18	184.1



R5172



Material

Blue polyacetal, machined.
Accuracy to JIS B 1702-1 (ISO) class 9 - 10.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling gears = 0,06 - 0,12mm.

Blue polyacetal machined gears are suitable for use in food machinery applications. Approved by the FDA (USA) and by regulators in the EU and Japan, where the food has an alcohol percentage of <15%. Please clean gears thoroughly before use.

Tips

Max. allowable torque (Nm) is based on 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H9	d ₄	l ₁	l ₂	Torque Nm max.	Weight g
R5172.100-012	m 1	12	12	14	10	4	8	20	10	0.69	1.9
R5172.100-014	m 1	14	14	16	10	4	10	20	10	0.92	2.9
R5172.100-015	m 1	15	15	17	10	4	10	20	10	1.02	3.2
R5172.100-016	m 1	16	16	18	10	4	12	20	10	1.12	4.0
R5172.100-017	m 1	17	17	19	10	4	14	20	10	1.21	5.0
R5172.100-018	m 1	18	18	20	10	4	15	20	10	1.31	5.7
R5172.100-020	m 1	20	20	22	10	5	16	20	10	1.54	6.6
R5172.100-022	m 1	22	22	24	10	5	18	20	10	1.61	8.3
R5172.100-023	m 1	23	23	25	10	5	20	20	10	1.71	9.7
R5172.100-024	m 1	24	24	26	10	5	20	20	10	1.84	10.2
R5172.100-025	m 1	25	25	27	10	5	22	20	10	1.92	11.6
R5172.100-026	m 1	26	26	28	10	5	22	20	10	1.99	12.2
R5172.100-028	m 1	28	28	30	10	5	24	20	10	2.15	14.4
R5172.100-030	m 1	30	30	32	10	5	24	20	10	2.30	15.7
R5172.100-032	m 1	32	32	34	10	5	24	20	10	2.46	17.1
R5172.100-034	m 1	34	34	36	10	5	24	20	10	2.67	18.5
R5172.100-035	m 1	35	35	37	10	5	24	20	10	2.59	19.3
R5172.100-036	m 1	36	36	38	10	5	26	20	10	2.76	21.2
R5172.100-038	m 1	38	38	40	10	5	28	20	10	2.94	24.0
R5172.100-040	m 1	40	40	42	10	5	30	20	10	3.07	27.0
R5172.100-042	m 1	42	42	44	10	5	30	20	10	3.21	28.8
R5172.100-044	m 1	44	44	46	10	5	32	20	10	3.39	32.1
R5172.100-045	m 1	45	45	47	10	5	32	20	10	3.45	33.1
R5172.100-048	m 1	48	48	50	10	5	36	20	10	3.68	39.2
R5172.100-050	m 1	50	50	52	10	5	36	20	10	3.84	41.4
R5172.100-052	m 1	52	52	54	10	5	40	20	10	4.03	47.0
R5172.100-055	m 1	55	55	57	10	5	40	20	10	4.23	50.5
R5172.100-056	m 1	56	56	58	10	5	40	20	10	4.29	51.7
R5172.100-060	m 1	60	60	62	10	5	46	20	10	4.60	62.6



Spur Gears - Module 1 - Plastic

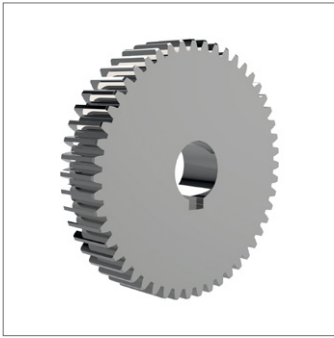
blue polyacetal - 12-120 teeth



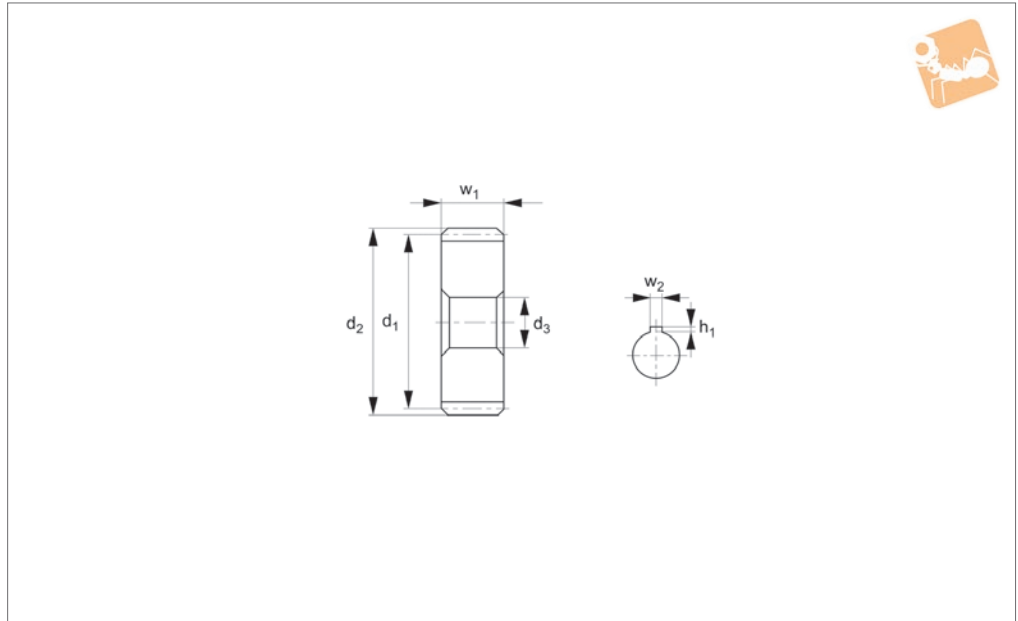
Standard Spur
Gears

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H9	d_4	l_1	l_2	Torque Nm max.	Weight g
R5172.100-064	m 1	64	64	66	10	5	48	20	10	4.91	70.2
R5172.100-065	m 1	65	65	67	10	5	48	20	10	4.97	71.6
R5172.100-070	m 1	70	70	72	10	5	52	20	10	5.37	83.5
R5172.100-072	m 1	72	72	74	10	5	52	20	10	5.52	86.6
R5172.100-075	m 1	75	75	77	10	5	52	20	10	5.81	91.5
R5172.100-080	m 1	80	80	82	10	5	58	20	10	6.13	107.4
R5172.100-085	m 1	85	85	87	10	5	62	20	10	6.44	121.8
R5172.100-090	m 1	90	90	92	10	5	65	20	10	6.89	135.7
R5172.100-100	m 1	100	100	102	10	5	70	20	10	7.66	164.0
R5172.100-120	m 1	120	120	122	10	5	84	20	10	9.18	236.8

STANDARD SPUR GEARS



R5173



Material

Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8-9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,04 - 0,10mm.

Tips

Module 1 for gears with 8-10 teeth see R5175 & R5176, for gears with 12-18 teeth see R5177, for gears with 14-120 teeth with set screw see R5179.

