

CONTENTS

SERIES 101

Acetal	: Module 0.5 - 3	p. 103-109
Delrin	: Module 0.5 - 3	p. 110-115
Helical Brass/Steel	: Module 0.3 - 1	p. 116
Brass	: Module 0.3 - 1	p. 117-120
Steel	: Module 0.5 - 6	p. 121-149
Stainless Steel	: Module 1 - 3	p. 150-151



SPUR GEARS

Metric spur gears are available in a range of materials in module sizes from 0.5 to 6.0*. All of the gears in this section have an involute tooth form with a pressure angle of 20°. The module sizes quoted in this catalogue are in accordance with DIN780.

*Larger modules are available to order.

For examples of tooth profiles and geometrical data, see 'Technical Information' pages 192 - 194.

Material Data for Plastic Gears

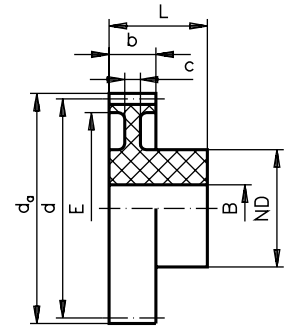
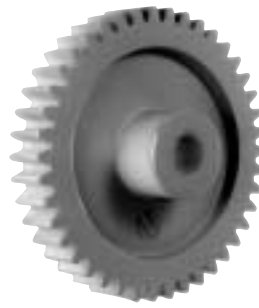
	Symbol / Units	Delrin	Acetal	
Mechanical Properties	Quality	Opaque Procelain	Opaque Procelain	
	Density	ρ g / cm ³	1.425	1.41
	Tensile Strength	σ_s N / mm ²	70	65
	Elongation at failure	ϵ_R %	25-40	40
	Modulus of Elasticity	E n / mm ²	3300	3100
	Hardness	H _k N / mm ²	170	140
	Creep strength after 1000 h static load	$\sigma_s, 1000$ N / mm ²	40	40
	Sliding coefficient of friction*	μ	0.34	0.32
Thermal Properties	Melting Temperature	T _s °C	175	165
	Heat resistance (ISO process A & B)	F _{ISO} °C A/B	124 / 70	100 / 70
	Operating temperature limit (intermittent)	T _{max i} °C	160	150
	Operating temperature limit (continuous)	T _{max c} °C	100	100
	Coefficient of thermal conductivity	λ W / Km	0.31	0.31
	Specific Heat capacity	c kJ / kg K	1.5	1.5
	Linear extension coefficient	α 10 ⁻⁵ / grd	10	10
Electrical Properties	Dielectric Number	ϵ_r	3.7	3.5
	Dielectric loss factor	$\tan \delta$	0.0005	0.003
	Current flow resistance	pD $\Omega \cdot \text{cm}$		
	Dielectric strength	Ed kV / mm	>50	>50
	Creep tracking resistance	-	KA 3c	KA 3c
Chemical Resistance	Diluted Acid		○	○
	Diluted Alkaline		●	●
	Hydrocarbons (saturated oils/fats)		●	●
	Aromatics		●	●
	Ketones, Esters		●	●
	Chlorinated Hydrocarbons		○	○
	Hot water washing		●	●
● Resistant ● Conditionally Resistant ○ Not resistant				
Other Data	Humidity uptake NK 23/50 (sat.)	C _{WN} %	0.3	0.3
	Water uptake (sat.)	C _{WS} %	0.5	0.5
	Max lengthening by humidity in NK 23/50	$\Delta l / \Delta l_N$ %	0.15	0.15
	Combustibility (ASTM-D635 or UL-55)		b.	b.
	Outdoor exposure		UV Sensitive	UV Sensitive

SPUR GEARS - ACETAL

- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal
Module : 0.5
Thickness (b) : 3mm



Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 281 012	12	7	6	4	7	-	-	2	0.6	0.15
101 281 013	13	7.5	6.5	4	7	-	-	2	0.7	0.17
101 281 014	14	8	7	5	7	-	-	2	0.9	0.22
101 281 015	15	8.5	7.5	6	10	-	-	3	1.0	0.35
101 281 016	16	9	8	6	10	-	-	3	1.2	0.36
101 281 017	17	9.5	8.5	6	10	-	-	3	1.3	0.39
101 281 018	18	10	9	8	10	-	-	4	1.5	0.56
101 281 019	19	10.5	9.5	8	10	-	-	4	1.7	0.57
101 281 020	20	11	10	8	10	-	-	4	1.8	0.62
101 281 021	21	11.5	10.5	8	10	-	-	4	2.0	0.66
101 281 022	22	12	11	10	10	-	-	4	2.2	0.95
101 281 023	23	12.5	11.5	10	10	-	-	4	2.4	0.98
101 281 024	24	13	12	10	10	-	-	4	2.7	1.04
101 281 025	25	13.5	12.5	10	10	-	-	4	2.9	1.06
101 281 026	26	14	13	10	10	-	-	4	3.1	1.09
101 281 027	27	14.5	13.5	10	10	-	-	4	3.4	1.14
101 281 028	28	15	14	10	10	-	-	4	3.7	1.16
101 281 030	30	16	15	12	10	-	-	4	4.2	1.59
101 281 032	32	17	16	12	10	-	2	4	4.8	1.68
101 281 035	35	18.5	17.5	12	10	-	2	4	5.7	1.86
101 281 036	36	19	18	12	10	-	2	4	6.1	1.89
101 281 038	38	20	19	12	10	-	2	4	6.8	2.00
101 281 040	40	21	20	12	10	14.5	2	4	7.5	1.95
101 281 042	42	22	21	12	10	16	2	4	8.3	2.12
101 281 045	45	23.5	22.5	12	10	18.5	2	4	9.5	2.20
101 281 048	48	25	24	15	10	19	2	6	10.8	3.01
101 281 050	50	26	25	15	10	20	2	6	11.8	2.96
101 281 052	52	27	26	15	10	21	2	6	12.7	3.12
101 281 054	54	28	27	15	10	22	2	6	13.7	3.24
101 281 055	55	28.5	27.5	15	10	23	2	6	14.2	3.20
101 281 056	56	29	28	15	10	23	2	6	14.8	3.40
101 281 060	60	31	30	15	10	24	2	6	16.8	3.63
101 281 064	64	33	32	15	10	25	2	6	17.9	4.05
101 281 065	65	33.5	32.5	15	10	27	2	6	18.2	4.00
101 281 070	70	36	35	15	10	29	2	6	19.6	4.35
101 281 072	72	37	36	15	10	30	2	6	20.1	4.55
101 281 075	75	38.5	37.5	15	10	33	2	6	21.0	4.66
101 281 080	80	41	40	15	10	36	2	6	22.3	5.27
101 281 090	90	46	45	15	10	39	2	6	25.0	5.64
101 281 096	96	49	48	15	10	42	2	6	26.6	7.05
101 281 100	100	51	50	15	10	44	2	6	27.7	7.35
101 281 120	120	61	60	15	10	54	2	6	33.2	10.20

SPUR GEARS - ACETAL

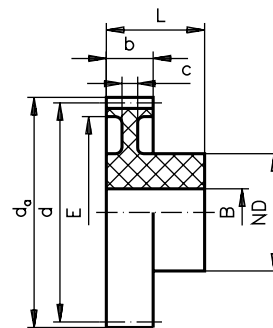
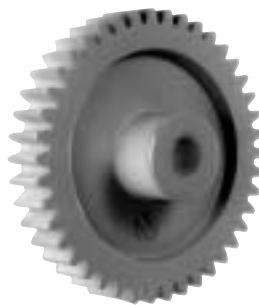
- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal

