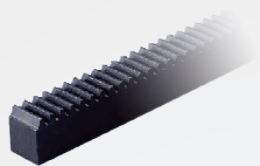


Rack M1~M3-Pressure angle 20°

## GR312

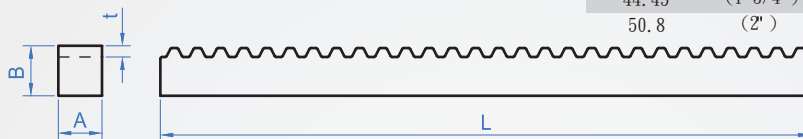


| mm    | Fractions |
|-------|-----------|
| 9.52  | (3/8")    |
| 12.70 | (1/2")    |
| 15.87 | (5/8")    |
| 19.05 | (3/4")    |
| 22.20 | (7/8")    |
| 25.40 | (1")      |
| 38.1  | (1-1/2 )  |
| 44.45 | (1-3/4 )  |
| 50.8  | (2")      |

| Material             | Accuracy class     | Teeth finish |
|----------------------|--------------------|--------------|
| S45C<br>Carbon steel | JIS 4<br>(DIN8e25) | Milling      |

## How to order

GR312 - M1.0 - 9.5 - 1000  
 TYPE Modulus A Length



| Module | A    | L                 | B    | Tooth No. | P      | C    |
|--------|------|-------------------|------|-----------|--------|------|
| M0.5   | 5    | 300<br>(300.02)   | 12   | 191       | 1.572  | 11.5 |
| M0.8   | 8    | 300<br>(299.08)   | 12.3 | 119       | 2.513  | 11.5 |
| M1.0   | 9.5  | 1000<br>(999.02)  | 9.5  | 318       | 3.142  | 8.5  |
|        | 12.7 |                   | 11.7 |           |        |      |
|        | 15.9 |                   | 14.9 |           |        |      |
| M1.5   | 12.7 | 1000<br>(999.03)  | 12.7 | 212       | 4.712  | 11.2 |
|        | 15.9 |                   | 14.4 |           |        |      |
|        | 19   |                   | 17.5 |           |        |      |
| M2.0   | 15.9 | 1000<br>(999.02)  | 15.9 | 159       | 6.283  | 13.9 |
|        | 19   |                   | 17.0 |           |        |      |
|        | 22.2 |                   | 20.2 |           |        |      |
| M2.5   | 19   | 1000<br>(997.45)  | 19   | 127       | 7.854  | 16.5 |
|        | 22.2 |                   | 19.7 |           |        |      |
|        | 25.4 |                   | 22.9 |           |        |      |
| M3.0   | 25.4 | 1000<br>(999.03)  | 25.4 | 106       | 9.4    | 22.4 |
|        | 31.7 |                   | 28.7 |           |        |      |
|        | 38.1 |                   | 35.1 |           |        |      |
| M4.0   | 38.1 | 1000<br>(1005.31) | 38.1 | 80        | 12.566 | 34.1 |
|        | 44.5 |                   | 40.5 |           |        |      |
| M5.0   | 38.1 | 1000<br>(1005.31) | 38.1 | 64        | 12.708 | 33.5 |
|        | 44.5 |                   | 39.5 |           |        |      |
|        | 50.8 |                   | 45.8 |           |        |      |

## Instruction of Rack Assembly Steps

To assemble connected racks more smoothly, ends of a standard rack would add half tooth which is convenient for next half tooth of next rack to be connected to a complete tooth. The following drawing shows how 2 racks connect and tooth gauge can control pitch position accurately.

- When connecting racks, we recommend lock bores on the sides of rack first, and lock bores by the sequence of the foundation. With assembling the tooth gauge, pitch position of racks can be assembled accurately and completely.
- Last, lock the position pins on 2 sides of rack; the assembly is completed.

