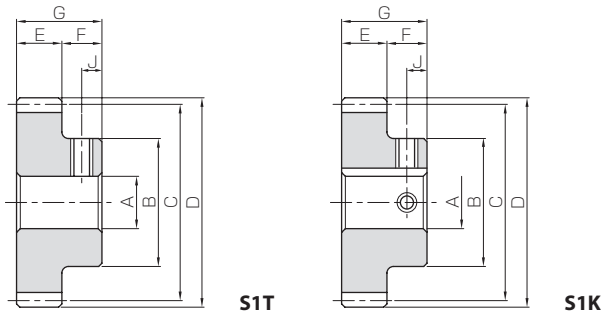
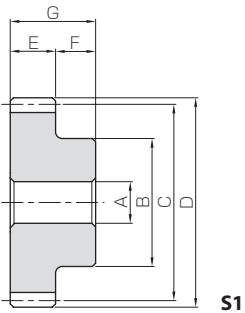




| Specifications    |                                   |
|-------------------|-----------------------------------|
| Precision grade   | JIS grade N8 (JIS B1702-1: 1998)* |
| Gear teeth        | Standard full depth               |
| Pressure angle    | 20°                               |
| Material          | S45C                              |
| Heat Treatment    | —                                 |
| Tooth hardness    | (less than 194HB)                 |
| Surface treatment | Black oxide coating               |

\* The precision grade of products with a module of less than 0.8 is equivalent to the value shown in the table.



| 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     |
| SSY0.8-20<br>SSY0.8-20A         | m0.8   | 20           | S1<br>S1T        | 5               | 13.5     | 16         | 17.6         | 4          | 8         | 12           | —                 |
| SSY0.8-25<br>SSY0.8-25A         |        | 25           | S1<br>S1T        | 5               | 17       | 20         | 21.6         |            |           |              |                   |
| SSY0.8-30<br>SSY0.8-30A         |        | 30           | S1<br>S1T        | 5               | 20       | 24         | 25.6         |            |           |              |                   |
| SSY0.8-40<br>SSY0.8-40A         |        | 40           | S1<br>S1T        | 5<br>6          | 25       | 32         | 33.6         |            |           |              |                   |
| SSY0.8-50<br>SSY0.8-50A         |        | 50           | S1<br>S1T        | 5<br>6          | 25       | 40         | 41.6         |            |           |              |                   |
| SSY1-12<br>SSY1-12A             | m1     | 12           | S1<br>S1T        | 5               | 9        | 12         | 14           | 6          | 8         | 14           | —                 |
| SSY1-14<br>SSY1-14A             |        | 14           | S1<br>S1T        | 5               | 11       | 14         | 16           |            |           |              |                   |
| SSY1-15<br>SSY1-15A             |        | 15           | S1<br>S1T        | 6               | 12       | 15         | 17           |            |           |              |                   |
| SSY1-16<br>SSY1-16A             |        | 16           | S1<br>S1T        | 6               | 13       | 16         | 18           |            |           |              |                   |
| SSY1-18<br>SSY1-18A             |        | 18           | S1<br>S1T        | 6               | 14       | 18         | 20           |            |           |              |                   |
| SSY1-20<br>SSY1-20A<br>SSY1-20B |        | 20           | S1<br>S1T<br>S1T | 6<br>6<br>8     | 16       | 20         | 22           |            |           |              |                   |
| SSY1-24<br>SSY1-24A<br>SSY1-24B |        | 24           | S1<br>S1T<br>S1T | 6<br>6<br>8     | 16       | 24         | 26           |            |           |              |                   |
| SSY1-25<br>SSY1-25A             |        | 25           | S1<br>S1T        | 6               | 16       | 25         | 27           |            |           |              |                   |
| SSY1-28<br>SSY1-28A             |        | 28           | S1<br>S1T        | 6               | 16       | 28         | 30           |            |           |              |                   |
| SSY1-30<br>SSY1-30A<br>SSY1-30B |        | 30           | S1<br>S1T<br>S1T | 6<br>6<br>8     | 25       | 30         | 32           |            |           |              |                   |
| SSY1-32<br>SSY1-32A             |        | 32           | S1<br>S1T        | 6               | 25       | 32         | 34           |            |           |              |                   |
| SSY1-35<br>SSY1-35A<br>SSY1-35B |        | 35           | S1<br>S1T<br>S1K | 6<br>8<br>10    | 25       | 35         | 37           |            |           |              | —<br>—<br>4 x 1.8 |
| SSY1-36<br>SSY1-36A<br>SSY1-36B |        | 36           | S1<br>S1T<br>S1K | 6<br>8<br>10    | 25       | 36         | 38           |            |           |              | —<br>—<br>4 x 1.8 |
| SSY1-40<br>SSY1-40A<br>SSY1-40B |        | 40           | S1<br>S1T<br>S1K | 8<br>8<br>10    | 28       | 40         | 42           |            |           |              | —<br>—<br>4 x 1.8 |
| SSY1-45<br>SSY1-45A             |        | 45           | S1<br>S1T        | 8               | 28       | 45         | 47           |            |           |              | —                 |
| SSY1-48<br>SSY1-48A             |        | 48           | S1<br>S1T        | 8               | 28       | 48         | 50           |            |           |              |                   |

- [Caution on Product Characteristics]
- ① The key groove used is a JIS B 1301 normal type (Js9) and a set screw is included for products with a tapped hole.

