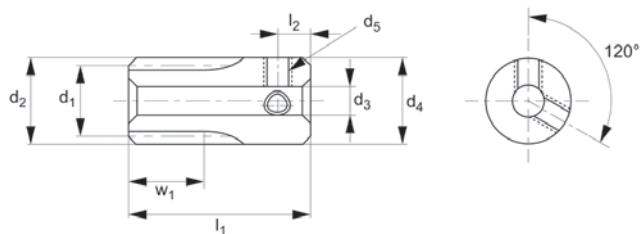




# Spur Gears - Module 1

stainless steel - 14-16 teeth



**R5163**

STANDARD SPUR GEARS

## Material

Stainless steel (SUS 304, JIS G 4303).  
Accuracy to JIS B 1702-1 (ISO) class 9.

## Technical Notes

20° pressure angle, full depth tooth.  
Amount of backlash when assembling

gears = 0,06 - 0,12mm.

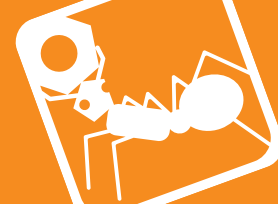
## Tips

For stainless steel module 1 gears with 17-120 teeth, see R5165.

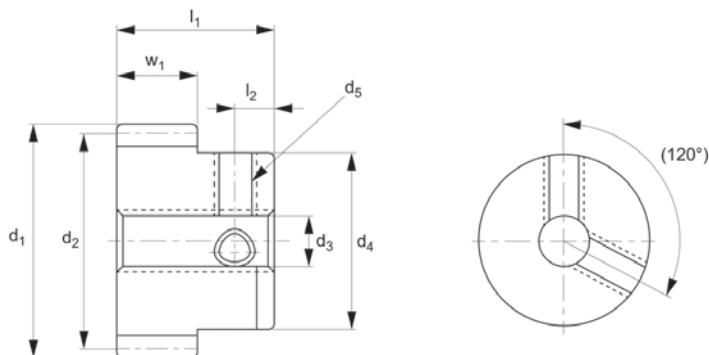
Max. allowable torque (Nm) is based on standard operating conditions (see tech-

nical 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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H8 | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5163.100-014 | m 1    | 14             | 14                        | 16             | 8              | 6                         | 16             | 25             | 4              | 2xM 4                 | 1.69                 | 30.4        |
| R5163.100-015 | m 1    | 15             | 15                        | 17             | 8              | 6                         | 17             | 25             | 4              | 2xM 4                 | 1.89                 | 35.3        |
| R5163.100-016 | m 1    | 16             | 16                        | 18             | 8              | 6                         | 18             | 25             | 4              | 2xM 4                 | 2.10                 | 40.5        |



### R5165



#### Material

Stainless steel (SUS 304, JIS G 4303).  
Accuracy to JIS B 1702-1 (ISO) class 9.

#### Technical Notes

20° pressure angle, full depth tooth.  
Amount of backlash when assembling

gears = 0,06 - 0,12mm.

#### Tips

For stainless steel module 1 gears with 14-16 teeth, see R5163.

Max. allowable torque (Nm) is based on standard operating conditions (see tech-

nical 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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H8 | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5165.100-017-08 | m 1    | 17             | 17                        | 19             | 8              | 6                         | 14             | 16             | 4              | 2xM 4                 | 2.31                 | 19.9        |
| R5165.100-018-08 | m 1    | 18             | 18                        | 20             | 8              | 6                         | 14             | 16             | 4              | 2xM 4                 | 2.53                 | 21.7        |
| R5165.100-018-10 | m 1    | 18             | 18                        | 20             | 10             | 6                         | 14             | 20             | 4              | 2xM 4                 | 3.16                 | 27.2        |
| R5165.100-020-08 | m 1    | 20             | 20                        | 22             | 8              | 6                         | 16             | 16             | 4              | 2xM 4                 | 2.97                 | 28.3        |
| R5165.100-020-10 | m 1    | 20             | 20                        | 22             | 10             | 6                         | 16             | 20             | 4              | 2xM 4                 | 3.71                 | 35.5        |
| R5165.100-021-08 | m 1    | 21             | 21                        | 23             | 8              | 6                         | 18             | 16             | 4              | 2xM 4                 | 3.19                 | 33.5        |
| R5165.100-022-08 | m 1    | 22             | 22                        | 24             | 8              | 6                         | 18             | 16             | 4              | 2xM 4                 | 3.41                 | 35.7        |
| R5165.100-024-08 | m 1    | 24             | 24                        | 26             | 8              | 6                         | 18             | 16             | 4              | 2xM 4                 | 3.87                 | 40.3        |
| R5165.100-024-10 | m 1    | 24             | 24                        | 26             | 10             | 6                         | 18             | 20             | 4              | 2xM 4                 | 4.84                 | 50.6        |
| R5165.100-025-08 | m 1    | 25             | 25                        | 27             | 8              | 6                         | 18             | 16             | 4              | 2xM 4                 | 4.10                 | 42.7        |
| R5165.100-025-10 | m 1    | 25             | 25                        | 27             | 10             | 6                         | 20             | 20             | 4              | 2xM 4                 | 5.12                 | 58.2        |
| R5165.100-026-08 | m 1    | 26             | 26                        | 28             | 8              | 6                         | 20             | 16             | 4              | 2xM 4                 | 4.33                 | 48.9        |
| R5165.100-028-08 | m 1    | 28             | 28                        | 30             | 8              | 6                         | 20             | 16             | 4              | 2xM 4                 | 4.80                 | 54.2        |
| R5165.100-028-10 | m 1    | 28             | 28                        | 30             | 10             | 6                         | 20             | 20             | 4              | 2xM 4                 | 6.00                 | 68.1        |
| R5165.100-030-08 | m 1    | 30             | 30                        | 32             | 8              | 6                         | 24             | 16             | 4              | 2xM 4                 | 5.27                 | 68.5        |
| R5165.100-030-10 | m 1    | 30             | 30                        | 32             | 8              | 6                         | 24             | 20             | 4              | 2xM 4                 | 6.68                 | 86.0        |
| R5165.100-032-06 | m 1    | 32             | 32                        | 34             | 10             | 6                         | 24             | 16             | 4              | 2xM 4                 | 4.31                 | 69.1        |
| R5165.100-034-06 | m 1    | 34             | 34                        | 36             | 6              | 6                         | 24             | 16             | 4              | 2xM 4                 | 4.67                 | 74.0        |
| R5165.100-035-06 | m 1    | 35             | 35                        | 37             | 6              | 6                         | 24             | 16             | 4              | 2xM 4                 | 4.85                 | 76.6        |
| R5165.100-036-06 | m 1    | 36             | 36                        | 38             | 6              | 8                         | 24             | 16             | 4              | 2xM 4                 | 5.03                 | 76.6        |
| R5165.100-040-06 | m 1    | 40             | 40                        | 42             | 6              | 8                         | 28             | 16             | 4              | 2xM 4                 | 5.77                 | 100.6       |
| R5165.100-042-06 | m 1    | 42             | 42                        | 44             | 6              | 8                         | 28             | 16             | 4              | 2xM 4                 | 6.14                 | 106.7       |
| R5165.100-044-06 | m 1    | 44             | 44                        | 46             | 6              | 8                         | 28             | 16             | 4              | 2xM 4                 | 6.50                 | 113.1       |
| R5165.100-045-06 | m 1    | 45             | 45                        | 47             | 6              | 8                         | 28             | 16             | 4              | 2xM 4                 | 6.69                 | 116.5       |
| R5165.100-048-06 | m 1    | 48             | 48                        | 50             | 6              | 8                         | 28             | 16             | 4              | 2xM 4                 | 7.25                 | 126.9       |
| R5165.100-050-06 | m 1    | 50             | 50                        | 52             | 6              | 8                         | 28             | 16             | 4              | 2xM 4                 | 7.62                 | 134.2       |
| R5165.100-052-06 | m 1    | 52             | 52                        | 54             | 6              | 8                         | 28             | 16             | 5              | 2xM 5                 | 8.00                 | 140.9       |
| R5165.100-054-06 | m 1    | 54             | 54                        | 56             | 6              | 8                         | 28             | 16             | 5              | 2xM 5                 | 8.38                 | 148.8       |
| R5165.100-056-06 | m 1    | 56             | 56                        | 58             | 6              | 10                        | 30             | 16             | 5              | 2xM 5                 | 8.75                 | 160.6       |
| R5165.100-060-06 | m 1    | 60             | 60                        | 62             | 6              | 10                        | 30             | 16             | 5              | 2xM 5                 | 9.51                 | 178.0       |



# Spur Gears - Module 1

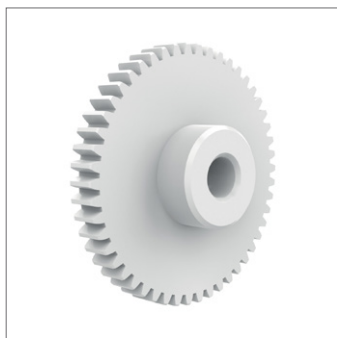
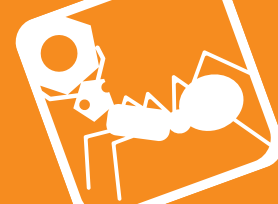
stainless steel - 17-120 teeth



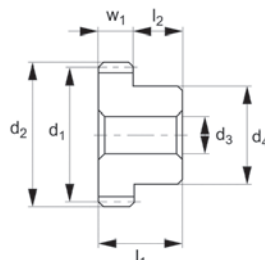
## Standard Spur Gears

| Order No.        | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H8 | $d_4$ | $l_1$ | $l_2$ | Thread $d_5$ | Torque<br>Nm<br>max. | Weight<br>g |
|------------------|--------|----------------|------------------|-------|-------|------------------|-------|-------|-------|--------------|----------------------|-------------|
| R5165.100-064-06 | m 1    | 64             | 64               | 66    | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 10.27                | 196.5       |
| R5165.100-070-06 | m 1    | 70             | 70               | 72    | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 11.42                | 226.6       |
| R5165.100-072-06 | m 1    | 72             | 72               | 74    | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 11.80                | 237.2       |
| R5165.100-080-06 | m 1    | 80             | 80               | 82    | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 13.34                | 282.6       |
| R5165.100-090-06 | m 1    | 90             | 90               | 92    | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 15.26                | 346.1       |
| R5165.100-100-06 | m 1    | 100            | 100              | 102   | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 17.19                | 417.1       |
| R5165.100-120-06 | m 1    | 120            | 120              | 122   | 6     | 10               | 30    | 16    | 5     | 2xM 5        | 21.08                | 581.6       |

STANDARD SPUR GEARS



### R5166



#### Material

White polyacetal (PA, also known as polyoxymethylene/POM), machined.  
Accuracy to JIS B 1702-1 (ISO) class 9-10.

#### Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling gears = 0,06 - 0,12mm.

#### Tips

For module 1 white polyacetal gears with set screws see R5169 & R5170. 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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H9 | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|----------------------|-------------|
| R5166.100-017 | m 1    | 17             | 17                        | 19             | 8              | 6                         | 14             | 16             | 8              | 0.80                 | 3.7         |
| R5166.100-018 | m 1    | 18             | 18                        | 20             | 8              | 8                         | 15             | 16             | 8              | 0.84                 | 3.7         |
| R5166.100-020 | m 1    | 20             | 20                        | 22             | 8              | 8                         | 16             | 16             | 8              | 0.94                 | 4.7         |
| R5166.100-022 | m 1    | 22             | 22                        | 24             | 8              | 8                         | 18             | 16             | 8              | 1.03                 | 6.0         |
| R5166.100-023 | m 1    | 23             | 23                        | 25             | 8              | 8                         | 18             | 16             | 8              | 1.08                 | 6.4         |
| R5166.100-024 | m 1    | 24             | 24                        | 26             | 8              | 8                         | 18             | 16             | 8              | 1.12                 | 6.8         |
| R5166.100-025 | m 1    | 25             | 25                        | 27             | 8              | 8                         | 18             | 16             | 8              | 1.17                 | 7.3         |
| R5166.100-026 | m 1    | 26             | 26                        | 28             | 8              | 8                         | 20             | 16             | 8              | 1.22                 | 8.4         |
| R5166.100-028 | m 1    | 28             | 28                        | 30             | 8              | 8                         | 20             | 16             | 8              | 1.31                 | 9.4         |
| R5166.100-030 | m 1    | 30             | 30                        | 32             | 8              | 8                         | 20             | 16             | 8              | 1.40                 | 10.4        |
| R5166.100-032 | m 1    | 32             | 32                        | 34             | 6              | 8                         | 20             | 14             | 8              | 2.00                 | 9.4         |
| R5166.100-034 | m 1    | 34             | 34                        | 36             | 6              | 8                         | 20             | 14             | 8              | 2.13                 | 10.2        |
| R5166.100-035 | m 1    | 35             | 35                        | 37             | 6              | 8                         | 20             | 14             | 8              | 2.19                 | 10.7        |
| R5166.100-036 | m 1    | 36             | 36                        | 38             | 6              | 8                         | 20             | 14             | 8              | 2.25                 | 11.2        |
| R5166.100-038 | m 1    | 38             | 38                        | 40             | 6              | 8                         | 20             | 14             | 8              | 2.38                 | 12.2        |
| R5166.100-040 | m 1    | 40             | 40                        | 42             | 6              | 8                         | 20             | 14             | 8              | 2.50                 | 13.2        |
| R5166.100-042 | m 1    | 42             | 42                        | 44             | 6              | 8                         | 20             | 14             | 8              | 2.63                 | 14.3        |
| R5166.100-044 | m 1    | 44             | 44                        | 46             | 6              | 8                         | 20             | 14             | 8              | 2.75                 | 15.4        |
| R5166.100-045 | m 1    | 45             | 45                        | 47             | 6              | 8                         | 20             | 14             | 8              | 2.91                 | 16.0        |
| R5166.100-048 | m 1    | 48             | 48                        | 50             | 6              | 8                         | 20             | 14             | 8              | 3.00                 | 17.9        |
| R5166.100-050 | m 1    | 50             | 50                        | 52             | 6              | 8                         | 20             | 14             | 8              | 3.13                 | 19.2        |
| R5166.100-052 | m 1    | 52             | 52                        | 54             | 6              | 8                         | 20             | 14             | 8              | 3.25                 | 20.5        |
| R5166.100-055 | m 1    | 55             | 55                        | 57             | 6              | 8                         | 20             | 14             | 8              | 3.44                 | 22.7        |
| R5166.100-056 | m 1    | 56             | 56                        | 58             | 6              | 8                         | 20             | 14             | 8              | 3.50                 | 23.4        |
| R5166.100-060 | m 1    | 60             | 60                        | 62             | 6              | 8                         | 20             | 14             | 8              | 3.75                 | 26.5        |
| R5166.100-064 | m 1    | 64             | 64                        | 66             | 6              | 8                         | 20             | 14             | 8              | 4.00                 | 29.8        |
| R5166.100-070 | m 1    | 70             | 70                        | 72             | 6              | 8                         | 20             | 14             | 8              | 4.38                 | 35.1        |
| R5166.100-072 | m 1    | 72             | 72                        | 74             | 6              | 8                         | 20             | 14             | 8              | 4.50                 | 37.0        |
| R5166.100-080 | m 1    | 80             | 80                        | 82             | 6              | 8                         | 20             | 14             | 8              | 5.00                 | 45.1        |
| R5166.100-090 | m 1    | 90             | 90                        | 92             | 6              | 8                         | 30             | 14             | 8              | 5.62                 | 60.8        |



