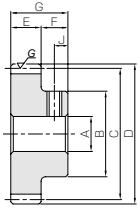




| Specifications  |   |
|-----------------|---|
| Precision grade | JIS grade N7 (JIS B1702-1:1998)<br>JIS grade 3 (JIS B1702:1976) |
| Gear teeth      | Standard full depth   |
| Pressure angle  | 20°   |
| Material        | S45C *  |
| Heat treatment  | — *   |
| Tooth hardness  | 200 ~ 270HB   |



S1T

\* Tooth areas, where size is less than 0.8 module, without quenching treatment.

| Catalog No.                            | Module | No. of teeth | Shape             | Bore            |        |      | Outside dia. | Face width | Hub width | Total length | Keyway      |        |
|--|--------|--------------|-------------------|-----------------|--------|------|--------------|------------|-----------|--------------|-------------|--------|
|  |        |              |                   | A <sub>H7</sub> | B      | C    |              |            |           |              |             |        |
| SSG0.5-30A<br>SSG0.5-30B               | m0.5   | 30           | S1T               | 5               | 13     | 15   | 16           | 5          | 7         | 12           | —           |        |
|  |        |              | S1T               | 6               |        |      |              |            |           |              |             |        |
| SSG0.5-32A                             |        | 32           | S1T               | 5               | 14     | 16   | 17           | 5          | 7         | 12           | —           |        |
| SSG0.5-34A                             |        |              | 34                | S1T             | 5      | 15   | 17           | 18         | 5         | 7            | 12          | —      |
| SSG0.5-35A                             |        | 35           | S1T               | 5               | 15     | 17.5 | 18.5         | 5          | 7         | 12           | —           |        |
| SSG0.5-36A                             |        |              | 36                | S1T             | 5      | 16   | 18           | 19         | 5         | 7            | 12          | —      |
| SSG0.5-38A                             |        | 38           | S1T               | 5               | 16     | 19   | 20           | 5          | 7         | 12           | —           |        |
| SSG0.5-40A<br>SSG0.5-40B               |        |              | 40                | S1T<br>S1T      | 5<br>6 | 18   | 20           | 21         | 5         | 7            | 12          | —<br>— |
| SSG0.5-50A<br>SSG0.5-50B               |        | 50           | S1T<br>S1T        | 5<br>6          | 22     | 25   | 26           | 5          | 7         | 12           | —<br>—      |        |
| SSG0.5-60A<br>SSG0.5-60B               |        |              | 60                | S1T<br>S1T      | 6<br>8 | 28   | 30           | 31         | 5         | 7            | 12          | —<br>— |
| SSG0.5-70A<br>SSG0.5-70B               |        | 70           |                   | S1T<br>S1T      | 6<br>8 | 28   | 35           | 36         | 5         | 7            | 12          | —<br>— |
| SSG0.5-80A<br>SSG0.5-80B               |        |              | 80                | S1T<br>S1T      | 6<br>8 | 28   | 40           | 41         | 5         | 7            | 12          | —<br>— |
| SSG0.8-20A<br>SSG0.8-20B               |        | m0.8         |                   | 20              | S1T    | 5    | 13           | 16         | 17.6      | 8            | 8           | 16     |
|  |        |              | S1T               |                 | 6      |      |              |            |           |              |             |        |
| SSG0.8-21A                             |        |              | 21                | S1T             | 6      | 14   | 16.8         | 18.4       | 8         | 8            | 16          | —      |
| SSG0.8-22A                             |        |              |                   | 22              | S1T    | 6    | 15           | 17.6       | 19.2      | 8            | 8           | 16     |
| SSG0.8-23A                             | 23     |              | S1T               | 6               | 15     | 18.4 | 20           | 8          | 8         | 16           | —           |        |
| SSG0.8-24A<br>SSG0.8-24B               |        |              | 24                | S1T<br>S1T      | 5<br>6 | 16   | 19.2         | 20.8       | 8         | 8            | 16          | —<br>— |
| SSG0.8-25A<br>SSG0.8-25B               | 25     |              | S1T<br>S1T        | 5<br>6          | 16     | 20   | 21.6         | 8          | 8         | 16           | —<br>—      |        |
| SSG0.8-26A                             |        |              | 26                | S1T             | 6      | 18   | 20.8         | 22.4       | 8         | 8            | 16          | —      |
| SSG0.8-27A                             | 27     |              |                   | S1T             | 6      | 18   | 21.6         | 23.2       | 8         | 8            | 16          | —      |
| SSG0.8-28A                             | 28     |              | S1T               | 6               | 18     | 22.4 | 24           | 8          | 8         | 16           | —           |        |
| SSG0.8-29A                             |        |              | 29                | S1T             | 6      | 20   | 23.2         | 24.8       | 8         | 8            | 16          | —      |
| SSG0.8-30A<br>SSG0.8-30B<br>SSG0.8-30C | 30     |              | S1T<br>S1T<br>S1T | 5<br>6<br>8     | 20     | 24   | 25.6         | 8          | 8         | 16           | —<br>—<br>— |        |
| SSG0.8-32A                             |        |              | 32                | S1T             | 6      | 22   | 25.6         | 27.2       | 8         | 8            | 16          | —      |
| SSG0.8-34A                             | 34     |              |                   | S1T             | 6      | 22   | 27.2         | 28.8       | 8         | 8            | 16          | —      |
| SSG0.8-35A                             | 35     |              | S1T               | 6               | 25     | 28   | 29.6         | 8          | 8         | 16           | —           |        |
| SSG0.8-36A                             |        |              | 36                | S1T             | 6      | 25   | 28.8         | 30.4       | 8         | 8            | 16          | —      |
| SSG0.8-38A                             | 38     | S1T          | 6                 | 25              | 30.4   | 32   | 8            | 8          | 16        | —            |             |        |
| SSG0.8-40A<br>SSG0.8-40B               |        | 40           | S1T<br>S1T        | 6<br>8          | 28     | 32   | 33.6         | 8          | 8         | 16           | —<br>—      |        |
| SSG0.8-50A<br>SSG0.8-50B               | 50     | S1T<br>S1T   | 6<br>8            | 28              | 40     | 41.6 | 8            | 8          | 16        | —<br>—       |             |        |
| SSG0.8-60A<br>SSG0.8-60B               |        | 60           | S1T<br>S1T        | 6<br>8          | 28     | 48   | 49.6         | 8          | 8         | 16           | —<br>—      |        |
| SSG0.8-70A<br>SSG0.8-70B               | 70     |              | S1T<br>S1T        | 6<br>8          | 28     | 56   | 57.6         | 8          | 8         | 16           | —<br>—      |        |
| SSG0.8-80A<br>SSG0.8-80B               |        | 80           | S1T<br>S1T        | 6<br>8          | 28     | 64   | 65.6         | 8          | 8         | 16           | —<br>—      |        |

[Caution on Product Characteristics]

- ① For products with 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 31 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 The use of S1T shaped set screws for fastening gears to a shaft, is a method only applicable to light load usage. For secure fastening, please use dowel pins, in combination.