Max. allowable torque (Nm) is based on 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	Keyway (w ₂ x h ₁)	Torque Nm max.	Weight g
R5173.100-050-06-10	m 1	50	50	52	6	10	-	14.32	89
R5173.100-050-06-12	m 1	50	50	52	6	12	4×1,8	14.32	87
R5173.100-050-10-08	m 1	50	50	52	10	8	-	24.83	151
R5173.100-050-10-10	m 1	50	50	52	10	10	3×1,4	24.83	148
R5173.100-050-10-12	m 1	50	50	52	10	12	4×1,8	24.83	145
R5173.100-050-10-15	m 1	50	50	52	10	15	5×2,3	24.83	140
R5173.100-052-06-10	m 1	52	52	54	6	10	-	15.28	97
R5173.100-052-10-10	m 1	52	52	54	10	10	-	25.78	161
R5173.100-054-06-10	m 1	54	54	56	6	10	-	16.23	105
R5173.100-054-10-10	m 1	54	54	56	10	10	-	27.69	174
R5173.100-055-06-10	m 1	55	55	57	6	10	-	16.23	109
R5173.100-055-10-10	m 1	55	55	57	10	10	-	27.69	181
R5173.100-056-06-10	m 1	56	56	58	6	10	-	17.19	113
R5173.100-056-06-12	m 1	56	56	58	6	12	4×1,8	17.19	111
R5173.100-056-10-10	m 1	56	56	58	10	10	-	28.65	188
R5173.100-056-10-12	m 1	56	56	58	10	12	4×1,8	28.65	184
R5173.100-056-10-15	m 1	56	56	58	10	15	5×2,3	28.65	179
R5173.100-058-06-10	m 1	58	58	60	6	10	-	18.14	115
R5173.100-058-10-10	m 1	58	58	60	10	10	-	29.60	196
R5173.100-060-06-10	m 1	60	60	62	6	10	-	18.14	130
R5173.100-060-06-12	m 1	60	60	62	6	12	4×1,8	18.14	128
R5173.100-060-10-10	m 1	60	60	62	10	10	-	31.51	216
R5173.100-060-10-10K	m 1	60	60	62	10	10	3×1,4	31.51	216
R5173.100-060-10-12	m 1	60	60	62	10	12	4×1,8	31.51	213
R5173.100-060-10-15	m 1	60	60	62	10	15	5×2,3	31.51	208
R5173.100-062-06-10	m 1	62	62	64	6	10	-	19.10	139
R5173.100-062-10-10	m 1	62	62	64	10	10	-	32.47	231
R5173.100-064-06-10	m 1	64	64	66	6	10	-	20.05	148
R5173.100-064-06-12	m 1	64	64	66	6	12	4×1,8	20.05	146
R5173.100-064-10-10	m 1	64	64	66	10	10	-	33.42	247



Spur Gears - Module 1

carbon steel - 14-68 teeth



Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H7	Keyway ($w_2 \times h_1$)	Torque Nm max.	Weight g
R5173.100-064-10-12	m 1	64	64	66	10	12	4×1,8	33.42	244
R5173.100-064-10-15	m 1	64	64	66	10	15	5×2,3	33.42	238
R5173.100-065-06-10	m 1	65	65	67	6	10	-	20.05	153
R5173.100-065-10-10	m 1	65	65	67	10	10	-	34.38	255
R5173.100-066-06-10	m 1	66	66	68	6	10	-	21.01	158
R5173.100-066-10-10	m 1	66	66	68	10	10	-	35.33	263
R5173.100-068-06-10	m 1	68	68	70	6	10	-	21.96	168
R5173.100-068-10-10	m 1	68	68	70	10	10	-	36.29	279
R5173.100-030-08-08	m 1	30	30	32	8	8	-	10.54	42
R5173.100-030-08-10	m 1	30	30	32	8	10	3×1,4	10.54	40
R5173.100-030-10-10	m 1	30	30	32	10	10	3×1,4	13.19	49
R5173.100-030-12-08	m 1	30	30	32	12	8	-	15.81	62
R5173.100-030-12-10	m 1	30	30	32	12	10	3×1,4	15.81	59
R5173.100-030-12-12	m 1	30	30	32	12	12	4×1,8	15.81	56
R5173.100-032-06-08	m 1	32	32	34	6	8	-	8.62	36
R5173.100-032-06-10	m 1	32	32	34	6	10	3×1,4	8.62	34
R5173.100-032-06-12	m 1	32	32	34	6	12	4×1,8	8.62	33
R5173.100-032-10-08	m 1	32	32	34	10	8	-	14.37	60
R5173.100-032-10-10	m 1	32	32	34	10	10	3×1,4	14.37	57
R5173.100-032-10-12	m 1	32	32	34	10	12	4×1,8	14.37	54
R5173.100-034-06-08	m 1	34	34	36	6	8	-	9.34	41
R5173.100-034-10-08	m 1	34	34	36	10	8	-	15.57	68
R5173.100-035-06-08	m 1	35	35	37	6	8	-	9.70	43
R5173.100-035-06-10	m 1	35	35	37	6	10	3×1,4	9.70	42
R5173.100-035-06-12	m 1	35	35	37	6	12	4×1,8	9.70	40
R5173.100-035-10-08	m 1	35	35	37	10	8	-	16.17	72
R5173.100-035-10-10	m 1	35	35	37	10	10	3×1,4	16.17	69
R5173.100-035-10-12	m 1	35	35	37	10	12	4×1,8	16.17	67
R5173.100-035-10-15	m 1	35	35	37	10	15	5×2,3	16.17	61
R5173.100-036-06-08	m 1	36	36	38	6	8	-	10.07	46
R5173.100-036-06-10	m 1	36	36	38	6	10	3×1,4	10.07	44
R5173.100-036-06-12	m 1	36	36	38	6	12	4×1,8	10.07	43
R5173.100-036-10-08	m 1	36	36	38	10	8	-	16.78	76
R5173.100-036-10-10	m 1	36	36	38	10	10	3×1,4	16.78	74
R5173.100-036-10-12	m 1	36	36	38	10	12	4×1,8	16.78	71
R5173.100-036-10-15	m 1	36	36	38	10	15	5×2,3	16.78	66
R5173.100-038-06-08	m 1	38	38	40	6	8	-	10.80	52
R5173.100-038-10-08	m 1	38	38	40	10	8	-	18.00	86
R5173.100-040-06-08	m 1	40	40	42	6	8	-	11.53	57
R5173.100-040-06-10	m 1	40	40	42	6	10	3×1,4	11.53	56
R5173.100-040-06-12	m 1	40	40	42	6	12	4×1,8	11.53	54
R5173.100-040-10-08	m 1	40	40	42	10	8	-	19.18	95
R5173.100-040-10-10	m 1	40	40	42	10	10	3×1,4	19.18	93
R5173.100-040-10-12	m 1	40	40	42	10	12	4×1,8	19.18	90
R5173.100-040-10-15	m 1	40	40	42	10	15	5×2,3	19.18	84
R5173.100-042-06-08	m 1	42	42	44	6	8	-	12.27	63
R5173.100-042-10-08	m 1	42	42	44	10	8	-	20.45	105
R5173.100-044-06-08	m 1	44	44	46	6	8	-	13.01	70
R5173.100-044-10-08	m 1	44	44	46	10	8	-	21.68	116
R5173.100-045-06-08	m 1	45	45	47	6	8	-	13.38	73
R5173.100-045-06-10	m 1	45	45	47	6	10	3×1,4	13.38	71
R5173.100-045-06-12	m 1	45	45	47	6	12	4×1,8	13.38	70
R5173.100-045-10-08	m 1	45	45	47	10	8	-	22.30	121
R5173.100-045-10-10	m 1	45	45	47	10	10	3×1,4	22.30	119
R5173.100-045-10-12	m 1	45	45	47	10	12	4×1,8	22.30	116
R5173.100-045-10-15	m 1	45	45	47	10	15	5×2,3	22.30	111
R5173.100-046-06-08	m 1	46	46	48	6	8	-	13.75	76
R5173.100-046-10-10	m 1	46	46	48	10	10	-	22.92	125
R5173.100-048-06-08	m 1	48	48	50	6	8	-	14.32	83
R5173.100-048-06-10	m 1	48	48	50	6	10	3×1,4	14.32	82
R5173.100-048-06-12	m 1	48	48	50	6	12	4×1,8	14.32	80
R5173.100-048-10-10	m 1	48	48	50	10	10	-	23.87	136
R5173.100-048-10-12	m 1	48	48	50	10	12	4×1,8	23.87	133
R5173.100-048-10-15	m 1	48	48	50	10	15	5×2,3	23.87	128
R5173.100-014-08-05	m 1	14	14	16	8	5	-	3.38	9
R5173.100-014-08-06	m 1	14	14	16	8	6	-	3.38	8
R5173.100-014-12-06	m 1	14	14	16	12	6	-	5.07	12

