

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

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

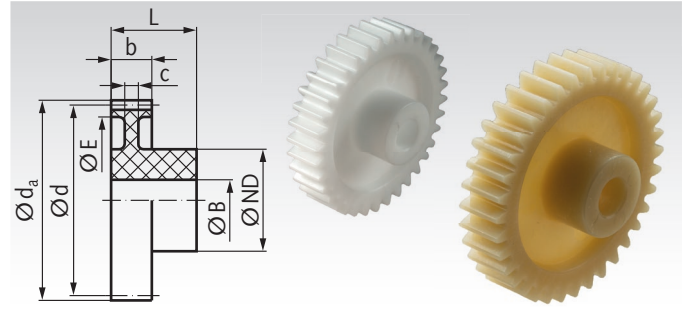
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

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 864.

Ordering Details: e.g.: Product No. 288 012 00, Spur Gear, Polyacetal, Module 3.0, 12 Teeth



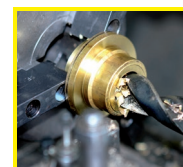
Module 3 Tooth Width b = 19 mm

| 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 |
| 288 012 00 | 288 012 01 | 12 | 19 | 42 | 36 | 34 | - | - | 24 | 12 | 240 | 252 | 30,4 | 27,3 |
| 288 013 00 | 288 013 01 | 13 | 19 | 45 | 39 | 34 | - | - | 24 | 12 | 280 | 294 | 35,0 | 31,4 |
| 288 014 00 | 288 014 01 | 14 | 19 | 48 | 42 | 34 | - | - | 24 | 12 | 320 | 336 | 39,9 | 35,8 |
| 288 015 00 | 288 015 01 | 15 | 19 | 51 | 45 | 34 | 30,5 | 8 | 24 | 12 | 370 | 389 | 40,4 | 36,3 |
| 288 016 00 | 288 016 01 | 16 | 19 | 54 | 48 | 34 | 30,5 | 8 | 24 | 12 | 400 | 420 | 46,5 | 41,7 |
| 288 017 00 | 288 017 01 | 17 | 19 | 57 | 51 | 34 | 30,5 | 8 | 24 | 12 | 420 | 441 | 51,7 | 46,4 |
| 288 018 00 | 288 018 01 | 18 | 19 | 60 | 54 | 34 | 38 | 8 | 24 | 12 | 490 | 515 | 52,2 | 46,8 |
| 288 019 00 | 288 019 01 | 19 | 19 | 63 | 57 | 34 | 38 | 8 | 24 | 12 | 560 | 588 | 58,9 | 52,8 |
| 288 020 00 | 288 020 01 | 20 | 19 | 66 | 60 | 34 | 38 | 8 | 24 | 12 | 640 | 672 | 65,7 | 58,9 |
| 288 021 00 | 288 021 01 | 21 | 19 | 69 | 63 | 34 | 45 | 8 | 24 | 12 | 720 | 756 | 65,8 | 59,0 |
| 288 022 00 | 288 022 01 | 22 | 19 | 72 | 66 | 34 | 45 | 8 | 24 | 12 | 810 | 851 | 73,3 | 65,8 |
| 288 023 00 | 288 023 01 | 23 | 19 | 75 | 69 | 34 | 52 | 8 | 24 | 12 | 900 | 945 | 74,5 | 66,8 |
| 288 024 00 | 288 024 01 | 24 | 19 | 78 | 72 | 34 | 52 | 8 | 24 | 12 | 1000 | 1050 | 82,5 | 74,0 |
| 288 025 00 | 288 025 01 | 25 | 19 | 81 | 75 | 34 | 58 | 8 | 28 | 14 | 1110 | 1170 | 88,2 | 79,1 |
| 288 026 00 | 288 026 01 | 26 | 19 | 84 | 78 | 34 | 58 | 8 | 28 | 14 | 1220 | 1280 | 97,6 | 87,6 |
| 288 027 00 | 288 027 01 | 27 | 19 | 87 | 81 | 34 | 58 | 8 | 28 | 14 | 1340 | 1410 | 108 | 96,4 |
| 288 028 00 | 288 028 01 | 28 | 19 | 90 | 84 | 34 | 65 | 8 | 28 | 14 | 1460 | 1530 | 108 | 96,4 |
| 288 030 00 | 288 030 01 | 30 | 19 | 96 | 90 | 34 | 68 | 8 | 28 | 14 | 1730 | 1820 | 123 | 110 |
| 288 032 00 | 288 032 01 | 32 | 19 | 102 | 96 | 34 | 69 | 8 | 32 | 16 | 2020 | 2120 | 148 | 133 |
| 288 033 00 | 288 033 01 | 33 | 19 | 105 | 99 | 34 | 69 | 8 | 32 | 16 | 2180 | 2290 | 160 | 144 |
| 288 034 00 | 288 034 01 | 34 | 19 | 108 | 102 | 34 | 78 | 8 | 32 | 16 | 2318 | 2430 | 159 | 143 |
| 288 035 00 | 288 035 01 | 35 | 19 | 111 | 105 | 34 | 78 | 8 | 32 | 16 | 2510 | 2640 | 170 | 153 |
| 288 038 00 | 288 038 01 | 38 | 19 | 120 | 114 | 34 | 87 | 8 | 32 | 16 | 3060 | 3210 | 189 | 170 |
| 288 040 00 | 288 040 01 | 40 | 19 | 126 | 120 | 34 | 93 | 8 | 32 | 16 | 3330 | 3500 | 209 | 187 |
| 288 045 00 | 288 045 01 | 45 | 19 | 141 | 135 | 34 | 108 | 8 | 32 | 16 | 3780 | 3970 | 255 | 228 |
| 288 050 00 | 288 050 01 | 50 | 19 | 156 | 150 | 34 | 133 | 8 | 40 | 20 | 5100 | 5350 | 287 | 257 |
| 288 055 00 | 288 055 01 | 55 | 19 | 171 | 165 | 34 | 148 | 8 | 40 | 20 | 6570 | 6900 | 333 | 298 |
| 288 060 00 | 288 060 01 | 60 | 19 | 186 | 180 | 34 | 163 | 8 | 40 | 20 | 8060 | 8460 | 385 | 346 |
| 288 065 00 | 288 065 01 | 65 | 19 | 201 | 195 | 34 | 178 | 8 | 40 | 20 | 10260 | 10780 | 437 | 392 |
| 288 070 00 | 288 070 01 | 70 | 19 | 216 | 210 | 34 | 193 | 8 | 40 | 20 | 11710 | 12290 | 496 | 445 |
| 288 075 00 | 288 075 01 | 75 | 19 | 231 | 225 | 34 | 208 | 8 | 40 | 20 | 12920 | 13570 | 556 | 498 |

* Basis of calculations see page 197.

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.**