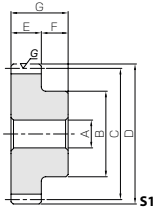
| Set Screw | Size | J    | Allowable torque (N·m) |                    | Allowable torque (kgf·m) |                    | Backlash (mm)           | Weight (kg)                            | Catalog No. |
|-----------|------|------|------------------------|--------------------|--------------------------|--------------------|-------------------------|--|-------------|
|           |      |      | Bending strength       | Surface durability | Bending strength         | Surface durability |                         |  |             |
| M4        | 3.5  | 1.63 | 0.29                   | 0.17               | 0.030                    | 0~0.08             | 0.012                   | SSG0.5-30A<br>SSG0.5-30B               |             |
| M4        | 3.5  | 1.78 | 0.34                   | 0.18               | 0.035                    | 0~0.08             | 0.014                   | SSG0.5-32A                             |             |
| M4        | 3.5  | 1.93 | 0.39                   | 0.20               | 0.039                    | 0~0.08             | 0.016                   | SSG0.5-34A                             |             |
| M4        | 3.5  | 2.00 | 0.41                   | 0.20               | 0.042                    | 0~0.08             | 0.017                   | SSG0.5-35A                             |             |
| M4        | 3.5  | 2.08 | 0.44                   | 0.21               | 0.045                    | 0~0.08             | 0.019                   | SSG0.5-36A                             |             |
| M4        | 3.5  | 2.23 | 0.49                   | 0.23               | 0.050                    | 0~0.08             | 0.020                   | SSG0.5-38A                             |             |
| M4        | 3.5  | 2.38 | 0.55                   | 0.24               | 0.056                    | 0~0.08             | 0.024<br>0.023          | SSG0.5-40A<br>SSG0.5-40B               |             |
| M4        | 3.5  | 3.14 | 0.89                   | 0.32               | 0.091                    | 0~0.08             | 0.038<br>0.037          | SSG0.5-50A<br>SSG0.5-50B               |             |
| M4        | 3.5  | 3.91 | 1.32                   | 0.40               | 0.13                     | 0~0.08             | 0.058<br>0.056          | SSG0.5-60A<br>SSG0.5-60B               |             |
| M4        | 3.5  | 3.90 | 1.53                   | 0.40               | 0.16                     | 0~0.08             | 0.068<br>0.066          | SSG0.5-70A<br>SSG0.5-70B               |             |
| M4        | 3.5  | 4.55 | 2.04                   | 0.46               | 0.21                     | 0~0.08             | 0.080<br>0.077          | SSG0.5-80A<br>SSG0.5-80B               |             |
| M4        | 4    | 3.79 | 0.53                   | 0.39               | 0.054                    | 0~0.08             | 0.018<br>0.017          | SSG0.8-20A<br>SSG0.8-20B               |             |
| M4        | 4    | 4.08 | 0.59                   | 0.42               | 0.060                    | 0~0.08             | 0.020                   | SSG0.8-21A                             |             |
| M4        | 4    | 4.36 | 0.66                   | 0.44               | 0.067                    | 0~0.08             | 0.022                   | SSG0.8-22A                             |             |
| M4        | 4    | 4.64 | 0.73                   | 0.47               | 0.074                    | 0~0.08             | 0.024                   | SSG0.8-23A                             |             |
| M4        | 4    | 4.93 | 0.80                   | 0.50               | 0.082                    | 0~0.08             | 0.028<br>0.027          | SSG0.8-24A<br>SSG0.8-24B               |             |
| M4        | 4    | 5.22 | 0.88                   | 0.53               | 0.090                    | 0~0.08             | 0.029<br>0.028          | SSG0.8-25A<br>SSG0.8-25B               |             |
| M4        | 4    | 5.51 | 0.96                   | 0.56               | 0.098                    | 0~0.08             | 0.033                   | SSG0.8-26A                             |             |
| M4        | 4    | 5.81 | 1.04                   | 0.59               | 0.11                     | 0~0.08             | 0.035                   | SSG0.8-27A                             |             |
| M4        | 4    | 6.10 | 1.12                   | 0.62               | 0.11                     | 0~0.08             | 0.037                   | SSG0.8-28A                             |             |
| M4        | 4    | 6.40 | 1.21                   | 0.65               | 0.12                     | 0~0.08             | 0.042                   | SSG0.8-29A                             |             |
| M4        | 4    | 6.70 | 1.30                   | 0.68               | 0.13                     | 0~0.08             | 0.045<br>0.044<br>0.041 | SSG0.8-30A<br>SSG0.8-30B<br>SSG0.8-30C |             |
| M4        | 4    | 7.29 | 1.50                   | 0.74               | 0.15                     | 0~0.08             | 0.052                   | SSG0.8-32A                             |             |
| M4        | 4    | 7.90 | 1.71                   | 0.81               | 0.17                     | 0~0.08             | 0.056                   | SSG0.8-34A                             |             |
| M4        | 4    | 8.20 | 1.82                   | 0.84               | 0.19                     | 0~0.08             | 0.065                   | SSG0.8-35A                             |             |
| M4        | 4    | 8.51 | 1.93                   | 0.87               | 0.20                     | 0~0.08             | 0.067                   | SSG0.8-36A                             |             |
| M4        | 4    | 9.12 | 2.17                   | 0.93               | 0.22                     | 0~0.08             | 0.072                   | SSG0.8-38A                             |             |
| M4        | 4    | 8.11 | 2.02                   | 0.83               | 0.21                     | 0~0.08             | 0.085<br>0.082          | SSG0.8-40A<br>SSG0.8-40B               |             |
| M4        | 4    | 10.7 | 3.26                   | 1.09               | 0.33                     | 0~0.08             | 0.11<br>0.11            | SSG0.8-50A<br>SSG0.8-50B               |             |
| M4        | 4    | 13.3 | 4.83                   | 1.36               | 0.49                     | 0~0.08             | 0.15<br>0.14            | SSG0.8-60A<br>SSG0.8-60B               |             |
| M4        | 4    | 16.0 | 6.73                   | 1.63               | 0.69                     | 0~0.08             | 0.19<br>0.19            | SSG0.8-70A<br>SSG0.8-70B               |             |
| M4        | 4    | 18.7 | 8.97                   | 1.90               | 0.91                     | 0~0.08             | 0.24<br>0.23            | SSG0.8-80A<br>SSG0.8-80B               |             |

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.



| Specifications   |   |
|------------------|---|
| Precision grade  | JIS grade N7 (JIS B1702-1: 1998) *<br>JIS grade 3 (JIS B1702: 1976) |
| Gear teeth       | Standard full depth   |
| Pressure angle   | 20°   |
| Material         | S45C  |
| Heat treatment   | Tooth surface induction hardened                                    |
| Tooth hardness   | 50 ~ 60HRC  |
| Face width (E)   | 8   |
| Hub width (F)    | 10  |
| Total length (G) | 18  |
| Screw offset (J) | 5   |

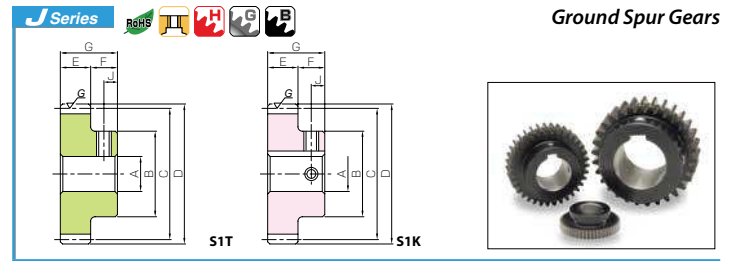


\* The precision grade of J Series products is equivalent to the value shown in the table.