STANDARD SPUR GEARS

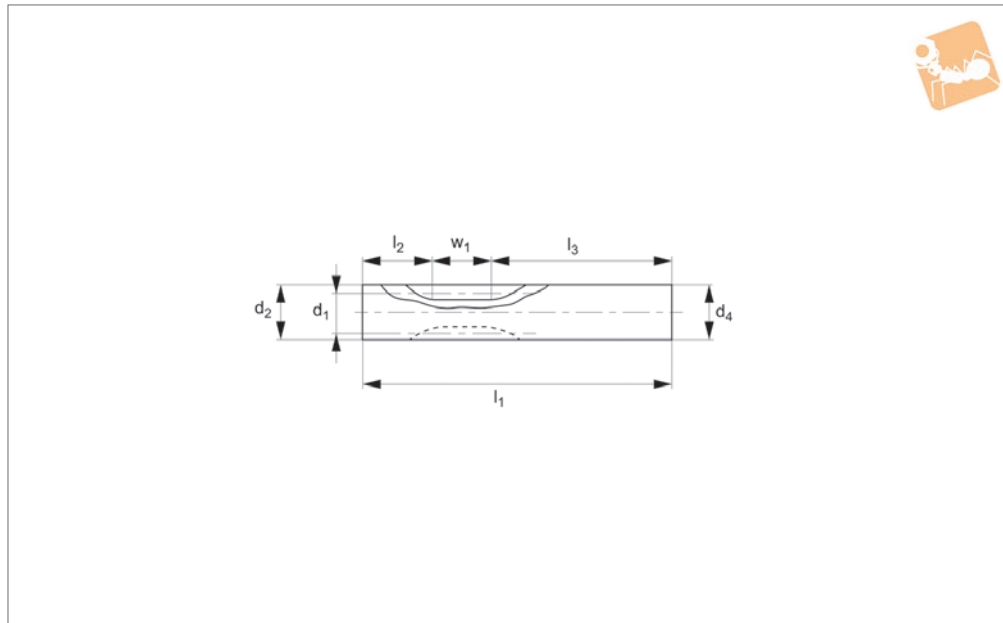


Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	Keyway (w ₂ x h ₁)	Torque Nm max.	Weight g
R5173.100-015-08-05	m 1	15	15	17	8	5	-	3.79	10
R5173.100-015-08-06	m 1	15	15	17	8	6	-	3.79	10
R5173.100-015-12-06	m 1	15	15	17	12	6	-	5.68	14
R5173.100-016-08-05	m 1	16	16	18	8	5	-	4.21	12
R5173.100-016-08-06	m 1	16	16	18	8	6	-	4.21	11
R5173.100-016-12-08	m 1	16	16	18	12	8	-	6.31	15
R5173.100-017-08-05	m 1	17	17	19	8	5	-	4.63	13
R5173.100-017-12-08	m 1	17	17	19	12	8	-	6.94	17
R5173.100-018-08-05	m 1	18	18	20	8	5	-	5.06	15
R5173.100-018-08-06	m 1	18	18	20	8	6	-	5.06	15
R5173.100-018-12-08	m 1	18	18	20	12	8	-	7.58	20
R5173.100-019-08-06	m 1	19	19	21	8	6	-	6.38	16
R5173.100-019-12-08	m 1	19	19	21	12	8	-	9.57	22
R5173.100-020-08-06	m 1	20	20	22	8	6	-	5.94	18
R5173.100-020-08-08	m 1	20	20	22	8	8	-	5.94	15
R5173.100-020-12-08	m 1	20	20	22	12	8	-	8.90	25
R5173.100-020-12-10	m 1	20	20	22	12	10	3×1,4	8.90	20
R5173.100-021-08-06	m 1	21	21	23	8	6	-	6.38	20
R5173.100-021-12-10	m 1	21	21	23	12	10	-	9.57	23
R5173.100-022-08-06	m 1	22	22	24	8	6	-	6.83	23
R5173.100-022-12-10	m 1	22	22	24	12	10	-	10.24	29
R5173.100-023-08-06	m 1	23	23	25	8	6	-	7.28	25
R5173.100-023-12-10	m 1	23	23	25	12	10	-	10.93	32
R5173.100-024-08-06	m 1	24	24	26	8	6	-	7.74	27
R5173.100-024-08-08	m 1	24	24	26	8	8	-	9.67	26
R5173.100-024-12-08	m 1	24	24	26	12	8	-	11.61	38
R5173.100-024-12-10	m 1	24	24	26	12	10	3×1,4	11.61	35
R5173.100-025-08-06	m 1	25	25	27	8	6	-	8.20	30
R5173.100-025-08-08	m 1	25	25	27	8	8	-	10.29	28
R5173.100-025-08-10	m 1	25	25	27	8	10	3×1,4	10.29	26
R5173.100-025-12-08	m 1	25	25	27	12	8	-	12.30	42
R5173.100-025-12-10	m 1	25	25	27	12	10	3×1,4	12.30	39
R5173.100-026-08-06	m 1	26	26	28	8	6	-	8.66	32
R5173.100-026-12-08	m 1	26	26	28	12	8	-	12.99	46
R5173.100-027-08-06	m 1	27	27	29	8	6	-	9.13	35
R5173.100-027-12-08	m 1	27	27	29	12	8	-	13.69	50
R5173.100-028-08-06	m 1	28	28	30	8	6	-	9.60	37
R5173.100-028-08-08	m 1	28	28	30	8	8	-	9.60	36
R5173.100-028-12-08	m 1	28	28	30	12	8	-	14.40	56
R5173.100-028-12-10	m 1	28	28	30	12	10	3×1,4	14.40	51
R5173.100-028-12-12	m 1	28	28	30	12	12	4×1,8	14.40	47



Spur Gears - Module 1

carbon steel - 8-10 teeth



R5175

STANDARD SPUR GEARS

Material

Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8-9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,04 - 0,10mm.

