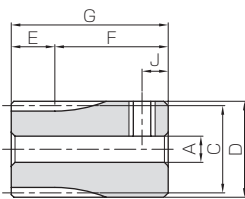




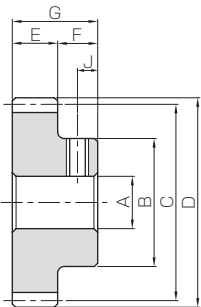
| Specifications  |                                 |
|-----------------|---------------------------------|
| Precision grade | JIS grade N8 (JIS B1702-1:1998) |
| Gear teeth      | Standard full depth             |
| Pressure angle  | 20°                             |
| Material        | Free cutting brass (C3604)      |
| Heat Treatment  | —                               |
| Tooth hardness  | (80HV or more)                  |



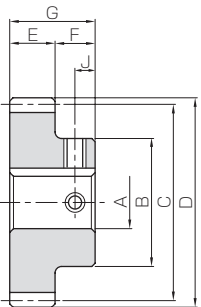
S3T

| Catalog Number                   | Module | No. of teeth | Shape      | Bore            | Hub dia. | Pitch dia. | Outside dia. | Face width | Hub width | Total Length | Keyway        |
|----------------------------------|--------|--------------|------------|-----------------|----------|------------|--------------|------------|-----------|--------------|---------------|
|                                  |        |              |            | A <sub>H7</sub> | B        | C          | D            | E          | F         | G            | Width × Depth |
| BSS0.8-30<br>BSS0.8-30A          | m0.8   | 30           | S1<br>S1T  | 5<br>4          | 20       | 24         | 25.6         | 4          | 8         | 12           | —             |
| BSS0.8-40                        |        | 40           | S1         | 5               | 20       | 32         | 33.6         |            |           |              |               |
| BSS0.8-50A                       |        | 50           | S1T        | 5               | 28       | 40         | 41.6         |            |           |              |               |
| BSS0.8-60B                       |        | 60           |            | 6               | 28       | 48         | 49.6         |            |           |              |               |
| BSS1-15A<br>BSS1-15B             | m1     | 15           | S3T        | 4<br>5          | 17       | 15         | 17           | 6          | 15        | 21           | —             |
| BSS1-16A<br>BSS1-16B             |        | 16           | S1T        | 4<br>5          | 12       | 16         | 18           |            | 8         | 14           |               |
| BSS1-18B                         |        | 18           |            | 6               | 15       | 18         | 20           |            |           |              |               |
| BSS1-20A<br>BSS1-20B<br>BSS1-20C |        | 20           |            | 4<br>5<br>6     | 16       | 20         | 22           |            |           |              |               |
| BSS1-22A                         |        | 22           |            | 6               | 18       | 22         | 24           |            |           |              |               |
| BSS1-24B                         |        | 24           |            | 6               | 20       | 24         | 26           |            |           |              |               |
| BSS1-25A                         |        | 25           |            | 5               | 22       | 25         | 27           |            |           |              |               |
| BSS1-28A                         |        | 28           |            | 6               | 25       | 28         | 30           |            |           |              |               |
| BSS1-30B<br>BSS1-30D             |        | 30           | S1T<br>S1K | 6<br>10         | 25       | 30         | 32           |            |           |              | —<br>4 x 1.8  |
| BSS1-40A                         |        | 40           | S1T        | 6               | 28       | 40         | 42           |            |           |              | —             |
| BSS1-50A<br>BSS1-50C             |        | 50           | S1T<br>S1K | 6<br>10         | 28       | 50         | 52           |            |           |              | —<br>4 x 1.8  |

- [Caution on Product Characteristics]
- ① For products having a tapped hole, a set screw is included.
  - ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
  - ③ The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
  - ④ If the bore diameter is less than  $\phi 4$ , the bore tolerance class is H8. If the bore diameter is  $\phi 5$  or  $\phi 6$ , and the hole length (total length) exceeds 3 times the diameter, then the class is also H8.



S1T



S1K

| Socket head screw | Allowable torque (N·m) | Allowable torque (kgf·m) | Backlash (mm) | Weight (kg)             | Catalog Number                   |
|-------------------|------------------------|--------------------------|---------------|-------------------------|----------------------------------|
| Size              | J                      | Bending strength         |               |                         |                                  |
| —<br>M3           | —<br>4                 | 0.55<br>0.79             | 0~0.10        | 0.034<br>0.035          | BSS0.8-30<br>BSS0.8-30A          |
| —                 | —                      | 0.081                    |               | 0.046                   | BSS0.8-40                        |
| M4                | 4                      | 1.05<br>1.31             |               | 0.081<br>0.099          | BSS0.8-50A<br>BSS0.8-60B         |
|                   |                        | 0.13                     |               |                         |                                  |
| M3<br>M4          | 4                      | 0.47                     | 0.08~0.18     | 0.035<br>0.034          | BSS1-15A<br>BSS1-15B             |
| M3<br>M4          |                        | 0.52                     |               | 0.016<br>0.015          | BSS1-16A<br>BSS1-16B             |
| M4                |                        | 0.62                     |               | 0.021                   | BSS1-18B                         |
| M3<br>M4<br>M4    |                        | 0.73                     |               | 0.028<br>0.027<br>0.026 | BSS1-20A<br>BSS1-20B<br>BSS1-20C |
| M4                |                        | 0.83                     |               | 0.033                   | BSS1-22A                         |
| M4                |                        | 0.94                     |               | 0.040                   | BSS1-24B                         |
| M4                |                        | 1.00                     |               | 0.047                   | BSS1-25A                         |
| M4                |                        | 1.17                     |               | 0.060                   | BSS1-28A                         |
| M4<br>M4          |                        | 1.28                     |               | 0.065<br>0.058          | BSS1-30B<br>BSS1-30D             |
| M4                |                        | 1.86                     |               | 0.10                    | BSS1-40A                         |
| M4<br>M4          |                        | 2.46                     |               | 0.14<br>0.13            | BSS1-50A<br>BSS1-50C             |

- [Caution on Secondary Operations]
- ① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK system for quick modification of KHK stock gears, is also available.
  - ② Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.
  - ③ When using a product with secondary operations applied, please be careful of runout and deformation as the tooth width is thin.