Module : 0.7

Thickness (b) : 6mm



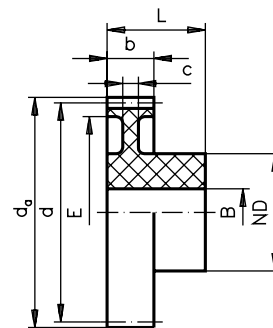
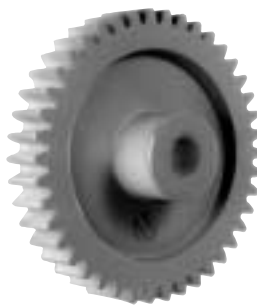
Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 282 012	12	9.8	8.4	6	15	-	-	3	2.6	0.70
101 282 013	13	10.5	9.1	6	15	-	-	3	3.1	0.80
101 282 014	14	11.2	9.8	6	15	-	-	3	3.6	0.90
101 282 015	15	11.9	10.5	6	15	-	-	3	4.1	1.00
101 282 016	16	12.6	11.2	9	15	-	-	4	4.7	1.30
101 282 017	17	13.3	11.9	9	15	-	-	4	5.3	1.40
101 282 018	18	14	12.6	9	15	-	-	4	5.9	1.60
101 282 019	19	14.7	13.3	9	15	-	-	4	6.6	1.70
101 282 020	20	15.4	14	9	15	-	-	4	7.4	1.80
101 282 021	21	16.1	14.7	9	15	-	-	4	8.1	1.90
101 282 022	22	16.8	15.4	9	15	-	-	4	8.9	2.10
101 282 023	23	17.5	16.1	9	15	-	-	4	9.7	2.20
101 282 024	24	18.2	16.8	9	15	13.5	3	4	10.6	2.10
101 282 025	25	18.9	17.5	9	15	13.5	3	6	11.5	2.20
101 282 026	26	19.6	18.2	9	15	13.5	3	6	12.5	2.40
101 282 027	27	20.3	18.9	9	15	13.5	3	6	13.4	2.60
101 282 028	28	21	19.6	9	15	13.5	3	6	14.5	2.80
101 282 030	30	22.4	21	12	15	16	3	6	16.6	3.50
101 282 032	32	23.8	22.4	12	15	16	3	6	18.9	4.00
101 282 035	35	25.9	24.5	15	15	19	3	6	22.6	5.40
101 282 036	36	26.6	25.2	15	15	19	3	6	23.9	5.60
101 282 038	38	28	26.6	15	15	21.5	3	6	26.7	5.80
101 282 040	40	29.4	28	15	15	21.5	3	6	29.6	6.20
101 282 042	42	30.8	29.4	18	15	24.5	2	6	32.6	7.20
101 282 045	45	32.9	31.5	18	15	24.5	2	6	37.4	8.00
101 282 048	48	35	33.6	18	15	24.5	2	8	42.6	8.60
101 282 050	50	36.4	35	18	15	28	2	8	46.2	8.40
101 282 052	52	37.8	36.4	18	15	28	2	8	50.0	9.00
101 282 054	54	39.2	37.8	18	15	28	2	8	53.9	9.70
101 282 055	55	39.9	38.5	18	15	31	2	8	55.9	9.60
101 282 056	56	40.6	39.2	18	15	31	2	8	58.0	10.00
101 282 060	60	43.4	42	18	15	31	2	8	66.0	11.40
101 282 064	64	46.2	44.8	18	15	37.5	2	8	70.3	10.80
101 282 065	65	46.9	45.5	18	15	37.5	2	8	71.4	11.00
101 282 070	70	50.4	49	18	15	37.5	2	8	76.9	13.40
101 282 072	72	51.8	50.4	18	15	37.5	2	8	79.1	14.40
101 282 075	75	53.9	52.5	18	15	37.5	2	10	82.3	15.60
101 282 080	80	57.4	56	21	15	47	2	10	87.7	15.60
101 282 090	90	64.4	63	21	15	56.5	2	10	98.3	16.40
101 282 096	96	68.6	67.2	21	15	56.5	2	10	100.0	20.00
101 282 100	100	71.4	70	21	15	56.5	2	10	100.0	22.40
101 282 120	120	85.4	84	21	15	77	2	10	130.0	24.80

SPUR GEARS - ACETAL

- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal
Module : 1.0
Thickness (b) : 9mm