Tips

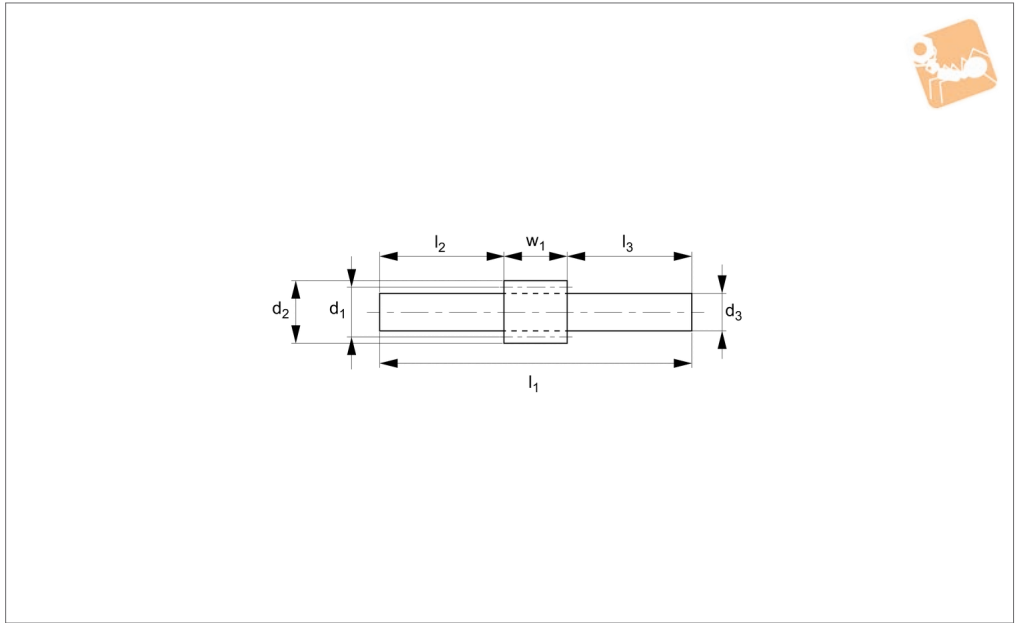
Module 1 for gears with 14-120 teeth see R5173 & R5179, for gears with 8-10 see R5176, for gears with 12-18 see R5177.
Max. allowable torque (Nm) is based on

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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	l ₁	l ₂	l ₃	Torque Nm max.	Weight g
R5175.100-08	m 1	8	Shifted gear *	10.64	12	10.6	60	16	32	3.07	39.5
R5175.100-10	m 1	10	Shifted gear *	12.66	12	12.66	60	16	32	4.23	56.4



R5176



Material

Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8-9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,04 - 0,10mm.

Tips

Module 1 for gears with 14-120 teeth see R5173 & R5179, for gears with 8-10 teeth see R175, for gears with 12-18 teeth see R5177.

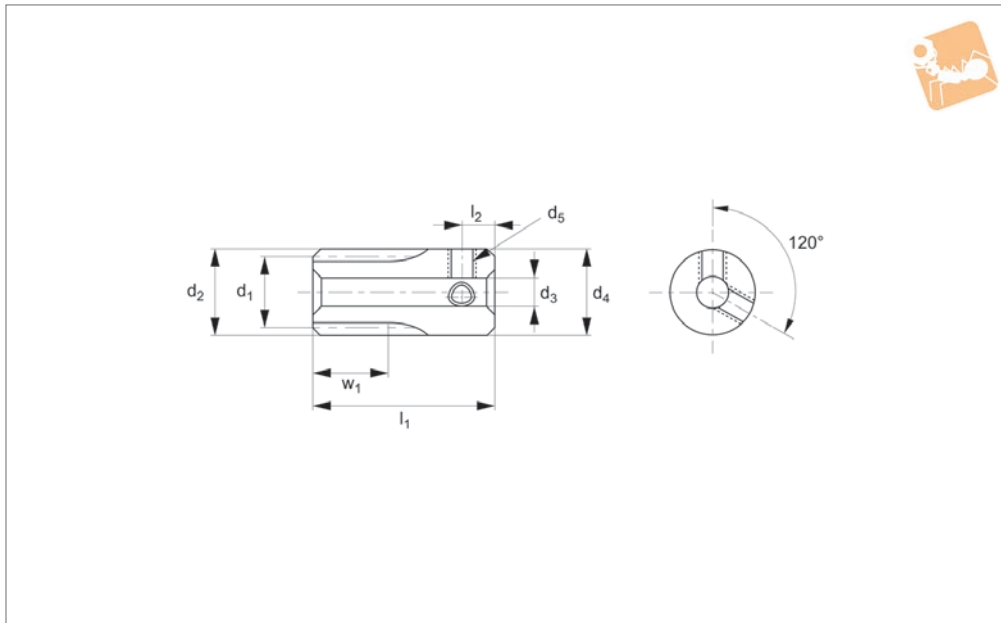
Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H7	l_1	l_2	l_3	Torque Nm max.	Weight g
R5176.100-008	m 1	8	Shifted Gear *	10.6	12	6	60	16	32	3.38	16.7
R5176.100-010	m 1	10	Shifted Gear *	12.7	12	6	60	16	32	5.07	27.9



Spur Gears - Module 1

carbon steel - 12-18 teeth



R5177

STANDARD SPUR GEARS

Material

Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8- 9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears = 0,04 - 0,10mm.

Tips

Module 1 for gears with 14-120 teeth see R5173 & R5179, for gears with 8-10 teeth see R5175 & R5176.

