

Spur Gears Made from Plastic, with One-Sided Hub, Straight Tooth System, Die-Cast Version

Material: Polyacetal, nature white or polyketone (PK), nature, ivory-colored.

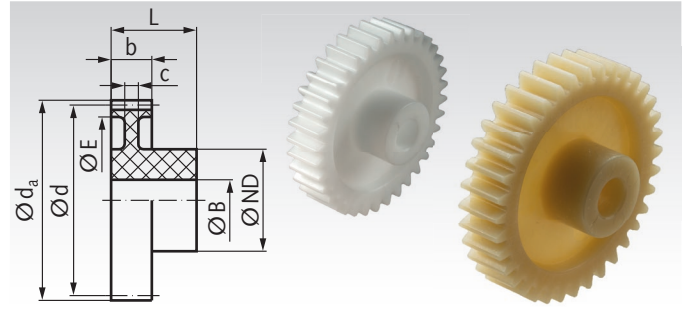
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

Polyacetal: Standard quality with high hardness.

Polyketone: Lower friction leads to much larger lifespan, even without lubrication. Much higher safety against tooth breaking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load. Material reference values page 1057.

Ordering Details: e.g.: Product No. 285 012 00, Spur Gear, Polyacetal, Module 1.5, 12 Teeth



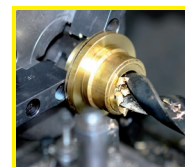
Module 1.5 Tooth Width b = 12 mm / 19 mm

Product No. Polyacetal	Product No. Polyketone	Number of teeth	b mm	d _a mm	d mm	L mm	E mm	c mm	ND mm	B mm	perm. MT*	perm. MT*	Weight	Weight
											Polyacetal Ncm	Polyketone Ncm	Polyacetal g	Polyketone g
285 012 00	285 012 01	12	12	21	18	23	-	-	14	6	33,0	34,7	5,66	5,08
285 013 00	285 013 01	13	12	22,5	19,5	23	-	-	14	6	38,0	39,9	6,14	5,51
285 014 00	285 014 01	14	12	24	21	23	-	-	14	6	44,0	46,2	6,95	6,23
285 015 00	285 015 01	15	12	25,5	22,5	23	-	-	14	6	49,0	51,5	7,90	7,09
285 016 00	285 016 01	16	12	27	24	23	-	-	14	6	55,0	57,8	8,69	7,79
285 017 00	285 017 01	17	12	28,5	25,5	23	-	-	14	6	57,0	59,9	9,71	8,71
285 018 00	285 018 01	18	12	30	27	23	-	-	17	8	65,0	68,3	10,8	9,70
285 019 00	285 019 01	19	12	31,5	28,5	23	-	-	17	8	75,0	78,8	12,0	10,8
285 020 00	285 020 01	20	12	33	30	23	-	-	17	8	85,0	89,3	12,6	11,3
285 021 00	285 021 01	21	12	34,5	31,5	23	22,5	5	17	8	96,0	101	13,1	11,7
285 022 00	285 022 01	22	12	36	33	23	22,5	5	17	8	107	112	14,3	12,9
285 023 00	285 023 01	23	12	37,5	34,5	23	22,5	5	17	8	119	125	15,5	13,9
285 024 00	285 024 01	24	12	39	36	23	26,5	5	19	8	132	139	17,0	15,2
285 025 00	285 025 01	25	12	40,5	37,5	23	26,5	5	19	8	146	153	19,0	17,0
285 026 00	285 026 01	26	12	42	39	23	26,5	5	19	8	160	168	19,9	17,9
285 027 00	285 027 01	27	12	43,5	40,5	23	25,5	5	19	8	175	184	21,9	19,7
285 028 00	285 028 01	28	12	45	42	23	25,5	5	19	8	191	201	23,5	21,1
285 030 00	285 030 01	30	12	48	45	23	33,5	5	24	10	225	236	26,2	23,5
285 032 00	285 032 01	32	12	51	48	23	33,5	5	24	10	262	275	30,2	27,1
285 035 00	285 035 01	35	12	55,5	52,5	23	41,5	5	24	10	324	340	31,9	28,6
285 036 00	285 036 01	36	12	57	54	23	41,5	5	24	10	347	364	33,3	29,9
285 038 00	285 038 01	38	12	60	57	23	41,5	5	24	10	394	414	38,7	34,7
285 040 00	285 040 01	40	12	63	60	23	48,5	5	24	10	445	467	37,9	34,0
285 042 00	285 042 01	42	12	66	63	23	48,5	5	24	10	500	525	41,8	37,5
285 045 00	285 045 01	45	12	70,5	67,5	23	48,5	5	24	10	589	618	50,2	45,1
285 048 00	285 048 01	48	12	75	72	23	48,5	5	24	10	635	667	57,7	51,8
285 050 00	285 050 01	50	12	78	75	23	63	5	27	12	664	697	52,4	47,0
285 052 00	285 052 01	52	12	81	78	23	63	5	27	12	693	728	57,6	51,7
285 054 00	285 054 01	54	12	84	81	23	63	5	27	12	721	757	64,2	57,6
285 055 00	285 055 01	55	12	85,5	82,5	23	63	5	27	12	735	772	67,9	60,9
285 060 00	285 060 01	60	12	93	90	23	63	5	27	12	806	846	85,8	77,0
285 070 00	285 070 01	70	12	108	105	23	88	5	30	14	946	993	95,7	85,9
285 080 00	285 080 01	80	12	123	120	23	104	5	30	14	1080	1140	117	104
285 090 00	285 090 01	90	12	138	135	23	116	5	30	14	1210	1270	144	129
285 100 00	285 100 01	100	19	153	150	34	133	8	40	20	1340	1410	290	260
285 110 00	285 110 01	110	19	168	165	34	148	8	40	20	1480	1550	336	301
285 120 00	285 120 01	120	19	183	180	34	163	8	40	20	1610	1690	389	384
285 130 00	285 130 01	130	19	198	195	34	178	8	40	20	1750	1840	440	394
285 140 00	285 140 01	140	19	213	210	34	193	8	40	20	1880	1970	498	447
285 150 00	285 150 01	150	19	228	225	34	208	8	40	20	2020	2120	566	508

* Basis of calculations see page 235.

Note Regarding the Machining

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.



**Reworking within
24h-service possible.
Custom made parts
on request.**