| Catalog No. | No. of teeth | Shape | Bore<br>A <sub>H7</sub> | Hub dia.<br>B | Pitch dia.<br>C | Outside dia.<br>D | Allowable torque (N·m) |                    | Allowable torque (kgf·m) |                    | Backlash<br>(mm) | Weight<br>(kg) |
|-------------|--------------|-------|-------------------------|---------------|-----------------|-------------------|------------------------|--------------------|--------------------------|--------------------|------------------|----------------|
|             |              |       |                         |               |                 |                   | Bending strength       | Surface durability | Bending strength         | Surface durability |                  |                |
| SSG1-15     | 15           | S1    | 6                       | 12            | 15              | 17                | 2.96                   | 1.03               | 0.30                     | 0.11               | 0.016            |                |
| SSG1-16     | 16           |       |                         | 13            | 16              | 18                | 3.28                   | 1.19               | 0.33                     | 0.12               | 0.019            |                |
| SSG1-17     | 17           |       |                         | 14            | 17              | 19                | 3.60                   | 1.36               | 0.37                     | 0.14               | 0.022            |                |
| SSG1-18     | 18           |       |                         | 15            | 18              | 20                | 3.93                   | 1.54               | 0.40                     | 0.16               | 0.026            |                |
| SSG1-19     | 19           |       |                         | 16            | 19              | 21                | 4.26                   | 1.73               | 0.43                     | 0.18               | 0.030            |                |
| SSG1-20     | 20           |       |                         | 17            | 20              | 22                | 4.60                   | 1.94               | 0.47                     | 0.20               | 0.034            |                |
| SSG1-21     | 21           |       | 18                      | 21            | 23              | 4.94              | 2.14                   | 0.50               | 0.22                     | 0.035              |                  |                |
| SSG1-22     | 22           |       | 18                      | 22            | 24              | 5.28              | 2.36                   | 0.54               | 0.24                     | 0.037              |                  |                |
| SSG1-23     | 23           |       | 20                      | 23            | 25              | 5.63              | 2.59                   | 0.57               | 0.26                     | 0.044              |                  |                |
| SSG1-24     | 24           |       | 20                      | 24            | 26              | 5.98              | 2.83                   | 0.61               | 0.29                     | 0.046              |                  |                |
| SSG1-25     | 25           |       | 20                      | 25            | 27              | 6.33              | 3.07                   | 0.65               | 0.31                     | 0.048              |                  |                |
| SSG1-26     | 26           |       | 20                      | 26            | 28              | 6.68              | 3.33                   | 0.68               | 0.34                     | 0.051              |                  |                |
| SSG1-27     | 27           | 20    | 27                      | 29            | 7.04            | 3.60              | 0.72                   | 0.37               | 0.054                    |                    |                  |                |
| SSG1-28     | 28           | 20    | 28                      | 30            | 7.39            | 3.89              | 0.75                   | 0.40               | 0.056                    |                    |                  |                |
| SSG1-29     | 29           | 25    | 29                      | 31            | 7.75            | 4.18              | 0.79                   | 0.43               | 0.073                    |                    |                  |                |
| SSG1-30     | 30           | 25    | 30                      | 32            | 8.11            | 4.48              | 0.83                   | 0.46               | 0.072                    |                    |                  |                |
| SSG1-32     | 32           | 25    | 32                      | 34            | 7.37            | 4.27              | 0.75                   | 0.43               | 0.078                    |                    |                  |                |
| SSG1-34     | 34           | 25    | 34                      | 36            | 7.98            | 4.84              | 0.81                   | 0.49               | 0.084                    |                    |                  |                |
| SSG1-35     | 35           | 25    | 35                      | 37            | 8.28            | 5.14              | 0.84                   | 0.52               | 0.088                    |                    |                  |                |
| SSG1-36     | 36           | 25    | 36                      | 38            | 8.59            | 5.45              | 0.88                   | 0.56               | 0.091                    |                    |                  |                |
| SSG1-38     | 38           | 30    | 38                      | 40            | 9.21            | 6.10              | 0.94                   | 0.62               | 0.12                     |                    |                  |                |
| SSG1-40     | 40           | 30    | 40                      | 42            | 9.83            | 6.79              | 1.00                   | 0.69               | 0.12                     |                    |                  |                |
| SSG1-42     | 42           | 30    | 42                      | 44            | 10.5            | 7.51              | 1.07                   | 0.77               | 0.13                     |                    |                  |                |
| SSG1-44     | 44           | 30    | 44                      | 46            | 11.1            | 8.28              | 1.13                   | 0.84               | 0.14                     |                    |                  |                |
| SSG1-45     | 45           | 30    | 45                      | 47            | 11.4            | 8.67              | 1.16                   | 0.88               | 0.14                     |                    |                  |                |
| SSG1-48     | 48           | 30    | 48                      | 50            | 12.3            | 9.92              | 1.26                   | 1.01               | 0.16                     |                    |                  |                |
| SSG1-50     | 50           | 35    | 50                      | 52            | 13.0            | 10.8              | 1.32                   | 1.10               | 0.18                     |                    |                  |                |
| SSG1-55     | 55           | 35    | 55                      | 57            | 14.6            | 13.2              | 1.48                   | 1.34               | 0.21                     |                    |                  |                |
| SSG1-56     | 56           | 35    | 56                      | 58            | 14.9            | 13.7              | 1.52                   | 1.40               | 0.21                     |                    |                  |                |
| SSG1-60     | 60           | 40    | 60                      | 62            | 16.2            | 15.8              | 1.65                   | 1.61               | 0.26                     |                    |                  |                |
| SSG1-64     | 64           | 40    | 64                      | 66            | 17.4            | 18.1              | 1.78                   | 1.84               | 0.28                     |                    |                  |                |
| SSG1-70     | 70           | 40    | 70                      | 72            | 19.4            | 21.8              | 1.97                   | 2.22               | 0.32                     |                    |                  |                |
| SSG1-75     | 75           | 40    | 75                      | 77            | 21.0            | 25.2              | 2.14                   | 2.57               | 0.36                     |                    |                  |                |
| SSG1-80     | 80           | 50    | 80                      | 82            | 22.6            | 28.8              | 2.30                   | 2.94               | 0.44                     |                    |                  |                |
| SSG1-90     | 90           | 50    | 90                      | 92            | 25.8            | 36.9              | 2.64                   | 3.77               | 0.53                     |                    |                  |                |
| SSG1-100    | 100          | 50    | 100                     | 102           | 26.9            | 42.5              | 2.74                   | 4.34               | 0.62                     |                    |                  |                |
| SSG1-120    | 120          | 50    | 120                     | 122           | 32.9            | 62.5              | 3.36                   | 6.37               | 0.84                     |                    |                  |                |

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.  
② 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.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



To order J Series products, please specify: **Catalog No. + J + BORE**

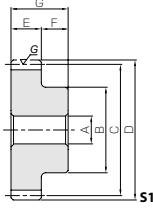
| Bore H7         | * The product shapes of J Series items are identified by background color. |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
|-----------------|--|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|----|
| Keyway Js9      | 6  | 8  | 10      | 12 | 14 | 15      | 16 | 17 | 18      | 19 | 20 | 22      | 25 | 28 | 30 |
| Screw size      | -  |    | 4 x 1.8 |    |    | 5 x 2.3 |    |    | 6 x 2.8 |    |    | 8 x 3.3 |    |    |    |
| Catalog No.     | M4   | M5 | M4      |    |    | M5      |    |    | M6      |    |    |         |    |    |    |
| SSG1-15 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-16 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-17 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-18 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-19 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-20 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-21 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-22 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-23 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-24 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-25 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-26 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-27 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-28 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-29 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-30 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-32 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-34 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-35 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-36 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-38 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-40 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-42 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-44 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-45 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-48 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-50 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-55 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-56 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-60 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-64 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-70 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-75 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-80 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-90 J BORE  |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-100 J BORE |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |
| SSG1-120 J BORE |  |    |         |    |    |         |    |    |         |    |    |         |    |    |    |

[Caution on J series] ① As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.  
② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.  
③ Keyways are made according to JIS B1301 standards, Js9 tolerance.  
④ Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.  
⑤ Areas of products which have been re-worked will not be black oxide coated.  
⑥ For products having a tapped hole, a set screw is included.  
⑦ The use of S1T shaped set screws for fastening gears to a shaft, is a method only applicable to light load usage. For secure fastening, please use dowel pins, in combination.



| Specifications   |   |
|------------------|---|
| Precision grade  | JIS grade N7 (JIS B1702-1: 1998) =<br>JIS grade 3 (JIS B1702: 1976) |
| Gear teeth       | Standard full depth   |
| Pressure angle   | 20°   |
| Material         | S45C  |
| Heat treatment   | Tooth surface induction hardened                                    |
| Tooth hardness   | 50 ~ 60HRC  |
| Face width (E)   | 15  |
| Hub width (F)    | 14  |
| Total length (G) | 29  |
| Screw offset (J) | 7   |

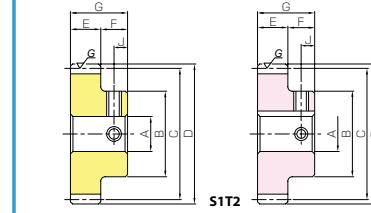
\* The precision grade of J Series products is equivalent to the value shown in the table.