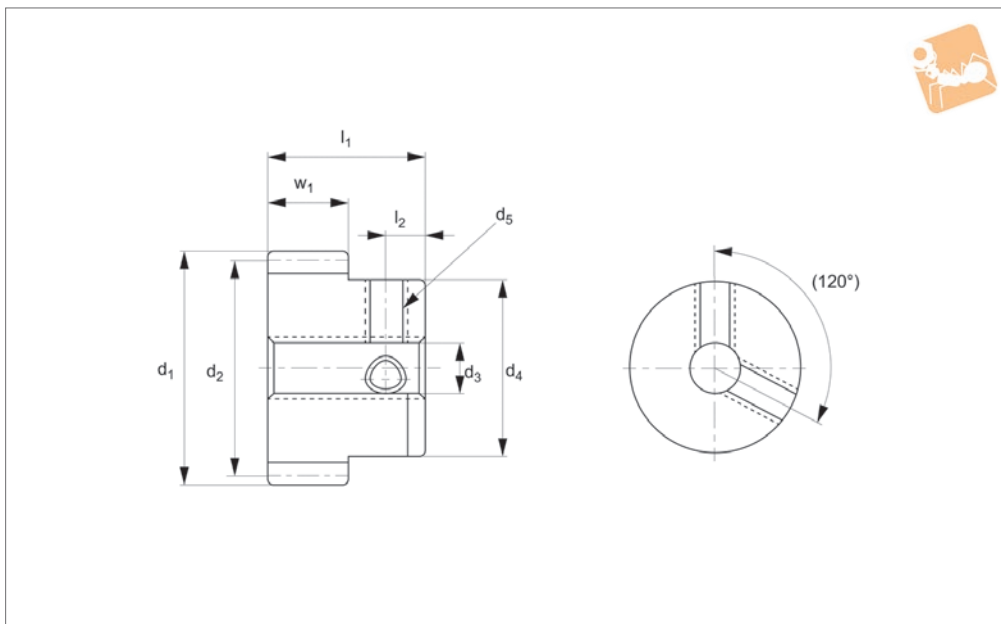
Max. allowable torque (Nm) is based on

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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5177.100-012-12	m 1	12	12	14	12	6	14	30	5	2xM 4	3.89	25.1
R5177.100-013-12	m 1	13	13	15	12	6	15	30	5	2xM 4	4.47	30.1
R5177.100-014-08	m 1	14	14	16	8	6	16	25	4	2xM 4	3.38	30.1
R5177.100-014-12	m 1	14	14	16	12	6	16	30	5	2xM 5	5.07	35.0
R5177.100-015-08	m 1	15	15	17	8	6	17	25	4	2xM 4	3.79	35.0
R5177.100-015-12	m 1	15	15	17	12	6	17	30	5	2xM 5	5.10	40.7
R5177.100-016-06	m 1	16	16	18	8	6	18	25	4	2xM 4	4.21	40.0
R5177.100-016-08	m 1	16	16	18	8	8	18	25	4	2xM 4	4.21	35.9
R5177.100-016-12	m 1	16	16	18	12	8	18	30	5	2xM 5	6.31	41.8
R5177.100-017-08	m 1	17	17	19	8	8	19	25	4	2xM 4	4.63	41.3
R5177.100-017-12	m 1	17	17	19	12	8	19	30	5	2xM 5	6.94	48.2
R5177.100-018-08	m 1	18	18	20	8	8	20	25	4	2xM 4	5.06	47.1
R5177.100-018-12	m 1	18	18	20	12	8	20	30	4	2xM 4	7.58	55.6



R5179



Material

Carbon steel (ISO C45). Accuracy to JIS B 1702-1 (ISO) class 8, induction hardened class 9.

Technical Notes

20° pressure angle, full depth tooth.
Amount of backlash when assembling

gears=0,04- 0,10 mm.

Tips

Module 1 for gears with 8-10 teeth see R5175 & R5176, for gears with 12-18 teeth see R5177, for gears with 14-120 teeth without screw see R5179. Max. allowable torque (Nm) is based on standard opera-

ting 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.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	Hub dia. d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5179.100-014-08-05	m 1	14	14	16	8	5 tol. H8	11	16	-	-	3.38	13
R5179.100-014-10-05	m 1	14	14	16	10	5 tol. H8	11	20	-	-	3.80	17
R5179.100-015-08-05	m 1	15	15	17	8	5 tol. H8	12	16	-	-	3.79	16
R5179.100-015-10-05	m 1	15	15	17	10	5 tol. H8	12	20	-	-	4.30	20
R5179.100-016-08-05	m 1	16	16	18	8	5 tol. H8	13	16	-	-	4.21	19
R5179.100-016-10-05	m 1	16	16	18	10	5 tol. H8	13	20	-	-	4.80	22
R5179.100-017-08-05	m 1	17	17	19	8	5 tol. H8	14	16	-	-	4.63	22
R5179.100-017-10-05	m 1	17	17	19	10	5 tol. H8	14	20	-	-	5.23	27
R5179.100-018-08-06	m 1	18	18	20	8	6	14	16	4	2xM 4	5.06	22
R5179.100-018-10-06	m 1	18	18	20	10	6 tol. H8	15	20	-	-	6.32	30
R5179.100-018-10-08	m 1	18	18	20	10	8	15	20	5	2xM 5	6.62	26
R5179.100-019-08-06	m 1	19	19	21	8	6	16	16	-	-	6.38	26
R5179.100-019-12-08	m 1	19	19	21	12	8	16	20	-	-	9.57	31
R5179.100-020-08-06	m 1	20	20	22	8	6	16	16	-	-	5.94	29
R5179.100-020-08-06T	m 1	20	20	22	8	6	16	16	4	2xM 4	5.94	28
R5179.100-020-08-08	m 1	20	20	22	8	8	16	16	4	2xM 4	5.94	26
R5179.100-020-10-05	m 1	20	20	22	10	5 tol. H8	16	20	-	-	7.47	37
R5179.100-020-10-06	m 1	20	20	22	10	6 tol. H8	16	20	-	-	7.47	37
R5179.100-020-10-08	m 1	20	20	22	10	8	16	20	5	2xM 5	7.47	32
R5179.100-020-12-06	m 1	20	20	22	12	6 tol. H8	16	20	-	-	8.90	38
R5179.100-020-12-06T	m 1	20	20	22	12	6 tol. H8	16	20	4	2xM 4	8.90	37
R5179.100-020-12-08	m 1	20	20	22	12	8	16	20	4	2xM 4	8.90	34
R5179.100-021-08-06	m 1	21	21	23	8	6	18	16	-	-	6.38	34
R5179.100-021-12-08	m 1	21	21	23	12	8	18	20	-	-	9.57	49
R5179.100-022-08-06	m 1	22	22	24	8	6	18	16	-	-	6.83	37
R5179.100-022-12-08	m 1	22	22	24	12	8	18	20	-	-	10.24	44
R5179.100-023-08-06	m 1	23	23	25	8	6	20	16	-	-	7.28	43
R5179.100-023-12-08	m 1	23	23	25	12	8	20	20	-	-	10.93	51
R5179.100-024-08-06	m 1	24	24	26	8	6	16	16	-	-	7.74	38

