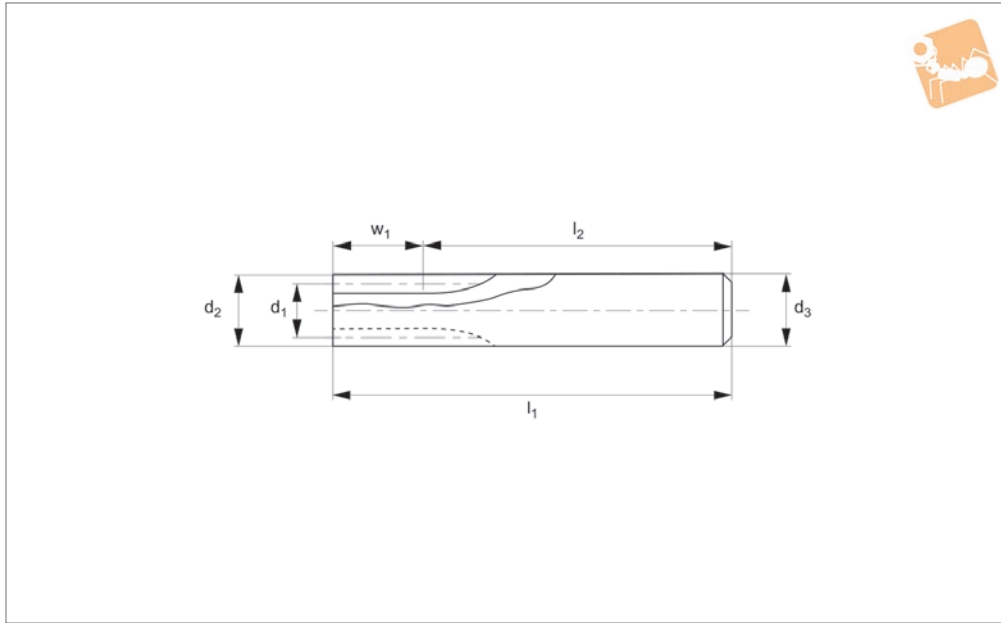




Spur Gears - Module 0.8 - Stainless

stainless steel - 10-12 teeth



R5141

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 = 0,016 - 0,048mm.

Tips

For module 0.8 stainless steel gears with more teeth, see R5142, R5144 (boreless) & R5146.

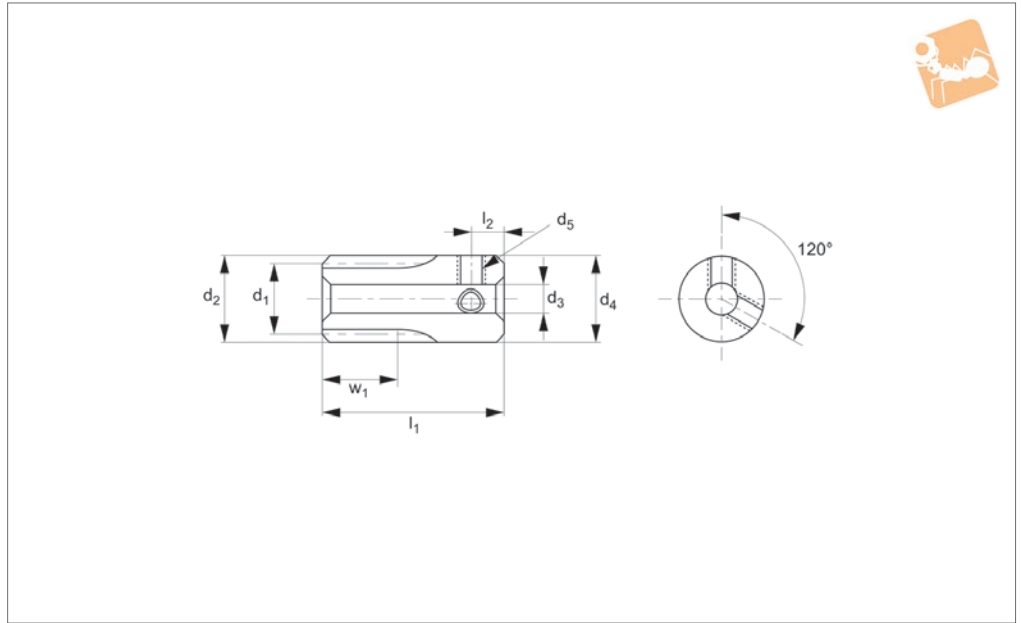
Max. allowable torque (Nm) is based on

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	l ₁	l ₂	Torque Nm max.	Weight g
R5141.080-010	m 0.8	10	8.0	9.6	10	10	60	50	0.74	35.1
R5141.080-012	m 0.8	12	9.6	11.2	10	12	60	50	1.04	50.6



R5142



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 = 0,016 - 0,048mm.

Tips

For a version of this product with fewer teeth, see R5141. Or, for module 0.8 stainless steel gears with more teeth, see R5144 (boreless) & R5146.

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
R5142.080-014	m 0.8	14	11.2	12.8	7	4	12.8	20	13	2xM 3	0.95	16.3
R5142.080-015	m 0.8	15	12.0	13.6	7	4	13.6	20	13	2xM 3	1.06	18.8

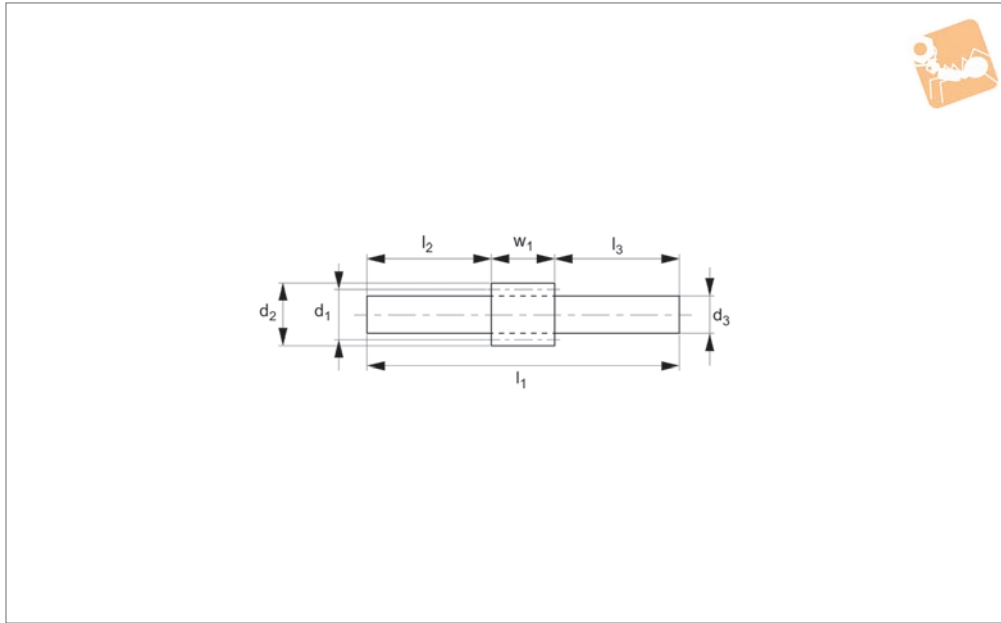


Spur Gears - Module 0.8 - Stainless

stainless steel - 14-20 teeth - boreless



Standard Spur Gears



R5144

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

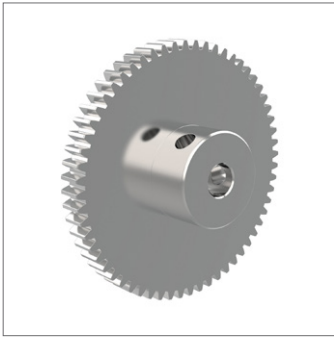
gears = 0,016 - 0,048mm.