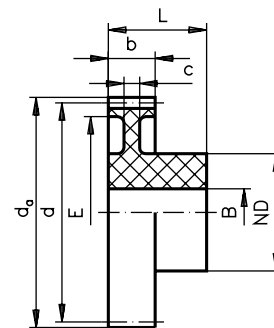
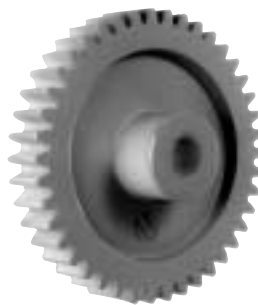
Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 283 012	12	14	12	9	17	-	-	4	8.0	1.8
101 283 013	13	15	13	9	17	-	-	4	9.4	1.9
101 283 014	14	16	14	9	17	-	-	4	11.1	2.2
101 283 015	15	17	15	9	17	-	-	4	12.7	2.5
101 283 016	16	18	16	9	17	-	-	4	14.5	2.8
101 283 017	17	19	17	9	17	-	-	4	16.3	3.0
101 283 018	18	20	18	9	17	13.5	6	4	18.3	3.2
101 283 019	19	21	19	9	17	13.5	6	4	20.4	3.5
101 283 020	20	22	20	9	17	13.5	6	4	22.6	3.9
101 283 021	21	23	21	12	17	16	6	5	24.9	4.7
101 283 022	22	24	22	12	17	16	6	5	27.4	5.1
101 283 023	23	25	23	12	17	16	6	5	29.9	5.6
101 283 024	24	26	24	15	18	19	6	6	32.6	6.6
101 283 025	25	27	25	15	18	19	6	6	35.4	7.2
101 283 026	26	28	26	15	18	19	6	6	38.3	7.7
101 283 027	27	29	27	15	18	19	6	6	41.3	8.1
101 283 028	28	30	28	15	18	22	6	6	44.4	8.4
101 283 030	30	32	30	15	18	22	6	6	50.9	9.4
101 283 032	32	34	32	18	18	24.5	4.6	6	58.0	11.3
101 283 035	35	37	35	18	18	24.5	4.6	8	69.4	12.7
101 283 036	36	38	36	18	18	28	4.6	8	73.4	12.6
101 283 038	38	40	38	18	18	28	4.6	8	81.8	14.0
101 283 040	40	42	40	18	18	28	4.6	8	90.6	15.6
101 283 042	42	44	42	18	18	28	4.6	8	99.9	14.0
101 283 045	45	47	45	18	18	37	4.6	8	110	17.0
101 283 048	48	50	48	18	18	37	4.6	8	130	19.8
101 283 050	50	52	50	18	18	37	4.6	8	140	21.6
101 283 052	52	54	52	21	18	47	4.6	8	150	21.4
101 283 054	54	56	54	21	18	47	4.6	8	160	23.5
101 283 055	55	57	55	21	18	47	4.6	8	170	24.7
101 283 056	56	58	56	21	18	47	4.6	8	170	25.9
101 283 058	58	60	58	21	18	47	4.6	8	185	26.8
101 283 060	60	62	60	21	18	47	4.6	8	200	30.5
101 283 064	64	66	64	21	18	57	4.6	10	210	29.8
101 283 065	65	67	65	21	18	57	4.6	10	210	31.0
101 283 070	70	72	70	21	18	57	4.6	10	230	37.7
101 283 072	72	74	72	21	18	67	4.6	10	240	33.8
101 283 075	75	77	75	21	18	67	4.6	10	250	39.1
101 283 080	80	82	80	21	18	67	4.6	10	260	46.5
101 283 085	85	87	85	21	18	77	4.6	10	280	48.7
101 283 090	90	92	90	21	18	77	4.6	10	300	57.5
101 283 100	100	102	100	24	18	87	4.6	12	340	95.1
101 283 110	110	112	110	24	18	97	4.6	12	380	82.5
101 283 120	120	122	120	24	18	107	4.6	12	420	95.2
101 283 130	130	132	130	24	18	115	4.6	12	460	109.3
101 283 140	140	142	140	24	18	125	4.6	12	500	127.1

