

Precision Gear Racks from Steel 16MnCr5, Straight Tooth System, Tooth Hardened, Ground

Material: Steel 16MnCr5.

Reference profile 2 DIN 867 / DIN 3972. Pressure angle 20°. Tooth quality 7h25. Tooth area induction hardened, HRC 58±2. Ground all around including teeth.

From module 1.5 cut for continuous linking, with gap. Angle accuracy: 0.02 mm.

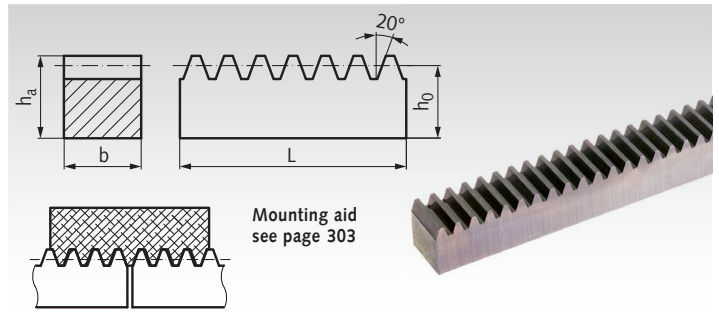
Parallelism:

on 500 mm = 0.03 mm, on 1000 mm = 0.05 mm.

Tolerance of dimension h_0 :

at length 500 mm: 0.03 mm

at length 1000 mm: 0.05 mm.



Mounting aid
see page 303

Ordering Details: e.g.: Product No. 22468300, Precision Gear Rack, Module 1, 500 mm long

Product No.	Module	$b^{0,05}$ mm	$h_a^{-0,1}$ mm	h_0 mm	Nom. Length L mm	Eff. Length mm	Weight kg
224 683 00	1	15	15	14	500	500,0 ⁺¹	0,81
228 683 00	1,5	15	15	13,5	500	499,1±0,3	0,78
228 685 00	1,5	15	15	13,5	1000	998,4±0,3	1,56
241 683 00	2	20	20	18	500	502,1±0,3	1,40
241 685 00	2	20	20	18	1000	998,5±0,3	2,53
243 683 00	3	25	25	22	500	498,9±0,3	2,12
243 685 00	3	25	25	22	1000	998,4±0,3	4,22

Matching precision
spur gears
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Gear Racks from Stainless Steel, Straight Tooth System, Milled Teeth

Material: Stainless steel 1.4305 (AISI 303).

Reference profile 2 DIN 867 / DIN 3972.

Pressure angle 20°. Tooth quality 8d25 DIN 3967.

Precisely straightened.

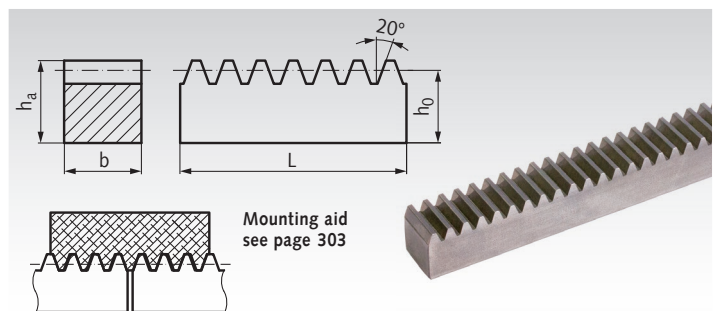
From module 2, except for nominal length 500 mm, cut for continuous linking, with gap.

Production-related tolerances of dimensions h_a and h_0 :

module 1 - 2: -0.2 mm

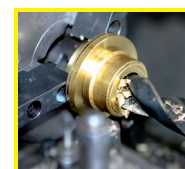
module 2.5 - 4: -0.3 mm

Ordering Details: e.g.: Product No. 22499603, Gear Rack, Module 1, 10x10x250, Stainless



Mounting aid
see page 303

Product No.	Module	b mm	h_a mm	h_0 mm	Nom. Length L mm	Eff. Length mm	Weight kg
224 996 03	1	10	10	9,0	250	-	0,17
224 996 05	1	10	10	9,0	500	-	0,34
224 996 08	1	10	10	9,0	1000	-	0,68
224 996 09	1	15	15	14,0	250	-	0,41
224 996 10	1	15	15	14,0	500	-	0,81
224 996 12	1	15	15	14,0	1000	-	1,61
228 996 02	1,5	15	15	13,5	250	-	0,39
228 996 03	1,5	15	15	13,5	500	-	0,77
228 996 05	1,5	15	15	13,5	1000	-	1,55
228 996 07	1,5	15	15	13,5	1500	-	2,33
228 996 08	1,5	17	17	15,5	250	-	0,50
228 996 10	1,5	17	17	15,5	500	-	1,01
228 996 12	1,5	17	17	15,5	1000	999,0 ⁻¹	2,02
228 996 14	1,5	17	17	15,5	1500	1498,5 ⁻¹	3,03
241 996 02	2	20	20	18,0	250	-	0,69
241 996 03	2	20	20	18,0	500	-	1,38
241 996 05	2	20	20	18,0	1000	1005,0 ⁻¹	2,77
241 996 07	2	20	20	18,0	1500	1501,0 ⁻¹	4,12
241 996 09	2	20	20	18,0	2000	2004,0 ^{-1,5}	5,50
242 996 02	2,5	25	25	22,5	250	-	1,09
242 996 03	2,5	25	25	22,5	500	-	2,17
242 996 05	2,5	25	25	22,5	1000	1005,1 ⁻¹	4,31
242 996 07	2,5	25	25	22,5	1500	1507,5 ⁻¹	6,46
242 996 09	2,5	25	25	22,5	2000	2002,5 ^{-1,5}	8,61
243 996 03	3	30	30	27,0	500	-	3,17
243 996 05	3	30	30	27,0	1000	1008,0 ^{-1,5}	6,27
243 996 07	3	30	30	27,0	1500	1507,5 ^{-1,5}	9,33
243 996 09	3	30	30	27,0	2000	2007,0 ^{-1,5}	12,43
244 996 03	4	40	40	36,0	500	-	5,55
244 996 05	4	40	40	36,0	1000	1005,0 ^{-1,5}	11,14
244 996 07	4	40	40	36,0	1500	1507,5 ⁻¹	16,50
244 996 09	4	40	40	36,0	2000	2010,0 ^{-1,5}	22,50



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