| Catalog No. | No. of teeth | Shape     | Bore A <sub>H7</sub> | Hub dia. B | Pitch dia. C | Outside dia. D | Allowable torque (N·m) |                    | Backlash (mm) | Weight (kg) |           |
|-------------|--------------|-----------|----------------------|------------|--------------|----------------|------------------------|--------------------|---------------|-------------|-----------|
|             |              |           |                      |            |              |                | Bending strength       | Surface durability |               |             |           |
| SSG1.5-14   | 14           | S1        |                      | 17         | 21           | 24             | 11.1                   | 3.73               | 0.08          | 0.048       |           |
| SSG1.5-15   | 15           |           |                      |            |              |                |                        |                    |               |             | 0.08~0.16 |
| SSG1.5-16   | 16           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-17   | 17           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-18   | 18           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-19   | 19           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-20   | 20           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-21   | 21           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-22   | 22           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-23   | 23           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-24   | 24           | 12        |                      | 28         | 36           | 39             | 21.0                   | 10.2               | 2.14          | 1.04        |           |
| SSG1.5-25   | 25           |           |                      |            |              |                |                        |                    |               |             | 0.10~0.18 |
| SSG1.5-26   | 26           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-27   | 27           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-28   | 28           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-29   | 29           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-30   | 30           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-32   | 32           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-34   | 34           | 15        |                      | 40         | 51           | 54             | 33.6                   | 21.1               | 3.43          | 2.15        |           |
| SSG1.5-35   | 35           |           |                      |            |              |                |                        |                    |               |             | 0.10~0.18 |
| SSG1.5-36   | 36           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-38   | 38           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-40   | 40           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-42   | 42           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-44   | 44           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-45   | 45           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-48   | 48           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-50   | 50           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-55   | 55           | 18        |                      | 60         | 82.5         | 85.5           | 61.4                   | 57.7               | 6.26          | 5.88        |           |
| SSG1.5-56   | 56           |           |                      |            |              |                |                        |                    |               |             | 0.12~0.20 |
| SSG1.5-60   | 60           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-64   | 64           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-70   | 70           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-75   | 75           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-80   | 80           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-90   | 90           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-100  | 100          |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-90   | 90           |           |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-100  | 100          | 0.12~0.20 |                      |            |              |                |                        |                    |               |             |           |
| SSG1.5-100  | 100          |           |                      |            | 70           | 150            | 153                    | 113                | 187           | 11.6        | 19.1      |

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.  
② 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.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



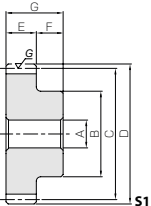
To order J Series products, please specify; Catalog No. + J + BORE

| Bore H7           | * The product shapes of J Series items are identified by background color. |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
|-------------------|--|---------|----|----|----|----|---------|----|----|---------|----|----|----------|----|----------|----|
|                   | 10   | 12      | 14 | 15 | 16 | 17 | 18      | 19 | 20 | 22      | 25 | 28 | 30       | 32 | 35       | 40 |
| Keyway Js9        | 10   | 12      | 14 | 15 | 16 | 17 | 18      | 19 | 20 | 22      | 25 | 28 | 30       | 32 | 35       | 40 |
| Screw size        | 4 × 1.8  | 5 × 2.3 |    |    |    |    | 6 × 2.8 |    |    | 8 × 3.3 |    |    | 10 × 3.3 |    | 12 × 3.3 |    |
| Catalog No.       | M4   |         |    | M5 |    |    | M6      |    |    | M8      |    |    |          |    |          |    |
| SSG1.5-14 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-15 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-16 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-17 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-18 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-19 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-20 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-21 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-22 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-23 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-24 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-25 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-26 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-27 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-28 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-29 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-30 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-32 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-34 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-35 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-36 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-38 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-40 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-42 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-44 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-45 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-48 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-50 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-55 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-56 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-60 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-64 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-70 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-75 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-80 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-90 J BORE  |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |
| SSG1.5-100 J BORE |  |         |    |    |    |    |         |    |    |         |    |    |          |    |          |    |

[Caution on J series] ① As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.  
② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.  
③ Keyways are made according to JIS B1301 standards, Js9 tolerance.  
④ Certain products which would otherwise have a very long tapped hole are contoured to reduce the length of the tap.  
⑤ Areas of products which have been re-worked will not be black oxide coated.  
⑥ For products having a tapped hole, a set screw is included.  
⑦ The use of S1T2 shaped set screws for fastening gears to a shaft, is a method only applicable to light load usage. For secure fastening, please use dowel pins, in combination.



| Specifications   |   |
|------------------|---|
| Precision grade  | JIS grade N7 (JIS B1702-1: 1998)<br>JIS grade 3 (JIS B1702: 1979) |
| Gear teeth       | Standard full depth   |
| Pressure angle   | 20°   |
| Material         | S45C  |
| Heat treatment   | Tooth surface induction hardened                                  |
| Tooth hardness   | 50 ~ 60HRC  |
| Face width (E)   | 20  |
| Hub width (F)    | 16  |
| Total length (G) | 36  |
| Screw offset (J) | 8   |

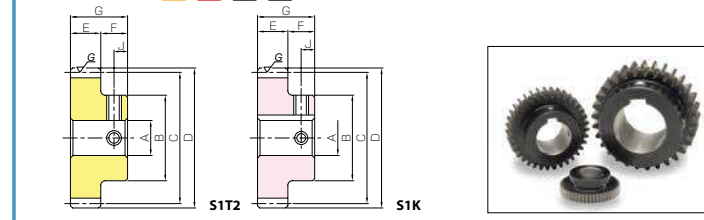


\* The precision grade of J Series products is equivalent to the value shown in the table.

