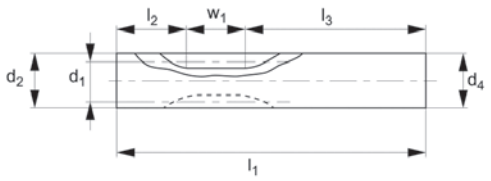
# Spur Gears - Module 1.25

carbon steel - 8-11 teeth



## R5181



### Material

Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8-9.

### Technical Notes

20° pressure angle, full depth tooth. Amount of backlash when assembling gears = 0,05 - 0,125mm. Rack shift coefficient x = 0.5.

### Tips

Module 1.25 for gears with 14-120 teeth see R5180, for gears with 8-10 teeth see R5182, for gears with 12-17 teeth see R5183, for gears with 18-120 teeth see R5185.

Max. allowable torque (Nm) is based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

| Order No. | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$ tol. H9 | $l_1$ | $l_2$ | $l_3$ | Torque Nm max. | Weight g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R5181.125-08 | *m* 1.25 | 8 | Shifted gear * | 13.3 | 15 | 13.3 | 75 | 20 | 40 | 6.00 | 77.1 |
| R5181.125-09 | *m* 1.25 | 9 | Shifted gear * | 14.6 | 15 | 14.6 | 75 | 20 | 40 | 7.11 | 92.9 |
| R5181.125-10 | *m* 1.25 | 10 | Shifted gear * | 15.8 | 15 | 15.8 | 75 | 20 | 40 | 8.27 | 110.2 |
| R5181.125-11 | *m* 1.25 | 11 | Shifted gear * | 17.1 | 15 | 17.1 | 75 | 20 | 40 | 9.44 | 129.0 |