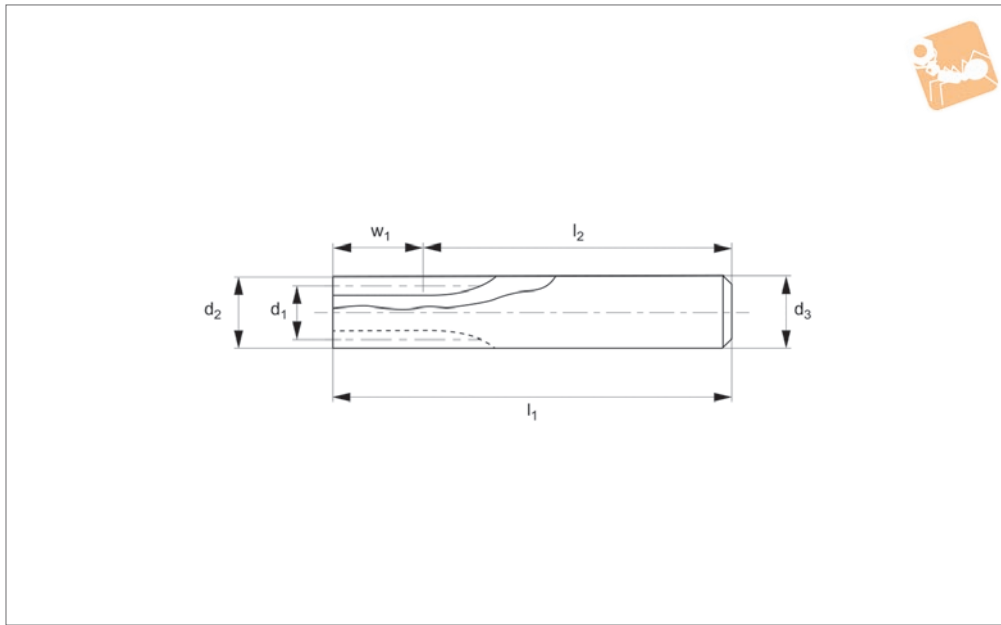




Spur Gears - Module 0.5

stainless steel - 10-15 teeth



R5104

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 = 0,01 - 0,03mm.

Tips

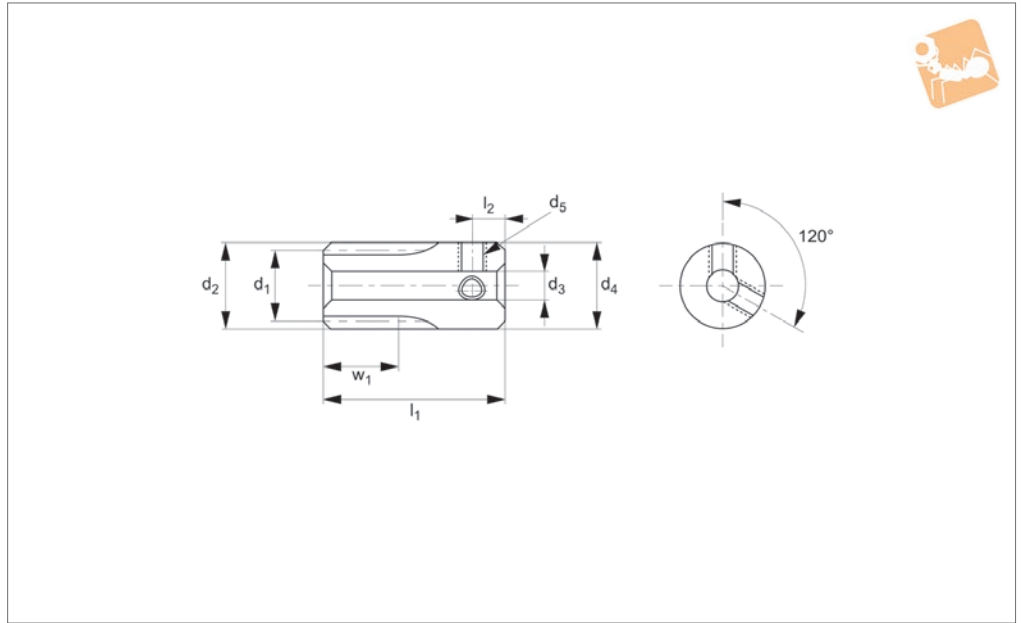
For module 0,5 stainless gears with 16-120 teeth see R5105, R5106 and R5108. Max. allowable torque (Nm) is based on standard operating conditions (see technical

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
R5104.050-010	m 0.5	10	5.0	6.0	10	6.0	55	45	0.29	11.7
R5104.050-012	m 0.5	12	6.0	7.0	10	7.0	55	45	0.40	16.0
R5104.050-014	m 0.5	14	7.0	8.0	10	8.0	55	45	0.53	21.0
R5104.050-015	m 0.5	15	7.5	8.5	10	8.5	55	45	0.59	23.8



R5105



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 = 0,01 - 0,03mm.

Tips

Module 0.5 for gears with 10-15 teeth see R5104. For long spur gears with 16-20 teeth see R5106.
Max. allowable torque (Nm) is based on