| Catalog No.     | No. of teeth | Shape | Bore A <sub>H7</sub> | Hub dia. B | Pitch dia. C | Outside dia. D | Allowable torque (N·m) |                    | Backlash (mm) | Weight (kg) |      |      |      |
|-----------------|--------------|-------|----------------------|------------|--------------|----------------|------------------------|--------------------|---------------|-------------|------|------|------|
|                 |              |       |                      |            |              |                | Bending strength       | Surface durability |               |             |      |      |      |
| <b>SSG2-14</b>  | 14           | S1    | 12                   | 22         | 28           | 32             | 26.3                   | 9.01               | 2.69          | 0.92        | 0.11 |      |      |
| <b>SSG2-15</b>  | 15           |       |                      | 24         | 30           | 34             | 29.6                   | 10.5               | 3.01          | 1.07        | 0.14 |      |      |
| <b>SSG2-16</b>  | 16           |       |                      | 26         | 32           | 36             | 27.3                   | 10.1               | 2.78          | 1.03        | 0.16 |      |      |
| <b>SSG2-17</b>  | 17           |       |                      | 28         | 34           | 38             | 30.0                   | 11.6               | 3.06          | 1.18        | 0.19 |      |      |
| <b>SSG2-18</b>  | 18           |       |                      | 30         | 36           | 40             | 32.7                   | 13.1               | 3.34          | 1.34        | 0.22 |      |      |
| <b>SSG2-19</b>  | 19           |       |                      | 31         | 38           | 42             | 35.5                   | 14.8               | 3.62          | 1.51        | 0.24 |      |      |
| <b>SSG2-20</b>  | 20           |       |                      | 32         | 40           | 44             | 38.3                   | 16.6               | 3.91          | 1.69        | 0.25 |      |      |
| <b>SSG2-21</b>  | 21           |       |                      | 34         | 42           | 46             | 41.1                   | 18.4               | 4.20          | 1.88        | 0.28 |      |      |
| <b>SSG2-22</b>  | 22           |       |                      | 36         | 44           | 48             | 44.0                   | 20.4               | 4.49          | 2.08        | 0.32 |      |      |
| <b>SSG2-23</b>  | 23           |       |                      | 37         | 46           | 50             | 46.9                   | 22.5               | 4.78          | 2.30        | 0.35 |      |      |
| <b>SSG2-24</b>  | 24           | 15    | 15                   | 38         | 48           | 52             | 49.8                   | 24.7               | 5.08          | 2.52        | 0.38 |      |      |
| <b>SSG2-25</b>  | 25           |       |                      | 40         | 50           | 54             | 52.7                   | 27.0               | 5.38          | 2.75        | 0.42 |      |      |
| <b>SSG2-26</b>  | 26           |       |                      | 42         | 52           | 56             | 55.7                   | 29.3               | 5.68          | 2.99        | 0.46 |      |      |
| <b>SSG2-27</b>  | 27           |       |                      | 44         | 54           | 58             | 58.6                   | 31.7               | 5.98          | 3.23        | 0.50 |      |      |
| <b>SSG2-28</b>  | 28           |       |                      | 45         | 56           | 60             | 61.6                   | 34.2               | 6.28          | 3.49        | 0.54 |      |      |
| <b>SSG2-29</b>  | 29           |       |                      | 48         | 58           | 62             | 64.6                   | 36.8               | 6.59          | 3.75        | 0.59 |      |      |
| <b>SSG2-30</b>  | 30           |       |                      | 50         | 60           | 64             | 67.6                   | 39.5               | 6.89          | 4.03        | 0.62 |      |      |
| <b>SSG2-32</b>  | 32           |       |                      | 50         | 64           | 68             | 73.7                   | 45.2               | 7.51          | 4.61        | 0.68 |      |      |
| <b>SSG2-34</b>  | 34           |       |                      | 50         | 68           | 72             | 79.8                   | 51.3               | 8.13          | 5.23        | 0.74 |      |      |
| <b>SSG2-35</b>  | 35           |       |                      | 50         | 70           | 74             | 82.8                   | 54.5               | 8.45          | 5.56        | 0.78 |      |      |
| <b>SSG2-36</b>  | 36           | 18    | 18                   | 50         | 72           | 76             | 85.9                   | 57.8               | 8.76          | 5.90        | 0.81 |      |      |
| <b>SSG2-38</b>  | 38           |       |                      | 50         | 76           | 80             | 92.1                   | 64.8               | 9.39          | 6.60        | 0.89 |      |      |
| <b>SSG2-40</b>  | 40           |       |                      | 60         | 80           | 84             | 98.3                   | 72.1               | 10.0          | 7.35        | 1.06 |      |      |
| <b>SSG2-42</b>  | 42           |       |                      | 60         | 84           | 88             | 105                    | 79.9               | 10.7          | 8.15        | 1.14 |      |      |
| <b>SSG2-44</b>  | 44           |       |                      | 60         | 88           | 92             | 111                    | 88.1               | 11.3          | 8.98        | 1.22 |      |      |
| <b>SSG2-45</b>  | 45           |       |                      | 60         | 90           | 94             | 114                    | 92.3               | 11.6          | 9.41        | 1.27 |      |      |
| <b>SSG2-48</b>  | 48           |       |                      | 60         | 96           | 100            | 114                    | 97.6               | 11.6          | 9.95        | 1.40 |      |      |
| <b>SSG2-50</b>  | 50           |       |                      | 60         | 100          | 104            | 120                    | 106                | 12.2          | 10.8        | 1.45 |      |      |
| <b>SSG2-55</b>  | 55           |       |                      | 60         | 110          | 114            | 134                    | 130                | 13.7          | 13.3        | 1.71 |      |      |
| <b>SSG2-56</b>  | 56           |       |                      | 60         | 112          | 116            | 137                    | 135                | 14.0          | 13.8        | 1.76 |      |      |
| <b>SSG2-60</b>  | 60           | 20    | 20                   | 65         | 120          | 124            | 149                    | 156                | 15.2          | 15.9        | 2.05 |      |      |
| <b>SSG2-64</b>  | 64           |       |                      | 65         | 128          | 132            | 161                    | 179                | 16.4          | 18.3        | 2.30 |      |      |
| <b>SSG2-70</b>  | 70           |       |                      | 70         | 140          | 144            | 179                    | 216                | 18.2          | 22.0        | 2.76 |      |      |
| <b>SSG2-75</b>  | 75           |       |                      | 70         | 150          | 154            | 194                    | 249                | 19.7          | 25.4        | 3.12 |      |      |
| <b>SSG2-80</b>  | 80           |       |                      | 80         | 160          | 164            | 194                    | 265                | 19.8          | 27.0        | 3.65 |      |      |
| <b>SSG2-90</b>  | 90           |       |                      | 80         | 180          | 184            | 222                    | 338                | 22.6          | 34.5        | 4.49 |      |      |
| <b>SSG2-100</b> | 100          |       |                      | 80         | 200          | 204            | 250                    | 421                | 25.4          | 43.0        | 5.42 |      |      |
|                 |              |       |                      | 25         | 25           | 65             | 128                    | 132                | 161           | 179         | 16.4 | 18.3 | 2.30 |
|                 |              |       |                      |            |              | 70             | 140                    | 144                | 179           | 216         | 18.2 | 22.0 | 2.76 |
|                 |              |       |                      |            |              | 70             | 150                    | 154                | 194           | 249         | 19.7 | 25.4 | 3.12 |
|                 |              | 80    | 160                  |            |              | 164            | 194                    | 265                | 19.8          | 27.0        | 3.65 |      |      |
|                 |              | 80    | 180                  |            |              | 184            | 222                    | 338                | 22.6          | 34.5        | 4.49 |      |      |
|                 |              | 80    | 200                  |            |              | 204            | 250                    | 421                | 25.4          | 43.0        | 5.42 |      |      |

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.  
② 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.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



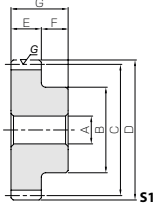
**To order J Series products, please specify; Catalog No. + J + BORE**

| Bore H7                | * The product shapes of J Series items are identified by background color. |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
|------------------------|--|----|----|---------|----|----|---------|----|----|---------|----|-----|----------|----|----------|----------|
|                        | 12   | 14 | 15 | 16      | 17 | 18 | 19      | 20 | 22 | 25      | 28 | 30  | 32       | 35 | 40       | 45       |
| Keyway J <sub>s9</sub> | 4 x 1.8  |    |    | 5 x 2.3 |    |    | 6 x 2.8 |    |    | 8 x 3.3 |    |     | 10 x 3.3 |    | 12 x 3.3 | 14 x 3.8 |
| Screw size             | M4   |    |    | M5      |    |    | M6      |    |    | M8      |    | M10 |          |    |          |          |
| Catalog No.            | [Grid of product availability with background color coding]                |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-14 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-15 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-16 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-17 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-18 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-19 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-20 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-21 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-22 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-23 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-24 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-25 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-26 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-27 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-28 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-29 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-30 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-32 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-34 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-35 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-36 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-38 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-40 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-42 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-44 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-45 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-48 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-50 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-55 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-56 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-60 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-64 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-70 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-75 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-80 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-90 J BORE</b>  | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |
| <b>SSG2-100 J BORE</b> | [Grid]   |    |    |         |    |    |         |    |    |         |    |     |          |    |          |          |

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② Number of products we can process for one order is **1 to 20 units**. For quantities of 21 or more pieces, we need to quote price and lead time.  
③ Keyways are made according to JIS B1301 standards, J<sub>s9</sub> tolerance.  
④ Certain products which would otherwise have a very long tapped hole are contoured to reduce the length of the tap.  
⑤ Areas of products which have been re-worked will not be black oxide coated.  
⑥ For products having a tapped hole, a set screw is included.  
⑦ The use of S1T2 shaped set screws for fastening gears to a shaft, is a method only applicable to light load usage. For secure fastening, please use dowel pins, in combination.



| Specifications   |  |
|------------------|--|
| Precision grade  | JIS grade N7 (JIS B1702-1: 1998) = JIS grade 3 (JIS B1702: 1976) |
| Gear teeth       | Standard full depth  |
| Pressure angle   | 20°  |
| Material         | S45C   |
| Heat treatment   | Tooth surface induction hardened                                 |
| Tooth hardness   | 50 ~ 60HRC   |
| Face width (E)   | 25   |
| Hub width (F)    | 18   |
| Total length (G) | 43   |
| Screw offset (J) | 9  |

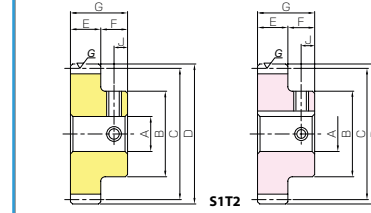


\* The precision grade of J Series products is equivalent to the value shown in the table.