Tips

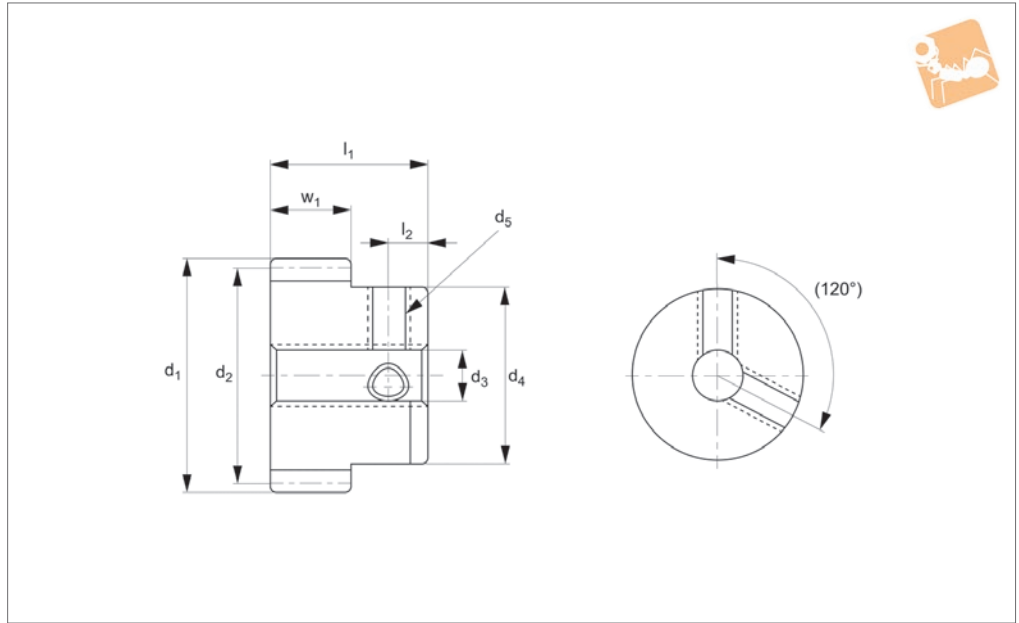
For a version of this product with a bore, see R5142. For stainless steel module 0.8 gears with 10-12 teeth, see R5141; for 16-120 teeth, see R5146.

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	l ₁	l ₂	l ₃	Torque Nm max.	Weight g
R5144.080-014	m 0.8	14	11.2	12.8	7	6	95	28	60	0.95	25.2
R5144.080-015	m 0.8	15	12.0	13.6	7	6	95	28	60	1.06	26.0
R5144.080-016	m 0.8	16	12.8	14.4	7	6	95	28	60	1.18	26.9
R5144.080-018	m 0.8	18	14.4	16.0	7	8	95	28	60	1.42	44.1
R5144.080-020	m 0.8	20	16.0	17.6	7	10	95	28	60	1.66	66.0



R5146



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 = 0,016 - 0,048mm.

Tips

For module 0.8 stainless steel gears with fewer teeth, see R5142; for boreless gears with fewer teeth, see R5141 & R5144.
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
R5146.080-016-12-05-04	m 0.8	16	12.8	14.4	5	4	10	12	3	2xM 3	0.84	8.0
R5146.080-016-14-07-04	m 0.8	16	12.8	14.4	7	4	10	14	3	2xM 3	1.18	9.8
R5146.080-018-12-05-04	m 0.8	18	14.4	16.0	5	4	10	12	3	2xM 3	1.01	9.3
R5146.080-018-14-07-04	m 0.8	18	14.4	16.0	7	4	10	14	3	2xM 3	1.42	11.7
R5146.080-020-12-05-04	m 0.8	20	16.0	17.6	5	4	10	12	3	2xM 3	1.19	10.9
R5146.080-020-14-07-04	m 0.8	20	16.0	17.6	7	4	10	14	3	2xM 3	1.66	13.9
R5146.080-022-12-05-04	m 0.8	22	17.6	19.2	5	4	10	12	3	2xM 3	1.37	12.5
R5146.080-022-14-07-04	m 0.8	22	17.6	19.2	7	4	10	14	3	2xM 3	1.91	16.2
R5146.080-024-12-05-05	m 0.8	24	19.2	20.8	5	5	15	12	4	2xM 4	1.55	18.6
R5146.080-024-14-07-05	m 0.8	24	19.2	20.8	7	5	15	14	4	2xM 4	2.17	22.9
R5146.080-025-12-05-05	m 0.8	25	20.0	21.6	5	5	15	12	4	2xM 4	1.64	19.6
R5146.080-025-14-07-05	m 0.8	25	20.0	21.6	7	5	15	14	4	2xM 4	2.30	24.2
R5146.080-028-12-05-05	m 0.8	28	22.4	24.0	5	5	15	12	4	2xM 4	1.92	22.7
R5146.080-028-14-07-05	m 0.8	28	22.4	24.0	7	5	15	14	4	2xM 4	2.69	28.7
R5146.080-030-12-05-05	m 0.8	30	24.0	25.6	5	5	15	12	4	2xM 4	2.11	25.0
R5146.080-030-14-07-05	m 0.8	30	24.0	25.6	7	5	15	14	4	2xM 4	2.95	31.9
R5146.080-032-14-05-05	m 0.8	32	25.6	27.2	5	5	15	14	4	2xM 4	2.30	30.0
R5146.080-036-14-05-06	m 0.8	36	28.8	30.4	5	6	18	14	4	2xM 4	2.68	39.9
R5146.080-040-14-05-06	m 0.8	40	32.0	33.6	5	6	18	14	4	2xM 4	3.08	45.9
R5146.080-045-14-05-06	m 0.8	45	36.0	37.6	5	6	18	14	4	2xM 4	3.57	54.4
R5146.080-048-14-05-06	m 0.8	48	38.4	40.0	5	6	18	14	4	2xM 4	3.87	59.9
R5146.080-050-14-05-06	m 0.8	50	40.0	41.6	5	6	18	14	4	2xM 4	4.07	63.9
R5146.080-054-14-05-06	m 0.8	54	43.2	44.8	5	6	18	14	4	2xM 4	4.47	72.1
R5146.080-056-14-05-06	m 0.8	56	44.8	46.4	5	6	18	14	4	2xM 4	4.67	76.5
R5146.080-060-14-05-06	m 0.8	60	48.0	49.6	5	6	18	14	4	2xM 4	5.07	85.8
R5146.080-064-14-05-06	m 0.8	64	51.2	52.8	5	6	18	14	4	2xM 4	5.48	95.7
R5146.080-070-14-05-08	m 0.8	70	56.0	57.6	5	8	28	14	4	2xM 4	6.09	134.4
R5146.080-072-14-05-08	m 0.8	72	57.6	59.2	5	8	28	14	4	2xM 4	6.30	140.0
R5146.080-080-14-05-08	m 0.8	80	64.0	65.6	5	8	28	14	4	2xM 4	7.12	164.3
R5146.080-080-14-05-10	m 0.8	80	64.0	65.6	5	10	28	14	4	2xM 4	7.12	161.3



