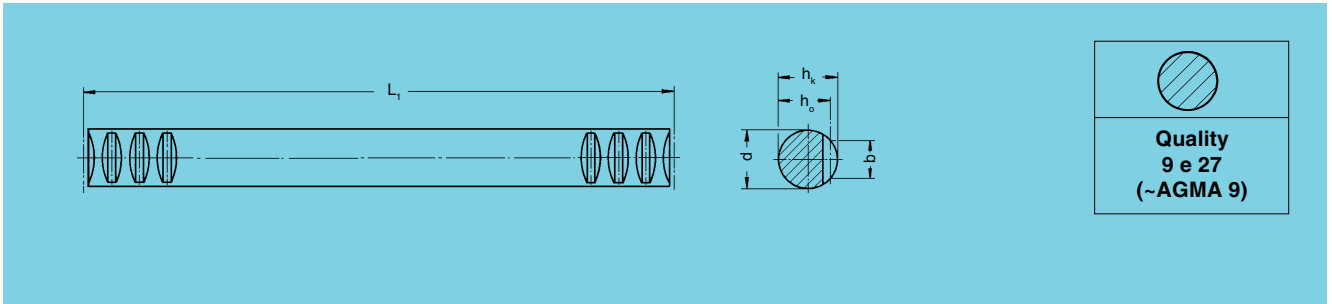




### Straight Racks,

milled teeth, 20° pressure angle



| Order code                  | Module<br>m | L <sub>1</sub> | No. of<br>teeth z | Ø<br>d <sub>h11</sub> | b    | h <sub>k</sub> | h <sub>o</sub> | GT <sub>f</sub><br>/300 <sup>1)</sup> | Wt.<br>(lb) |
|-----------------------------|-------------|----------------|-------------------|-----------------------|------|----------------|----------------|---------------------------------------|-------------|
| <b>5 mm Circular Pitch</b>  |             |                |                   |                       |      |                |                |                                       |             |
| 37 96 050                   | 1.591       | 500            | 100               | 15                    | 9.6  | 14.8           | 13.2           | 0.059                                 | 1.87        |
| 37 96 100                   | 1.591       | 1000           | 200               | 15                    | 9.6  | 14.8           | 13.2           | 0.059                                 | 3.74        |
| <b>10 mm Circular Pitch</b> |             |                |                   |                       |      |                |                |                                       |             |
| 37 98 050                   | 3.183       | 500            | 50                | 30                    | 18.0 | 29.7           | 26.5           | 0.074                                 | 5.50        |
| 37 98 100                   | 3.183       | 1000           | 100               | 30                    | 18.0 | 29.7           | 26.5           | 0.074                                 | 11.22       |

Material C45k (AISI 10L45) carbon steel with a tensile strength of ~650 N/mm<sup>2</sup> (~94.3 kpsi), outside diameter Ø<sub>h11</sub>. Also see our guide bushings below.

Ends of racks are designed so that several racks can be mounted end-to-end to obtain any desired length.

### Guide Bushings,

made of sintered bronze, filled with solid lubricant MoS<sub>2</sub> and therefore practically maintenance free.



| Order code | d <sub>1</sub> G7 | d <sub>2</sub> r6 | d <sub>3</sub> | b <sub>1</sub> | b <sub>2</sub> | Wt. (lb) |
|------------|-------------------|-------------------|----------------|----------------|----------------|----------|
| 80 35 010  | 10                | 16                | 22             | 3              | 16             | 0.037    |
| 80 35 015  | 15                | 21                | 26             | 3              | 16             | 0.055    |
| 80 35 020  | 20                | 26                | 32             | 3              | 25             | 0.092    |
| 80 35 030  | 30                | 38                | 46             | 4              | 30             | 0.253    |
| 80 35 040  | 40                | 50                | 60             | 5              | 50             | 0.594    |
| 80 35 050  | 50                | 60                | 70             | 5              | 63             | 1.276    |

1) GT<sub>f</sub>/300 = total pitch deviation (per 300 mm) of measure length of the rack compared to the theoretical length L<sub>300</sub>, with L<sub>300</sub> = (m / cos β) • π • z<sub>300</sub>. To insure continuous lubrication of rack and pinion drives, we recommend to use automatic lubricators as described on page 69!