Spur Gears - Module 1

carbon steel - 14-120 teeth

Standard Spur Gears



Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	Hub dia. d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5179.100-024-08-06T	m 1	24	24	26	8	6	16	16	4	2xM 4	7.74	37
R5179.100-024-08-08	m 1	24	24	26	8	8	16	16	4	2xM 4	7.74	35
R5179.100-024-10-06	m 1	24	24	26	10	6 tol. H8	20	20	-	-	9.67	56
R5179.100-024-10-08	m 1	24	24	26	10	8	20	20	5	2xM 5	9.67	51
R5179.100-024-12-08	m 1	24	24	26	12	8	20	20	-	-	11.61	55
R5179.100-024-12-08T	m 1	24	24	26	12	8	20	20	4	2xM 4	11.61	54
R5179.100-024-12-10	m 1	24	24	26	12	10	20	20	4	2xM 4	11.61	49
R5179.100-025-08-06	m 1	25	25	27	8	6	16	16	-	-	8.20	40
R5179.100-025-08-06T	m 1	25	25	27	8	6	16	16	4	2xM 4	8.20	40
R5179.100-025-08-08	m 1	25	25	27	8	8	16	16	4	2xM 4	8.20	37
R5179.100-025-10-05	m 1	25	25	27	10	5 tol. H8	20	20	-	-	10.90	60
R5179.100-025-10-06	m 1	25	25	27	10	6 tol. H8	20	20	-	-	10.90	59
R5179.100-025-10-08	m 1	25	25	27	10	8	20	20	5	2xM 5	10.90	54
R5179.100-025-12-08	m 1	25	25	27	12	8	20	20	-	-	12.30	59
R5179.100-025-12-08T	m 1	25	25	27	12	8	20	20	4	2xM 4	12.30	58
R5179.100-025-12-10	m 1	25	25	27	12	10	20	20	4	2xM 4	12.30	53
R5179.100-026-08-06	m 1	26	26	28	8	6	22	16	-	-	8.66	54
R5179.100-026-12-08	m 1	26	26	28	12	8	22	20	-	-	12.99	66
R5179.100-027-08-06	m 1	27	27	29	8	6	24	16	-	-	9.13	61
R5179.100-027-12-08	m 1	27	27	29	12	8	24	20	-	-	13.69	75
R5179.100-028-08-06	m 1	28	28	30	8	6	20	16	-	-	9.60	55
R5179.100-028-08-06T	m 1	28	28	30	8	6	20	16	4	2xM 4	9.60	54
R5179.100-028-08-08	m 1	28	28	30	8	8	20	16	4	2xM 4	9.60	52
R5179.100-028-08-10	m 1	28	28	30	8	10	20	16	4	2xM 4	9.60	52
R5179.100-028-10-08	m 1	28	28	30	10	8	24	20	-	-	12.90	77
R5179.100-028-10-10	m 1	28	28	30	10	10	24	20	5	2xM 5	12.90	70
R5179.100-028-12-10	m 1	28	28	30	12	10	24	20	-	-	14.40	75
R5179.100-028-12-10T	m 1	28	28	30	12	10	24	20	4	2xM 4	14.40	73
R5179.100-028-12-12	m 1	28	28	30	12	12	24	20	4	2xM 4	14.40	68
R5179.100-030-08-06	m 1	30	30	32	8	6	24	16	-	-	10.54	70
R5179.100-030-08-06T	m 1	30	30	32	8	6	24	16	4	2xM 4	10.54	68
R5179.100-030-08-08	m 1	30	30	32	8	8	24	16	4	2xM 4	10.54	66
R5179.100-030-08-10	m 1	30	30	32	8	10	24	16	4	2xM 4	10.54	62
R5179.100-030-08-12	m 1	30	30	32	8	12	24	16	4	2xM 4	10.54	58
R5179.100-030-10-06	m 1	30	30	32	10	6 tol. H8	25	20	-	-	13.19	90
R5179.100-030-10-08	m 1	30	30	32	10	8	25	20	-	-	13.19	87
R5179.100-030-10-10	m 1	30	30	32	10	10	25	20	5	2xM 5	13.19	80
R5179.100-030-12-10	m 1	30	30	32	12	10	24	20	-	-	15.81	83
R5179.100-030-12-10T	m 1	30	30	32	12	10	24	20	4	2xM 4	15.81	81
R5179.100-030-12-12	m 1	30	30	32	12	12	24	20	4	2xM 4	15.81	76
R5179.100-032-06-06	m 1	32	32	34	6	6	24	16	-	-	8.62	70
R5179.100-032-06-06T	m 1	32	32	34	6	6	24	16	4	2xM 4	8.62	69
R5179.100-032-06-08	m 1	32	32	34	6	8	24	16	4	2xM 4	8.62	66
R5179.100-032-06-10	m 1	32	32	34	6	10	24	16	5	2xM 5	8.62	62
R5179.100-032-06-12	m 1	32	32	34	6	12	24	16	5	2xM 5	8.62	58
R5179.100-032-10-10	m 1	32	32	34	10	10	24	20	-	-	14.37	87
R5179.100-032-10-10T	m 1	32	32	34	10	10	24	20	5	2xM 5	14.37	85
R5179.100-032-10-12	m 1	32	32	34	10	12	24	20	5	2xM 5	14.37	80
R5179.100-034-06-06	m 1	34	34	36	6	6	28	16	-	-	9.34	88
R5179.100-034-10-10	m 1	34	34	36	10	10	28	20	-	-	15.57	108
R5179.100-035-06-06	m 1	35	35	37	6	6	24	16	-	-	9.70	78
R5179.100-035-06-06T	m 1	35	35	37	6	6	24	16	4	2xM 4	9.70	76
R5179.100-035-06-08	m 1	35	35	37	6	8	24	16	4	2xM 4	9.70	74
R5179.100-035-06-10	m 1	35	35	37	6	10	24	16	5	2xM 5	9.70	70
R5179.100-035-06-12	m 1	35	35	37	6	12	24	16	5	2xM 5	9.70	66
R5179.100-035-10-10	m 1	35	35	37	10	10	30	20	-	-	16.17	119
R5179.100-035-10-10T	m 1	35	35	37	10	10	30	20	5	2xM 5	16.17	117
R5179.100-035-10-12	m 1	35	35	37	10	12	30	20	5	2xM 5	16.17	111
R5179.100-035-10-15	m 1	35	35	37	10	15	30	20	5	2xM 5	16.17	102
R5179.100-036-06-08	m 1	36	36	38	6	8	24	16	-	-	10.07	78
R5179.100-036-06-08T	m 1	36	36	38	6	8	24	16	4	2xM 4	10.07	76
R5179.100-036-06-10	m 1	36	36	38	6	10	24	16	5	2xM 5	10.07	72
R5179.100-036-06-12	m 1	36	36	38	6	12	24	16	5	2xM 5	10.07	68
R5179.100-036-10-10	m 1	36	36	38	10	10	30	20	-	-	16.78	124
R5179.100-036-10-10T	m 1	36	36	38	10	10	30	20	5	2xM 5	16.78	121
R5179.100-036-10-12	m 1	36	36	38	10	12	30	20	5	2xM 5	16.78	116
R5179.100-036-10-15	m 1	36	36	38	10	15	30	20	5	2xM 5	16.78	106