SPUR GEARS - ACETAL

- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal
 Module : 1.25
 Thickness (b) : 10mm



Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 284 012	12	17.5	15	9	19	-	-	5	14.1	2.5
101 284 013	13	18.75	16.25	9	19	-	-	5	16.6	3.0
101 284 014	14	20	17.5	9	19	-	-	5	19.2	3.4
101 284 015	15	21.25	18.75	9	19	13.5	7	5	22.1	3.8
101 284 016	16	22.5	20	9	19	13.5	7	5	25.1	4.3
101 284 017	17	23.75	21.25	9	19	13.5	7	5	28.4	4.7
101 284 018	18	25	22.5	12	19	16	7	5	31.8	6.0
101 284 019	19	26.25	23.75	12	19	16	7	5	35.5	6.5
101 284 020	20	27.5	25	12	19	16	7	5	39.3	7.0
101 284 021	21	28.75	26.25	15	19	19	7	6	43.3	8.4
101 284 022	22	30	27.5	15	19	19	7	6	47.6	9.1
101 284 023	23	31.25	28.75	15	19	19	7	6	52.0	9.9
101 284 024	24	32.5	30	15	19	21.5	7	6	56.6	10.3
101 284 025	25	33.75	31.25	15	19	21.5	7	6	61.4	11.2
101 284 026	26	35	32.5	18	19	24	5.5	6	66.4	12.5
101 284 027	27	36.25	33.75	18	19	24	5.5	6	71.7	13.3
101 284 028	28	37.5	35	18	19	24	5.5	8	77.1	13.8
101 284 030	30	40	37.5	18	19	28	5.5	8	88.5	15.0
101 284 032	32	42.5	40	18	19	28	5.5	8	100.0	17.1
101 284 035	35	46.25	43.75	18	19	28	5.5	8	120.0	20.5
101 284 036	36	47.5	45	18	19	37.5	5.5	8	120.0	18.8
101 284 038	38	50	47.5	18	19	37.5	5.5	8	140.0	21.2
101 284 040	40	52.5	50	18	19	37.5	5.5	8	150.0	24.0
101 284 042	42	55	52.5	18	19	37.5	5.5	8	170.0	26.7
101 284 045	45	58.75	56.25	21	19	47.5	5.5	8	190.0	29.4
101 284 048	48	62.5	60	21	19	47.5	5.5	8	220.0	24.0
101 284 050	50	65	62.5	21	19	47.5	5.5	8	240.0	37.1
101 284 052	52	67.5	65	21	19	57	5.5	10	260.0	35.2
101 284 054	54	70	67.5	21	19	57	5.5	10	280.0	38.7
101 284 055	55	71.25	68.75	21	19	57	5.5	10	290.0	40.3
101 284 056	56	72.5	70	21	19	57	5.5	10	300.0	42.4
101 284 060	60	77.5	75	21	19	67	5.5	10	350.0	45.2
101 284 064	64	82.5	80	21	19	67	5.5	10	370.0	52.0
101 284 065	65	83.75	81.25	21	19	67	5.5	10	370.0	55.4
101 284 070	70	90	87.5	21	19	77	5.5	10	400.0	60.5
101 284 075	75	96.25	93.75	21	19	77	5.5	10	430.0	72.5

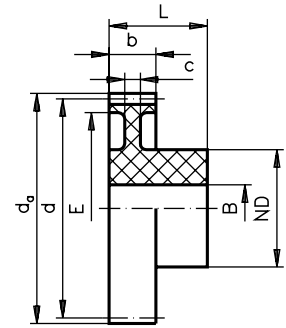
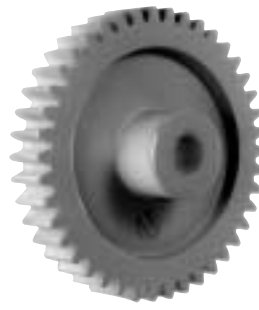
9

SPUR GEARS - ACETAL

- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal
Module : 1.5
Thickness (b) : 12mm