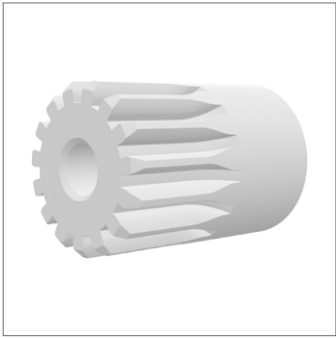
Spur Gears - Module 0.8

stainless steel - 16-120 teeth

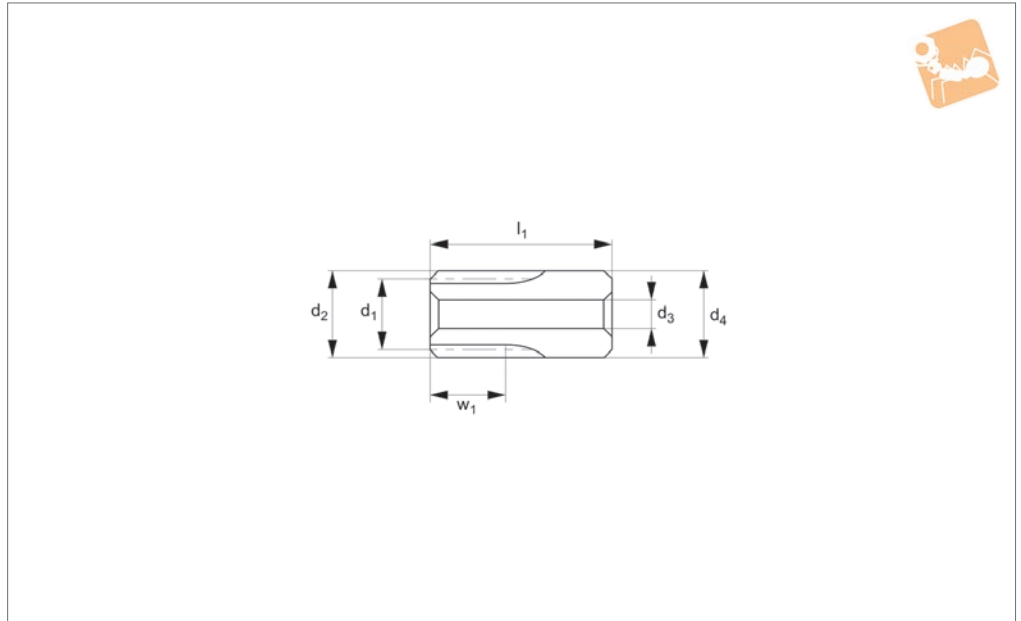


Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	l ₁	l ₂	Thread d ₅	Torque Nm max.	Weight g
R5146.080-090-14-05-08	m 0.8	90	72.0	73.6	5	8	28	14	4	2xM 4	8.14	198.1
R5146.080-100-14-05-08	m 0.8	100	80.0	81.6	5	8	28	14	4	2xM 4	9.17	236.0
R5146.080-100-14-05-10	m 0.8	100	80.0	81.6	5	10	28	14	4	2xM 4	9.17	233.0
R5146.080-120-14-05-08	m 0.8	120	96.0	97.6	5	8	30	14	4	2xM 4	11.24	330.0
R5146.080-120-14-05-10	m 0.8	120	96.0	97.6	5	10	30	14	4	2xM 4	11.24	327.1

STANDARD SPUR GEARS



R5148



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 = 0,016 - 0,048mm.

Tips

For module 0.8 white polyacetal gears with 16-120 teeth, see R5149. For versions with threaded holes for set screws, see R5150.

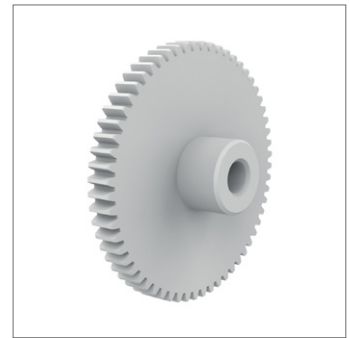
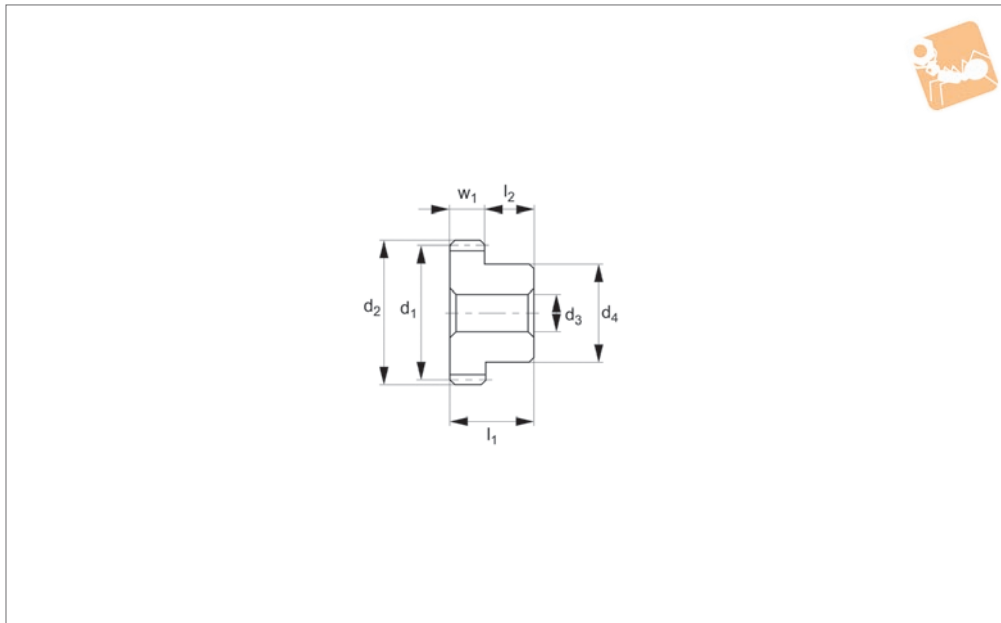
Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H9	d_4	l_1	Torque Nm max.	Weight g
R5148.080-014	m 0.8	14	11.2	12.8	7	4	12.8	20	0.48	3.0
R5148.080-015	m 0.8	15	12.0	13.6	7	4	13.6	20	0.51	3.4



Spur Gears - Module 0.8 - Plastic

white polyacetal - 16-120 teeth



R5149

STANDARD SPUR GEARS

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 = 0,016 - 0,048mm.

