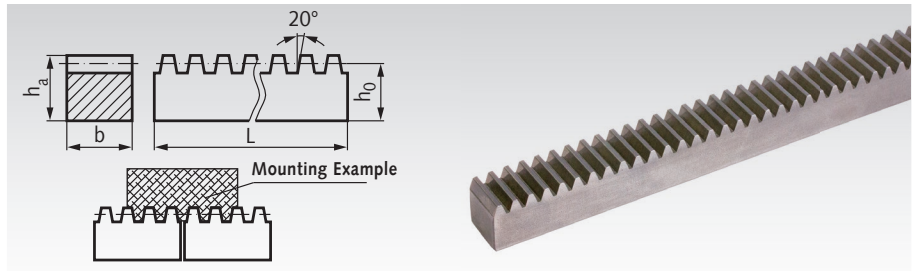


## Gear Racks Made from Stainless Steel (Stainless), Milled Teeth, Straight Tooth System

**Material:** Stainless steel 1.4305 (AISI 303)  
 Tooth quality 8d25 modelled on DIN 3967.  
 Pressure angle 20°. Precisely Straightened.  
 From module 2, except for nominal length 500 mm, cut for continuous linking.

The teeth on the gear racks are manufactured using an overhead milling cutter. This leads to negative tolerances.

Dimensions  $h_a$  and  $h_o$ :  
 up to module 2 -0.2 mm  
 module 2.5 - 4 -0.3 mm



Ordering Details: e.g.: Product No. 224 996 05, Gear Rack, Module 1, 10 x 10x 500, Stainless

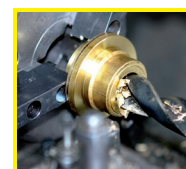
	Product No.	Tooth Width b mm	Overall Height $h_a$ mm	$h_o$ mm	Nominal Length L mm	Effective Length mm	Weight kg
<b>Module 1.0</b>	224 996 05	10	10	9,0	500	-	0,34
	224 996 08	10	10	9,0	1000	-	0,68
<b>Module 1.5</b>	228 996 03	15	15	13,5	500	-	0,77
	228 996 05	15	15	13,5	1000	-	1,55
	228 996 07	15	15	13,5	1500	-	2,33
<b>Module 2.0</b>	241 996 03	20	20	18,0	500	-	1,38
	241 996 05	20	20	18,0	1000	1005,0 - 1	2,77
	241 996 07	20	20	18,0	1500	1501,0 - 1	4,12
	241 996 09	20	20	18,0	2000	2004,0 - 1,5	5,50
<b>Module 2.5</b>	242 996 03	25	25	22,5	500	-	2,17
	242 996 05	25	25	22,5	1000	1005,1 - 1	4,31
	242 996 07	25	25	22,5	1500	1507,5 - 1	6,46
	242 996 09	25	25	22,5	2000	2002,5 - 1,5	8,61
<b>Module 3.0</b>	243 996 03	30	30	27,0	500	-	3,17
	243 996 05	30	30	27,0	1000	1008,0 - 1,5	6,27
	243 996 07	30	30	27,0	1500	1507,5 - 1,5	9,33
	243 996 09	30	30	27,0	2000	2007,0 - 1,5	12,43
<b>Module 4.0</b>	244 996 03	40	40	36,0	500	-	5,55
	244 996 05	40	40	36,0	1000	1005,0 - 1,5	11,14
	244 996 07	40	40	36,0	1500	1507,5 - 1	16,50
	244 996 09	40	40	36,0	2000	2010,0 - 1,5	22,50

### Total pitch error for steel racks in tooth quality 8

Total Pitch Error  $F_p$  along the lines of DIN 3962 quality 8 tolerance for teeth on spur gears, analogously applied on gear racks.

Value in  $\mu = 1/1000$  mm

Module	Permissible Pitch Error for Length in mm				
	250	500	1000	1500	2000
1.00 - 2.00	50	56	63	63	71
over 2.00 up to 3.55	50	63	71	71	80
over 3.55 up to 6.00	56	71	80	80	90
over 6.00 up to 10.00	63	71	80	80	90



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