# Spur Gears - Module 1 - Plastic

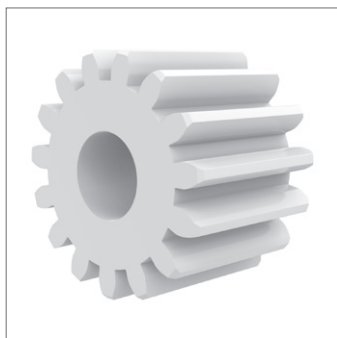
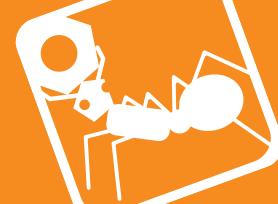
white polyacetal - 17-120 teeth



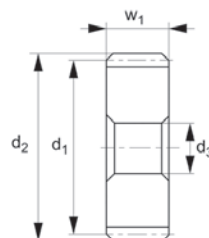
Standard Spur Gears

| Order No.     | Module | No. of teeth $z$ | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H9 | $d_4$ | $l_1$ | $l_2$ | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|------------------|------------------|-------|-------|------------------|-------|-------|-------|----------------------|-------------|
| R5166.100-100 | m 1    | 100              | 100              | 102   | 6     | 8                | 30    | 14    | 8     | 6.25                 | 73.4        |
| R5166.100-120 | m 1    | 120              | 120              | 122   | 6     | 8                | 30    | 14    | 8     | 7.49                 | 102.7       |

STANDARD SPUR GEARS



### R5167



#### Material

White polyacetal, machined.  
Accuracy to JIS B 1702-1 (ISO) class 9-10.

#### Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling gears = 0,06 - 0,12mm.

#### Tips

Module 1 for gears with 17-120 teeth see R5169. Max. allowable torque (Nm) is

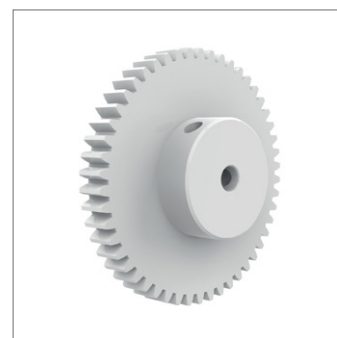
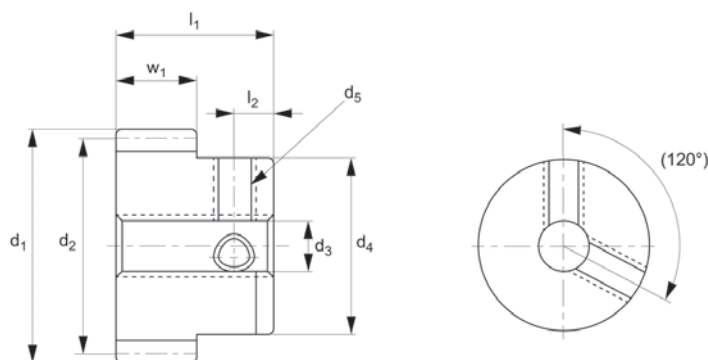
based on standard operating conditions (see technical pages) with a safety factor of 1.2. For non standard applications apply a suitable safety factor depending on frequency of use, type of working etc.

| Order No.     | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H9 | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|------------------|-------|-------|------------------|----------------------|-------------|
| R5167.100-012 | m 1    | 12             | 12               | 14    | 12    | 6                | 0.84                 | 1.4         |
| R5167.100-014 | m 1    | 14             | 14               | 16    | 12    | 6                | 0.98                 | 2.1         |
| R5167.100-015 | m 1    | 15             | 15               | 17    | 12    | 6                | 1.05                 | 2.5         |
| R5167.100-016 | m 1    | 16             | 16               | 18    | 12    | 6                | 1.12                 | 2.9         |



# Spur Gears - Module 1 - Plastic

white polyacetal - set screw - 17-120 teeth



**R5169**

STANDARD SPUR GEARS

## Material

White polyacetal, machined.

Accuracy to JIS B 1702-1 (ISO) class 9 - 10.

## Technical Notes

20° pressure angle, full depth tooth.

Amount of backlash when assembling

gears = 0,06-0,12mm.

## Tips

Module 1 for gears with 12-16 teeth see R5167.

Max. allowable torque (Nm) is based on standard operating conditions (see tech-

nical 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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H9 | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5169.100-017 | m 1    | 17             | 17                        | 19             | 8              | 4                         | 14             | 16             | 4              | 2xM 4                 | 0.80                 | 4.0         |
| R5169.100-018 | m 1    | 18             | 18                        | 20             | 8              | 4                         | 15             | 16             | 4              | 2xM 4                 | 0.84                 | 4.5         |
| R5169.100-020 | m 1    | 20             | 20                        | 22             | 8              | 5                         | 16             | 16             | 4              | 2xM 4                 | 0.94                 | 5.3         |
| R5169.100-022 | m 1    | 22             | 22                        | 24             | 8              | 5                         | 18             | 16             | 4              | 2xM 4                 | 1.03                 | 6.7         |
| R5169.100-023 | m 1    | 23             | 23                        | 25             | 8              | 5                         | 20             | 16             | 4              | 2xM 4                 | 1.08                 | 7.7         |
| R5169.100-024 | m 1    | 24             | 24                        | 26             | 8              | 5                         | 20             | 16             | 4              | 2xM 4                 | 1.12                 | 8.2         |
| R5169.100-025 | m 1    | 25             | 25                        | 27             | 8              | 5                         | 22             | 16             | 4              | 2xM 4                 | 1.17                 | 9.3         |
| R5169.100-026 | m 1    | 26             | 26                        | 28             | 8              | 5                         | 22             | 16             | 4              | 2xM 4                 | 1.22                 | 9.8         |
| R5169.100-028 | m 1    | 28             | 28                        | 30             | 8              | 5                         | 24             | 16             | 4              | 2xM 4                 | 1.31                 | 11.6        |
| R5169.100-030 | m 1    | 30             | 30                        | 32             | 8              | 5                         | 24             | 16             | 4              | 2xM 4                 | 1.40                 | 12.6        |
| R5169.100-032 | m 1    | 32             | 32                        | 34             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.00                 | 11.5        |
| R5169.100-034 | m 1    | 34             | 34                        | 36             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.13                 | 12.4        |
| R5169.100-035 | m 1    | 35             | 35                        | 37             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.19                 | 12.8        |
| R5169.100-036 | m 1    | 36             | 36                        | 38             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.25                 | 13.3        |
| R5169.100-038 | m 1    | 38             | 38                        | 40             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.38                 | 14.3        |
| R5169.100-040 | m 1    | 40             | 40                        | 42             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.50                 | 15.3        |
| R5169.100-042 | m 1    | 42             | 42                        | 44             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.63                 | 16.4        |
| R5169.100-044 | m 1    | 44             | 44                        | 46             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.75                 | 17.5        |
| R5169.100-045 | m 1    | 45             | 45                        | 47             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 2.91                 | 18.1        |
| R5169.100-048 | m 1    | 48             | 48                        | 50             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 3.00                 | 20.0        |
| R5169.100-050 | m 1    | 50             | 50                        | 52             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 3.13                 | 21.3        |
| R5169.100-052 | m 1    | 52             | 52                        | 54             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 3.25                 | 22.6        |
| R5169.100-055 | m 1    | 55             | 55                        | 57             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 3.44                 | 24.8        |
| R5169.100-056 | m 1    | 56             | 56                        | 58             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 3.50                 | 25.5        |
| R5169.100-060 | m 1    | 60             | 60                        | 62             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 3.75                 | 28.6        |
| R5169.100-064 | m 1    | 64             | 64                        | 66             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 4.00                 | 31.9        |
| R5169.100-070 | m 1    | 70             | 70                        | 72             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 4.38                 | 37.2        |
| R5169.100-072 | m 1    | 72             | 72                        | 74             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 4.50                 | 39.1        |
| R5169.100-080 | m 1    | 80             | 80                        | 82             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 5.00                 | 47.2        |
| R5169.100-090 | m 1    | 90             | 90                        | 92             | 6              | 5                         | 24             | 14             | 4              | 2xM 4                 | 5.62                 | 58.5        |

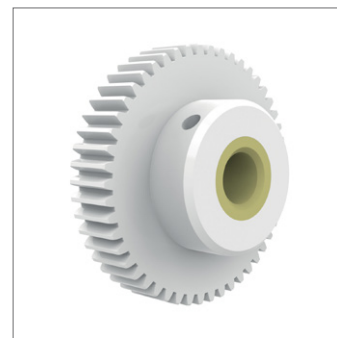
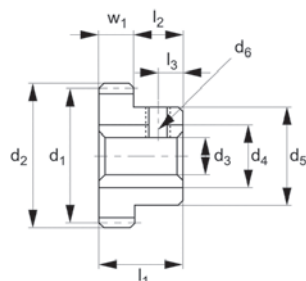


| Order No.            | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H9 | $d_4$ | $l_1$ | $l_2$ | Thread $d_5$ | Torque<br>Nm<br>max. | Weight<br>g |
|----------------------|--------|----------------|------------------|-------|-------|------------------|-------|-------|-------|--------------|----------------------|-------------|
| <b>R5169.100-100</b> | m 1    | 100            | 100              | 102   | 6     | 5                | 24    | 14    | 4     | 2xM 4        | 6.25                 | 71.1        |
| <b>R5169.100-120</b> | m 1    | 120            | 120              | 122   | 6     | 5                | 24    | 14    | 4     | 2xM 4        | 7.49                 | 100.4       |



# Spur Gears - Module 1 - Plastic

white polyacetal - brass bush - 20-120 teeth



**R5170**

STANDARD SPUR GEARS

## Material

White polyacetal, with brass bushing.  
Accuracy to JIS B 1702-1 (ISO) class 9-10.

## Technical Notes

20° pressure angle, full depth tooth.

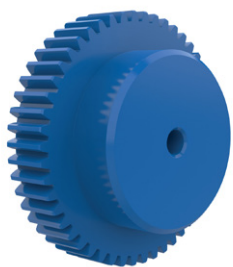
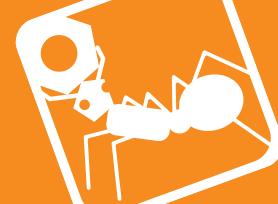
Amount of backlash when assembling gears = 0,06 - 0,12mm.