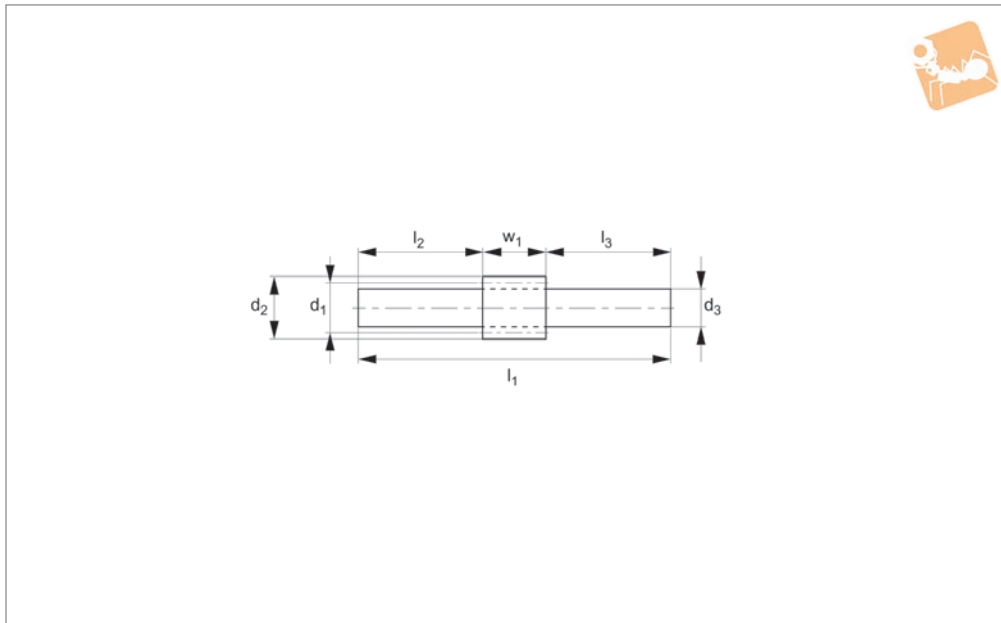
standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	l ₁	l ₃	Thread d ₅	Torque Nm max.	Weight g
R5105.050-016	m 0.5	16	8.0	9.0	8	4	9.0	18	3	2xM 3	0.53	6.2
R5105.050-018	m 0.5	18	9.0	10.0	8	4	10.0	18	3	2xM 3	0.63	8.2
R5105.050-020	m 0.5	20	10.0	11.0	8	4	11.0	18	3	2xM 3	0.74	10.4
R5105.050-024	m 0.5	24	12.0	13.0	8	5	13.0	18	3	2xM 3	0.97	14.5
R5105.050-025	m 0.5	25	12.5	13.5	8	5	13.5	18	3	2xM 3	1.02	15.9
R5105.050-028	m 0.5	28	14.0	15.0	8	5	15.0	18	3	2xM 3	1.20	20.5
R5105.050-030	m 0.5	30	15.0	16.0	8	6	16.0	18	3	2xM 3	1.32	22.7



Spur Gears - Module 0.5

stainless steel - 16-20 teeth



R5106

STANDARD SPUR GEARS

Material

Stainless steel (AISI 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 = 0,01 - 0,03mm.

Tips

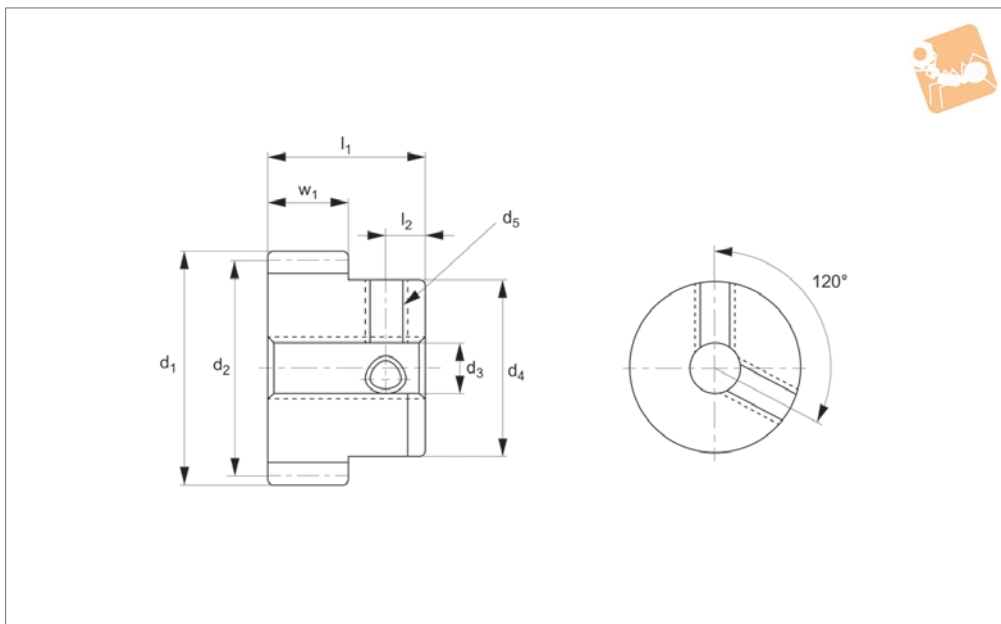
Module 0.5 for gears with 10-15 teeth see R5104, for gears with 16-30 teeth see R5105.
Max. allowable torque (Nm) is based on

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
R5106.050-016	m 0.5	16	8.0	9.0	8	5.0	80	22	50	0.53	14.4
R5106.050-018	m 0.5	18	9.0	10.0	8	6.0	80	22	50	0.63	20.2
R5106.050-020	m 0.5	20	10.0	11.0	8	6.0	80	22	50	0.74	21.1



R5108



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 = 0,01 - 0,03 mm.

Tips

Module 0.5 for gears with 10-15 teeth see R5104,
for gears with 16-30 teeth see R5105,
for gears with 16-20 teeth see R5106- long spur gear.
Max. allowable torque (Nm) is based on