| Catalog No. | No. of teeth | Shape | Bore A <sub>H7</sub> | Hub dia. B | Pitch dia. C | Outside dia. D | Allowable torque (N·m) |                    | Backlash (mm) | Weight (kg) |      |
|-------------|--------------|-------|----------------------|------------|--------------|----------------|------------------------|--------------------|---------------|-------------|------|
|             |              |       |                      |            |              |                | Bending strength       | Surface durability |               |             |      |
| SSG2.5-14   | 14           | S1    | 15                   | 28         | 35           | 40             | 42.9                   | 14.9               | 4.37          | 1.52        | 0.22 |
| SSG2.5-15   | 15           |       |                      | 30         | 37.5         | 42.5           | 48.1                   | 17.4               | 4.91          | 1.77        | 0.26 |
| SSG2.5-16   | 16           |       |                      | 32         | 40           | 45             | 53.3                   | 20.1               | 5.44          | 2.05        | 0.30 |
| SSG2.5-17   | 17           |       |                      | 35         | 42.5         | 47.5           | 58.6                   | 23.0               | 5.97          | 2.34        | 0.35 |
| SSG2.5-18   | 18           |       |                      | 38         | 45           | 50             | 63.9                   | 26.1               | 6.52          | 2.66        | 0.41 |
| SSG2.5-19   | 19           |       |                      | 39         | 47.5         | 52.5           | 69.4                   | 29.4               | 7.07          | 3.00        | 0.46 |
| SSG2.5-20   | 20           |       |                      | 40         | 50           | 55             | 74.8                   | 32.9               | 7.63          | 3.36        | 0.48 |
| SSG2.5-21   | 21           |       |                      | 42         | 52.5         | 57.5           | 80.4                   | 36.7               | 8.20          | 3.74        | 0.53 |
| SSG2.5-22   | 22           |       |                      | 44         | 55           | 60             | 86.0                   | 40.6               | 8.77          | 4.14        | 0.60 |
| SSG2.5-23   | 23           |       |                      | 46         | 57.5         | 62.5           | 91.6                   | 44.8               | 9.34          | 4.57        | 0.66 |
| SSG2.5-24   | 24           |       |                      | 48         | 60           | 65             | 97.3                   | 49.2               | 9.92          | 5.02        | 0.72 |
| SSG2.5-25   | 25           |       |                      | 50         | 62.5         | 67.5           | 103                    | 53.8               | 10.5          | 5.48        | 0.77 |
| SSG2.5-26   | 26           |       | 54                   | 65         | 70           | 109            | 58.4                   | 11.1               | 5.95          | 0.87        |      |
| SSG2.5-27   | 27           |       | 56                   | 67.5       | 72.5         | 115            | 63.2                   | 11.7               | 6.44          | 0.94        |      |
| SSG2.5-28   | 28           |       | 60                   | 70         | 75           | 120            | 68.2                   | 12.3               | 6.95          | 1.05        |      |
| SSG2.5-29   | 29           |       | 60                   | 72.5       | 77.5         | 126            | 73.3                   | 12.9               | 7.48          | 1.10        |      |
| SSG2.5-30   | 30           |       | 65                   | 75         | 80           | 132            | 78.7                   | 13.5               | 8.03          | 1.23        |      |
| SSG2.5-32   | 32           |       | 70                   | 80         | 85           | 144            | 90.1                   | 14.7               | 9.19          | 1.42        |      |
| SSG2.5-34   | 34           |       | 70                   | 85         | 90           | 156            | 102                    | 15.9               | 10.4          | 1.55        |      |
| SSG2.5-35   | 35           |       | 70                   | 87.5       | 92.5         | 162            | 109                    | 16.5               | 11.1          | 1.62        |      |
| SSG2.5-36   | 36           |       | 70                   | 90         | 95           | 168            | 115                    | 17.1               | 11.8          | 1.69        |      |
| SSG2.5-38   | 38           |       | 70                   | 95         | 100          | 180            | 129                    | 18.3               | 13.2          | 1.83        |      |
| SSG2.5-40   | 40           |       | 70                   | 100        | 105          | 177            | 133                    | 18.1               | 13.6          | 1.92        |      |
| SSG2.5-42   | 42           |       | 75                   | 105        | 110          | 188            | 147                    | 19.2               | 15.0          | 2.16        |      |
| SSG2.5-44   | 44           | 75    | 110                  | 115        | 200          | 163            | 20.4                   | 16.6               | 2.32          |             |      |
| SSG2.5-45   | 45           | 75    | 112.5                | 117.5      | 205          | 170            | 20.9                   | 17.4               | 2.41          |             |      |
| SSG2.5-48   | 48           | 75    | 120                  | 125        | 222          | 195            | 22.7                   | 19.9               | 2.68          |             |      |
| SSG2.5-50   | 50           | 80    | 125                  | 130        | 234          | 213            | 23.8                   | 21.7               | 2.95          |             |      |
| SSG2.5-55   | 55           | 80    | 137.5                | 142.5      | 262          | 260            | 26.8                   | 26.5               | 3.46          |             |      |
| SSG2.5-56   | 56           | 80    | 140                  | 145        | 268          | 270            | 27.3                   | 27.5               | 3.57          |             |      |
| SSG2.5-60   | 60           | 80    | 150                  | 155        | 291          | 311            | 29.7                   | 31.8               | 4.01          |             |      |
| SSG2.5-70   | 70           | 80    | 175                  | 180        | 324          | 399            | 33.1                   | 40.7               | 5.26          |             |      |
| SSG2.5-75   | 75           | 90    | 187.5                | 192.5      | 351          | 461            | 35.8                   | 47.0               | 6.15          |             |      |
| SSG2.5-80   | 80           | 90    | 200                  | 205        | 378          | 527            | 38.6                   | 53.7               | 6.90          |             |      |

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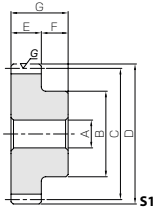
To order J Series products, please specify; Catalog No. + J + BORE

| Bore H7          | * The product shapes of J Series items are identified by background color. |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
|------------------|--|----|----|---------|----|----|---------|----|----|----------|----|----|----------|----|----------|--|
|                  | 15   | 16 | 17 | 18      | 19 | 20 | 22      | 25 | 28 | 30       | 32 | 35 | 40       | 45 | 50       |  |
| Keyway Js9       | 5 × 2.3  |    |    | 6 × 2.8 |    |    | 8 × 3.3 |    |    | 10 × 3.3 |    |    | 12 × 3.3 |    | 14 × 3.8 |  |
| Screw size       | M4   |    |    | M5      |    |    | M6      |    |    | M8       |    |    | M10      |    |          |  |
| Catalog No.      | [Grid of product shapes with background colors]                            |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-14 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-15 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-16 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-17 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-18 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-19 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-20 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-21 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-22 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-23 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-24 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-25 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-26 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-27 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-28 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-29 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-30 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-32 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-34 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-35 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-36 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-38 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-40 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-42 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-44 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-45 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-48 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-50 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-55 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-56 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-60 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-70 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-75 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |
| SSG2.5-80 J BORE | [Grid]   |    |    |         |    |    |         |    |    |          |    |    |          |    |          |  |

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| Specifications   |  |
|------------------|--|
| Precision grade  | JIS grade N7 (JIS B1702-1: 1998) + JIS grade 3 (JIS B1702: 1979) |
| Gear teeth       | Standard full depth  |
| Pressure angle   | 20°  |
| Material         | S45C   |
| Heat treatment   | Tooth surface induction hardened                                 |
| Tooth hardness   | 50 ~ 60HRC   |
| Face width (E)   | 30   |
| Hub width (F)    | 20   |
| Total length (G) | 50   |
| Screw offset (J) | 10   |

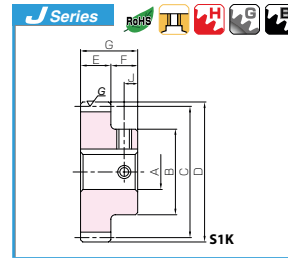


\* The precision grade of J Series products is equivalent to the value shown in the table.