## Tips

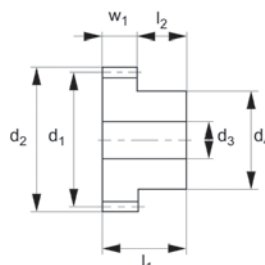
Max. allowable torque (Nm) is based on standard operating conditions (see technical

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. frequency of use, type of working etc.

| Order No.     | Module | No. of teeth z | Pitch dia. d <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H8 | d <sub>4</sub> | d <sub>6</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5170.100-020 | m 1    | 20             | 20                        | 22             | 10             | 8                         | 16             | 12             | 20             | 10             | 4              | M 4                   | 1.54                 | 16.8        |
| R5170.100-024 | m 1    | 24             | 24                        | 26             | 10             | 8                         | 20             | 12             | 20             | 10             | 4              | M 4                   | 1.84                 | 17.5        |
| R5170.100-025 | m 1    | 25             | 25                        | 27             | 10             | 8                         | 20             | 12             | 20             | 10             | 4              | M 4                   | 1.92                 | 18.0        |
| R5170.100-028 | m 1    | 28             | 28                        | 30             | 10             | 10                        | 24             | 16             | 20             | 10             | 4              | M 4                   | 2.15                 | 35.0        |
| R5170.100-030 | m 1    | 30             | 30                        | 32             | 10             | 10                        | 24             | 16             | 20             | 10             | 4              | M 4                   | 2.30                 | 36.4        |
| R5170.100-032 | m 1    | 32             | 32                        | 34             | 10             | 10                        | 24             | 16             | 20             | 10             | 4              | M 4                   | 2.46                 | 37.8        |
| R5170.100-036 | m 1    | 36             | 36                        | 38             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 2.76                 | 38.0        |
| R5170.100-040 | m 1    | 40             | 40                        | 42             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 3.07                 | 41.4        |
| R5170.100-045 | m 1    | 45             | 45                        | 47             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 3.45                 | 46.1        |
| R5170.100-048 | m 1    | 48             | 48                        | 50             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 3.68                 | 49.2        |
| R5170.100-050 | m 1    | 50             | 50                        | 52             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 3.84                 | 51.4        |
| R5170.100-056 | m 1    | 56             | 56                        | 58             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 4.29                 | 58.5        |
| R5170.100-060 | m 1    | 60             | 60                        | 62             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 4.60                 | 63.7        |
| R5170.100-064 | m 1    | 64             | 64                        | 66             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 4.91                 | 69.2        |
| R5170.100-070 | m 1    | 70             | 70                        | 72             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 5.37                 | 78.2        |
| R5170.100-072 | m 1    | 72             | 72                        | 74             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 5.52                 | 81.4        |
| R5170.100-080 | m 1    | 80             | 80                        | 82             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 6.13                 | 94.9        |
| R5170.100-090 | m 1    | 90             | 90                        | 92             | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 6.89                 | 113.9       |
| R5170.100-100 | m 1    | 100            | 100                       | 102            | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 7.66                 | 135.1       |
| R5170.100-120 | m 1    | 120            | 120                       | 122            | 10             | 10                        | 30             | 16             | 20             | 10             | 4              | M 4                   | 9.18                 | 184.1       |



### R5172



#### Material

Blue polyacetal, machined.  
Accuracy to JIS B 1702-1 (ISO) class 9 - 10.

#### Technical Notes

20° pressure angle, full depth tooth.  
Amount of backlash when assembling gears = 0,06 - 0,12mm.

Blue polyacetal machined gears are suitable for use in food machinery applications. Approved by the FDA (USA) and by regulators in the EU and Japan, where the food has an alcohol percentage of <15%. Please clean gears thoroughly before use.

#### Tips

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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H9 | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|----------------------|-------------|
| R5172.100-012 | m 1    | 12             | 12                        | 14             | 10             | 4                         | 8              | 20             | 10             | 0.69                 | 1.9         |
| R5172.100-014 | m 1    | 14             | 14                        | 16             | 10             | 4                         | 10             | 20             | 10             | 0.92                 | 2.9         |
| R5172.100-015 | m 1    | 15             | 15                        | 17             | 10             | 4                         | 10             | 20             | 10             | 1.02                 | 3.2         |
| R5172.100-016 | m 1    | 16             | 16                        | 18             | 10             | 4                         | 12             | 20             | 10             | 1.12                 | 4.0         |
| R5172.100-017 | m 1    | 17             | 17                        | 19             | 10             | 4                         | 14             | 20             | 10             | 1.21                 | 5.0         |
| R5172.100-018 | m 1    | 18             | 18                        | 20             | 10             | 4                         | 15             | 20             | 10             | 1.31                 | 5.7         |
| R5172.100-020 | m 1    | 20             | 20                        | 22             | 10             | 5                         | 16             | 20             | 10             | 1.54                 | 6.6         |
| R5172.100-022 | m 1    | 22             | 22                        | 24             | 10             | 5                         | 18             | 20             | 10             | 1.61                 | 8.3         |
| R5172.100-023 | m 1    | 23             | 23                        | 25             | 10             | 5                         | 20             | 20             | 10             | 1.71                 | 9.7         |
| R5172.100-024 | m 1    | 24             | 24                        | 26             | 10             | 5                         | 20             | 20             | 10             | 1.84                 | 10.2        |
| R5172.100-025 | m 1    | 25             | 25                        | 27             | 10             | 5                         | 22             | 20             | 10             | 1.92                 | 11.6        |
| R5172.100-026 | m 1    | 26             | 26                        | 28             | 10             | 5                         | 22             | 20             | 10             | 1.99                 | 12.2        |
| R5172.100-028 | m 1    | 28             | 28                        | 30             | 10             | 5                         | 24             | 20             | 10             | 2.15                 | 14.4        |
| R5172.100-030 | m 1    | 30             | 30                        | 32             | 10             | 5                         | 24             | 20             | 10             | 2.30                 | 15.7        |
| R5172.100-032 | m 1    | 32             | 32                        | 34             | 10             | 5                         | 24             | 20             | 10             | 2.46                 | 17.1        |
| R5172.100-034 | m 1    | 34             | 34                        | 36             | 10             | 5                         | 24             | 20             | 10             | 2.67                 | 18.5        |
| R5172.100-035 | m 1    | 35             | 35                        | 37             | 10             | 5                         | 24             | 20             | 10             | 2.59                 | 19.3        |
| R5172.100-036 | m 1    | 36             | 36                        | 38             | 10             | 5                         | 26             | 20             | 10             | 2.76                 | 21.2        |
| R5172.100-038 | m 1    | 38             | 38                        | 40             | 10             | 5                         | 28             | 20             | 10             | 2.94                 | 24.0        |
| R5172.100-040 | m 1    | 40             | 40                        | 42             | 10             | 5                         | 30             | 20             | 10             | 3.07                 | 27.0        |
| R5172.100-042 | m 1    | 42             | 42                        | 44             | 10             | 5                         | 30             | 20             | 10             | 3.21                 | 28.8        |
| R5172.100-044 | m 1    | 44             | 44                        | 46             | 10             | 5                         | 32             | 20             | 10             | 3.39                 | 32.1        |
| R5172.100-045 | m 1    | 45             | 45                        | 47             | 10             | 5                         | 32             | 20             | 10             | 3.45                 | 33.1        |
| R5172.100-048 | m 1    | 48             | 48                        | 50             | 10             | 5                         | 36             | 20             | 10             | 3.68                 | 39.2        |
| R5172.100-050 | m 1    | 50             | 50                        | 52             | 10             | 5                         | 36             | 20             | 10             | 3.84                 | 41.4        |
| R5172.100-052 | m 1    | 52             | 52                        | 54             | 10             | 5                         | 40             | 20             | 10             | 4.03                 | 47.0        |
| R5172.100-055 | m 1    | 55             | 55                        | 57             | 10             | 5                         | 40             | 20             | 10             | 4.23                 | 50.5        |
| R5172.100-056 | m 1    | 56             | 56                        | 58             | 10             | 5                         | 40             | 20             | 10             | 4.29                 | 51.7        |
| R5172.100-060 | m 1    | 60             | 60                        | 62             | 10             | 5                         | 46             | 20             | 10             | 4.60                 | 62.6        |



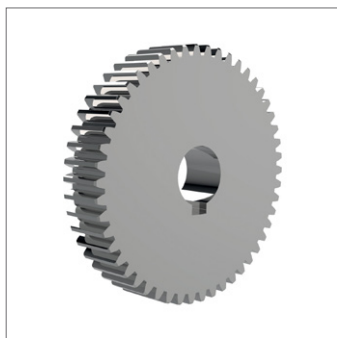
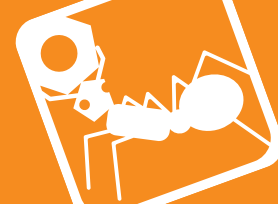
# Spur Gears - Module 1 - Plastic

blue polyacetal - 12-120 teeth

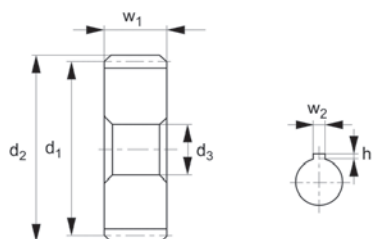


## Standard Spur Gears

| Order No.     | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H9 | $d_4$ | $l_1$ | $l_2$ | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|------------------|-------|-------|------------------|-------|-------|-------|----------------------|-------------|
| R5172.100-064 | m 1    | 64             | 64               | 66    | 10    | 5                | 48    | 20    | 10    | 4.91                 | 70.2        |
| R5172.100-065 | m 1    | 65             | 65               | 67    | 10    | 5                | 48    | 20    | 10    | 4.97                 | 71.6        |
| R5172.100-070 | m 1    | 70             | 70               | 72    | 10    | 5                | 52    | 20    | 10    | 5.37                 | 83.5        |
| R5172.100-072 | m 1    | 72             | 72               | 74    | 10    | 5                | 52    | 20    | 10    | 5.52                 | 86.6        |
| R5172.100-075 | m 1    | 75             | 75               | 77    | 10    | 5                | 52    | 20    | 10    | 5.81                 | 91.5        |
| R5172.100-080 | m 1    | 80             | 80               | 82    | 10    | 5                | 58    | 20    | 10    | 6.13                 | 107.4       |
| R5172.100-085 | m 1    | 85             | 85               | 87    | 10    | 5                | 62    | 20    | 10    | 6.44                 | 121.8       |
| R5172.100-090 | m 1    | 90             | 90               | 92    | 10    | 5                | 65    | 20    | 10    | 6.89                 | 135.7       |
| R5172.100-100 | m 1    | 100            | 100              | 102   | 10    | 5                | 70    | 20    | 10    | 7.66                 | 164.0       |
| R5172.100-120 | m 1    | 120            | 120              | 122   | 10    | 5                | 84    | 20    | 10    | 9.18                 | 236.8       |



### R5173



#### 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 = 0,04 - 0,10mm.

#### Tips

Module 1 for gears with 8-10 teeth see R5175 & R5176, for gears with 12-18 teeth see R5177, for gears with 14-120 teeth with set screw see R5179.

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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H7 | Keyway (w <sub>2</sub> x h <sub>1</sub> ) | Torque<br>Nm<br>max. | Weight<br>g |
|----------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|-------------------------------------------|----------------------|-------------|
| R5173.100-050-06-10  | m 1    | 50             | 50                        | 52             | 6              | 10                        | -                                         | 14.32                | 89          |
| R5173.100-050-06-12  | m 1    | 50             | 50                        | 52             | 6              | 12                        | 4×1,8                                     | 14.32                | 87          |
| R5173.100-050-10-08  | m 1    | 50             | 50                        | 52             | 10             | 8                         | -                                         | 24.83                | 151         |
| R5173.100-050-10-10  | m 1    | 50             | 50                        | 52             | 10             | 10                        | 3×1,4                                     | 24.83                | 148         |
| R5173.100-050-10-12  | m 1    | 50             | 50                        | 52             | 10             | 12                        | 4×1,8                                     | 24.83                | 145         |
| R5173.100-050-10-15  | m 1    | 50             | 50                        | 52             | 10             | 15                        | 5×2,3                                     | 24.83                | 140         |
| R5173.100-052-06-10  | m 1    | 52             | 52                        | 54             | 6              | 10                        | -                                         | 15.28                | 97          |
| R5173.100-052-10-10  | m 1    | 52             | 52                        | 54             | 10             | 10                        | -                                         | 25.78                | 161         |
| R5173.100-054-06-10  | m 1    | 54             | 54                        | 56             | 6              | 10                        | -                                         | 16.23                | 105         |
| R5173.100-054-10-10  | m 1    | 54             | 54                        | 56             | 10             | 10                        | -                                         | 27.69                | 174         |
| R5173.100-055-06-10  | m 1    | 55             | 55                        | 57             | 6              | 10                        | -                                         | 16.23                | 109         |
| R5173.100-055-10-10  | m 1    | 55             | 55                        | 57             | 10             | 10                        | -                                         | 27.69                | 181         |
| R5173.100-056-06-10  | m 1    | 56             | 56                        | 58             | 6              | 10                        | -                                         | 17.19                | 113         |
| R5173.100-056-06-12  | m 1    | 56             | 56                        | 58             | 6              | 12                        | 4×1,8                                     | 17.19                | 111         |
| R5173.100-056-10-10  | m 1    | 56             | 56                        | 58             | 10             | 10                        | -                                         | 28.65                | 188         |
| R5173.100-056-10-12  | m 1    | 56             | 56                        | 58             | 10             | 12                        | 4×1,8                                     | 28.65                | 184         |
| R5173.100-056-10-15  | m 1    | 56             | 56                        | 58             | 10             | 15                        | 5×2,3                                     | 28.65                | 179         |
| R5173.100-058-06-10  | m 1    | 58             | 58                        | 60             | 6              | 10                        | -                                         | 18.14                | 115         |
| R5173.100-058-10-10  | m 1    | 58             | 58                        | 60             | 10             | 10                        | -                                         | 29.60                | 196         |
| R5173.100-060-06-10  | m 1    | 60             | 60                        | 62             | 6              | 10                        | -                                         | 18.14                | 130         |
| R5173.100-060-06-12  | m 1    | 60             | 60                        | 62             | 6              | 12                        | 4×1,8                                     | 18.14                | 128         |
| R5173.100-060-10-10  | m 1    | 60             | 60                        | 62             | 10             | 10                        | -                                         | 31.51                | 216         |
| R5173.100-060-10-10K | m 1    | 60             | 60                        | 62             | 10             | 10                        | 3×1,4                                     | 31.51                | 216         |
| R5173.100-060-10-12  | m 1    | 60             | 60                        | 62             | 10             | 12                        | 4×1,8                                     | 31.51                | 213         |
| R5173.100-060-10-15  | m 1    | 60             | 60                        | 62             | 10             | 15                        | 5×2,3                                     | 31.51                | 208         |
| R5173.100-062-06-10  | m 1    | 62             | 62                        | 64             | 6              | 10                        | -                                         | 19.10                | 139         |
| R5173.100-062-10-10  | m 1    | 62             | 62                        | 64             | 10             | 10                        | -                                         | 32.47                | 231         |
| R5173.100-064-06-10  | m 1    | 64             | 64                        | 66             | 6              | 10                        | -                                         | 20.05                | 148         |
| R5173.100-064-06-12  | m 1    | 64             | 64                        | 66             | 6              | 12                        | 4×1,8                                     | 20.05                | 146         |
| R5173.100-064-10-10  | m 1    | 64             | 64                        | 66             | 10             | 10                        | -                                         | 33.42                | 247         |