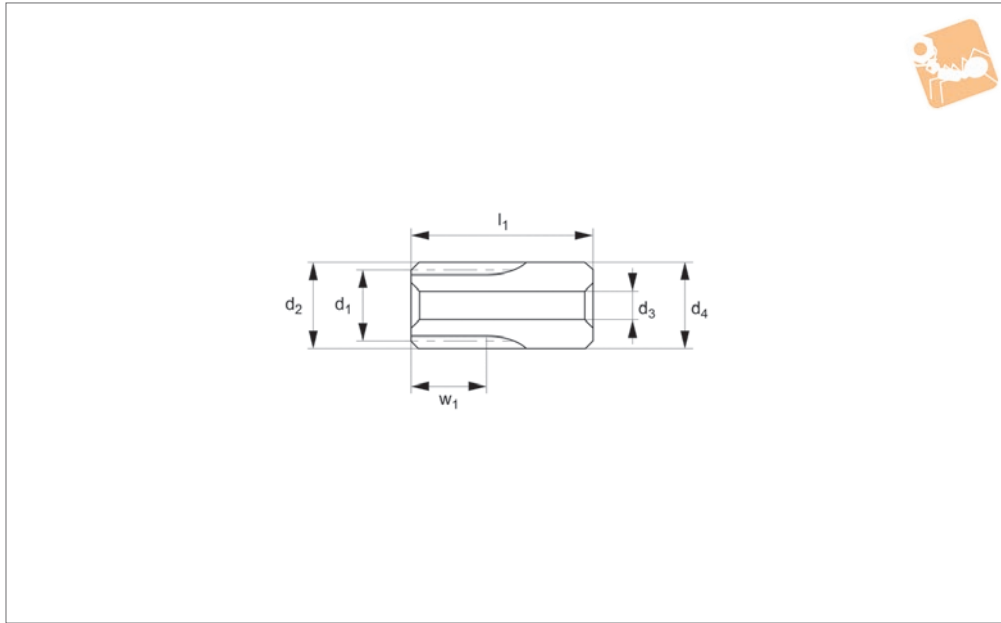
standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d ₁	d ₂	w ₁	d ₃ tol. H8	d ₄	l ₁	l ₃	Thread d ₅	Torque Nm max.	Weight g
R5108.050-032	m 0.5	32	16.0	17.0	5	6	12	13	4	2xM 3	0.90	12.0
R5108.050-036	m 0.5	36	18.0	19.0	5	6	12	13	4	2xM 3	1.05	14.1
R5108.050-040	m 0.5	40	20.0	21.0	5	6	15	13	4	2xM 4	1.20	20.0
R5108.050-045	m 0.5	45	22.5	23.5	5	6	15	13	4	2xM 4	1.39	23.3
R5108.050-048	m 0.5	48	24.0	25.0	5	6	15	13	4	2xM 4	1.51	25.5
R5108.050-050	m 0.5	50	25.0	26.0	5	6	15	13	4	2xM 4	1.59	27.0
R5108.050-054	m 0.5	54	27.0	28.0	5	6	15	13	4	2xM 4	1.74	30.3
R5108.050-056	m 0.5	56	28.0	29.0	5	6	15	13	4	2xM 4	1.82	32.0
R5108.050-060	m 0.5	60	30.0	31.0	5	8	18	13	4	2xM 4	1.98	38.2
R5108.050-064	m 0.5	64	32.0	33.0	5	8	18	13	4	2xM 4	2.14	42.0
R5108.050-070	m 0.5	70	35.0	36.0	5	8	18	13	4	2xM 4	2.38	48.3
R5108.050-072	m 0.5	72	36.0	37.0	5	8	18	13	4	2xM 4	2.46	50.5
R5108.050-075	m 0.5	75	37.5	38.5	5	8	18	13	4	2xM 4	2.58	53.9
R5108.050-080	m 0.5	80	40.0	41.0	5	10	22	13	4	2xM 5	2.78	64.3
R5108.050-090	m 0.5	90	45.0	46.0	5	10	22	13	4	2xM 5	3.18	77.5
R5108.050-100	m 0.5	100	50.0	51.0	5	10	25	13	4	2xM 5	3.58	98.9
R5108.050-120	m 0.5	120	60.0	61.0	5	10	25	13	4	2xM 5	4.39	133.2



Spur Gears - Module 0.5 - Plastic

white polyacetal - 14-18 teeth



R5109

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

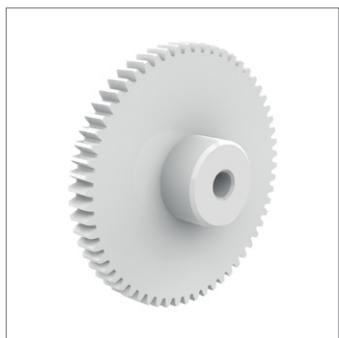
gears = 0,01 - 0,03mm.

Tips

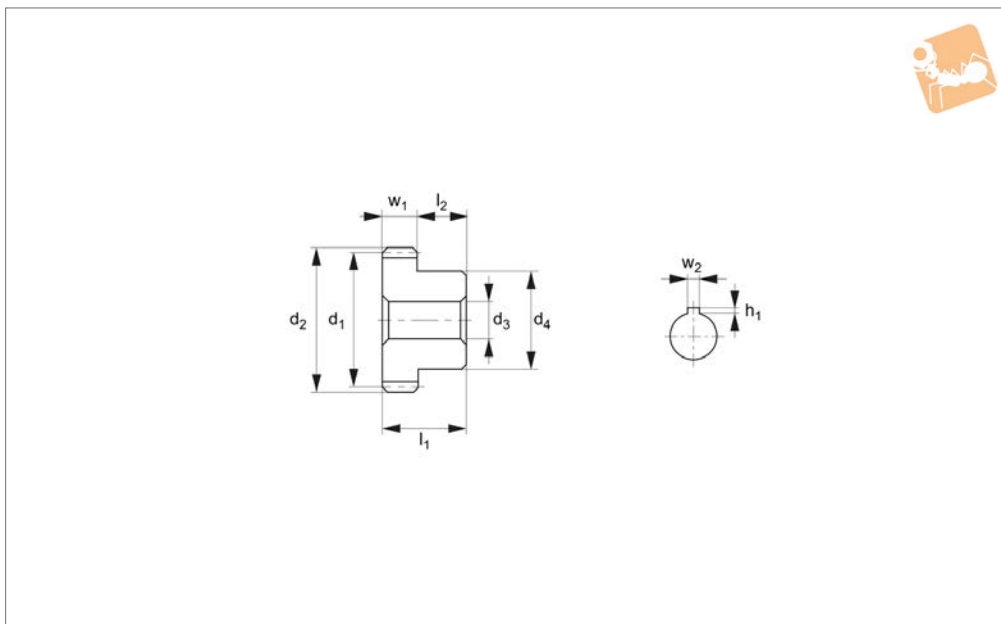
Module 0.5 for gears with 20-120 teeth see R5111.
Max. allowable torque (Nm) is based on standard operating conditions (see tech-

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	Torque Nm max.	Weight g
R5109.050-014	m 0.5	14	7.0	8.0	8	3	9	18	0.214	1.2
R5109.050-015	m 0.5	15	7.5	8.5	8	3	9	18	0.229	1.2
R5109.050-016	m 0.5	16	8.0	9.0	8	3	9	18	0.244	1.3
R5109.050-018	m 0.5	18	9.0	10.0	8	3	10	18	0.275	1.7



R5111



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= 0,01- 0,03 mm.

