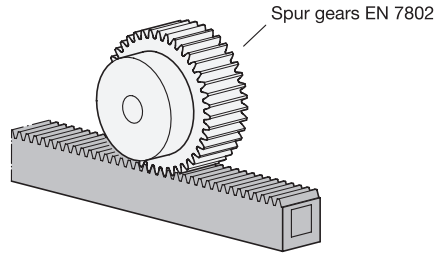


Application example



**3 Type**

**VG** Square, straight, toothed

Dimensions in: millimeters - inches

Module	Length l		b Tooth width	h <sub>1</sub>	h <sub>2</sub>	s	Max. force F <sub>s</sub> acting on a tooth
	Nominal size	Actual size					
1	350 13.78	352 13.86	15 0.59	15 0.59	14 0.55	8 0.31	372 N 83.63 lbf
1.5	250 9.84	250 9.84	17 0.67	17 0.67	15.5 0.61	8 0.31	633 N 142.30 lbf
1.5	500 19.69	565 22.24	17 0.67	17 0.67	15.5 0.61	8 0.31	633 N 142.30 lbf
2	250 9.84	251 9.88	20 0.79	20 0.79	18 0.71	10 0.39	993 N 223.24 lbf
2	500 19.69	565 22.24	20 0.79	20 0.79	18 0.71	10 0.39	993 N 223.24 lbf
3	250 9.84	254 10.00	30 1.18	30 1.18	27 1.06	15 0.59	2234 N 502.22 lbf
3	500 19.69	500 19.69	30 1.18	30 1.18	27 1.06	15 0.59	2234 N 502.22 lbf

**Specification**

- Plastic  
Technopolymer (Polyamide PA)  
- Glass fiber reinforced  
- Temperature resistant up to 248 °F (120 °C)  
- Gray **GR**
- *Plastic Characteristics* → page QVX
- **RoHS compliant**

**On request**

- Other types

**Information**

Gear racks EN 7822 are used in combination with spur gears EN 7802 to convert rotary motion into linear motion. They are used in automation applications with high repeatable precision and frequent changes of direction and load.

The steel core increases the stiffness and prevents bending of the racks. In addition, modules 1 / 1.5 / 2 are designed for continuous installation of the racks.

The gear racks have a reference profile toothing with a pressure angle of 20°. The force F<sub>s</sub> refers to the maximum permissible force that can be applied to a single tooth.

see also...

- *General Notes for Gears* → page XYZ
- *Technical Instructions for Gears* → page XYZ

How to order	1 Module
	2 Length l
<b>EN 7822-1.5-250-VG-GR</b>	3 Type
	4 Color

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10