# Spur Gears - Module 1

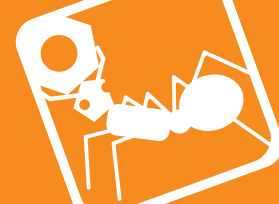
carbon steel - 14-68 teeth



Standard Spur  
Gears

| Order No.           | Module | No. of teeth z | Pitch dia. d <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H7 | Keyway (w <sub>2</sub> x h <sub>1</sub> ) | Torque<br>Nm<br>max. | Weight<br>g |
|---------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|-------------------------------------------|----------------------|-------------|
| R5173.100-064-10-12 | m 1    | 64             | 64                        | 66             | 10             | 12                        | 4×1,8                                     | 33.42                | 244         |
| R5173.100-064-10-15 | m 1    | 64             | 64                        | 66             | 10             | 15                        | 5×2,3                                     | 33.42                | 238         |
| R5173.100-065-06-10 | m 1    | 65             | 65                        | 67             | 6              | 10                        | -                                         | 20.05                | 153         |
| R5173.100-065-10-10 | m 1    | 65             | 65                        | 67             | 10             | 10                        | -                                         | 34.38                | 255         |
| R5173.100-066-06-10 | m 1    | 66             | 66                        | 68             | 6              | 10                        | -                                         | 21.01                | 158         |
| R5173.100-066-10-10 | m 1    | 66             | 66                        | 68             | 10             | 10                        | -                                         | 35.33                | 263         |
| R5173.100-068-06-10 | m 1    | 68             | 68                        | 70             | 6              | 10                        | -                                         | 21.96                | 168         |
| R5173.100-068-10-10 | m 1    | 68             | 68                        | 70             | 10             | 10                        | -                                         | 36.29                | 279         |
| R5173.100-030-08-08 | m 1    | 30             | 30                        | 32             | 8              | 8                         | -                                         | 10.54                | 42          |
| R5173.100-030-08-10 | m 1    | 30             | 30                        | 32             | 8              | 10                        | 3×1,4                                     | 10.54                | 40          |
| R5173.100-030-10-10 | m 1    | 30             | 30                        | 32             | 10             | 10                        | 3×1,4                                     | 13.19                | 49          |
| R5173.100-030-12-08 | m 1    | 30             | 30                        | 32             | 12             | 8                         | -                                         | 15.81                | 62          |
| R5173.100-030-12-10 | m 1    | 30             | 30                        | 32             | 12             | 10                        | 3×1,4                                     | 15.81                | 59          |
| R5173.100-030-12-12 | m 1    | 30             | 30                        | 32             | 12             | 12                        | 4×1,8                                     | 15.81                | 56          |
| R5173.100-032-06-08 | m 1    | 32             | 32                        | 34             | 6              | 8                         | -                                         | 8.62                 | 36          |
| R5173.100-032-06-10 | m 1    | 32             | 32                        | 34             | 6              | 10                        | 3×1,4                                     | 8.62                 | 34          |
| R5173.100-032-06-12 | m 1    | 32             | 32                        | 34             | 6              | 12                        | 4×1,8                                     | 8.62                 | 33          |
| R5173.100-032-10-08 | m 1    | 32             | 32                        | 34             | 10             | 8                         | -                                         | 14.37                | 60          |
| R5173.100-032-10-10 | m 1    | 32             | 32                        | 34             | 10             | 10                        | 3×1,4                                     | 14.37                | 57          |
| R5173.100-032-10-12 | m 1    | 32             | 32                        | 34             | 10             | 12                        | 4×1,8                                     | 14.37                | 54          |
| R5173.100-034-06-08 | m 1    | 34             | 34                        | 36             | 6              | 8                         | -                                         | 9.34                 | 41          |
| R5173.100-034-10-08 | m 1    | 34             | 34                        | 36             | 10             | 8                         | -                                         | 15.57                | 68          |
| R5173.100-035-06-08 | m 1    | 35             | 35                        | 37             | 6              | 8                         | -                                         | 9.70                 | 43          |
| R5173.100-035-06-10 | m 1    | 35             | 35                        | 37             | 6              | 10                        | 3×1,4                                     | 9.70                 | 42          |
| R5173.100-035-06-12 | m 1    | 35             | 35                        | 37             | 6              | 12                        | 4×1,8                                     | 9.70                 | 40          |
| R5173.100-035-10-08 | m 1    | 35             | 35                        | 37             | 10             | 8                         | -                                         | 16.17                | 72          |
| R5173.100-035-10-10 | m 1    | 35             | 35                        | 37             | 10             | 10                        | 3×1,4                                     | 16.17                | 69          |
| R5173.100-035-10-12 | m 1    | 35             | 35                        | 37             | 10             | 12                        | 4×1,8                                     | 16.17                | 67          |
| R5173.100-035-10-15 | m 1    | 35             | 35                        | 37             | 10             | 15                        | 5×2,3                                     | 16.17                | 61          |
| R5173.100-036-06-08 | m 1    | 36             | 36                        | 38             | 6              | 8                         | -                                         | 10.07                | 46          |
| R5173.100-036-06-10 | m 1    | 36             | 36                        | 38             | 6              | 10                        | 3×1,4                                     | 10.07                | 44          |
| R5173.100-036-06-12 | m 1    | 36             | 36                        | 38             | 6              | 12                        | 4×1,8                                     | 10.07                | 43          |
| R5173.100-036-10-08 | m 1    | 36             | 36                        | 38             | 10             | 8                         | -                                         | 16.78                | 76          |
| R5173.100-036-10-10 | m 1    | 36             | 36                        | 38             | 10             | 10                        | 3×1,4                                     | 16.78                | 74          |
| R5173.100-036-10-12 | m 1    | 36             | 36                        | 38             | 10             | 12                        | 4×1,8                                     | 16.78                | 71          |
| R5173.100-036-10-15 | m 1    | 36             | 36                        | 38             | 10             | 15                        | 5×2,3                                     | 16.78                | 66          |
| R5173.100-038-06-08 | m 1    | 38             | 38                        | 40             | 6              | 8                         | -                                         | 10.80                | 52          |
| R5173.100-038-10-08 | m 1    | 38             | 38                        | 40             | 10             | 8                         | -                                         | 18.00                | 86          |
| R5173.100-040-06-08 | m 1    | 40             | 40                        | 42             | 6              | 8                         | -                                         | 11.53                | 57          |
| R5173.100-040-06-10 | m 1    | 40             | 40                        | 42             | 6              | 10                        | 3×1,4                                     | 11.53                | 56          |
| R5173.100-040-06-12 | m 1    | 40             | 40                        | 42             | 6              | 12                        | 4×1,8                                     | 11.53                | 54          |
| R5173.100-040-10-08 | m 1    | 40             | 40                        | 42             | 10             | 8                         | -                                         | 19.18                | 95          |
| R5173.100-040-10-10 | m 1    | 40             | 40                        | 42             | 10             | 10                        | 3×1,4                                     | 19.18                | 93          |
| R5173.100-040-10-12 | m 1    | 40             | 40                        | 42             | 10             | 12                        | 4×1,8                                     | 19.18                | 90          |
| R5173.100-040-10-15 | m 1    | 40             | 40                        | 42             | 10             | 15                        | 5×2,3                                     | 19.18                | 84          |
| R5173.100-042-06-08 | m 1    | 42             | 42                        | 44             | 6              | 8                         | -                                         | 12.27                | 63          |
| R5173.100-042-10-08 | m 1    | 42             | 42                        | 44             | 10             | 8                         | -                                         | 20.45                | 105         |
| R5173.100-044-06-08 | m 1    | 44             | 44                        | 46             | 6              | 8                         | -                                         | 13.01                | 70          |
| R5173.100-044-10-08 | m 1    | 44             | 44                        | 46             | 10             | 8                         | -                                         | 21.68                | 116         |
| R5173.100-045-06-08 | m 1    | 45             | 45                        | 47             | 6              | 8                         | -                                         | 13.38                | 73          |
| R5173.100-045-06-10 | m 1    | 45             | 45                        | 47             | 6              | 10                        | 3×1,4                                     | 13.38                | 71          |
| R5173.100-045-06-12 | m 1    | 45             | 45                        | 47             | 6              | 12                        | 4×1,8                                     | 13.38                | 70          |
| R5173.100-045-10-08 | m 1    | 45             | 45                        | 47             | 10             | 8                         | -                                         | 22.30                | 121         |
| R5173.100-045-10-10 | m 1    | 45             | 45                        | 47             | 10             | 10                        | 3×1,4                                     | 22.30                | 119         |
| R5173.100-045-10-12 | m 1    | 45             | 45                        | 47             | 10             | 12                        | 4×1,8                                     | 22.30                | 116         |
| R5173.100-045-10-15 | m 1    | 45             | 45                        | 47             | 10             | 15                        | 5×2,3                                     | 22.30                | 111         |
| R5173.100-046-06-08 | m 1    | 46             | 46                        | 48             | 6              | 8                         | -                                         | 13.75                | 76          |
| R5173.100-046-10-10 | m 1    | 46             | 46                        | 48             | 10             | 10                        | -                                         | 22.92                | 125         |
| R5173.100-048-06-08 | m 1    | 48             | 48                        | 50             | 6              | 8                         | -                                         | 14.32                | 83          |
| R5173.100-048-06-10 | m 1    | 48             | 48                        | 50             | 6              | 10                        | 3×1,4                                     | 14.32                | 82          |
| R5173.100-048-06-12 | m 1    | 48             | 48                        | 50             | 6              | 12                        | 4×1,8                                     | 14.32                | 80          |
| R5173.100-048-10-10 | m 1    | 48             | 48                        | 50             | 10             | 10                        | -                                         | 23.87                | 136         |
| R5173.100-048-10-12 | m 1    | 48             | 48                        | 50             | 10             | 12                        | 4×1,8                                     | 23.87                | 133         |
| R5173.100-048-10-15 | m 1    | 48             | 48                        | 50             | 10             | 15                        | 5×2,3                                     | 23.87                | 128         |
| R5173.100-014-08-05 | m 1    | 14             | 14                        | 16             | 8              | 5                         | -                                         | 3.38                 | 9           |
| R5173.100-014-08-06 | m 1    | 14             | 14                        | 16             | 8              | 6                         | -                                         | 3.38                 | 8           |
| R5173.100-014-12-06 | m 1    | 14             | 14                        | 16             | 12             | 6                         | -                                         | 5.07                 | 12          |