STANDARD SPUR GEARS



Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	Hub dia. d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5179.100-038-06-08	m1	38	38	40	6	8	25	16	-	-	10.80	86
R5179.100-038-10-10	m1	38	38	40	10	10	30	20	-	-	18.00	133
R5179.100-040-06-08	m1	40	40	42	6	8	24	16	-	-	11.53	89
R5179.100-040-06-08T	m1	40	40	42	6	8	24	16	4	2xM 4	11.53	88
R5179.100-040-06-10	m1	40	40	42	6	10	24	16	5	2xM 5	11.53	84
R5179.100-040-06-12	m1	40	40	42	6	12	24	16	5	2xM 5	11.53	79
R5179.100-040-10-06	m1	40	40	42	10	6 tol. H8	30	20	-	-	19.18	150
R5179.100-040-10-10	m1	40	40	42	10	10	30	20	-	-	19.18	142
R5179.100-040-10-10T	m1	40	40	42	10	10	30	20	5	2xM 5	19.18	140
R5179.100-040-10-12	m1	40	40	42	10	12	30	20	5	2xM 5	19.18	135
R5179.100-040-10-15	m1	40	40	42	10	15	30	20	5	2xM 5	19.18	125
R5179.100-042-06-08	m1	42	42	44	6	8	28	16	-	-	12.27	108
R5179.100-042-10-10	m1	42	42	44	10	10	30	20	-	-	20.45	152
R5179.100-044-06-08	m1	44	44	46	6	8	28	16	-	-	13.01	114
R5179.100-044-10-10	m1	44	44	46	10	10	30	20	-	-	21.68	163
R5179.100-045-06-08	m1	45	45	47	6	8	24	16	-	-	13.38	105
R5179.100-045-06-08T	m1	45	45	47	6	8	24	16	4	2xM 4	13.38	103
R5179.100-045-06-10	m1	45	45	47	6	10	24	16	5	2xM 5	13.38	99
R5179.100-045-06-12	m1	45	45	47	6	12	24	16	5	2xM 5	13.38	95
R5179.100-045-10-10	m1	45	45	47	10	10	30	20	-	-	22.30	168
R5179.100-045-10-10T	m1	45	45	47	10	10	30	20	5	2xM 5	22.30	166
R5179.100-045-10-12	m1	45	45	47	10	12	30	20	5	2xM 5	22.30	161
R5179.100-045-10-15	m1	45	45	47	10	15	30	20	5	2xM 5	22.30	151
R5179.100-046-06-08	m1	46	46	48	6	8	30	16	-	-	13.75	128
R5179.100-046-10-10	m1	46	46	48	10	10	30	20	-	-	22.92	174
R5179.100-048-06-08	m1	48	48	50	6	8	24	16	-	-	15.18	115
R5179.100-048-06-08T	m1	48	48	50	6	8	24	16	4	2xM 4	15.18	114
R5179.100-048-06-10	m1	48	48	50	6	10	24	16	5	2xM 5	15.18	110
R5179.100-048-06-12	m1	48	48	50	6	12	24	16	5	2xM 5	15.18	105
R5179.100-048-10-10	m1	48	48	50	10	10	30	20	-	-	23.87	186
R5179.100-048-10-10T	m1	48	48	50	10	10	30	20	5	2xM 5	23.87	183
R5179.100-048-10-12	m1	48	48	50	10	12	30	20	5	2xM 5	23.87	178
R5179.100-048-10-15	m1	48	48	50	10	15	30	20	5	2xM 5	23.87	168
R5179.100-050-06-08	m 1	50	50	52	6	8	24	16	-	-	14.32	122
R5179.100-050-06-08T	m 1	50	50	52	6	8	24	16	4	2xM 4	14.32	121
R5179.100-050-06-10	m 1	50	50	52	6	10	24	16	5	2xM 5	14.32	117
R5179.100-050-06-12	m 1	50	50	52	6	12	24	16	5	2xM 5	14.32	113
R5179.100-050-10-08	m 1	50	50	52	10	8	35	20	-	-	24.83	221
R5179.100-050-10-10	m 1	50	50	52	10	10	30	20	-	-	24.83	198
R5179.100-050-10-10T	m 1	50	50	52	10	10	30	20	5	2xM 5	24.83	195
R5179.100-050-10-12	m 1	50	50	52	10	12	30	20	5	2xM 5	24.83	190
R5179.100-050-10-15	m 1	50	50	52	10	15	30	20	5	2xM 5	24.83	180
R5179.100-052-06-10	m 1	52	52	54	6	10	40	16	-	-	15.28	189
R5179.100-052-10-10	m 1	52	52	54	10	10	46	20	-	-	25.78	285
R5179.100-054-06-10	m 1	54	54	56	6	10	40	16	-	-	16.23	197
R5179.100-054-10-10	m 1	54	54	56	10	10	46	20	-	-	27.69	298
R5179.100-055-06-10	m 1	55	55	57	6	10	40	16	-	-	16.23	201
R5179.100-055-10-10	m 1	55	55	57	10	10	46	20	-	-	27.69	305
R5179.100-056-06-10	m 1	56	56	58	6	10	24	16	-	-	17.19	142
R5179.100-056-06-10T	m 1	56	56	58	6	10	24	16	5	2xM 5	17.19	140
R5179.100-056-06-12	m 1	56	56	58	6	12	24	16	5	2xM 5	17.19	136
R5179.100-056-10-10	m 1	56	56	58	10	10	30	20	-	-	28.65	237
R5179.100-056-10-10T	m 1	56	56	58	10	10	30	20	5	2xM 5	28.65	234
R5179.100-056-10-12	m 1	56	56	58	10	12	30	20	5	2xM 5	28.65	229
R5179.100-056-10-15	m 1	56	56	58	10	15	30	20	5	2xM 5	28.65	220
R5179.100-058-06-10	m 1	58	58	60	6	10	40	16	-	-	18.14	214
R5179.100-058-10-10	m 1	58	58	60	10	10	50	20	-	-	29.60	362
R5179.100-060-06-10	m 1	60	60	62	6	10	30	16	-	-	18.14	179
R5179.100-060-06-10T	m 1	60	60	62	6	10	30	16	5	2xM 5	18.14	177
R5179.100-060-06-12	m 1	60	60	62	6	12	30	16	5	2xM 5	18.14	173
R5179.100-060-06-15	m 1	60	60	62	6	15	30	16	5	2xM 5	18.14	165
R5179.100-060-10-08	m 1	60	60	62	10	8	42	20	-	-	31.51	322
R5179.100-060-10-10	m 1	60	60	62	10	10	30	20	-	-	31.51	266
R5179.100-060-10-10T	m 1	60	60	62	10	10	30	20	5	2xM 5	31.51	263
R5179.100-060-10-12	m 1	60	60	62	10	12	30	20	5	2xM 5	31.51	258
R5179.100-060-10-15	m 1	60	60	62	10	15	30	20	5	2xM 5	31.51	248
R5179.100-062-06-10	m 1	62	62	64	6	10	40	16	-	-	19.10	231