| Catalog No. | No. of teeth | Shape | Bore A <sub>H7</sub> | Hub dia. B | Pitch dia. C | Outside dia. D | Allowable torque (N·m) |                    | Backlash (mm) | Weight (kg) |           |      |
|-------------|--------------|-------|----------------------|------------|--------------|----------------|------------------------|--------------------|---------------|-------------|-----------|------|
|             |              |       |                      |            |              |                | Bending strength       | Surface durability |               |             |           |      |
| SSG3-14     | 14           | S1    | 16                   | 34         | 42           | 48             | 74.1                   | 26.1               | 7.55          | 2.66        | 0.10~0.20 | 0.39 |
| SSG3-15     | 15           |       |                      | 36         | 45           | 51             | 83.1                   | 30.5               | 8.48          | 3.11        |           |      |
| SSG3-16     | 16           |       |                      | 38         | 48           | 54             | 92.1                   | 35.2               | 9.39          | 3.59        |           |      |
| SSG3-17     | 17           |       |                      | 37         | 51           | 57             | 101                    | 40.3               | 10.3          | 4.11        |           |      |
| SSG3-18     | 18           |       |                      | 40         | 54           | 60             | 110                    | 45.8               | 11.3          | 4.67        |           |      |
| SSG3-19     | 19           |       |                      | 45         | 57           | 63             | 120                    | 51.6               | 12.2          | 5.26        |           |      |
| SSG3-20     | 20           |       |                      | 50         | 60           | 66             | 129                    | 57.8               | 13.2          | 5.90        | 0.12~0.22 | 1.25 |
| SSG3-21     | 21           |       |                      | 52         | 63           | 69             | 139                    | 64.4               | 14.2          | 6.57        |           |      |
| SSG3-22     | 22           |       |                      | 54         | 66           | 72             | 149                    | 71.3               | 15.1          | 7.28        |           |      |
| SSG3-23     | 23           |       |                      | 56         | 69           | 75             | 158                    | 78.7               | 16.1          | 8.02        |           |      |
| SSG3-24     | 24           |       |                      | 58         | 72           | 78             | 168                    | 86.4               | 17.1          | 8.81        |           |      |
| SSG3-25     | 25           |       |                      | 60         | 75           | 81             | 178                    | 94.5               | 18.1          | 9.64        |           |      |
| SSG3-26     | 26           |       |                      | 62         | 78           | 84             | 188                    | 103                | 19.2          | 10.5        | 0.14~0.24 | 1.48 |
| SSG3-27     | 27           |       |                      | 65         | 81           | 87             | 198                    | 111                | 20.2          | 11.3        |           |      |
| SSG3-28     | 28           |       |                      | 70         | 84           | 90             | 208                    | 120                | 21.2          | 12.2        |           |      |
| SSG3-29     | 29           |       |                      | 70         | 87           | 93             | 218                    | 129                | 22.2          | 13.2        |           |      |
| SSG3-30     | 30           |       |                      | 75         | 90           | 96             | 228                    | 138                | 23.3          | 14.1        |           |      |
| SSG3-32     | 32           |       |                      | 75         | 96           | 102            | 229                    | 146                | 23.4          | 14.9        |           |      |
| SSG3-34     | 34           | 75    | 102                  | 108        | 248          | 166            | 25.3                   | 17.0               | 0.10~0.20     | 2.43        |           |      |
| SSG3-35     | 35           | 80    | 105                  | 111        | 258          | 177            | 26.3                   | 18.0               |               |             |           |      |
| SSG3-36     | 36           | 80    | 108                  | 114        | 268          | 188            | 27.3                   | 19.1               |               |             |           |      |
| SSG3-38     | 38           | 80    | 114                  | 120        | 287          | 210            | 29.2                   | 21.4               |               |             |           |      |
| SSG3-40     | 40           | 80    | 120                  | 126        | 306          | 234            | 31.2                   | 23.9               |               |             |           |      |
| SSG3-42     | 42           | 80    | 126                  | 132        | 326          | 260            | 33.2                   | 26.5               |               |             |           |      |
| SSG3-44     | 44           | 80    | 132                  | 138        | 345          | 286            | 35.2                   | 29.2               | 0.14~0.24     | 3.82        |           |      |
| SSG3-45     | 45           | 80    | 135                  | 141        | 355          | 300            | 36.2                   | 30.6               |               |             |           |      |
| SSG3-48     | 48           | 85    | 144                  | 150        | 384          | 343            | 39.2                   | 35.0               |               |             |           |      |
| SSG3-50     | 50           | 85    | 150                  | 156        | 404          | 374            | 41.2                   | 38.1               |               |             |           |      |
| SSG3-55     | 55           | 90    | 165                  | 171        | 421          | 423            | 42.9                   | 43.2               |               |             |           |      |
| SSG3-56     | 56           | 90    | 168                  | 174        | 430          | 439            | 43.9                   | 44.8               |               |             |           |      |
| SSG3-60     | 60           | 30    | 100                  | 180        | 186          | 467            | 508                    | 47.6               | 51.8          | 0.10~0.20   | 6.95      |      |
| SSG3-70     | 70           |       | 100                  | 210        | 216          | 560            | 699                    | 57.1               | 71.3          |             |           |      |
| SSG3-75     | 75           |       | 100                  | 225        | 231          | 607            | 806                    | 61.9               | 82.2          |             |           |      |
| SSG3-80     | 80           |       | 100                  | 240        | 246          | 654            | 921                    | 66.7               | 93.9          |             |           |      |

- [Caution on Product Characteristics]**
- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.
  - 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.

- [Caution on Secondary Operations]**
- Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
  - Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



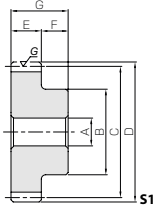
To order J Series products, please specify: **Catalog No. + J + BORE**

| Bore H7        | * The product shapes of J Series items are identified by background color. |         |    |    |    |         |    |    |          |    |          |    |          |    |
|----------------|--|---------|----|----|----|---------|----|----|----------|----|----------|----|----------|----|
|                | 16   | 17      | 18 | 19 | 20 | 22      | 25 | 28 | 30       | 32 | 35       | 40 | 45       | 50 |
| Keyway Js9     | 16   | 17      | 18 | 19 | 20 | 22      | 25 | 28 | 30       | 32 | 35       | 40 | 45       | 50 |
| Screw size     | 5 x 2.3  | 6 x 2.8 |    |    |    | 8 x 3.3 |    |    | 10 x 3.3 |    | 12 x 3.3 |    | 14 x 3.8 |    |
| Catalog No.    | M4   | M5      |    |    |    | M6      |    |    | M8       |    | M10      |    |          |    |
| SSG3-14 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-15 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-16 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-17 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-18 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-19 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-20 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-21 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-22 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-23 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-24 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-25 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-26 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-27 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-28 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-29 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-30 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-32 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-34 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-35 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-36 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-38 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-40 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-42 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-44 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-45 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-48 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-50 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-55 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-56 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-60 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-70 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-75 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |
| SSG3-80 J BORE |  |         |    |    |    |         |    |    |          |    |          |    |          |    |

- [Caution on J series]**
- As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
  - Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
  - Keyways are made according to JIS B1301 standards, Js9 tolerance.
  - Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.
  - Areas of products which have been re-worked will not be black oxide coated.
  - For products having a tapped hole, a set screw is included.



| Specifications  |   |
|-----------------|---|
| Precision grade | JIS grade N7 (JIS B1702-1: 1998)<br>JIS grade 3 (JIS B1702: 1978) |
| Gear teeth      | Standard full depth   |
| Pressure angle  | 20°   |
| Material        | S45C  |
| Heat treatment  | Tooth surface induction hardened                                  |
| Tooth hardness  | 50 ~ 60HRC  |