STANDARD SPUR GEARS

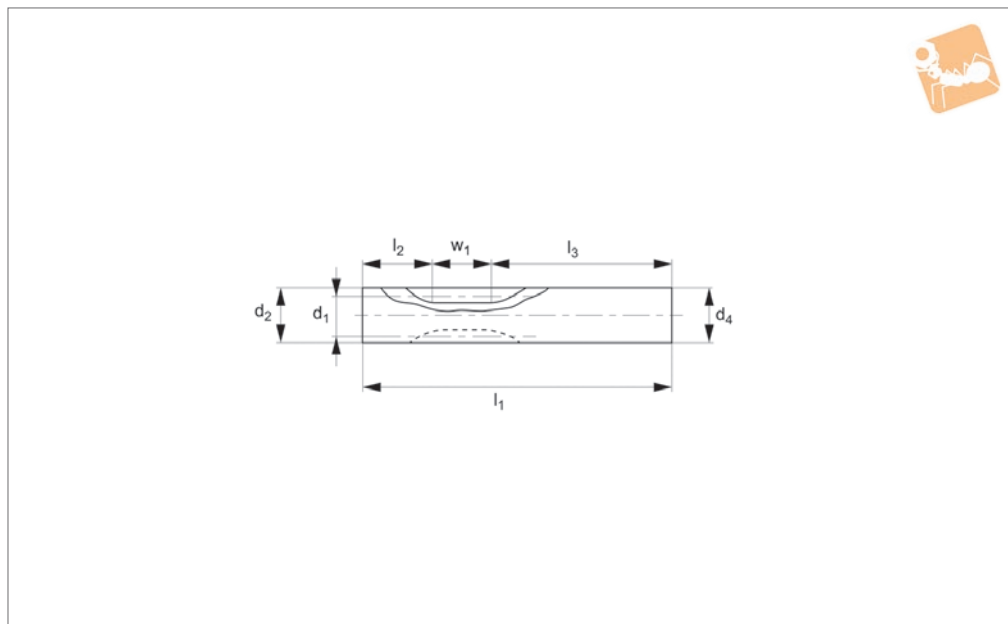


| Order No.           | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H7 | Keyway ( $w_2 \times h_1$ ) | Torque<br>Nm<br>max. | Weight<br>g |
|---------------------|--------|----------------|------------------|-------|-------|------------------|-----------------------------|----------------------|-------------|
| R5173.100-015-08-05 | m 1    | 15             | 15               | 17    | 8     | 5                | -                           | 3.79                 | 10          |
| R5173.100-015-08-06 | m 1    | 15             | 15               | 17    | 8     | 6                | -                           | 3.79                 | 10          |
| R5173.100-015-12-06 | m 1    | 15             | 15               | 17    | 12    | 6                | -                           | 5.68                 | 14          |
| R5173.100-016-08-05 | m 1    | 16             | 16               | 18    | 8     | 5                | -                           | 4.21                 | 12          |
| R5173.100-016-08-06 | m 1    | 16             | 16               | 18    | 8     | 6                | -                           | 4.21                 | 11          |
| R5173.100-016-12-08 | m 1    | 16             | 16               | 18    | 12    | 8                | -                           | 6.31                 | 15          |
| R5173.100-017-08-05 | m 1    | 17             | 17               | 19    | 8     | 5                | -                           | 4.63                 | 13          |
| R5173.100-017-12-08 | m 1    | 17             | 17               | 19    | 12    | 8                | -                           | 6.94                 | 17          |
| R5173.100-018-08-05 | m 1    | 18             | 18               | 20    | 8     | 5                | -                           | 5.06                 | 15          |
| R5173.100-018-08-06 | m 1    | 18             | 18               | 20    | 8     | 6                | -                           | 5.06                 | 15          |
| R5173.100-018-12-08 | m 1    | 18             | 18               | 20    | 12    | 8                | -                           | 7.58                 | 20          |
| R5173.100-019-08-06 | m 1    | 19             | 19               | 21    | 8     | 6                | -                           | 6.38                 | 16          |
| R5173.100-019-12-08 | m 1    | 19             | 19               | 21    | 12    | 8                | -                           | 9.57                 | 22          |
| R5173.100-020-08-06 | m 1    | 20             | 20               | 22    | 8     | 6                | -                           | 5.94                 | 18          |
| R5173.100-020-08-08 | m 1    | 20             | 20               | 22    | 8     | 8                | -                           | 5.94                 | 15          |
| R5173.100-020-12-08 | m 1    | 20             | 20               | 22    | 12    | 8                | -                           | 8.90                 | 25          |
| R5173.100-020-12-10 | m 1    | 20             | 20               | 22    | 12    | 10               | 3×1,4                       | 8.90                 | 20          |
| R5173.100-021-08-06 | m 1    | 21             | 21               | 23    | 8     | 6                | -                           | 6.38                 | 20          |
| R5173.100-021-12-10 | m 1    | 21             | 21               | 23    | 12    | 10               | -                           | 9.57                 | 23          |
| R5173.100-022-08-06 | m 1    | 22             | 22               | 24    | 8     | 6                | -                           | 6.83                 | 23          |
| R5173.100-022-12-10 | m 1    | 22             | 22               | 24    | 12    | 10               | -                           | 10.24                | 29          |
| R5173.100-023-08-06 | m 1    | 23             | 23               | 25    | 8     | 6                | -                           | 7.28                 | 25          |
| R5173.100-023-12-10 | m 1    | 23             | 23               | 25    | 12    | 10               | -                           | 10.93                | 32          |
| R5173.100-024-08-06 | m 1    | 24             | 24               | 26    | 8     | 6                | -                           | 7.74                 | 27          |
| R5173.100-024-08-08 | m 1    | 24             | 24               | 26    | 8     | 8                | -                           | 9.67                 | 26          |
| R5173.100-024-12-08 | m 1    | 24             | 24               | 26    | 12    | 8                | -                           | 11.61                | 38          |
| R5173.100-024-12-10 | m 1    | 24             | 24               | 26    | 12    | 10               | 3×1,4                       | 11.61                | 35          |
| R5173.100-025-08-06 | m 1    | 25             | 25               | 27    | 8     | 6                | -                           | 8.20                 | 30          |
| R5173.100-025-08-08 | m 1    | 25             | 25               | 27    | 8     | 8                | -                           | 10.29                | 28          |
| R5173.100-025-08-10 | m 1    | 25             | 25               | 27    | 8     | 10               | 3×1,4                       | 10.29                | 26          |
| R5173.100-025-12-08 | m 1    | 25             | 25               | 27    | 12    | 8                | -                           | 12.30                | 42          |
| R5173.100-025-12-10 | m 1    | 25             | 25               | 27    | 12    | 10               | 3×1,4                       | 12.30                | 39          |
| R5173.100-026-08-06 | m 1    | 26             | 26               | 28    | 8     | 6                | -                           | 8.66                 | 32          |
| R5173.100-026-12-08 | m 1    | 26             | 26               | 28    | 12    | 8                | -                           | 12.99                | 46          |
| R5173.100-027-08-06 | m 1    | 27             | 27               | 29    | 8     | 6                | -                           | 9.13                 | 35          |
| R5173.100-027-12-08 | m 1    | 27             | 27               | 29    | 12    | 8                | -                           | 13.69                | 50          |
| R5173.100-028-08-06 | m 1    | 28             | 28               | 30    | 8     | 6                | -                           | 9.60                 | 37          |
| R5173.100-028-08-08 | m 1    | 28             | 28               | 30    | 8     | 8                | -                           | 9.60                 | 36          |
| R5173.100-028-12-08 | m 1    | 28             | 28               | 30    | 12    | 8                | -                           | 14.40                | 56          |
| R5173.100-028-12-10 | m 1    | 28             | 28               | 30    | 12    | 10               | 3×1,4                       | 14.40                | 51          |
| R5173.100-028-12-12 | m 1    | 28             | 28               | 30    | 12    | 12               | 4×1,8                       | 14.40                | 47          |



# Spur Gears - Module 1

carbon steel - 8-10 teeth



**R5175**

STANDARD SPUR GEARS

## 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

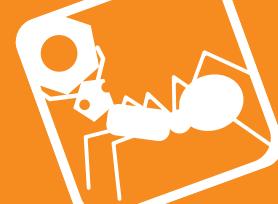
gears = 0,04 - 0,10mm.

## Tips

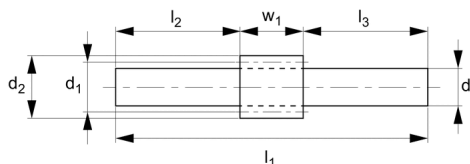
Module 1 for gears with 14-120 teeth see R5173 & R5179, for gears with 8-10 see R5176, for gears with 12-18 see R5177.  
Max. allowable torque (Nm) is based on

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. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H7 | $l_1$ | $l_2$ | $l_3$ | Torque<br>Nm<br>max. | Weight<br>g |
|--------------|--------|----------------|------------------|-------|-------|------------------|-------|-------|-------|----------------------|-------------|
| R5175.100-08 | m 1    | 8              | Shifted gear *   | 10.64 | 12    | 10.6             | 60    | 16    | 32    | 3.07                 | 39.5        |
| R5175.100-10 | m 1    | 10             | Shifted gear *   | 12.66 | 12    | 12.66            | 60    | 16    | 32    | 4.23                 | 56.4        |



### R5176



#### 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 = 0,04 - 0,10mm.

#### Tips

Module 1 for gears with 14-120 teeth see R5173 & R5179, for gears with 8-10 teeth see R175, for gears with 12-18 teeth see R5177.

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.

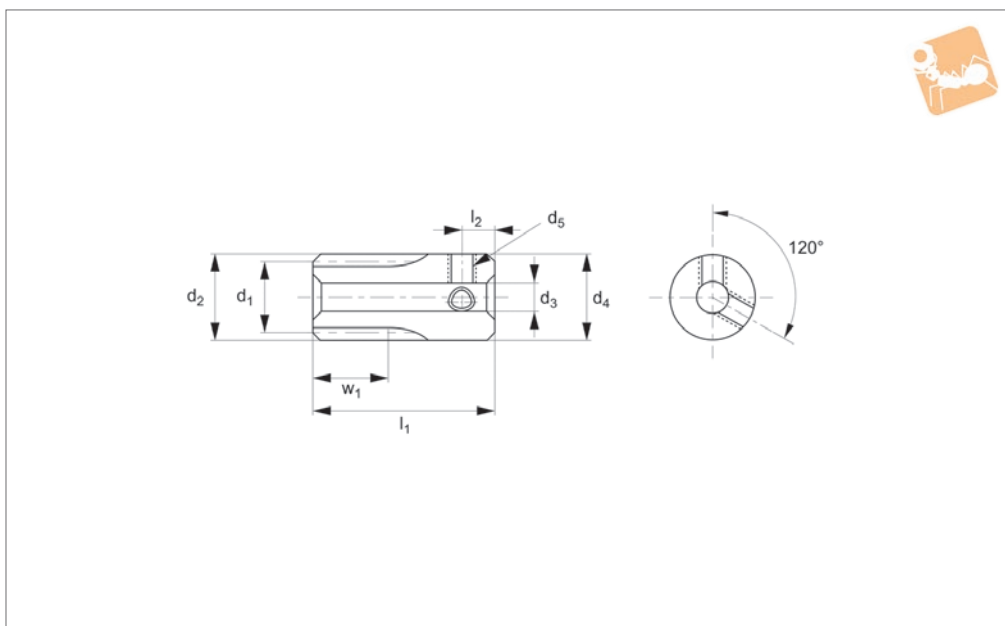
| Order No.     | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H7 | $l_1$ | $l_2$ | $l_3$ | Torque<br>Nm<br>max. | Weight<br>g |
|---------------|--------|----------------|------------------|-------|-------|------------------|-------|-------|-------|----------------------|-------------|
| R5176.100-008 | m 1    | 8              | Shifted Gear *   | 10.6  | 12    | 6                | 60    | 16    | 32    | 3.38                 | 16.7        |
| R5176.100-010 | m 1    | 10             | Shifted Gear *   | 12.7  | 12    | 6                | 60    | 16    | 32    | 5.07                 | 27.9        |



# Spur Gears - Module 1

carbon steel - 12-18 teeth

## Standard Spur Gears



**R5177**

STANDARD SPUR GEARS

### 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 = 0,04 - 0,10mm.

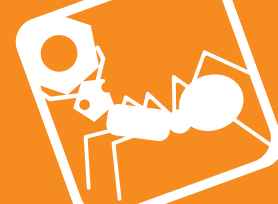
### Tips

Module 1 for gears with 14-120 teeth see R5173 & R5179, for gears with 8-10 teeth see R5175 & R5176.

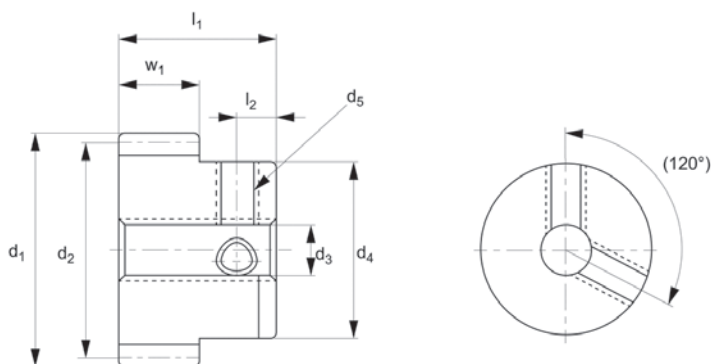
Max. allowable torque (Nm) is based on

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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H8 | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5177.100-012-12 | m 1    | 12             | 12                        | 14             | 12             | 6                         | 14             | 30             | 5              | 2xM 4                 | 3.89                 | 25.1        |
| R5177.100-013-12 | m 1    | 13             | 13                        | 15             | 12             | 6                         | 15             | 30             | 5              | 2xM 4                 | 4.47                 | 30.1        |
| R5177.100-014-08 | m 1    | 14             | 14                        | 16             | 8              | 6                         | 16             | 25             | 4              | 2xM 4                 | 3.38                 | 30.1        |
| R5177.100-014-12 | m 1    | 14             | 14                        | 16             | 12             | 6                         | 16             | 30             | 5              | 2xM 5                 | 5.07                 | 35.0        |
| R5177.100-015-08 | m 1    | 15             | 15                        | 17             | 8              | 6                         | 17             | 25             | 4              | 2xM 4                 | 3.79                 | 35.0        |
| R5177.100-015-12 | m 1    | 15             | 15                        | 17             | 12             | 6                         | 17             | 30             | 5              | 2xM 5                 | 5.10                 | 40.7        |
| R5177.100-016-06 | m 1    | 16             | 16                        | 18             | 8              | 6                         | 18             | 25             | 4              | 2xM 4                 | 4.21                 | 40.0        |
| R5177.100-016-08 | m 1    | 16             | 16                        | 18             | 8              | 8                         | 18             | 25             | 4              | 2xM 4                 | 4.21                 | 35.9        |
| R5177.100-016-12 | m 1    | 16             | 16                        | 18             | 12             | 8                         | 18             | 30             | 5              | 2xM 5                 | 6.31                 | 41.8        |
| R5177.100-017-08 | m 1    | 17             | 17                        | 19             | 8              | 8                         | 19             | 25             | 4              | 2xM 4                 | 4.63                 | 41.3        |
| R5177.100-017-12 | m 1    | 17             | 17                        | 19             | 12             | 8                         | 19             | 30             | 5              | 2xM 5                 | 6.94                 | 48.2        |
| R5177.100-018-08 | m 1    | 18             | 18                        | 20             | 8              | 8                         | 20             | 25             | 4              | 2xM 4                 | 5.06                 | 47.1        |
| R5177.100-018-12 | m 1    | 18             | 18                        | 20             | 12             | 8                         | 20             | 30             | 4              | 2xM 4                 | 7.58                 | 55.6        |



### R5179



#### Material

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

#### Technical Notes

20° pressure angle, full depth tooth.  
Amount of backlash when assembling

gears=0,04- 0,10 mm.