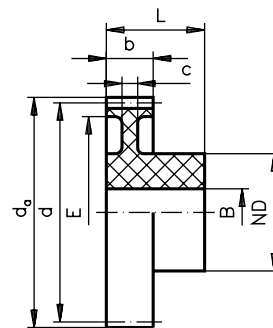
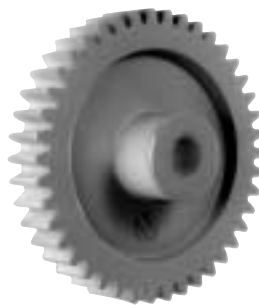
Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 285 012	12	21	18	14	23	-	-	6	24.4	5.6
101 285 013	13	22.5	19.5	14	23	-	-	6	28.7	6.3
101 285 014	14	24	21	14	23	-	-	6	33.3	7.1
101 285 015	15	25.5	22.5	14	23	-	-	6	38.2	7.8
101 285 016	16	27	24	14	23	-	-	6	43.5	8.7
101 285 017	17	28.5	25.5	14	23	-	-	6	49.1	9.7
101 285 018	18	30	27	17	23	-	-	8	55.0	10.9
101 285 019	19	31.5	28.5	17	23	-	-	8	61.3	11.9
101 285 020	20	33	30	17	23	-	-	8	67.9	12.9
101 285 021	21	34.5	31.5	17	23	23	5	8	74.9	13.0
101 285 022	22	36	33	17	23	23	5	8	82.2	14.3
101 285 023	23	37.5	34.5	17	23	23	5	8	89.9	15.5
101 285 024	24	39	36	19	23	27	5	8	97.9	16.8
101 285 025	25	40.5	37.5	19	23	27	5	8	100.0	18.3
101 285 026	26	42	39	19	23	27	5	8	110.0	19.9
101 285 027	27	43.5	40.5	19	23	27	5	8	120.0	21.6
101 285 028	28	45	42	19	23	27	5	8	130.0	23.3
101 285 030	30	48	45	24	23	35	5	10	150.0	26.1
101 285 032	32	51	48	24	23	35	5	10	170.0	29.9
101 285 035	35	55.5	52.5	24	23	43	5	10	200.0	31.2
101 285 036	36	57	54	24	23	43	5	10	220.0	33.0
101 285 038	38	60	57	24	23	43	5	10	240.0	37.7
101 285 040	40	63	60	24	23	50	5	10	270.0	37.4
101 285 042	42	66	63	24	23	50	5	10	290.0	42.3
101 285 045	45	70.5	67.5	24	23	50	5	10	340	49.4
101 285 048	48	75	72	24	23	50	5	10	390	57.2
101 285 050	50	78	75	27	23	65	5	12	420	53.1
101 285 052	52	81	78	27	23	65	5	12	450	58.9
101 285 054	54	84	81	27	23	65	5	12	490	64.8
101 285 055	55	85.5	82.5	27	23	65	5	12	510	67.9
101 285 060	60	93	90	27	23	65	5	12	600	83.9
101 285 070	70	108	105	30	23	90	5	14	780	97.7
101 285 080	80	123	120	30	23	106	5	14	960	119.6
101 285 090	90	138	135	30	23	118	5	14	1140	149.8

SPUR GEARS - ACETAL

- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal
Module : 2.0
Thickness (b) : 15mm