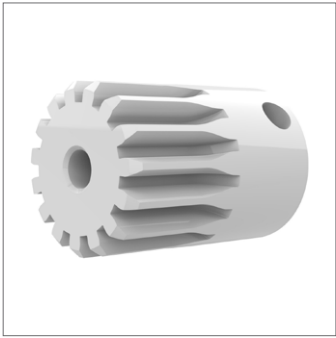
Tips

For a version of this product with 14-15 teeth, see R5148. For white polyacetal module 0.8 gears with threaded holes for set screws, see R5152.

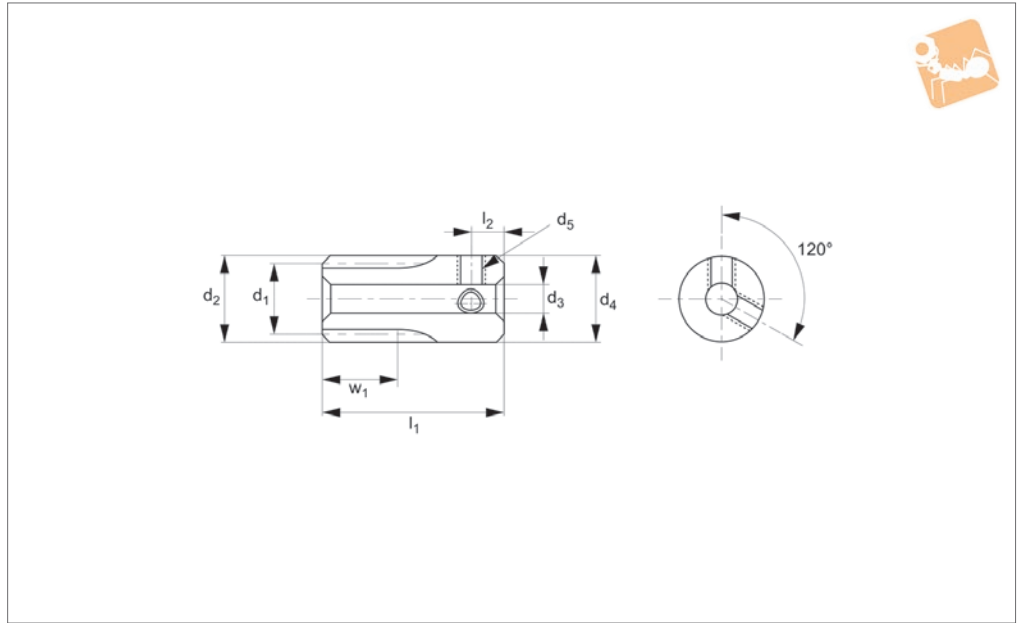
Max. allowable torque (Nm) is based on

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
R5149.080-016	m 0.8	16	12.8	14.4	5	4	10.0	14	9	0.39	1.7
R5149.080-018	m 0.8	18	14.4	16.0	5	4	10.0	14	9	0.44	1.9
R5149.080-020	m 0.8	20	16.0	17.6	5	4	10.0	14	9	0.49	2.2
R5149.080-022	m 0.8	22	17.6	19.2	5	5	12.5	14	9	0.54	2.9
R5149.080-024	m 0.8	24	19.2	20.8	5	5	12.5	14	9	0.59	3.2
R5149.080-025	m 0.8	25	20.0	21.6	5	5	12.5	14	9	0.61	3.4
R5149.080-028	m 0.8	28	22.4	24.0	5	5	12.5	14	9	0.68	4.0
R5149.080-030	m 0.8	30	24.0	25.6	5	5	12.5	14	9	0.73	4.4
R5149.080-032	m 0.8	32	25.6	27.2	5	5	12.5	14	9	0.78	4.8
R5149.080-036	m 0.8	36	28.8	30.4	5	6	14.0	14	9	0.88	6.0
R5149.080-040	m 0.8	40	32.0	33.6	5	6	14.0	14	9	0.98	7.1
R5149.080-045	m 0.8	45	36.0	37.6	5	6	14.0	14	9	1.10	8.6
R5149.080-048	m 0.8	48	38.4	40.0	5	6	14.0	14	9	1.17	9.6
R5149.080-050	m 0.8	50	40.0	41.6	5	6	14.0	14	9	1.22	10.3
R5149.080-056	m 0.8	56	44.8	46.4	5	6	14.0	14	9	1.37	12.6
R5149.080-060	m 0.8	60	48.0	49.6	5	6	14.0	14	9	1.46	14.2
R5149.080-064	m 0.8	64	51.2	52.8	5	6	14.0	14	9	1.56	15.9
R5149.080-070	m 0.8	70	56.0	57.6	5	8	16.0	14	9	1.71	19.0
R5149.080-072	m 0.8	72	57.6	59.2	5	8	16.0	14	9	1.76	20.1
R5149.080-080	m 0.8	80	64.0	65.6	5	8	16.0	14	9	1.95	24.2
R5149.080-090	m 0.8	90	72.0	73.6	5	8	20.0	14	9	2.20	31.7
R5149.080-100	m 0.8	100	80.0	81.6	5	8	24.0	14	9	2.44	40.2
R5149.080-120	m 0.8	120	96.0	97.6	5	8	30.0	14	9	2.93	59.0



R5150



Material

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

Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling gears = 0,016 - 0,048mm.

Tips

For module 0.8 white polyacetal gears with 16-120 teeth, see R5152.