Tips

Module 0.5 for gears with 14-18 teeth see R5109. Max. allowable torque (Nm) is

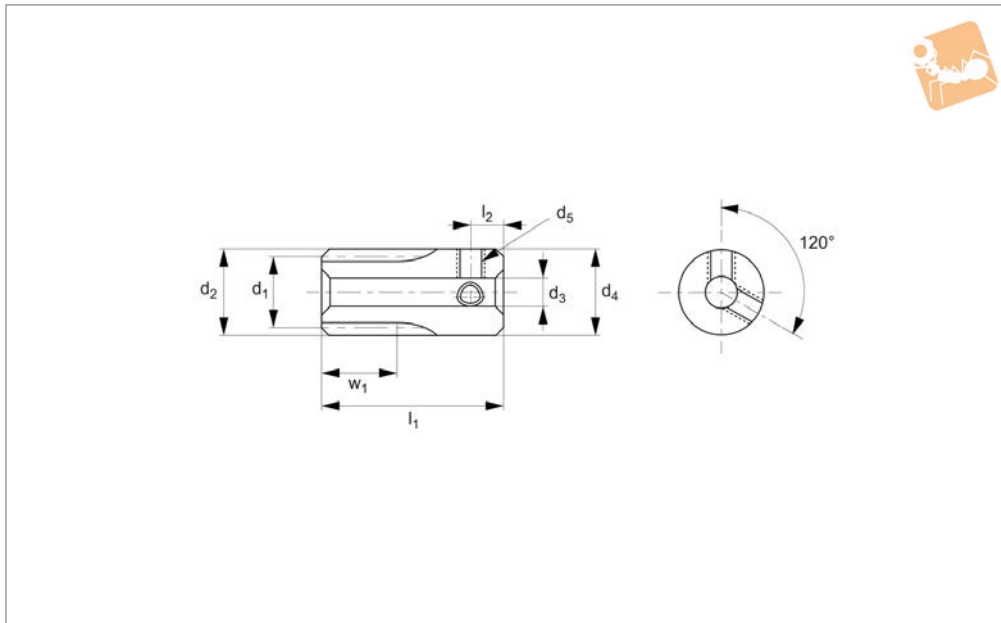
based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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
R5111.050-020	m 0.5	20	10.0	11.0	3	3	8	8	5	0.11	0.6
R5111.050-024	m 0.5	24	12.0	13.0	3	3	8	8	5	0.17	0.8
R5111.050-025	m 0.5	25	12.5	13.5	3	3	8	8	5	0.17	0.8
R5111.050-028	m 0.5	28	14.0	15.0	3	3	8	8	5	0.19	0.9
R5111.050-030	m 0.5	30	15.0	16.0	3	3	8	8	5	0.21	1.0
R5111.050-032	m 0.5	32	16.0	17.0	3	3	8	8	5	0.22	1.1
R5111.050-036	m 0.5	36	18.0	19.0	3	3	8	8	5	0.25	1.4
R5111.050-040	m 0.5	40	20.0	21.0	3	3	10	8	5	0.28	1.8
R5111.050-045	m 0.5	45	22.5	23.5	3	3	10	8	5	0.31	2.2
R5111.050-050	m 0.5	50	25.0	26.0	3	3	10	8	5	0.35	2.6
R5111.050-056	m 0.5	56	28.0	29.0	3	3	10	8	5	0.39	3.1
R5111.050-060	m 0.5	60	30.0	31.0	3	3	10	8	5	0.42	3.4
R5111.050-064	m 0.5	64	32.0	33.0	3	3	10	8	5	0.44	3.9
R5111.050-070	m 0.5	70	35.0	36.0	3	4	12	8	5	0.49	4.7
R5111.050-072	m 0.5	72	36.0	37.0	3	4	12	8	5	0.50	5.0
R5111.050-080	m 0.5	80	40.0	41.0	3	4	12	8	5	0.55	6.0
R5111.050-090	m 0.5	90	45.0	46.0	3	5	14	8	5	0.62	7.6
R5111.050-100	m 0.5	100	50.0	51.0	3	5	14	8	5	0.69	9.2
R5111.050-120	m 0.5	120	60.0	61.0	3	5	14	8	5	0.83	12.9



Spur Gears - Module 0.5 - Plastic

white - set screw - 14-18 teeth



R5112

STANDARD SPUR GEARS

Material

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

Technical Notes

20° pressure angle, full depth tooth.

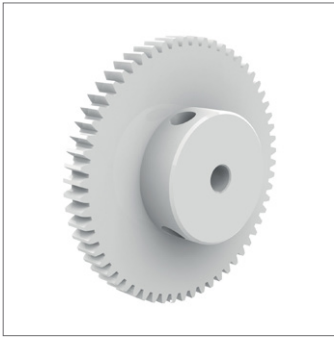
Amount of backlash when assembling gears = 0,01 - 0,03mm.

Tips

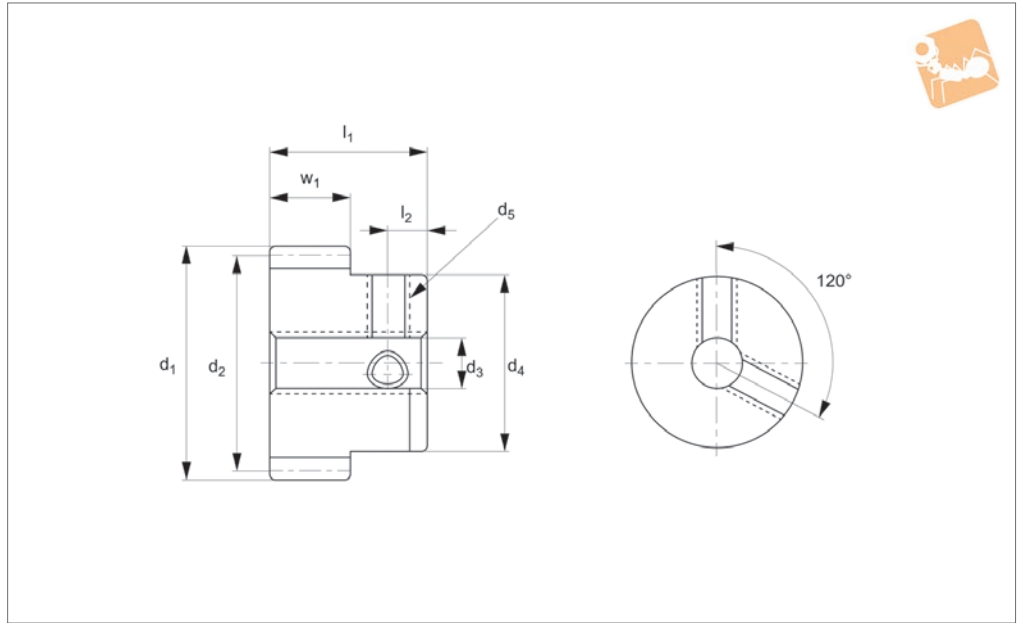
Module 0.5 for gears with 20-120 teeth see R5113. Max. allowable torque (Nm) is based on standard operating conditions

(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 ₃	Thread d ₅	Torque Nm max.	Weight g
R5112.050-014	m 0.5	14	7.0	8.0	8	3	9	18	3	2xM 3	0.214	1.15
R5112.050-015	m 0.5	15	7.5	8.5	8	3	9	18	3	2xM 3	0.229	1.22
R5112.050-016	m 0.5	16	8.0	9.0	8	3	9	18	3	2xM 3	0.244	1.29
R5112.050-018	m 0.5	18	9.0	10.0	8	3	10	18	3	2xM 3	0.275	1.65



R5113



Material

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

Technical Notes

20° pressure angle, full depth tooth.