#### Tips

Module 1 for gears with 8-10 teeth see R5175 & R5176, for gears with 12-18 teeth see R5177, for gears with 14-120 teeth without screw see R5179. Max. allowable torque (Nm) is based on standard opera-

ting 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 <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H7 | Hub dia. d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|----------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|-------------------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5179.100-014-08-05  | m 1    | 14             | 14                        | 16             | 8              | 5 tol. H8                 | 11                      | 16             | -              | -                     | 3.38                 | 13          |
| R5179.100-014-10-05  | m 1    | 14             | 14                        | 16             | 10             | 5 tol. H8                 | 11                      | 20             | -              | -                     | 3.80                 | 17          |
| R5179.100-015-08-05  | m 1    | 15             | 15                        | 17             | 8              | 5 tol. H8                 | 12                      | 16             | -              | -                     | 3.79                 | 16          |
| R5179.100-015-10-05  | m 1    | 15             | 15                        | 17             | 10             | 5 tol. H8                 | 12                      | 20             | -              | -                     | 4.30                 | 20          |
| R5179.100-016-08-05  | m 1    | 16             | 16                        | 18             | 8              | 5 tol. H8                 | 13                      | 16             | -              | -                     | 4.21                 | 19          |
| R5179.100-016-10-05  | m 1    | 16             | 16                        | 18             | 10             | 5 tol. H8                 | 13                      | 20             | -              | -                     | 4.80                 | 22          |
| R5179.100-017-08-05  | m 1    | 17             | 17                        | 19             | 8              | 5 tol. H8                 | 14                      | 16             | -              | -                     | 4.63                 | 22          |
| R5179.100-017-10-05  | m 1    | 17             | 17                        | 19             | 10             | 5 tol. H8                 | 14                      | 20             | -              | -                     | 5.23                 | 27          |
| R5179.100-018-08-06  | m 1    | 18             | 18                        | 20             | 8              | 6                         | 14                      | 16             | 4              | 2xM 4                 | 5.06                 | 22          |
| R5179.100-018-10-06  | m 1    | 18             | 18                        | 20             | 10             | 6 tol. H8                 | 15                      | 20             | -              | -                     | 6.32                 | 30          |
| R5179.100-018-10-08  | m 1    | 18             | 18                        | 20             | 10             | 8                         | 15                      | 20             | 5              | 2xM 5                 | 6.62                 | 26          |
| R5179.100-019-08-06  | m 1    | 19             | 19                        | 21             | 8              | 6                         | 16                      | 16             | -              | -                     | 6.38                 | 26          |
| R5179.100-019-12-08  | m 1    | 19             | 19                        | 21             | 12             | 8                         | 16                      | 20             | -              | -                     | 9.57                 | 31          |
| R5179.100-020-08-06  | m 1    | 20             | 20                        | 22             | 8              | 6                         | 16                      | 16             | -              | -                     | 5.94                 | 29          |
| R5179.100-020-08-06T | m 1    | 20             | 20                        | 22             | 8              | 6                         | 16                      | 16             | 4              | 2xM 4                 | 5.94                 | 28          |
| R5179.100-020-08-08  | m 1    | 20             | 20                        | 22             | 8              | 8                         | 16                      | 16             | 4              | 2xM 4                 | 5.94                 | 26          |
| R5179.100-020-10-05  | m 1    | 20             | 20                        | 22             | 10             | 5 tol. H8                 | 16                      | 20             | -              | -                     | 7.47                 | 37          |
| R5179.100-020-10-06  | m 1    | 20             | 20                        | 22             | 10             | 6 tol. H8                 | 16                      | 20             | -              | -                     | 7.47                 | 37          |
| R5179.100-020-10-08  | m 1    | 20             | 20                        | 22             | 10             | 8                         | 16                      | 20             | 5              | 2xM 5                 | 7.47                 | 32          |
| R5179.100-020-12-06  | m 1    | 20             | 20                        | 22             | 12             | 6 tol. H8                 | 16                      | 20             | -              | -                     | 8.90                 | 38          |
| R5179.100-020-12-06T | m 1    | 20             | 20                        | 22             | 12             | 6 tol. H8                 | 16                      | 20             | 4              | 2xM 4                 | 8.90                 | 37          |
| R5179.100-020-12-08  | m 1    | 20             | 20                        | 22             | 12             | 8                         | 16                      | 20             | 4              | 2xM 4                 | 8.90                 | 34          |
| R5179.100-021-08-06  | m 1    | 21             | 21                        | 23             | 8              | 6                         | 18                      | 16             | -              | -                     | 6.38                 | 34          |
| R5179.100-021-12-08  | m 1    | 21             | 21                        | 23             | 12             | 8                         | 18                      | 20             | -              | -                     | 9.57                 | 49          |
| R5179.100-022-08-06  | m 1    | 22             | 22                        | 24             | 8              | 6                         | 18                      | 16             | -              | -                     | 6.83                 | 37          |
| R5179.100-022-12-08  | m 1    | 22             | 22                        | 24             | 12             | 8                         | 18                      | 20             | -              | -                     | 10.24                | 44          |
| R5179.100-023-08-06  | m 1    | 23             | 23                        | 25             | 8              | 6                         | 20                      | 16             | -              | -                     | 7.28                 | 43          |
| R5179.100-023-12-08  | m 1    | 23             | 23                        | 25             | 12             | 8                         | 20                      | 20             | -              | -                     | 10.93                | 51          |
| R5179.100-024-08-06  | m 1    | 24             | 24                        | 26             | 8              | 6                         | 16                      | 16             | -              | -                     | 7.74                 | 38          |



# Spur Gears - Module 1

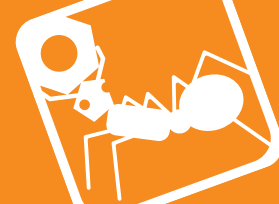
carbon steel - 14-120 teeth



Standard Spur  
Gears

| Order No.            | Module | No. of teeth z | Pitch dia. d <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H7 | Hub dia. d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|----------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|-------------------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5179.100-024-08-06T | m 1    | 24             | 24                        | 26             | 8              | 6                         | 16                      | 16             | 4              | 2xM 4                 | 7.74                 | 37          |
| R5179.100-024-08-08  | m 1    | 24             | 24                        | 26             | 8              | 8                         | 16                      | 16             | 4              | 2xM 4                 | 7.74                 | 35          |
| R5179.100-024-10-06  | m 1    | 24             | 24                        | 26             | 10             | 6 tol. H8                 | 20                      | 20             | -              | -                     | 9.67                 | 56          |
| R5179.100-024-10-08  | m 1    | 24             | 24                        | 26             | 10             | 8                         | 20                      | 20             | 5              | 2xM 5                 | 9.67                 | 51          |
| R5179.100-024-12-08  | m 1    | 24             | 24                        | 26             | 12             | 8                         | 20                      | 20             | -              | -                     | 11.61                | 55          |
| R5179.100-024-12-08T | m 1    | 24             | 24                        | 26             | 12             | 8                         | 20                      | 20             | 4              | 2xM 4                 | 11.61                | 54          |
| R5179.100-024-12-10  | m 1    | 24             | 24                        | 26             | 12             | 10                        | 20                      | 20             | 4              | 2xM 4                 | 11.61                | 49          |
| R5179.100-025-08-06  | m 1    | 25             | 25                        | 27             | 8              | 6                         | 16                      | 16             | -              | -                     | 8.20                 | 40          |
| R5179.100-025-08-06T | m 1    | 25             | 25                        | 27             | 8              | 6                         | 16                      | 16             | 4              | 2xM 4                 | 8.20                 | 40          |
| R5179.100-025-08-08  | m 1    | 25             | 25                        | 27             | 8              | 8                         | 16                      | 16             | 4              | 2xM 4                 | 8.20                 | 37          |
| R5179.100-025-10-05  | m 1    | 25             | 25                        | 27             | 10             | 5 tol. H8                 | 20                      | 20             | -              | -                     | 10.90                | 60          |
| R5179.100-025-10-06  | m 1    | 25             | 25                        | 27             | 10             | 6 tol. H8                 | 20                      | 20             | -              | -                     | 10.90                | 59          |
| R5179.100-025-10-08  | m 1    | 25             | 25                        | 27             | 10             | 8                         | 20                      | 20             | 5              | 2xM 5                 | 10.90                | 54          |
| R5179.100-025-12-08  | m 1    | 25             | 25                        | 27             | 12             | 8                         | 20                      | 20             | -              | -                     | 12.30                | 59          |
| R5179.100-025-12-08T | m 1    | 25             | 25                        | 27             | 12             | 8                         | 20                      | 20             | 4              | 2xM 4                 | 12.30                | 58          |
| R5179.100-025-12-10  | m 1    | 25             | 25                        | 27             | 12             | 10                        | 20                      | 20             | 4              | 2xM 4                 | 12.30                | 53          |
| R5179.100-026-08-06  | m 1    | 26             | 26                        | 28             | 8              | 6                         | 22                      | 16             | -              | -                     | 8.66                 | 54          |
| R5179.100-026-12-08  | m 1    | 26             | 26                        | 28             | 12             | 8                         | 22                      | 20             | -              | -                     | 12.99                | 66          |
| R5179.100-027-08-06  | m 1    | 27             | 27                        | 29             | 8              | 6                         | 24                      | 16             | -              | -                     | 9.13                 | 61          |
| R5179.100-027-12-08  | m 1    | 27             | 27                        | 29             | 12             | 8                         | 24                      | 20             | -              | -                     | 13.69                | 75          |
| R5179.100-028-08-06  | m 1    | 28             | 28                        | 30             | 8              | 6                         | 20                      | 16             | -              | -                     | 9.60                 | 55          |
| R5179.100-028-08-06T | m 1    | 28             | 28                        | 30             | 8              | 6                         | 20                      | 16             | 4              | 2xM 4                 | 9.60                 | 54          |
| R5179.100-028-08-08  | m 1    | 28             | 28                        | 30             | 8              | 8                         | 20                      | 16             | 4              | 2xM 4                 | 9.60                 | 52          |
| R5179.100-028-08-10  | m 1    | 28             | 28                        | 30             | 8              | 10                        | 20                      | 16             | 4              | 2xM 4                 | 9.60                 | 52          |
| R5179.100-028-10-08  | m 1    | 28             | 28                        | 30             | 10             | 8                         | 24                      | 20             | -              | -                     | 12.90                | 77          |
| R5179.100-028-10-10  | m 1    | 28             | 28                        | 30             | 10             | 10                        | 24                      | 20             | 5              | 2xM 5                 | 12.90                | 70          |
| R5179.100-028-12-10  | m 1    | 28             | 28                        | 30             | 12             | 10                        | 24                      | 20             | -              | -                     | 14.40                | 75          |
| R5179.100-028-12-10T | m 1    | 28             | 28                        | 30             | 12             | 10                        | 24                      | 20             | 4              | 2xM 4                 | 14.40                | 73          |
| R5179.100-028-12-12  | m 1    | 28             | 28                        | 30             | 12             | 12                        | 24                      | 20             | 4              | 2xM 4                 | 14.40                | 68          |
| R5179.100-030-08-06  | m1     | 30             | 30                        | 32             | 8              | 6                         | 24                      | 16             | -              | -                     | 10.54                | 70          |
| R5179.100-030-08-06T | m1     | 30             | 30                        | 32             | 8              | 6                         | 24                      | 16             | 4              | 2xM 4                 | 10.54                | 68          |
| R5179.100-030-08-08  | m1     | 30             | 30                        | 32             | 8              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 10.54                | 66          |
| R5179.100-030-08-10  | m1     | 30             | 30                        | 32             | 8              | 10                        | 24                      | 16             | 4              | 2xM 4                 | 10.54                | 62          |
| R5179.100-030-08-12  | m1     | 30             | 30                        | 32             | 8              | 12                        | 24                      | 16             | 4              | 2xM 4                 | 10.54                | 58          |
| R5179.100-030-10-06  | m1     | 30             | 30                        | 32             | 10             | 6 tol. H8                 | 25                      | 20             | -              | -                     | 13.19                | 90          |
| R5179.100-030-10-08  | m1     | 30             | 30                        | 32             | 10             | 8                         | 25                      | 20             | -              | -                     | 13.19                | 87          |
| R5179.100-030-10-10  | m1     | 30             | 30                        | 32             | 10             | 10                        | 25                      | 20             | 5              | 2xM 5                 | 13.19                | 80          |
| R5179.100-030-12-10  | m1     | 30             | 30                        | 32             | 12             | 10                        | 24                      | 20             | -              | -                     | 15.81                | 83          |
| R5179.100-030-12-10T | m1     | 30             | 30                        | 32             | 12             | 10                        | 24                      | 20             | 4              | 2xM 4                 | 15.81                | 81          |
| R5179.100-030-12-12  | m1     | 30             | 30                        | 32             | 12             | 12                        | 24                      | 20             | 4              | 2xM 4                 | 15.81                | 76          |
| R5179.100-032-06-06  | m1     | 32             | 32                        | 34             | 6              | 6                         | 24                      | 16             | -              | -                     | 8.62                 | 70          |
| R5179.100-032-06-06T | m1     | 32             | 32                        | 34             | 6              | 6                         | 24                      | 16             | 4              | 2xM 4                 | 8.62                 | 69          |
| R5179.100-032-06-08  | m1     | 32             | 32                        | 34             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 8.62                 | 66          |
| R5179.100-032-06-10  | m1     | 32             | 32                        | 34             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 8.62                 | 62          |
| R5179.100-032-06-12  | m1     | 32             | 32                        | 34             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 8.62                 | 58          |
| R5179.100-032-10-10  | m1     | 32             | 32                        | 34             | 10             | 10                        | 24                      | 20             | -              | -                     | 14.37                | 87          |
| R5179.100-032-10-10T | m1     | 32             | 32                        | 34             | 10             | 10                        | 24                      | 20             | 5              | 2xM 5                 | 14.37                | 85          |
| R5179.100-032-10-12  | m1     | 32             | 32                        | 34             | 10             | 12                        | 24                      | 20             | 5              | 2xM 5                 | 14.37                | 80          |
| R5179.100-034-06-06  | m1     | 34             | 34                        | 36             | 6              | 6                         | 28                      | 16             | -              | -                     | 9.34                 | 88          |
| R5179.100-034-10-10  | m1     | 34             | 34                        | 36             | 10             | 10                        | 28                      | 20             | -              | -                     | 15.57                | 108         |
| R5179.100-035-06-06  | m1     | 35             | 35                        | 37             | 6              | 6                         | 24                      | 16             | -              | -                     | 9.70                 | 78          |
| R5179.100-035-06-06T | m1     | 35             | 35                        | 37             | 6              | 6                         | 24                      | 16             | 4              | 2xM 4                 | 9.70                 | 76          |
| R5179.100-035-06-08  | m1     | 35             | 35                        | 37             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 9.70                 | 74          |
| R5179.100-035-06-10  | m1     | 35             | 35                        | 37             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 9.70                 | 70          |
| R5179.100-035-06-12  | m1     | 35             | 35                        | 37             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 9.70                 | 66          |
| R5179.100-035-10-10  | m1     | 35             | 35                        | 37             | 10             | 10                        | 30                      | 20             | -              | -                     | 16.17                | 119         |
| R5179.100-035-10-10T | m1     | 35             | 35                        | 37             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 16.17                | 117         |
| R5179.100-035-10-12  | m1     | 35             | 35                        | 37             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 16.17                | 111         |
| R5179.100-035-10-15  | m1     | 35             | 35                        | 37             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 16.17                | 102         |
| R5179.100-036-06-08  | m1     | 36             | 36                        | 38             | 6              | 8                         | 24                      | 16             | -              | -                     | 10.07                | 78          |
| R5179.100-036-06-08T | m1     | 36             | 36                        | 38             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 10.07                | 76          |
| R5179.100-036-06-10  | m1     | 36             | 36                        | 38             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 10.07                | 72          |
| R5179.100-036-06-12  | m1     | 36             | 36                        | 38             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 10.07                | 68          |
| R5179.100-036-10-10  | m1     | 36             | 36                        | 38             | 10             | 10                        | 30                      | 20             | -              | -                     | 16.78                | 124         |
| R5179.100-036-10-10T | m1     | 36             | 36                        | 38             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 16.78                | 121         |
| R5179.100-036-10-12  | m1     | 36             | 36                        | 38             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 16.78                | 116         |
| R5179.100-036-10-15  | m1     | 36             | 36                        | 38             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 16.78                | 106         |