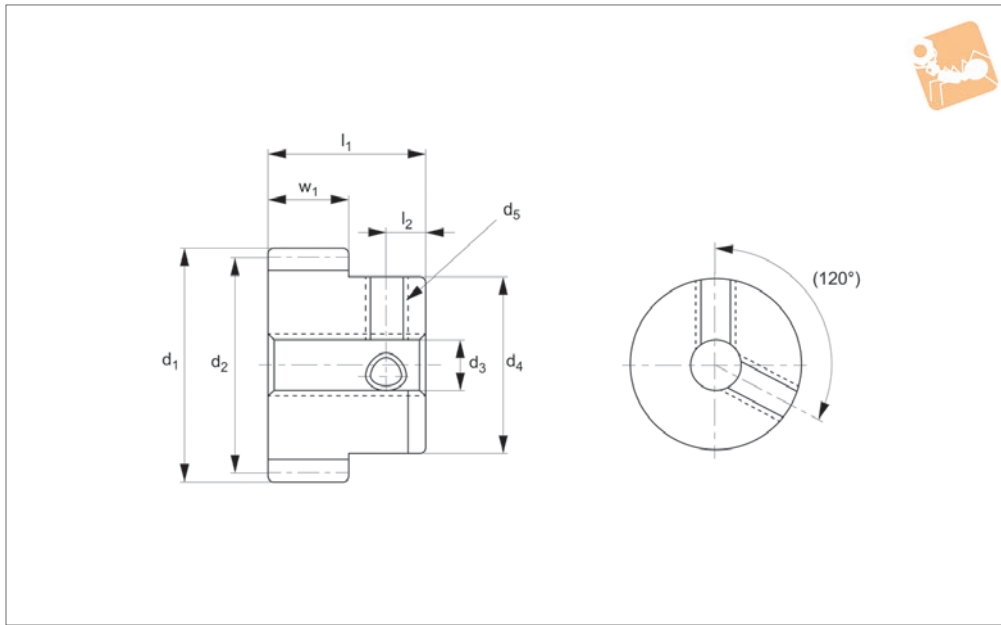
Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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	Thread d ₅	Torque Nm max.	Weight g
R5150.080-014	m 0.8	14	11.2	12.8	7	3	12.8	20	3	2xM 3	0.48	3.1
R5150.080-015	m 0.8	15	12.0	13.6	7	3	13.6	20	3	2xM 3	0.51	3.5



Spur Gears - Module 0.8 - Plastic

white polyacetal - set screw - 16-120 teeth



R5152

STANDARD SPUR GEARS

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 = 0,016 - 0,048mm.

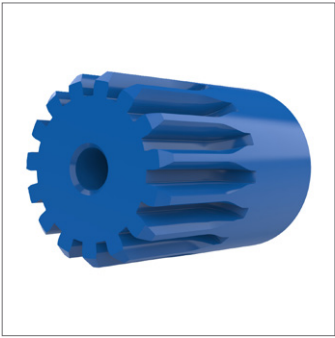
Tips

For module 0.8 white polyacetal gears with 14-15 teeth, see R5150. For versions of this product without threaded holes, see R5149 & R5150.

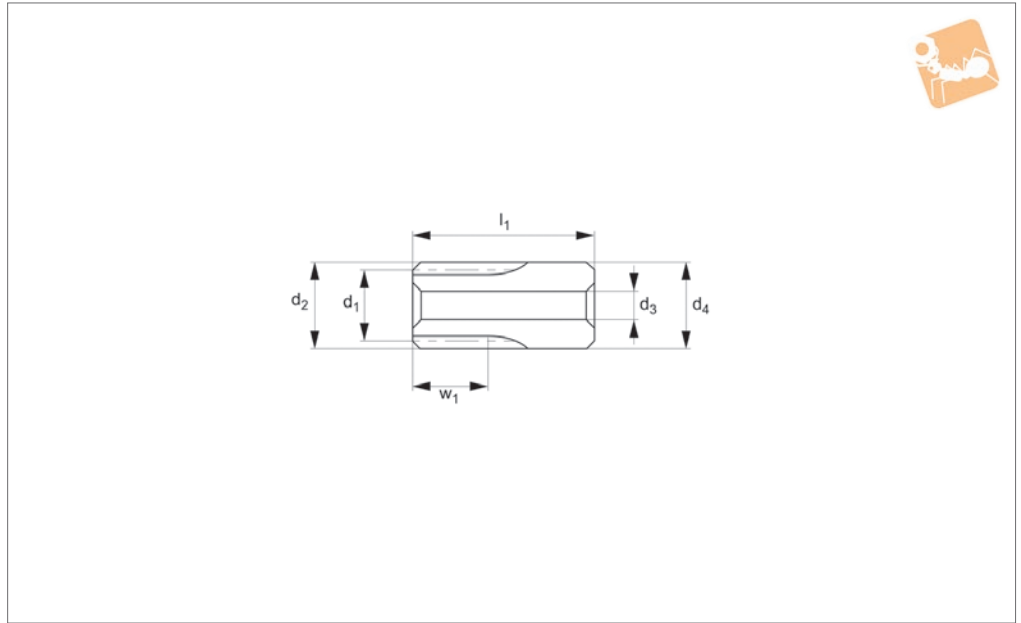
Max. allowable torque (Nm) is based on

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	Thread d ₅	Torque Nm max.	Weight g
R5152.080-016	m 0.8	16	12.8	14.4	5	3	10	12	4	2xM 3	0.39	1.5
R5152.080-018	m 0.8	18	14.4	16.0	5	3	12	12	4	2xM 3	0.44	2.1
R5152.080-020	m 0.8	20	16.0	17.6	5	3	12	12	4	2xM 3	0.49	2.4
R5152.080-022	m 0.8	22	17.6	19.2	5	3	15	12	4	2xM 3	0.54	3.3
R5152.080-024	m 0.8	24	19.2	20.8	5	3	16	12	4	2xM 3	0.59	3.9
R5152.080-025	m 0.8	25	20.0	21.6	5	3	16	12	4	2xM 3	0.61	4.0
R5152.080-028	m 0.8	28	22.4	24.0	5	3	20	12	4	2xM 3	0.68	5.7
R5152.080-030	m 0.8	30	24.0	25.6	5	3	20	12	4	2xM 3	0.73	6.1
R5152.080-032	m 0.8	32	25.6	27.2	5	3	20	12	4	2xM 3	0.78	6.6
R5152.080-036	m 0.8	36	28.8	30.4	5	4	22	12	4	2xM 4	0.88	8.1
R5152.080-040	m 0.8	40	32.0	33.6	5	4	22	12	4	2xM 4	0.98	9.2
R5152.080-045	m 0.8	45	36.0	37.6	5	4	22	12	4	2xM 4	1.10	10.7
R5152.080-048	m 0.8	48	38.4	40.0	5	4	22	12	4	2xM 4	1.17	11.7
R5152.080-050	m 0.8	50	40.0	41.6	5	4	22	12	4	2xM 4	1.22	12.4
R5152.080-056	m 0.8	56	44.8	46.4	5	4	22	12	4	2xM 4	1.37	14.6
R5152.080-060	m 0.8	60	48.0	49.6	5	4	22	12	4	2xM 4	1.46	16.3
R5152.080-064	m 0.8	64	51.2	52.8	5	4	22	12	4	2xM 4	1.56	18.0
R5152.080-070	m 0.8	70	56.0	57.6	5	5	24	12	4	2xM 4	1.71	21.5
R5152.080-072	m 0.8	72	57.6	59.2	5	5	24	12	4	2xM 4	1.76	22.5
R5152.080-080	m 0.8	80	64.0	65.6	5	5	24	12	4	2xM 4	1.95	26.8
R5152.080-090	m 0.8	90	72.0	73.6	5	5	24	12	4	2xM 4	2.20	32.8
R5152.080-100	m 0.8	100	80.0	81.6	5	5	24	12	4	2xM 4	2.44	39.5
R5152.080-120	m 0.8	120	96.0	97.6	5	5	24	12	4	2xM 4	2.93	55.1



R5156



Material

Blue 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 = 0,016 - 0,048mm.