Spur Gears - Module 1

carbon steel - 14-120 teeth



Standard Spur Gears

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H7	Hub dia. d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5179.100-062-10-10	m 1	62	62	64	10	10	50	20	-	-	32.47	379
R5179.100-064-06-10	m 1	64	64	66	6	10	30	16	-	-	20.05	178
R5179.100-064-06-10T	m 1	64	64	66	6	10	30	16	5	2xM 5	20.05	176
R5179.100-064-06-12	m 1	64	64	66	6	12	30	16	5	2xM 5	20.05	172
R5179.100-064-10-10	m 1	64	64	66	10	10	30	20	-	-	33.42	296
R5179.100-064-10-10T	m 1	64	64	66	10	10	30	20	5	2xM 5	33.42	294
R5179.100-064-10-12	m 1	64	64	66	10	12	30	20	5	2xM 5	33.42	289
R5179.100-064-10-15	m 1	64	64	66	10	15	30	20	5	2xM 5	33.42	279
R5179.100-065-06-10	m 1	65	65	67	6	10	40	16	-	-	20.05	246
R5179.100-065-10-10	m 1	65	65	67	10	10	50	20	-	-	34.38	403
R5179.100-066-06-10	m 1	66	66	68	6	10	40	16	-	-	21.01	250
R5179.100-066-10-10	m 1	66	66	68	10	10	50	20	-	-	35.33	411
R5179.100-068-06-10	m 1	68	68	70	6	10	40	16	-	-	21.96	260
R5179.100-068-10-10	m 1	68	68	70	10	10	50	20	-	-	36.29	427
R5179.100-070-06-10	m 1	70	70	72	6	10	40	16	-	-	21.96	270
R5179.100-070-10-10	m 1	70	70	72	10	10	50	20	-	-	38.20	443
R5179.100-070-10-10D	m 1	70	70	72	10	10	55	20	-	-	38.20	443
R5179.100-072-06-10	m 1	72	72	74	6	10	30	16	-	-	22.92	218
R5179.100-072-06-10T	m 1	72	72	74	6	10	30	16	5	2xM 5	22.92	216
R5179.100-072-06-12T	m 1	72	72	74	6	12	30	16	5	2xM 5	22.92	212
R5179.100-072-10-10	m 1	72	72	74	10	10	30	20	-	-	39.15	363
R5179.100-072-10-10T	m 1	72	72	74	10	10	30	20	5	2xM 5	39.15	361
R5179.100-072-10-12T	m 1	72	72	74	10	12	30	20	5	2xM 5	39.15	356
R5179.100-072-10-15T	m 1	72	72	74	10	15	30	20	5	2xM 5	39.15	346
R5179.100-075-06-10	m 1	75	75	77	6	10	40	16	-	-	23.87	297
R5179.100-075-10-10	m 1	75	75	77	10	10	50	20	-	-	41.06	489
R5179.100-080-06-10	m 1	80	80	82	6	10	30	16	-	-	25.78	283
R5179.100-080-06-10T	m 1	80	80	82	6	10	30	16	5	2xM 5	25.78	280
R5179.100-080-06-12T	m 1	80	80	82	6	12	30	16	5	2xM 5	25.78	276
R5179.100-080-06-15T	m 1	80	80	82	6	15	30	16	5	2xM 5	25.78	269
R5179.100-080-10-10D	m 1	80	80	82	10	10	60	20	-	-	43.93	604
R5179.100-080-10-10	m 1	80	80	82	10	10	32	20	-	-	17.19	446
R5179.100-080-10-10T	m 1	80	80	82	10	10	32	20	5	2xM 5	17.19	443
R5179.100-080-10-12T	m 1	80	80	82	10	12	32	20	5	2xM 5	17.19	438
R5179.100-080-10-15T	m 1	80	80	82	10	15	32	20	5	2xM 5	17.19	428
R5179.100-080-10-16T	m 1	80	80	82	10	16	32	20	5	2xM 5	17.19	425
R5179.100-084-06-10	m 1	84	84	86	6	10	50	16	-	-	27.69	406
R5179.100-084-10-10	m 1	84	84	86	10	10	50	20	-	-	46.79	577
R5179.100-085-06-10	m 1	85	85	87	6	10	50	16	-	-	27.69	412
R5179.100-085-10-10	m 1	85	85	87	10	10	50	20	-	-	46.79	588
R5179.100-090-06-10	m 1	90	90	92	6	10	50	16	-	-	29.60	444
R5179.100-090-10-10	m 1	90	90	92	10	10	50	20	-	-	50.61	642
R5179.100-090-10-10D	m 1	90	90	92	10	10	65	20	-	-	50.61	747
R5179.100-096-06-10	m 1	96	96	98	6	10	50	16	-	-	32.47	486
R5179.100-096-10-10	m 1	96	96	98	10	10	50	20	-	-	54.43	710
R5179.100-100-06-10	m 1	100	100	102	6	10	30	16	-	-	34.38	416
R5179.100-100-06-10T	m 1	100	100	102	6	10	30	16	5	2xM 5	34.38	414
R5179.100-100-06-12T	m 1	100	100	102	6	12	30	16	5	2xM 5	34.38	410
R5179.100-100-06-15T	m 1	100	100	102	6	15	30	16	5	2xM 5	34.38	402
R5179.100-100-10-10D	m 1	100	100	102	10	10	70	20	-	-	57.30	905
R5179.100-100-10-12	m 1	100	100	102	10	12	36	20	-	-	57.30	680
R5179.100-100-10-12T	m 1	100	100	102	10	12	36	20	5	2xM 5	57.30	676
R5179.100-100-10-15T	m 1	100	100	102	10	15	36	20	5	2xM 5	57.30	667
R5179.100-100-10-16T	m 1	100	100	102	10	16	36	20	5	2xM 5	57.30	663
R5179.100-105-06-10	m 1	105	105	107	6	10	50	16	-	-	36.29	553
R5179.100-105-10-12	m 1	105	105	107	10	12	50	20	-	-	60.16	817
R5179.100-110-06-10	m 1	110	110	112	6	10	50	16	-	-	38.20	592
R5179.100-110-10-12	m 1	110	110	112	10	12	50	20	-	-	63.03	883
R5179.100-115-06-10	m 1	115	115	117	6	10	50	16	-	-	40.11	634
R5179.100-115-10-12	m 1	115	115	117	10	12	50	20	-	-	66.85	952
R5179.100-120-06-10	m 1	120	120	122	6	10	30	16	-	-	42.02	579
R5179.100-120-06-10T	m 1	120	120	122	6	10	30	16	5	2xM 5	42.02	577
R5179.100-120-06-12T	m 1	120	120	122	6	12	30	16	5	2xM 5	42.02	572
R5179.100-120-06-15T	m 1	120	120	122	6	15	30	16	5	2xM 5	42.02	565
R5179.100-120-10-10D	m 1	120	120	122	10	10	90	20	-	-	69.71	1374
R5179.100-120-10-12	m 1	120	120	122	10	12	36	20	-	-	69.71	951
R5179.100-120-10-12T	m 1	120	120	122	10	12	36	20	5	2xM 5	69.71	948

STANDARD SPUR GEARS



Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H7	Hub dia. d_4	l_1	l_2	Thread d_5	Torque Nm max.	Weight g
R5179.100-120-10-15T	m 1	120	120	122	10	15	36	20	5	2xM 5	69.71	938
R5179.100-120-10-16T	m 1	120	120	122	10	16	36	20	5	2xM 5	69.71	935
R5179.100-120-10-18T	m 1	120	120	122	10	18	36	20	5	2xM 5	69.71	926