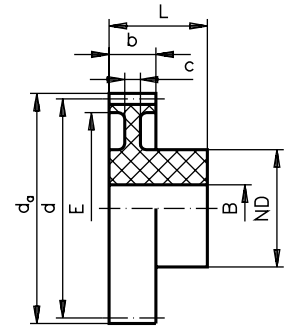
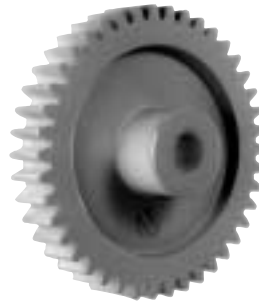
Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 286 012	12	28	24	18.5	27	-	-	8	54.3	11.6
101 286 013	13	30	26	18.5	27	-	-	8	63.8	12.9
101 286 014	14	32	28	18.5	27	-	-	8	74.0	14.6
101 286 015	15	34	30	18.5	27	-	-	8	84.9	16.4
101 286 016	16	36	32	17.5	27	23	6	8	96.6	16.4
101 286 017	17	38	34	17.5	27	25	6	8	100.0	17.9
101 286 018	18	40	36	17.5	27	26	6	8	120.0	19.3
101 286 019	19	42	38	17.5	27	28	6	8	130.0	21.2
101 286 020	20	44	40	20	27	29	6	10	150.0	24.1
101 286 021	21	46	42	20	27	29	6	10	160.0	26.7
101 286 022	22	48	44	20	27	29	6	10	180.0	29.3
101 286 023	23	50	46	20	27	36	6	10	190.0	32.1
101 286 024	24	52	48	24	27	36	6	10	210.0	38.7
101 286 025	25	54	50	24	27	36	6	10	230.0	38.4
101 286 026	26	56	52	24	27	40	6	10	250.0	38.8
101 286 027	27	58	54	24	27	40	6	10	270.0	42.1
101 286 028	28	60	56	24	27	40	6	10	290.0	42.2
101 286 030	30	64	60	24	27	46	6	10	330.0	50.6
101 286 032	32	68	64	26	27	46	6	10	380.0	58.6
101 286 035	35	74	70	26	27	56	6	12	460.0	60.9
101 286 036	36	76	72	26	27	56	6	12	480.0	65.5
101 286 038	38	80	76	26	27	64	6	12	540.0	63.9
101 286 040	40	84	80	26	27	64	6	12	600.0	77.0
101 286 042	42	88	84	26	27	64	6	12	660.0	87.7
101 286 045	45	94	90	30	27	70	6	14	740	100.6
101 286 048	48	100	96	30	27	76	6	14	830	114.7
101 286 050	50	104	100	30	27	80	6	14	890	116.7
101 286 055	55	114	110	30	27	90	6	14	1030	134.8
101 286 060	60	124	120	30	27	100	6	14	1170	153.8
101 286 070	70	144	140	30	27	110	6	14	1450	195.7

SPUR GEARS - ACETAL

- Injection moulded
- Machined bores
- Pressure angle 20°

High strength and low friction coefficient make these gears a popular choice for many applications, including underwater.

Material : Acetal
Module : 3.0
Thickness (b) : 19mm



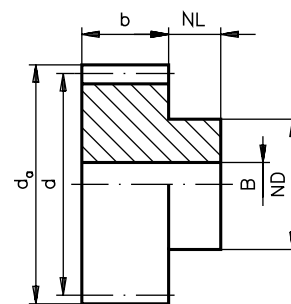
Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	O/A Length L	E	c	Bore B	Torque (Ncm)	Weight (g)
101 288 012	12	42	36	24	34	-	-	12	150.0	30.2
101 288 013	13	45	39	24	34	-	-	12	180.0	34.6
101 288 014	14	48	42	24	34	-	-	12	210.0	39.1
101 288 015	15	51	45	24	34	30	8	12	240.0	43.1
101 288 016	16	54	48	24	34	30	8	12	270.0	49.1
101 288 017	17	57	51	24	34	30	8	12	310.0	54.5
101 288 018	18	60	54	24	34	38	8	12	340.0	51.7
101 288 019	19	63	57	24	34	38	8	12	380.0	63.7
101 288 020	20	66	60	24	34	38	8	12	430.0	69.7
101 288 021	21	69	63	24	34	45	8	12	470.0	70.2
101 288 022	22	72	66	24	34	45	8	12	520.0	78.8
101 288 023	23	75	69	24	34	52	8	12	560.0	79.4
101 288 024	24	78	72	24	34	52	8	12	620.0	86.9
101 288 025	25	81	75	28	34	58	8	14	670.0	93.2
101 288 026	26	84	78	28	34	58	8	14	720.0	102.2
101 288 027	27	87	81	28	34	58	8	14	780.0	110.9
101 288 028	28	90	84	28	34	68	8	14	840.0	108.6
101 288 030	30	96	90	28	34	68	8	14	960.0	129.8
101 288 032	32	102	96	32	34	71	8	16	1080.0	149.9
101 288 033	33	105	99	32	34	71	8	16	1140.0	161.7
101 288 035	35	111	105	32	34	80	8	16	1260.0	169.8
101 288 038	38	120	114	32	34	89	8	16	1440.0	195.5
101 288 040	40	126	120	32	34	95	8	16	1560.0	208.5
101 288 045	45	141	135	32	34	110	8	16	1860.0	255.0