STANDARD SPUR GEARS



| Order No.            | Module | No. of teeth z | Pitch dia. d <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H7 | Hub dia. d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|----------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|-------------------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5179.100-038-06-08  | m1     | 38             | 38                        | 40             | 6              | 8                         | 25                      | 16             | -              | -                     | 10.80                | 86          |
| R5179.100-038-10-10  | m1     | 38             | 38                        | 40             | 10             | 10                        | 30                      | 20             | -              | -                     | 18.00                | 133         |
| R5179.100-040-06-08  | m1     | 40             | 40                        | 42             | 6              | 8                         | 24                      | 16             | -              | -                     | 11.53                | 89          |
| R5179.100-040-06-08T | m1     | 40             | 40                        | 42             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 11.53                | 88          |
| R5179.100-040-06-10  | m1     | 40             | 40                        | 42             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 11.53                | 84          |
| R5179.100-040-06-12  | m1     | 40             | 40                        | 42             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 11.53                | 79          |
| R5179.100-040-10-06  | m1     | 40             | 40                        | 42             | 10             | 6 tol. H8                 | 30                      | 20             | -              | -                     | 19.18                | 150         |
| R5179.100-040-10-10  | m1     | 40             | 40                        | 42             | 10             | 10                        | 30                      | 20             | -              | -                     | 19.18                | 142         |
| R5179.100-040-10-10T | m1     | 40             | 40                        | 42             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 19.18                | 140         |
| R5179.100-040-10-12  | m1     | 40             | 40                        | 42             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 19.18                | 135         |
| R5179.100-040-10-15  | m1     | 40             | 40                        | 42             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 19.18                | 125         |
| R5179.100-042-06-08  | m1     | 42             | 42                        | 44             | 6              | 8                         | 28                      | 16             | -              | -                     | 12.27                | 108         |
| R5179.100-042-10-10  | m1     | 42             | 42                        | 44             | 10             | 10                        | 30                      | 20             | -              | -                     | 20.45                | 152         |
| R5179.100-044-06-08  | m1     | 44             | 44                        | 46             | 6              | 8                         | 28                      | 16             | -              | -                     | 13.01                | 114         |
| R5179.100-044-10-10  | m1     | 44             | 44                        | 46             | 10             | 10                        | 30                      | 20             | -              | -                     | 21.68                | 163         |
| R5179.100-045-06-08  | m1     | 45             | 45                        | 47             | 6              | 8                         | 24                      | 16             | -              | -                     | 13.38                | 105         |
| R5179.100-045-06-08T | m1     | 45             | 45                        | 47             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 13.38                | 103         |
| R5179.100-045-06-10  | m1     | 45             | 45                        | 47             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 13.38                | 99          |
| R5179.100-045-06-12  | m1     | 45             | 45                        | 47             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 13.38                | 95          |
| R5179.100-045-10-10  | m1     | 45             | 45                        | 47             | 10             | 10                        | 30                      | 20             | -              | -                     | 22.30                | 168         |
| R5179.100-045-10-10T | m1     | 45             | 45                        | 47             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 22.30                | 166         |
| R5179.100-045-10-12  | m1     | 45             | 45                        | 47             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 22.30                | 161         |
| R5179.100-045-10-15  | m1     | 45             | 45                        | 47             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 22.30                | 151         |
| R5179.100-046-06-08  | m1     | 46             | 46                        | 48             | 6              | 8                         | 30                      | 16             | -              | -                     | 13.75                | 128         |
| R5179.100-046-10-10  | m1     | 46             | 46                        | 48             | 10             | 10                        | 30                      | 20             | -              | -                     | 22.92                | 174         |
| R5179.100-048-06-08  | m1     | 48             | 48                        | 50             | 6              | 8                         | 24                      | 16             | -              | -                     | 15.18                | 115         |
| R5179.100-048-06-08T | m1     | 48             | 48                        | 50             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 15.18                | 114         |
| R5179.100-048-06-10  | m1     | 48             | 48                        | 50             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 15.18                | 110         |
| R5179.100-048-06-12  | m1     | 48             | 48                        | 50             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 15.18                | 105         |
| R5179.100-048-10-10  | m1     | 48             | 48                        | 50             | 10             | 10                        | 30                      | 20             | -              | -                     | 23.87                | 186         |
| R5179.100-048-10-10T | m1     | 48             | 48                        | 50             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 23.87                | 183         |
| R5179.100-048-10-12  | m1     | 48             | 48                        | 50             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 23.87                | 178         |
| R5179.100-048-10-15  | m1     | 48             | 48                        | 50             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 23.87                | 168         |
| R5179.100-050-06-08  | m 1    | 50             | 50                        | 52             | 6              | 8                         | 24                      | 16             | -              | -                     | 14.32                | 122         |
| R5179.100-050-06-08T | m 1    | 50             | 50                        | 52             | 6              | 8                         | 24                      | 16             | 4              | 2xM 4                 | 14.32                | 121         |
| R5179.100-050-06-10  | m 1    | 50             | 50                        | 52             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 14.32                | 117         |
| R5179.100-050-06-12  | m 1    | 50             | 50                        | 52             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 14.32                | 113         |
| R5179.100-050-10-08  | m 1    | 50             | 50                        | 52             | 10             | 8                         | 35                      | 20             | -              | -                     | 24.83                | 221         |
| R5179.100-050-10-10  | m 1    | 50             | 50                        | 52             | 10             | 10                        | 30                      | 20             | -              | -                     | 24.83                | 198         |
| R5179.100-050-10-10T | m 1    | 50             | 50                        | 52             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 24.83                | 195         |
| R5179.100-050-10-12  | m 1    | 50             | 50                        | 52             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 24.83                | 190         |
| R5179.100-050-10-15  | m 1    | 50             | 50                        | 52             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 24.83                | 180         |
| R5179.100-052-06-10  | m 1    | 52             | 52                        | 54             | 6              | 10                        | 40                      | 16             | -              | -                     | 15.28                | 189         |
| R5179.100-052-10-10  | m 1    | 52             | 52                        | 54             | 10             | 10                        | 46                      | 20             | -              | -                     | 25.78                | 285         |
| R5179.100-054-06-10  | m 1    | 54             | 54                        | 56             | 6              | 10                        | 40                      | 16             | -              | -                     | 16.23                | 197         |
| R5179.100-054-10-10  | m 1    | 54             | 54                        | 56             | 10             | 10                        | 46                      | 20             | -              | -                     | 27.69                | 298         |
| R5179.100-055-06-10  | m 1    | 55             | 55                        | 57             | 6              | 10                        | 40                      | 16             | -              | -                     | 16.23                | 201         |
| R5179.100-055-10-10  | m 1    | 55             | 55                        | 57             | 10             | 10                        | 46                      | 20             | -              | -                     | 27.69                | 305         |
| R5179.100-056-06-10  | m 1    | 56             | 56                        | 58             | 6              | 10                        | 24                      | 16             | -              | -                     | 17.19                | 142         |
| R5179.100-056-06-10T | m 1    | 56             | 56                        | 58             | 6              | 10                        | 24                      | 16             | 5              | 2xM 5                 | 17.19                | 140         |
| R5179.100-056-06-12  | m 1    | 56             | 56                        | 58             | 6              | 12                        | 24                      | 16             | 5              | 2xM 5                 | 17.19                | 136         |
| R5179.100-056-10-10  | m 1    | 56             | 56                        | 58             | 10             | 10                        | 30                      | 20             | -              | -                     | 28.65                | 237         |
| R5179.100-056-10-10T | m 1    | 56             | 56                        | 58             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 28.65                | 234         |
| R5179.100-056-10-12  | m 1    | 56             | 56                        | 58             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 28.65                | 229         |
| R5179.100-056-10-15  | m 1    | 56             | 56                        | 58             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 28.65                | 220         |
| R5179.100-058-06-10  | m 1    | 58             | 58                        | 60             | 6              | 10                        | 40                      | 16             | -              | -                     | 18.14                | 214         |
| R5179.100-058-10-10  | m 1    | 58             | 58                        | 60             | 10             | 10                        | 50                      | 20             | -              | -                     | 29.60                | 362         |
| R5179.100-060-06-10  | m 1    | 60             | 60                        | 62             | 6              | 10                        | 30                      | 16             | -              | -                     | 18.14                | 179         |
| R5179.100-060-06-10T | m 1    | 60             | 60                        | 62             | 6              | 10                        | 30                      | 16             | 5              | 2xM 5                 | 18.14                | 177         |
| R5179.100-060-06-12  | m 1    | 60             | 60                        | 62             | 6              | 12                        | 30                      | 16             | 5              | 2xM 5                 | 18.14                | 173         |
| R5179.100-060-06-15  | m 1    | 60             | 60                        | 62             | 6              | 15                        | 30                      | 16             | 5              | 2xM 5                 | 18.14                | 165         |
| R5179.100-060-10-08  | m 1    | 60             | 60                        | 62             | 10             | 8                         | 42                      | 20             | -              | -                     | 31.51                | 322         |
| R5179.100-060-10-10  | m 1    | 60             | 60                        | 62             | 10             | 10                        | 30                      | 20             | -              | -                     | 31.51                | 266         |
| R5179.100-060-10-10T | m 1    | 60             | 60                        | 62             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 31.51                | 263         |
| R5179.100-060-10-12  | m 1    | 60             | 60                        | 62             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 31.51                | 258         |
| R5179.100-060-10-15  | m 1    | 60             | 60                        | 62             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 31.51                | 248         |
| R5179.100-062-06-10  | m 1    | 62             | 62                        | 64             | 6              | 10                        | 40                      | 16             | -              | -                     | 19.10                | 231         |