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

Tips

Module 0.5 for gears with 20-120 teeth see R5112.
Max. allowable torque (Nm) is based on

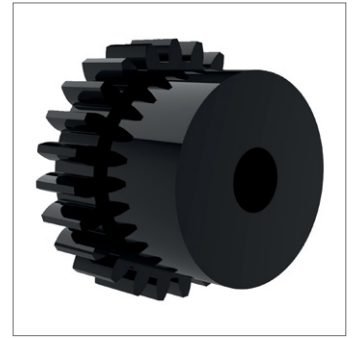
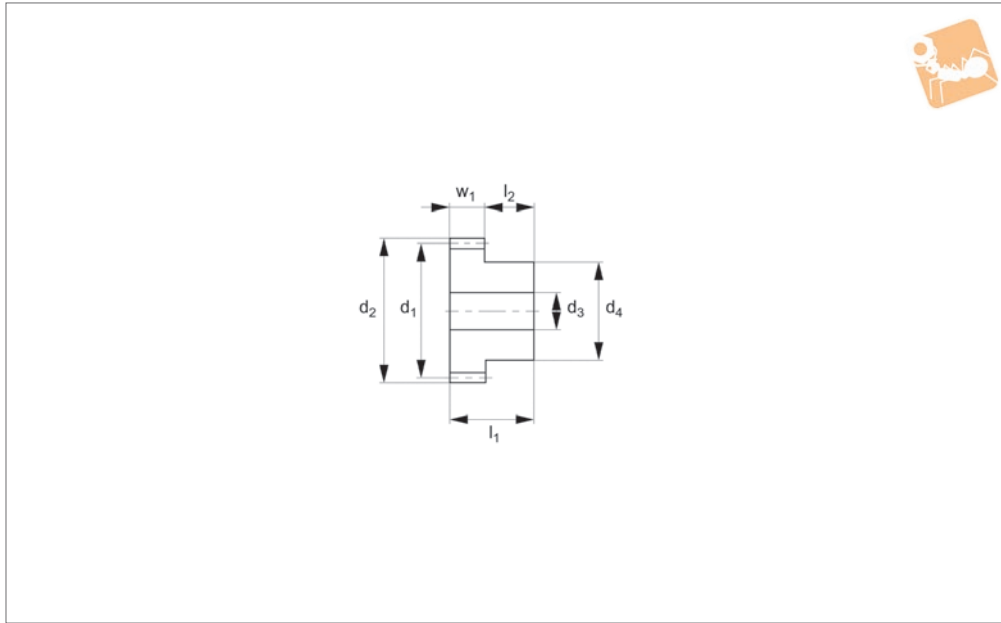
standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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
R5113.050-020	m 0.5	20	10.0	11.0	3	3	8	8	3	2xM 3	0.11	0.57
R5113.050-024	m 0.5	24	12.0	13.0	3	3	10	8	3	2xM 3	0.17	0.90
R5113.050-028	m 0.5	25	12.5	13.5	3	3	10	8	3	2xM 3	0.17	0.94
R5113.050-030	m 0.5	28	14.0	15.0	3	3	12	8	3	2xM 3	0.19	1.30
R5113.050-032	m 0.5	30	15.0	16.0	3	3	12	8	3	2xM 3	0.21	1.39
R5113.050-034	m 0.5	32	16.0	17.0	3	3	14	8	3	2xM 3	0.22	1.77
R5113.050-036	m 0.5	36	18.0	19.0	3	3	15	8	3	2xM 3	0.25	2.15
R5113.050-040	m 0.5	40	20.0	21.0	3	3	15	8	3	2xM 3	0.28	2.40
R5113.050-045	m 0.5	45	22.5	23.5	3	3	15	8	3	2xM 3	0.31	2.75
R5113.050-050	m 0.5	50	25.0	26.0	3	3	15	8	3	2xM 3	0.35	3.15
R5113.050-056	m 0.5	56	28.0	29.0	3	3	15	8	3	2xM 3	0.39	3.67
R5113.050-060	m 0.5	60	30.0	31.0	3	3	15	8	3	2xM 3	0.42	4.06
R5113.050-064	m 0.5	64	32.0	33.0	3	3	15	8	3	2xM 3	0.44	4.47
R5113.050-070	m 0.5	70	35.0	36.0	3	4	16	8	3	2xM 3	0.49	5.25
R5113.050-072	m 0.5	72	36.0	37.0	3	4	16	8	3	2xM 3	0.50	5.48
R5113.050-080	m 0.5	80	40.0	41.0	3	4	16	8	3	2xM 3	0.55	6.49
R5113.050-090	m 0.5	90	45.0	46.0	3	5	18	8	3	2xM 3	0.62	8.20
R5113.050-100	m 0.5	100	50.0	51.0	3	5	18	8	3	2xM 3	0.69	9.77
R5113.050-120	m 0.5	120	60.0	61.0	3	5	18	8	3	2xM 3	0.83	13.43



Spur Gears - Module 0.5 - Plastic

black - 20-30 teeth



R5115

STANDARD SPUR GEARS

Material

Black polyacetal, injection molded.
Accuracy to JIS B 1702-1 (ISO) class 11.

Technical Notes

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

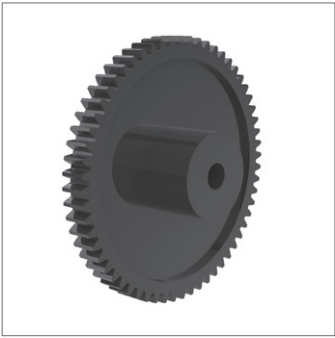
gears= 0,01- 0,03 mm.