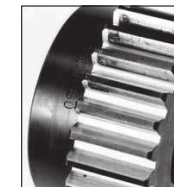
| Catalog No.    | Module | No. of teeth | Shape | Bore            |     | Pitch dia. | Outside dia. | Face width | Hub width |    | Total length |
|----------------|--------|--------------|-------|-----------------|-----|------------|--------------|------------|-----------|----|--------------|
|                |        |              |       | A <sub>H7</sub> | B   |            |              |            | C         | D  |              |
| <b>SSG4-14</b> | m4     | 14           | S1    | 20              | 40  | 56         | 64           | 40         | 25        | 65 |              |
| <b>SSG4-15</b> |        | 15           | S1    | 20              | 45  | 60         | 68           | 40         | 25        | 65 |              |
| <b>SSG4-16</b> |        | 16           | S1    | 20              | 50  | 64         | 72           | 40         | 25        | 65 |              |
| <b>SSG4-18</b> |        | 18           | S1    | 20              | 60  | 72         | 80           | 40         | 25        | 65 |              |
| <b>SSG4-20</b> |        | 20           | S1    | 20              | 65  | 80         | 88           | 40         | 25        | 65 |              |
| <b>SSG4-22</b> |        | 22           | S1    | 20              | 70  | 88         | 96           | 40         | 25        | 65 |              |
| <b>SSG4-24</b> |        | 24           | S1    | 20              | 75  | 96         | 104          | 40         | 25        | 65 |              |
| <b>SSG4-25</b> |        | 25           | S1    | 20              | 80  | 100        | 108          | 40         | 25        | 65 |              |
| <b>SSG4-28</b> |        | 28           | S1    | 20              | 85  | 112        | 120          | 40         | 25        | 65 |              |
| <b>SSG4-30</b> |        | 30           | S1    | 20              | 90  | 120        | 128          | 40         | 25        | 65 |              |
| <b>SSG4-32</b> |        | 32           | S1    | 25              | 90  | 128        | 136          | 40         | 25        | 65 |              |
| <b>SSG4-35</b> |        | 35           | S1    | 25              | 90  | 140        | 148          | 40         | 25        | 65 |              |
| <b>SSG4-36</b> |        | 36           | S1    | 25              | 90  | 144        | 152          | 40         | 25        | 65 |              |
| <b>SSG4-40</b> |        | 40           | S1    | 25              | 90  | 160        | 168          | 40         | 25        | 65 |              |
| <b>SSG4-42</b> |        | 42           | S1    | 25              | 90  | 168        | 176          | 40         | 25        | 65 |              |
| <b>SSG4-44</b> |        | 44           | S1    | 30              | 90  | 176        | 184          | 40         | 25        | 65 |              |
| <b>SSG4-45</b> |        | 45           | S1    | 30              | 90  | 180        | 188          | 40         | 25        | 65 |              |
| <b>SSG4-48</b> |        | 48           | S1    | 30              | 100 | 192        | 200          | 40         | 25        | 65 |              |
| <b>SSG4-50</b> |        | 50           | S1    | 30              | 100 | 200        | 208          | 40         | 25        | 65 |              |
| <b>SSG4-55</b> |        | 55           | S1    | 30              | 100 | 220        | 228          | 40         | 25        | 65 |              |
| <b>SSG4-56</b> | 56     | S1           | 30    | 110             | 224 | 232        | 40           | 25         | 65        |    |              |
| <b>SSG4-60</b> | 60     | S1           | 30    | 110             | 240 | 248        | 40           | 25         | 65        |    |              |
| <b>SSG5-20</b> | m5     | 20           | S1    | 25              | 82  | 100        | 110          | 50         | 25        | 75 |              |
| <b>SSG5-25</b> |        | 25           | S1    | 25              | 105 | 125        | 135          | 50         | 25        | 75 |              |
| <b>SSG5-30</b> |        | 30           | S1    | 25              | 120 | 150        | 160          | 50         | 25        | 75 |              |
| <b>SSG6-20</b> | m6     | 20           | S1    | 25              | 100 | 120        | 132          | 60         | 28        | 88 |              |
| <b>SSG6-25</b> |        | 25           | S1    | 30              | 125 | 150        | 162          | 60         | 28        | 88 |              |
| <b>SSG6-30</b> |        | 30           | S1    | 30              | 150 | 180        | 192          | 60         | 28        | 88 |              |

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.  
② 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.

\* For products not categorized in our KHK Stock Gear series, custom gear production services with **short lead times** is available. For details see Page 8.

| Allowable torque (N·m) |                    | Allowable torque (kgf·m) |                    | Backlash (mm) | Weight (kg) | Catalog No.    |
|------------------------|--------------------|--------------------------|--------------------|---------------|-------------|----------------|
| Bending strength       | Surface durability | Bending strength         | Surface durability |               |             |                |
| 176                    | 63.4               | 17.9                     | 6.47               | 0.14~0.24     | 0.86        | <b>SSG4-14</b> |
| 197                    | 74.1               | 20.1                     | 7.55               | 0.14~0.24     | 1.04        | <b>SSG4-15</b> |
| 218                    | 85.6               | 22.3                     | 8.73               | 0.14~0.24     | 1.24        | <b>SSG4-16</b> |
| 262                    | 111                | 26.7                     | 11.4               | 0.14~0.24     | 1.67        | <b>SSG4-18</b> |
| 307                    | 141                | 31.3                     | 14.3               | 0.14~0.24     | 2.07        | <b>SSG4-20</b> |
| 352                    | 174                | 35.9                     | 17.7               | 0.14~0.24     | 2.50        | <b>SSG4-22</b> |
| 368                    | 194                | 37.5                     | 19.8               | 0.14~0.24     | 2.98        | <b>SSG4-24</b> |
| 389                    | 213                | 39.7                     | 21.7               | 0.14~0.24     | 3.29        | <b>SSG4-25</b> |
| 455                    | 270                | 46.4                     | 27.5               | 0.16~0.26     | 4.05        | <b>SSG4-28</b> |
| 499                    | 313                | 50.9                     | 31.9               | 0.16~0.26     | 4.64        | <b>SSG4-30</b> |
| 544                    | 358                | 55.5                     | 36.5               | 0.16~0.26     | 5.04        | <b>SSG4-32</b> |
| 612                    | 432                | 62.4                     | 44.0               | 0.16~0.26     | 5.83        | <b>SSG4-35</b> |
| 634                    | 458                | 64.7                     | 46.7               | 0.16~0.26     | 6.11        | <b>SSG4-36</b> |
| 674                    | 529                | 68.7                     | 54.0               | 0.16~0.26     | 7.31        | <b>SSG4-40</b> |
| 717                    | 586                | 73.1                     | 59.7               | 0.16~0.26     | 7.96        | <b>SSG4-42</b> |
| 760                    | 646                | 77.5                     | 65.8               | 0.16~0.26     | 8.53        | <b>SSG4-44</b> |
| 781                    | 677                | 79.6                     | 69.0               | 0.16~0.26     | 8.88        | <b>SSG4-45</b> |
| 846                    | 774                | 86.3                     | 79.0               | 0.16~0.26     | 10.3        | <b>SSG4-48</b> |
| 889                    | 842                | 90.7                     | 85.9               | 0.16~0.26     | 11.0        | <b>SSG4-50</b> |
| 998                    | 1030               | 102                      | 105                | 0.16~0.26     | 13.1        | <b>SSG4-55</b> |
| 1020                   | 1060               | 104                      | 109                | 0.16~0.26     | 13.9        | <b>SSG4-56</b> |
| 1110                   | 1230               | 113                      | 125                | 0.16~0.26     | 15.7        | <b>SSG4-60</b> |
| 553                    | 259                | 56.4                     | 26.5               | 0.14~0.26     | 3.83        | <b>SSG5-20</b> |
| 760                    | 426                | 77.5                     | 43.4               | 0.18~0.30     | 6.23        | <b>SSG5-25</b> |
| 975                    | 623                | 99.4                     | 63.5               | 0.18~0.30     | 8.87        | <b>SSG5-30</b> |
| 955                    | 457                | 97.4                     | 46.6               | 0.18~0.30     | 6.71        | <b>SSG6-20</b> |
| 1310                   | 747                | 134                      | 76.2               | 0.18~0.30     | 10.5        | <b>SSG6-25</b> |
| 1560                   | 1020               | 160                      | 104                | 0.18~0.30     | 15.4        | <b>SSG6-30</b> |

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



■ Poor tooth contact occurred on SSG3-30 (Approx. 30% of the proper gear contact)

Gear Oil (Equivalent to JIS gear oil category 2 and No. 3)

The design conditions are load torque at 278 rpm, of 417N·m (12 kW), 1.5 times the allowable bending strength, and 3 times the allowable surface durability torque. The pitting occurs on the poor tooth contact area after only 60 hours of continuous operation.