# Spur Gears - Module 1

carbon steel - 14-120 teeth



Standard Spur  
Gears

| Order No.            | Module | No. of teeth z | Pitch dia. d <sub>1</sub> | d <sub>2</sub> | w <sub>1</sub> | d <sub>3</sub><br>tol. H7 | Hub dia. d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | Thread d <sub>5</sub> | Torque<br>Nm<br>max. | Weight<br>g |
|----------------------|--------|----------------|---------------------------|----------------|----------------|---------------------------|-------------------------|----------------|----------------|-----------------------|----------------------|-------------|
| R5179.100-062-10-10  | m 1    | 62             | 62                        | 64             | 10             | 10                        | 50                      | 20             | -              | -                     | 32.47                | 379         |
| R5179.100-064-06-10  | m 1    | 64             | 64                        | 66             | 6              | 10                        | 30                      | 16             | -              | -                     | 20.05                | 178         |
| R5179.100-064-06-10T | m 1    | 64             | 64                        | 66             | 6              | 10                        | 30                      | 16             | 5              | 2xM 5                 | 20.05                | 176         |
| R5179.100-064-06-12  | m 1    | 64             | 64                        | 66             | 6              | 12                        | 30                      | 16             | 5              | 2xM 5                 | 20.05                | 172         |
| R5179.100-064-10-10  | m 1    | 64             | 64                        | 66             | 10             | 10                        | 30                      | 20             | -              | -                     | 33.42                | 296         |
| R5179.100-064-10-10T | m 1    | 64             | 64                        | 66             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 33.42                | 294         |
| R5179.100-064-10-12  | m 1    | 64             | 64                        | 66             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 33.42                | 289         |
| R5179.100-064-10-15  | m 1    | 64             | 64                        | 66             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 33.42                | 279         |
| R5179.100-065-06-10  | m 1    | 65             | 65                        | 67             | 6              | 10                        | 40                      | 16             | -              | -                     | 20.05                | 246         |
| R5179.100-065-10-10  | m 1    | 65             | 65                        | 67             | 10             | 10                        | 50                      | 20             | -              | -                     | 34.38                | 403         |
| R5179.100-066-06-10  | m 1    | 66             | 66                        | 68             | 6              | 10                        | 40                      | 16             | -              | -                     | 21.01                | 250         |
| R5179.100-066-10-10  | m 1    | 66             | 66                        | 68             | 10             | 10                        | 50                      | 20             | -              | -                     | 35.33                | 411         |
| R5179.100-068-06-10  | m 1    | 68             | 68                        | 70             | 6              | 10                        | 40                      | 16             | -              | -                     | 21.96                | 260         |
| R5179.100-068-10-10  | m 1    | 68             | 68                        | 70             | 10             | 10                        | 50                      | 20             | -              | -                     | 36.29                | 427         |
| R5179.100-070-06-10  | m 1    | 70             | 70                        | 72             | 6              | 10                        | 40                      | 16             | -              | -                     | 21.96                | 270         |
| R5179.100-070-10-10  | m 1    | 70             | 70                        | 72             | 10             | 10                        | 50                      | 20             | -              | -                     | 38.20                | 443         |
| R5179.100-070-10-10D | m 1    | 70             | 70                        | 72             | 10             | 10                        | 55                      | 20             | -              | -                     | 38.20                | 443         |
| R5179.100-072-06-10  | m 1    | 72             | 72                        | 74             | 6              | 10                        | 30                      | 16             | -              | -                     | 22.92                | 218         |
| R5179.100-072-06-10T | m 1    | 72             | 72                        | 74             | 6              | 10                        | 30                      | 16             | 5              | 2xM 5                 | 22.92                | 216         |
| R5179.100-072-06-12T | m 1    | 72             | 72                        | 74             | 6              | 12                        | 30                      | 16             | 5              | 2xM 5                 | 22.92                | 212         |
| R5179.100-072-10-10  | m 1    | 72             | 72                        | 74             | 10             | 10                        | 30                      | 20             | -              | -                     | 39.15                | 363         |
| R5179.100-072-10-10T | m 1    | 72             | 72                        | 74             | 10             | 10                        | 30                      | 20             | 5              | 2xM 5                 | 39.15                | 361         |
| R5179.100-072-10-12T | m 1    | 72             | 72                        | 74             | 10             | 12                        | 30                      | 20             | 5              | 2xM 5                 | 39.15                | 356         |
| R5179.100-072-10-15T | m 1    | 72             | 72                        | 74             | 10             | 15                        | 30                      | 20             | 5              | 2xM 5                 | 39.15                | 346         |
| R5179.100-075-06-10  | m 1    | 75             | 75                        | 77             | 6              | 10                        | 40                      | 16             | -              | -                     | 23.87                | 297         |
| R5179.100-075-10-10  | m 1    | 75             | 75                        | 77             | 10             | 10                        | 50                      | 20             | -              | -                     | 41.06                | 489         |
| R5179.100-080-06-10  | m 1    | 80             | 80                        | 82             | 6              | 10                        | 30                      | 16             | -              | -                     | 25.78                | 283         |
| R5179.100-080-06-10T | m 1    | 80             | 80                        | 82             | 6              | 10                        | 30                      | 16             | 5              | 2xM 5                 | 25.78                | 280         |
| R5179.100-080-06-12T | m 1    | 80             | 80                        | 82             | 6              | 12                        | 30                      | 16             | 5              | 2xM 5                 | 25.78                | 276         |
| R5179.100-080-06-15T | m 1    | 80             | 80                        | 82             | 6              | 15                        | 30                      | 16             | 5              | 2xM 5                 | 25.78                | 269         |
| R5179.100-080-10-10D | m 1    | 80             | 80                        | 82             | 10             | 10                        | 60                      | 20             | -              | -                     | 43.93                | 604         |
| R5179.100-080-10-10  | m 1    | 80             | 80                        | 82             | 10             | 10                        | 32                      | 20             | -              | -                     | 17.19                | 446         |
| R5179.100-080-10-10T | m 1    | 80             | 80                        | 82             | 10             | 10                        | 32                      | 20             | 5              | 2xM 5                 | 17.19                | 443         |
| R5179.100-080-10-12T | m 1    | 80             | 80                        | 82             | 10             | 12                        | 32                      | 20             | 5              | 2xM 5                 | 17.19                | 438         |
| R5179.100-080-10-15T | m 1    | 80             | 80                        | 82             | 10             | 15                        | 32                      | 20             | 5              | 2xM 5                 | 17.19                | 428         |
| R5179.100-080-10-16T | m 1    | 80             | 80                        | 82             | 10             | 16                        | 32                      | 20             | 5              | 2xM 5                 | 17.19                | 425         |
| R5179.100-084-06-10  | m 1    | 84             | 84                        | 86             | 6              | 10                        | 50                      | 16             | -              | -                     | 27.69                | 406         |
| R5179.100-084-10-10  | m 1    | 84             | 84                        | 86             | 10             | 10                        | 50                      | 20             | -              | -                     | 46.79                | 577         |
| R5179.100-085-06-10  | m 1    | 85             | 85                        | 87             | 6              | 10                        | 50                      | 16             | -              | -                     | 27.69                | 412         |
| R5179.100-085-10-10  | m 1    | 85             | 85                        | 87             | 10             | 10                        | 50                      | 20             | -              | -                     | 46.79                | 588         |
| R5179.100-090-06-10  | m 1    | 90             | 90                        | 92             | 6              | 10                        | 50                      | 16             | -              | -                     | 29.60                | 444         |
| R5179.100-090-10-10  | m 1    | 90             | 90                        | 92             | 10             | 10                        | 50                      | 20             | -              | -                     | 50.61                | 642         |
| R5179.100-090-10-10D | m 1    | 90             | 90                        | 92             | 10             | 10                        | 65                      | 20             | -              | -                     | 50.61                | 747         |
| R5179.100-096-06-10  | m 1    | 96             | 96                        | 98             | 6              | 10                        | 50                      | 16             | -              | -                     | 32.47                | 486         |
| R5179.100-096-10-10  | m 1    | 96             | 96                        | 98             | 10             | 10                        | 50                      | 20             | -              | -                     | 54.43                | 710         |
| R5179.100-100-06-10  | m 1    | 100            | 100                       | 102            | 6              | 10                        | 30                      | 16             | -              | -                     | 34.38                | 416         |
| R5179.100-100-06-10T | m 1    | 100            | 100                       | 102            | 6              | 10                        | 30                      | 16             | 5              | 2xM 5                 | 34.38                | 414         |
| R5179.100-100-06-12T | m 1    | 100            | 100                       | 102            | 6              | 12                        | 30                      | 16             | 5              | 2xM 5                 | 34.38                | 410         |
| R5179.100-100-06-15T | m 1    | 100            | 100                       | 102            | 6              | 15                        | 30                      | 16             | 5              | 2xM 5                 | 34.38                | 402         |
| R5179.100-100-10-10D | m 1    | 100            | 100                       | 102            | 10             | 10                        | 70                      | 20             | -              | -                     | 57.30                | 905         |
| R5179.100-100-10-12  | m 1    | 100            | 100                       | 102            | 10             | 12                        | 36                      | 20             | -              | -                     | 57.30                | 680         |
| R5179.100-100-10-12T | m 1    | 100            | 100                       | 102            | 10             | 12                        | 36                      | 20             | 5              | 2xM 5                 | 57.30                | 676         |
| R5179.100-100-10-15T | m 1    | 100            | 100                       | 102            | 10             | 15                        | 36                      | 20             | 5              | 2xM 5                 | 57.30                | 667         |
| R5179.100-100-10-16T | m 1    | 100            | 100                       | 102            | 10             | 16                        | 36                      | 20             | 5              | 2xM 5                 | 57.30                | 663         |
| R5179.100-105-06-10  | m 1    | 105            | 105                       | 107            | 6              | 10                        | 50                      | 16             | -              | -                     | 36.29                | 553         |
| R5179.100-105-10-12  | m 1    | 105            | 105                       | 107            | 10             | 12                        | 50                      | 20             | -              | -                     | 60.16                | 817         |
| R5179.100-110-06-10  | m 1    | 110            | 110                       | 112            | 6              | 10                        | 50                      | 16             | -              | -                     | 38.20                | 592         |
| R5179.100-110-10-12  | m 1    | 110            | 110                       | 112            | 10             | 12                        | 50                      | 20             | -              | -                     | 63.03                | 883         |
| R5179.100-115-06-10  | m 1    | 115            | 115                       | 117            | 6              | 10                        | 50                      | 16             | -              | -                     | 40.11                | 634         |
| R5179.100-115-10-12  | m 1    | 115            | 115                       | 117            | 10             | 12                        | 50                      | 20             | -              | -                     | 66.85                | 952         |
| R5179.100-120-06-10  | m 1    | 120            | 120                       | 122            | 6              | 10                        | 30                      | 16             | -              | -                     | 42.02                | 579         |
| R5179.100-120-06-10T | m 1    | 120            | 120                       | 122            | 6              | 10                        | 30                      | 16             | 5              | 2xM 5                 | 42.02                | 577         |
| R5179.100-120-06-12T | m 1    | 120            | 120                       | 122            | 6              | 12                        | 30                      | 16             | 5              | 2xM 5                 | 42.02                | 572         |
| R5179.100-120-06-15T | m 1    | 120            | 120                       | 122            | 6              | 15                        | 30                      | 16             | 5              | 2xM 5                 | 42.02                | 565         |
| R5179.100-120-10-10D | m 1    | 120            | 120                       | 122            | 10             | 10                        | 90                      | 20             | -              | -                     | 69.71                | 1374        |
| R5179.100-120-10-12  | m 1    | 120            | 120                       | 122            | 10             | 12                        | 36                      | 20             | -              | -                     | 69.71                | 951         |
| R5179.100-120-10-12T | m 1    | 120            | 120                       | 122            | 10             | 12                        | 36                      | 20             | 5              | 2xM 5                 | 69.71                | 948         |

STANDARD SPUR GEARS



| Order No.                   | Module | No. of teeth z | Pitch dia. $d_1$ | $d_2$ | $w_1$ | $d_3$<br>tol. H7 | Hub dia. $d_4$ | $l_1$ | $l_2$ | Thread $d_5$ | Torque<br>Nm<br>max. | Weight<br>g |
|-----------------------------|--------|----------------|------------------|-------|-------|------------------|----------------|-------|-------|--------------|----------------------|-------------|
| <b>R5179.100-120-10-15T</b> | m 1    | 120            | 120              | 122   | 10    | 15               | 36             | 20    | 5     | 2xM 5        | 69.71                | 938         |
| <b>R5179.100-120-10-16T</b> | m 1    | 120            | 120              | 122   | 10    | 16               | 36             | 20    | 5     | 2xM 5        | 69.71                | 935         |
| <b>R5179.100-120-10-18T</b> | m 1    | 120            | 120              | 122   | 10    | 18               | 36             | 20    | 5     | 2xM 5        | 69.71                | 926         |