SPUR GEARS - DELRIN

- Milled teeth
- Pressure angle 20°

Suitable for running temperatures up to 100°C with intermittent temperature limit of 160°C.
For full material data see page 84.

Material : Delrin
Module : 0.5
Thickness (b) : 4mm



Order Code	N (teeth)	Overall Dia d_a	Pitch Dia d	Hub Dia ND	Hub Length NL	Bore B	Torque (Ncm)	Weight (g)
101 291 010	10	6	5	3.5	4	2	0.6	0.12
101 291 012	12	7	6	4	4	2	0.9	0.18
101 291 013	13	7.5	6.5	5	4	2	1.0	0.25
101 291 014	14	8	7	5	4	2	1.2	0.28
101 291 015	15	8.5	7.5	6	4	3	1.4	0.28
101 291 016	16	9	8	6	4	3	1.6	0.34
101 291 017	17	9.5	8.5	6	4	3	1.8	0.36
101 291 018	18	10	9	6	4	3	2.0	0.42
101 291 019	19	10.5	9.5	8	4	3	2.2	0.57
101 291 020	20	11	10	8	4	3	2.5	0.63
101 291 021	21	11.5	10.5	8	4	3	2.7	0.66
101 291 022	22	12	11	8	4	3	3.0	0.71
101 291 023	23	12.5	11.5	8	4	3	3.3	0.80
101 291 024	24	13	12	8	4	3	3.6	0.80
101 291 025	25	13.5	12.5	10	4	3	3.9	0.90
101 291 026	26	14	13	10	4	3	4.2	1.10
101 291 027	27	14.5	13.5	10	4	3	4.5	1.10
101 291 028	28	15	14	10	4	3	4.9	1.20
101 291 030	30	16	15	10	4	3	5.6	1.40
101 291 032	32	17	16	12	4	4	6.4	1.60
101 291 035	35	18.5	17.5	12	4	4	7.7	1.70
101 291 036	36	19	18	12	4	4	8.1	1.80
101 291 038	38	20	19	12	4	4	9.0	2.10
101 291 040	40	21	20	12	4	4	10.0	2.20
101 291 042	42	22	21	12	4	4	11.1	2.40
101 291 045	45	23.5	22.5	12	4	4	12.7	2.70
101 291 048	48	25	24	12	4	4	14.5	3.00
101 291 050	50	26	25	15	4	4	15.7	3.00
101 291 052	52	27	26	15	4	4	17.0	3.80
101 291 054	54	28	27	15	4	4	18.3	4.00
101 291 055	55	28.5	27.5	15	4	4	19.0	4.20
101 291 056	56	29	28	15	4	4	19.7	4.30
101 291 060	60	31	30	15	5	4	22.4	5.00
101 291 064	64	33	32	18	5	5	23.9	6.00
101 291 065	65	33.5	32.5	18	5	5	24.2	6.30
101 291 070	70	36	35	18	5	5	26.1	6.80
101 291 072	72	37	36	18	5	5	26.9	7.10
101 291 075	75	38.5	37.5	18	5	5	28.0	7.70
101 291 080	80	41	40	18	5	5	29.8	8.40
101 291 085	85	43.5	42.5	25	5	5	31.6	11.50
101 291 090	90	46	45	25	5	5	33.4	12.20
101 291 096	96	49	48	25	5	5	35.5	13.00
101 291 100	100	51	50	25	5	5	36.9	14.30
101 291 114	114	58	57	25	5	5	42.1	17.60
101 291 120	120	61	60	25	5	5	44.3	18.60