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

For module 0.8 blue polyacetal gears with

16-120 teeth, see R5157.

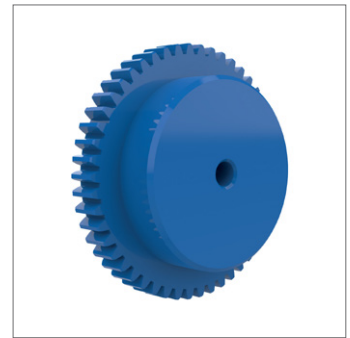
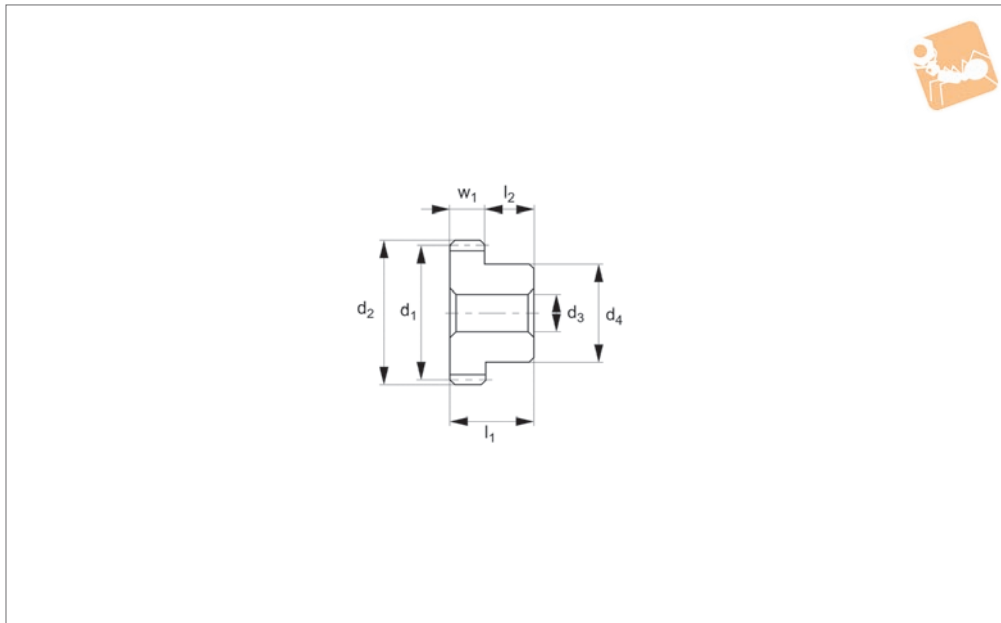
Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H9	d ₄	l ₁	Torque Nm max.	Weight g
R5156.080-014	m 0.8	14	11.2	12.8	7	3	12.8	20	0.48	3.1
R5156.080-015	m 0.8	15	12.0	13.6	7	3	13.6	20	0.51	3.6



Spur Gears - Module 0.8 - Plastic

blue polyacetal - 16-120 teeth



R5157

STANDARD SPUR GEARS

Material

Blue 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 = 0,016 - 0,048mm.

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

For module 0.8 blue polyacetal gears with

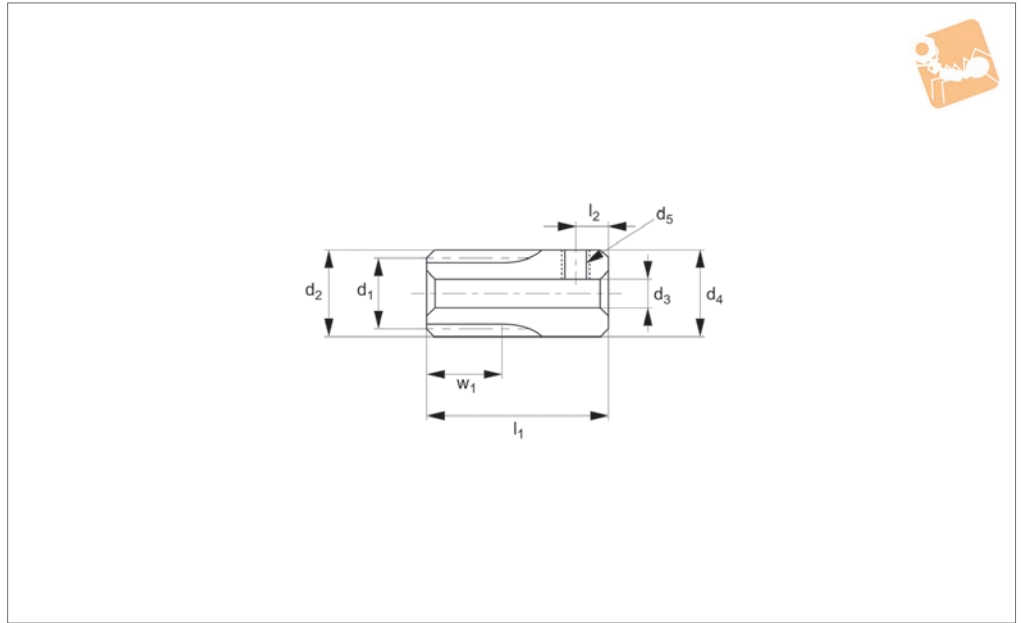
14-15 teeth, see R5156.