Tips

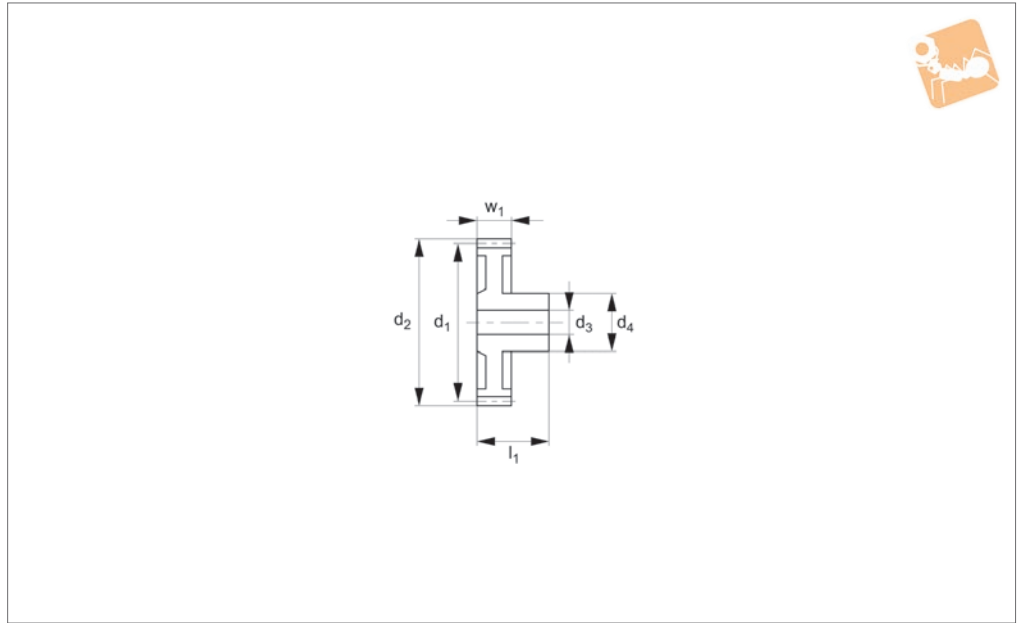
Module 0.5 for gears with 40-100 teeth see R5116. Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor

of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.e, 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
R5115.050-020	m 0.5	20	10	11	4	3	8	8	4	0.176	0.9
R5115.050-024	m 0.5	24	12	13	3	3	10	8	5	0.158	1.0
R5115.050-030	m 0.5	30	15	16	3	3	10	8	5	0.198	1.2



R5116



Material

Black polyacetal, injection molded.
Accuracy to JIS B 1702-1 (ISO) class 11.

Technical Notes

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

gears = 0,01 - 0,03mm.

Tips

Module 0.5 for gears with 20-30 teeth see R5115.
Max. allowable torque (Nm) is based on standard operating conditions (see tech-

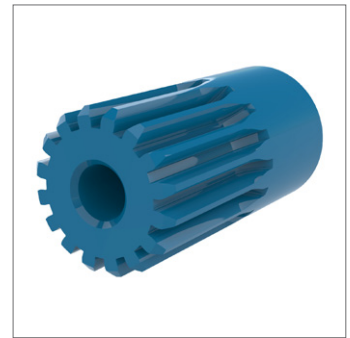
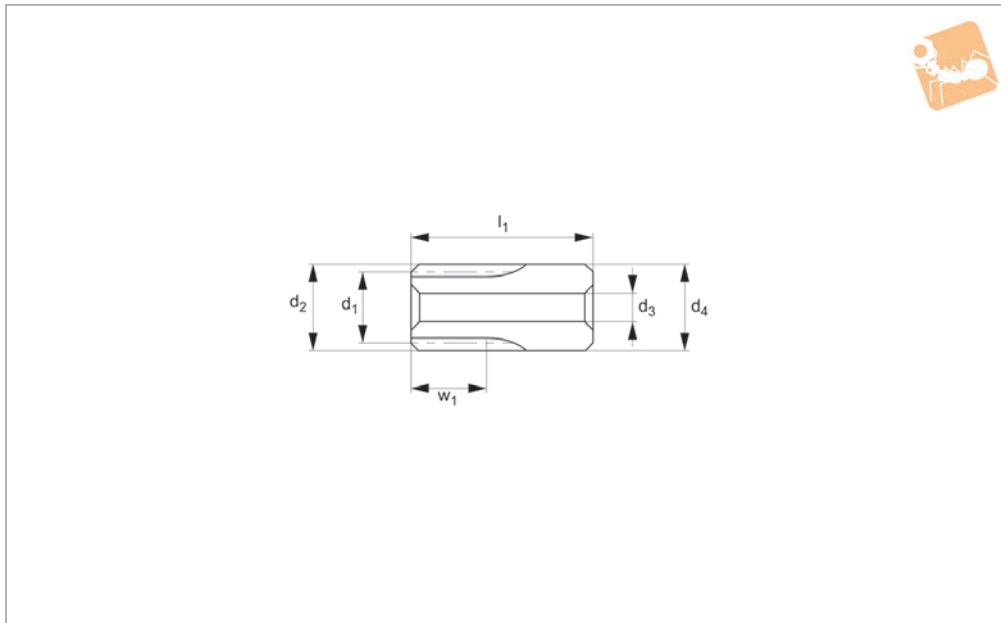
nical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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	Torque Nm max.	Weight g
R5116.050-040	m 0.5	40	20	21	3	3	10	8	8	0.26	1.5
R5116.050-050	m 0.5	50	25	26	3	3	10	8	8	0.33	2.0
R5116.050-060	m 0.5	60	30	31	3	3	10	8	8	0.39	2.7
R5116.050-080	m 0.5	80	40	41	3	3	10	8	8	0.53	4.4
R5116.050-100	m 0.5	100	50	51	3	3	10	8	8	0.66	6.6



Spur Gears - Module 0.5 - Plastic

blue polyacetal - 14-18 teeth



R5117

STANDARD SPUR GEARS

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= 0,01- 0,03 mm.
Blue polyacetal machined gears are

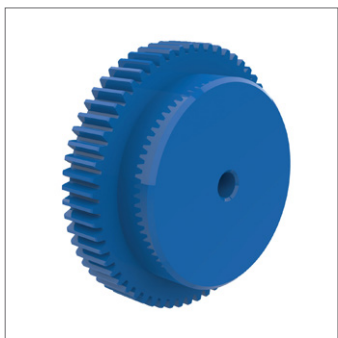
suitable for use in food machinery applications. Approved by the FDA (USA) and by regulators in the EU and Japan, where the food has an alcohol percentage of <15%. Please clean gears thoroughly before use.