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.

| Socket head screw |             | Allowable torque (N·m) |                    | Allowable torque (kgf·m) |                    | Backlash (mm) | Weight (kg)             | Catalog Number                  |
|-------------------|-------------|------------------------|--------------------|--------------------------|--------------------|---------------|-------------------------|---------------------------------|
| Size              | J           | Bending strength       | Surface durability | Bending strength         | Surface durability |               |                         |                                 |
| —<br>M4           | —<br>4      | 1.47                   | 0.085              | 0.15                     | 0.0087             | 0~0.10        | 0.013<br>0.013          | SSY0.8-20<br>SSY0.8-20A         |
| —<br>M4           | —<br>4      | 2.03                   | 0.134              | 0.21                     | 0.014              |               | 0.022<br>0.022          | SSY0.8-25<br>SSY0.8-25A         |
| —<br>M4           | —<br>4      | 2.60                   | 0.197              | 0.27                     | 0.020              |               | 0.032<br>0.031          | SSY0.8-30<br>SSY0.8-30A         |
| —<br>M4           | —<br>4      | 3.77                   | 0.362              | 0.39                     | 0.037              |               | 0.054<br>0.053          | SSY0.8-40<br>SSY0.8-40A         |
| —<br>M4           | —<br>4      | 4.98                   | 0.580              | 0.51                     | 0.059              |               | 0.068<br>0.067          | SSY0.8-50<br>SSY0.8-50A         |
| —<br>M4           | —<br>4      | 1.22                   | 0.069              | 0.12                     | 0.0070             | 0.08~0.18     | 0.0072<br>0.0070        | SSY1-12<br>SSY1-12A             |
| —<br>M4           | —<br>4      | 1.98                   | 0.096              | 0.20                     | 0.010              |               | 0.011<br>0.011          | SSY1-14<br>SSY1-14A             |
| —<br>M4           | —<br>4      | 2.22                   | 0.11               | 0.23                     | 0.011              |               | 0.012<br>0.012          | SSY1-15<br>SSY1-15A             |
| —<br>M4           | —<br>4      | 2.46                   | 0.13               | 0.25                     | 0.013              |               | 0.015<br>0.014          | SSY1-16<br>SSY1-16A             |
| —<br>M4           | —<br>4      | 2.95                   | 0.16               | 0.30                     | 0.017              |               | 0.019<br>0.018          | SSY1-18<br>SSY1-18A             |
| —<br>M4<br>M5     | —<br>4<br>4 | 3.45                   | 0.20               | 0.35                     | 0.021              |               | 0.024<br>0.024<br>0.021 | SSY1-20<br>SSY1-20A<br>SSY1-20B |
| —<br>M4<br>M5     | —<br>4<br>4 | 4.48                   | 0.30               | 0.46                     | 0.030              |               | 0.031<br>0.030<br>0.028 | SSY1-24<br>SSY1-24A<br>SSY1-24B |
| —<br>M4           | —<br>4      | 4.74                   | 0.32               | 0.48                     | 0.033              |               | 0.033<br>0.032          | SSY1-25<br>SSY1-25A             |
| —<br>M4           | —<br>4      | 5.55                   | 0.41               | 0.57                     | 0.042              |               | 0.039<br>0.038          | SSY1-28<br>SSY1-28A             |
| —<br>M4<br>M5     | —<br>4<br>4 | 6.08                   | 0.47               | 0.62                     | 0.048              |               | 0.061<br>0.060<br>0.057 | SSY1-30<br>SSY1-30A<br>SSY1-30B |
| —<br>M4           | —<br>4      | 6.63                   | 0.54               | 0.68                     | 0.055              |               | 0.066<br>0.065          | SSY1-32<br>SSY1-32A             |
| —<br>M5<br>M4     | —<br>4<br>4 | 7.45                   | 0.66               | 0.76                     | 0.067              |               | 0.073<br>0.069<br>0.066 | SSY1-35<br>SSY1-35A<br>SSY1-35B |
| —<br>M5<br>M4     | —<br>4<br>4 | 7.73                   | 0.70               | 0.79                     | 0.071              |               | 0.076<br>0.072<br>0.069 | SSY1-36<br>SSY1-36A<br>SSY1-36B |
| —<br>M5<br>M4     | —<br>4<br>4 | 8.84                   | 0.87               | 0.90                     | 0.089              |               | 0.092<br>0.091<br>0.088 | SSY1-40<br>SSY1-40A<br>SSY1-40B |
| —<br>M5           | —<br>4      | 10.3                   | 1.12               | 1.05                     | 0.11               |               | 0.11<br>0.11            | SSY1-45<br>SSY1-45A             |
| —<br>M5           | —<br>4      | 11.1                   | 1.28               | 1.13                     | 0.13               |               | 0.12<br>0.12            | SSY1-48<br>SSY1-48A             |

- [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 When using a product with secondary operations applied, please be careful of runout and deformation as the tooth width is thin. Heat treatment in particular may cause the gear to warp.

③ Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.
- You can download CAD data (DXF format) of KHK Products from the Web Catalog.