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
R5157.080-016	m 0.8	16	12.8	14.4	5	3	10.0	12	7	0.39	1.5
R5157.080-018	m 0.8	18	14.4	16.0	5	3	12.0	12	7	0.44	2.1
R5157.080-020	m 0.8	20	16.0	17.6	5	3	12.0	12	7	0.49	2.4
R5157.080-022	m 0.8	22	17.6	19.2	5	3	15.0	12	7	0.54	3.3
R5157.080-024	m 0.8	24	19.2	20.8	5	3	16.0	12	7	0.59	3.9
R5157.080-025	m 0.8	25	20.0	21.6	5	3	16.0	12	7	0.61	4.1
R5157.080-028	m 0.8	28	22.4	24.0	5	3	20.0	12	7	0.68	5.7
R5157.080-030	m 0.8	30	24.0	25.6	5	3	20.0	12	7	0.73	6.1
R5157.080-032	m 0.8	32	25.6	27.2	5	3	20.0	12	7	0.78	6.6
R5157.080-036	m 0.8	36	28.8	30.4	5	4	22.0	12	7	0.88	8.1
R5157.080-040	m 0.8	40	32.0	33.6	5	4	22.0	12	7	0.98	9.2
R5157.080-045	m 0.8	45	36.0	37.6	5	4	28.0	12	7	1.10	13.0
R5157.080-048	m 0.8	48	38.4	40.0	5	4	30.0	12	7	1.17	14.9
R5157.080-050	m 0.8	50	40.0	41.6	5	4	30.0	12	7	1.22	15.6
R5157.080-056	m 0.8	56	44.8	46.4	5	4	35.0	12	7	1.37	20.4
R5157.080-060	m 0.8	60	48.0	49.6	5	4	38.0	12	7	1.46	23.7
R5157.080-064	m 0.8	64	51.2	52.8	5	4	38.0	12	7	1.56	25.4
R5157.080-070	m 0.8	70	56.0	57.6	5	5	42.0	12	7	1.71	30.6
R5157.080-072	m 0.8	72	57.6	59.2	5	5	45.0	12	7	1.76	33.7
R5157.080-080	m 0.8	80	64.0	65.6	5	5	50.0	12	7	1.95	41.7
R5157.080-090	m 0.8	90	72.0	73.6	5	5	54.0	12	7	2.20	50.9
R5157.080-100	m 0.8	100	80.0	81.6	5	5	58.0	12	7	2.44	61.1
R5157.080-120	m 0.8	120	96.0	97.6	5	5	68.0	12	7	2.93	86.4



R5158



Material

Brass (C3604B). Accuracy to JIS B 1702-1 (ISO) class 9.

Technical Notes

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

gears = 0,016 - 0,048mm.

Tips

For module 0.8 brass gears with 16-120 teeth, see R5160.

Max. allowable torque (Nm) is based on standard operating conditions (see technical

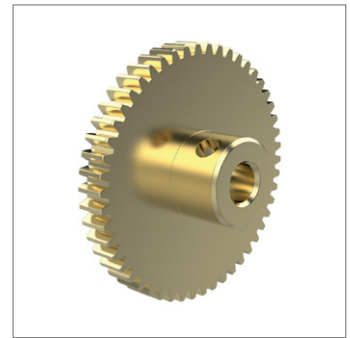
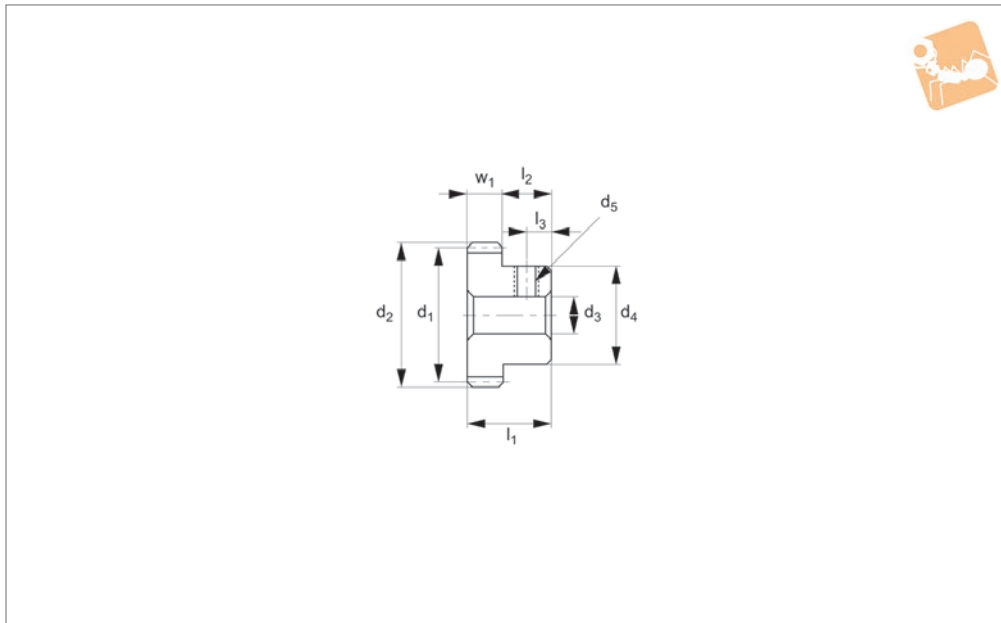
pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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
R5158.080-014	m 0.8	14	11.2	12.8	7	4	12.8	20	3	M 3	0.38	17.8
R5158.080-015	m 0.8	15	12.0	13.6	7	4	13.6	20	3	M 3	0.42	20.4



Spur Gears - Module 0.8

brass - 16-120 teeth



R5160

STANDARD SPUR GEARS

Material

Brass (C3604B).
Accuracy to JIS B 1702-1 (ISO) class 9.

Amount of backlash when assembling gears = 0,016 - 0,048mm.

Tips

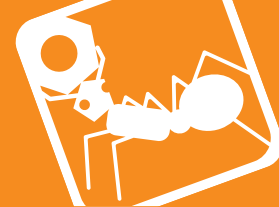
For module 0.8 brass gears with 14-15 teeth see R5158.
Max. allowable torque (Nm) is based on

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.

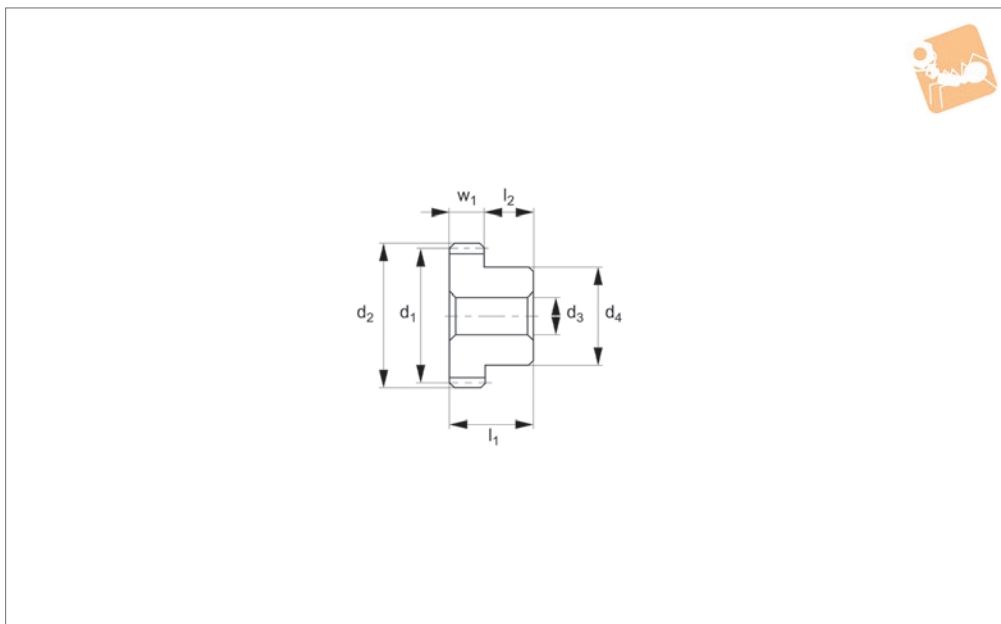
Technical Notes

20° pressure angle, full depth tooth.