Tips

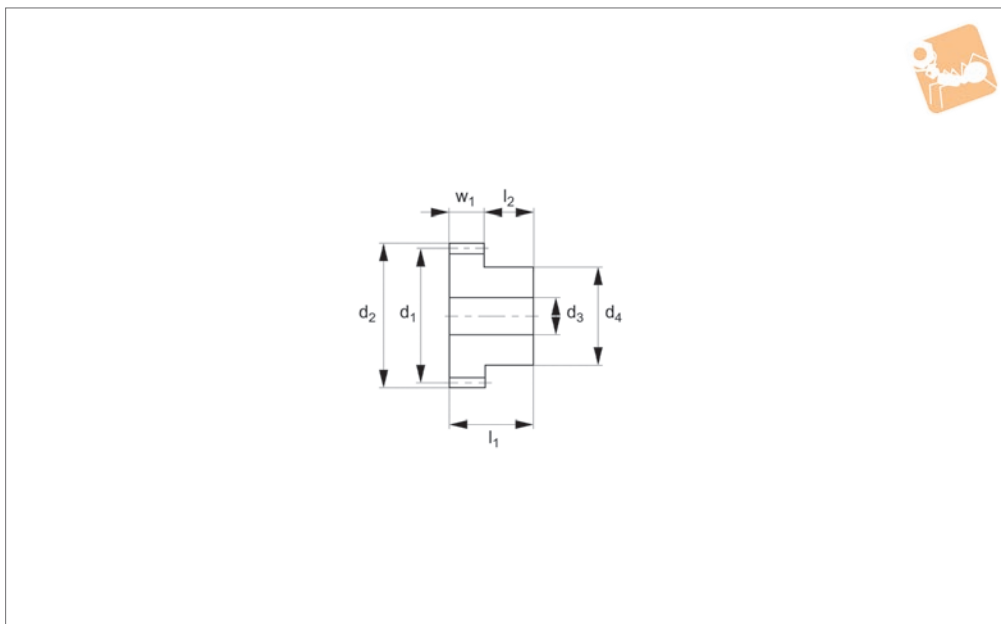
Module 0.5 for gears with 20-40 teeth see R5120.

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
R5117.050-014	m 0.5	14	7.0	8.0	8	3	9	18	0.21	1.1
R5117.050-015	m 0.5	15	7.5	8.5	8	3	9	18	0.23	1.2
R5117.050-016	m 0.5	16	8.0	9.0	8	3	9	18	0.24	1.3
R5117.050-018	m 0.5	18	9.0	10.0	8	3	10	18	0.28	1.6



R5120



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= 0,01 - 0,03mm.
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

Module 0.5 for gears with 14-18 teeth see R5117.

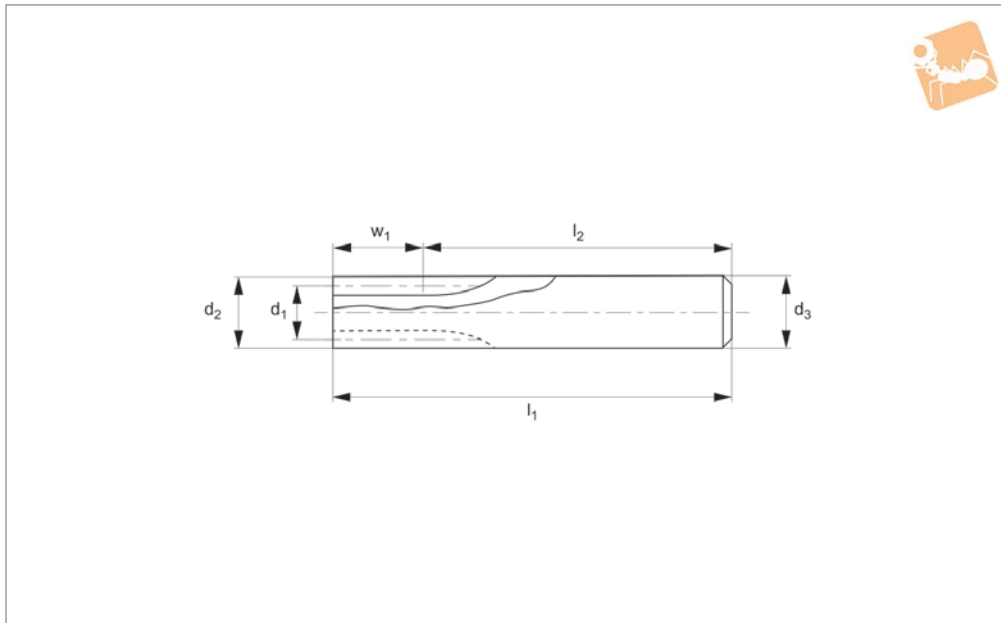
Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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
R5120.050-020	m 0.5	20	10.0	11.0	5	3	8	10	5	0.17	0.8
R5120.050-024	m 0.5	24	12.0	13.0	5	3	10	10	5	0.21	1.2
R5120.050-025	m 0.5	25	12.5	13.5	5	3	10	10	5	0.22	1.3
R5120.050-028	m 0.5	28	14.0	15.0	5	3	12	10	5	0.26	1.8
R5120.050-030	m 0.5	30	15.0	16.0	5	3	12	10	5	0.29	1.9
R5120.050-032	m 0.5	32	16.0	17.0	5	3	14	10	5	0.31	2.4
R5120.050-036	m 0.5	36	18.0	19.0	5	3	15	10	5	0.36	2.9
R5120.050-040	m 0.5	40	20.0	21.0	5	3	15	10	5	0.42	3.3
R5120.050-045	m 0.5	45	22.5	23.5	5	3	18	10	5	0.48	4.5
R5120.050-050	m 0.5	50	25.0	26.0	5	3	20	10	5	0.54	5.6
R5120.050-056	m 0.5	56	28.0	29.0	5	3	22	10	5	0.61	6.9
R5120.050-060	m 0.5	60	30.0	31.0	5	3	24	10	5	0.67	8.1
R5120.050-064	m 0.5	64	32.0	33.0	5	3	26	10	5	0.72	9.3
R5120.050-070	m 0.5	70	35.0	36.0	5	4	26	10	5	0.79	10.3
R5120.050-072	m 0.5	72	36.0	37.0	5	4	28	10	5	0.82	11.3
R5120.050-080	m 0.5	80	40.0	41.0	5	4	32	10	5	0.92	14.3
R5120.050-090	m 0.5	90	45.0	46.0	5	5	36	10	5	1.04	18.1
R5120.050-100	m 0.5	100	50.0	51.0	5	5	40	10	5	1.18	22.4
R5120.050-120	m 0.5	120	60.0	61.0	5	5	50	10	5	1.43	33.5



Spur Gears - Module 0.5

carbon steel - 10-14 teeth



R5121

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= 0,01- 0,03 mm.

