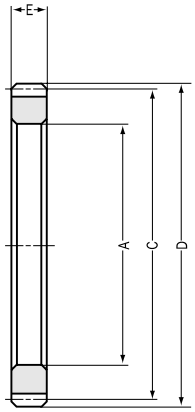
# SSR Steel Ring Gears (Spur Gears) Modules 2~3




S5 Shape

## Specifications

| | |
|---|---|
| Precision grade | JIS N9 grade (JIS B1702-1: 1998)<br>OLD JIS 5 grade (JIS B1702: 1976) |
| Gear teeth | Standard full depth |
| Pressure angle | 20° |
| Material | S45C |
| Heat treatment | — |
| Tooth hardness | Less than 194HB |
| Surface treatment | — |
| Tooth surface finish | Cut |
| Datum reference surface for gear cutting | Bore |
| Secondary Operations | Possible |

## ■ Module 2

| Catalog No. | Module | No. of teeth | Bore NOTE 1 | Pitch dia. | Outside dia. | Face width | Shape | Allowable torque (N·m) NOTE 2 | | Allowable torque (kgf-m) | | Backlash (mm) NOTE 3 | Weight (kgf) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Bending strength | Surface durability | Bending strength | Surface durability | | |
| | m | Z | AH8 | C | D | E | | | | | | | |
| SSR2-120 | 2 | 120 | 194 | 240 | 244 | 20 | S5 | 366.3 | 44.02 | (37.35) | (4.489) | 0.22 ~ 0.44 | 2.5 |
| SSR2-200 | 2 | 200 | 354 | 400 | 404 | 20 | S5 | 630.3 | 84.23 | (64.27) | (8.589) | 0.26 ~ 0.52 | 4.3 |

## ■ Module 2.5

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SSR2.5-120 | 2.5 | 120 | 245 | 300 | 305 | 25 | S5 | 715.3 | 88.46 | ( 72.94) | ( 9.021) | 0.24 ~ 0.48 | 4.6 |
| SSR2.5-200 | 2.5 | 200 | 445 | 500 | 505 | 25 | S5 | 1231 | 169 | (125.5 ) | (17.23 ) | 0.28 ~ 0.58 | 8.0 |

## ■ Module 3

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SSR3-120 | 3 | 120 | 296 | 360 | 366 | 30 | S5 | 1236 | 156.5 | (126 ) | (15.96) | 0.26 ~ 0.52 | 7.8 |
| SSR3-160 | 3 | 160 | 416 | 480 | 486 | 30 | S5 | 1681 | 225.9 | (171.4) | (23.04) | 0.3 ~ 0.64 | 10.6 |

***NOTE 1:*** Although the inside diameter of these gears are made to H8 tolerance, since the ring shape is easily deformed, some error may occur beyond the stated tolerance.

***NOTE 2:*** The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 27 for more details.

***NOTE 3:*** The backlash values shown in the table are the theoretical values of a pair of identical gears in mesh.