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	l ₃	Thread d ₅	Torque Nm max.	Weight g
R5160.080-016-05	m 0.8	16	12.8	14.4	5	4	10.0	14	9	3	M 3	0.34	9.8
R5160.080-016-07	m 0.8	16	12.8	14.4	7	4	10.0	14	7	3	M 3	0.47	10.7
R5160.080-018-05	m 0.8	18	14.4	16.0	5	4	10.0	14	9	3	M 3	0.40	11.3
R5160.080-018-07	m 0.8	18	14.4	16.0	7	4	10.0	14	7	3	M 3	0.57	12.7
R5160.080-020-05	m 0.8	20	16.0	17.6	5	4	10.0	14	9	3	M 3	0.47	12.9
R5160.080-020-07	m 0.8	20	16.0	17.6	7	4	10.0	14	7	3	M 3	0.66	15.0
R5160.080-024-05	m 0.8	24	19.2	20.8	5	5	12.5	14	9	3	M 3	0.62	19.2
R5160.080-024-07	m 0.8	24	19.2	20.8	7	5	12.5	14	7	3	M 3	0.87	22.0
R5160.080-025-05	m 0.8	25	20.0	21.6	5	5	12.5	14	9	3	M 3	0.66	20.2
R5160.080-025-07	m 0.8	25	20.0	21.6	7	5	12.5	14	7	3	M 3	0.92	23.5
R5160.080-028-05	m 0.8	28	22.4	24.0	5	5	12.5	14	9	3	M 3	0.77	23.6
R5160.080-028-07	m 0.8	28	22.4	24.0	7	5	12.5	14	7	3	M 3	1.08	28.2
R5160.080-030-05	m 0.8	30	24.0	25.6	5	5	12.5	14	9	3	M 3	0.84	26.1
R5160.080-030-07	m 0.8	30	24.0	25.6	7	5	12.5	14	7	3	M 3	1.18	31.7
R5160.080-032-05	m 0.8	32	25.6	27.2	5	5	12.5	14	9	4	M 3	0.92	28.8
R5160.080-036-05	m 0.8	36	28.8	30.4	5	6	14.0	14	9	4	M 4	1.07	35.8
R5160.080-040-05	m 0.8	40	32.0	33.6	5	6	14.0	14	9	4	M 4	1.23	42.3
R5160.080-045-05	m 0.8	45	36.0	37.6	5	6	14.0	14	9	4	M 4	1.43	51.4
R5160.080-048-05	m 0.8	48	38.4	40.0	5	6	14.0	14	9	4	M 4	1.55	57.3
R5160.080-050-05	m 0.8	50	40.0	41.6	5	6	14.0	14	9	4	M 4	1.63	61.5
R5160.080-056-05	m 0.8	56	44.8	46.4	5	6	14.0	14	9	4	M 4	1.87	75.1
R5160.080-060-05	m 0.8	60	48.0	49.6	5	6	14.0	14	9	4	M 4	2.03	85.0
R5160.080-064-05	m 0.8	64	51.2	52.8	5	6	16.0	14	9	4	M 4	2.19	99.1
R5160.080-070-05	m 0.8	70	56.0	57.6	5	8	16.0	14	9	4	M 4	2.44	113.8
R5160.080-072-05	m 0.8	72	57.6	59.2	5	8	16.0	14	9	4	M 4	2.52	119.8
R5160.080-080-05	m 0.8	80	64.0	65.6	5	8	16.0	14	9	4	M 4	2.85	145.8
R5160.080-090-05	m 0.8	90	72.0	73.6	5	8	20.0	14	9	4	M 4	3.25	190.6
R5160.080-100-05	m 0.8	100	80.0	81.6	5	8	24.0	14	9	4	M 4	3.67	241.6
R5160.080-120-05	m 0.8	120	96.0	97.6	5	8	30.0	14	9	4	M 4	4.50	354.8



R5161



Material

Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8,
(class 9 for hardened teeth versions). -H
Gear teeth surface induction-hardened to
47-53 HRC for increased durability.

Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling
gears = 0,016 - 0,048mm.

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. H8	d ₄	l ₁	l ₂	Torque Nm max.	Weight g
R5161.080-025	m 0.8	25	20	21.6	8	5	16	18	10	5.27	32.5
R5161.080-025H	m 0.8	25	20	21.6	8	5	16	18	10	5.58	32.5
R5161.080-030	m 0.8	30	24	25.6	8	5	20	18	10	6.75	50.1
R5161.080-030H	m 0.8	30	24	25.6	8	5	20	18	10	7.16	50.1
R5161.080-040	m 0.8	40	32	33.6	8	6	25	18	10	9.82	84.7
R5161.080-040H	m 0.8	40	32	33.6	8	6	25	18	10	10.41	84.7
R5161.080-050	m 0.8	50	40	41.6	8	6	28	18	10	12.96	122.9
R5161.080-050H	m 0.8	50	40	41.6	8	6	28	18	10	13.73	122.9
R5161.080-060	m 0.8	60	48	49.6	8	6	34	18	10	16.14	180.5
R5161.080-060H	m 0.8	60	48	49.6	8	6	34	18	10	17.11	180.5
R5161.080-070	m 0.8	70	56	57.6	8	8 tol. H7	40	18	10	19.36	245.7
R5161.080-070H	m 0.8	70	56	57.6	8	8	40	18	10	20.53	245.7
R5161.080-080	m 0.8	80	64	65.6	8	8 tol. H7	45	18	10	22.61	319.2
R5161.080-080H	m 0.8	80	64	65.6	8	8	45	18	10	23.97	319.2
R5161.080-090	m 0.8	90	72	73.6	8	8 tol. H7	50	18	10	25.83	402.1
R5161.080-090H	m 0.8	90	72	73.6	8	8	50	18	10	27.39	402.1
R5161.080-100	m 0.8	100	80	81.6	8	10 tol. H7	60	18	10	29.10	525.8
R5161.080-100H	m 0.8	100	80	81.6	8	10	60	18	10	30.85	525.8
R5161.080-120	m 0.8	120	96	97.6	8	10 tol. H7	70	18	10	35.65	744.7
R5161.080-120H	m 0.8	120	96	97.6	8	10	70	18	10	37.80	744.7