Tips

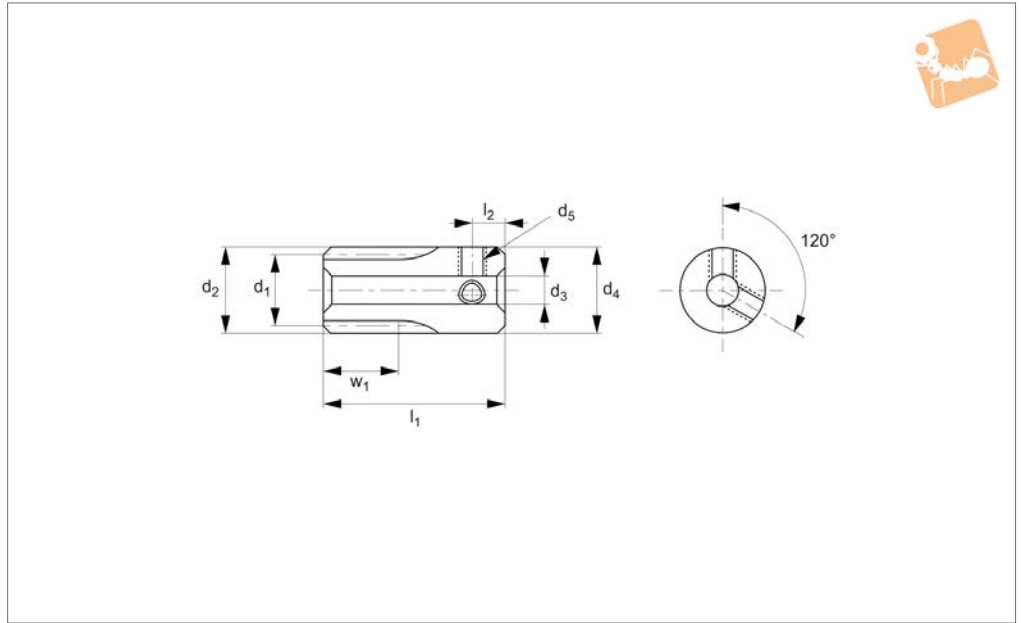
Module 0.5 for gears with 15-24 teeth see R5123, for gears with 25-120 teeth see R5125.
Max. allowable torque (Nm) is based on

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
R5121.050-010	m 0.5	10	5	6	10	6	55	45	0.59	11.5
R5121.050-012	m 0.5	12	6	7	10	7	55	45	0.81	15.8
R5121.050-014	m 0.5	14	7	8	10	8	55	45	1.06	20.8



R5123



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 = 0,01 - 0,03mm.

Tips

For module 0.5 steel gears with 10-14 teeth, see R5121; for 25-120 teeth see R5125.

Max. allowable torque (Nm) is based on

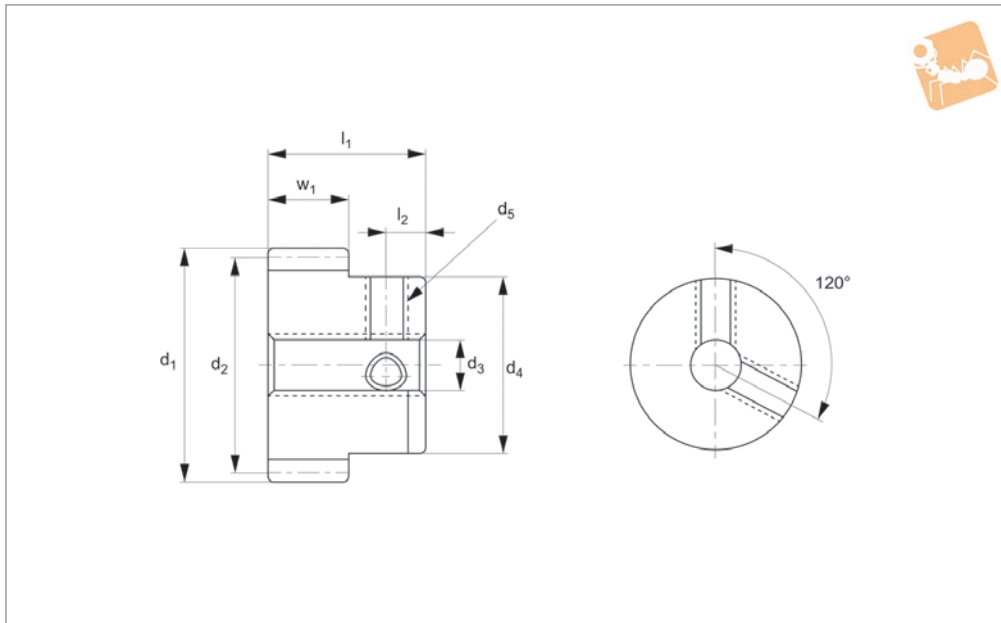
standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

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
R5123.050-015	m 0.5	15	7.5	8.5	8	3	8.5	18	3	2xM 3	0.95	6.0
R5123.050-016	m 0.5	16	8.0	9.0	8	3	9.0	18	3	2xM 3	1.05	6.9
R5123.050-018	m 0.5	18	9.0	10.0	8	4	10.0	18	3	2xM 3	1.26	8.1
R5123.050-020	m 0.5	20	10.0	11.0	8	4	11.0	18	3	2xM 3	1.48	10.3
R5123.050-021	m 0.5	21	10.5	11.5	8	4	11.5	18	3	2xM 3	1.59	11.5
R5123.050-022	m 0.5	22	11.0	12.0	8	4	12.0	18	3	2xM 3	1.71	12.7
R5123.050-024	m 0.5	24	12.0	13.0	8	4	13.0	18	3	2xM 3	1.93	15.4



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.
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. 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