## Ground Spur Gears

### Specifications
- Teeth module: 0.5, 0.8
- Material: S45C
- Pressure angle: 20°
- Standard face width
- Backlash: 0.00 to 0.04

### Catalog Number

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Module</th>
<th>No. of teeth</th>
<th>Shape</th>
<th>Module</th>
<th>Face width</th>
<th>Hub width</th>
<th>Total weight</th>
<th>Keyway</th>
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<tbody>
<tr>
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<td>30</td>
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### Table

<table>
<thead>
<tr>
<th>Socket head screw</th>
<th>Allowable torque (Nm)</th>
<th>Allowable torque (kgf-m)</th>
<th>Backlash (mm)</th>
<th>Weight (kg)</th>
<th>Catalog Number</th>
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<td>21.4</td>
<td>2.32</td>
<td>1.09</td>
<td>0.33</td>
</tr>
</tbody>
</table>

### Notes
- For products having a tapping hole, a set screw is included.
- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 38 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.
- When using S1T set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.
- Data in bold indicates the standard size.
# Ground Spur Gears

## Specifications
- **Application**: J Series
- **Material**: Steel (S45C, Hardened and Ground)
- **Teeth**: For spur gears, the teeth are induction hardened and have no secondary operations.
- **Backlash**: 0 to 0.035 mm

### Catalog Number
- **Catalog**: M4, M5, M6
- **Screw Size**: 4x1.8, 6x2.5

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

## The product shapes of J Series items are identified by background color.

<table>
<thead>
<tr>
<th>Command</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>22</th>
<th>25</th>
<th>28</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>M6</td>
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</tr>
</tbody>
</table>

**Caution:**
- As available-on-request products, these require a lead-time for shipping of 2 working days (excluding the day ordered).
- After placing an order, because the machining starts immediately, we cannot accept cancellations.
- Please see Page 34 for more details.

**Number of pieces we can process for one order is 1 to 20 units. For larger quantities, please request price and delivery quotes.**

**Keyways are made according to JIS B1301 standards, with tolerances.**

**Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.**

For details, please see the KHK Web Catalog.

**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.**

When using SET set screws for fastening gears to a shaft, only use this method for applications with tight load usage.

For secure fastening, please use dowel pins in combination.

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For updated data, please see the KHK Web Catalog.
### Ground Spur Gears

**Specifications**

- JIS grade N7, use for transmission
- Standard helical teeth
- Pressure angle: 20°
- Material: SSNC
- Gear teeth (inclination):
  - Gear teeth inclination: normal
- Back side coated except for teeth

**Backlash Calculation**

The table below provides backlash values for the specified gear sizes. For more detailed information, please refer to page 38.

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>No. of Teeth</th>
<th>Pitch Dia.</th>
<th>Backlash (mm)</th>
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</thead>
<tbody>
<tr>
<td>SSG15-14</td>
<td>14</td>
<td>21</td>
<td>2.5</td>
</tr>
<tr>
<td>SSG15-15</td>
<td>15</td>
<td>21.5</td>
<td>2.5</td>
</tr>
<tr>
<td>SSG15-16</td>
<td>16</td>
<td>22</td>
<td>2.5</td>
</tr>
<tr>
<td>SSG15-17</td>
<td>17</td>
<td>22.5</td>
<td>2.5</td>
</tr>
<tr>
<td>SSG15-18</td>
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<td>2.5</td>
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<td>SSG15-19</td>
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<td>2.5</td>
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<td>SSG15-23</td>
<td>23</td>
<td>25.5</td>
<td>2.5</td>
</tr>
<tr>
<td>SSG15-24</td>
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<td>26</td>
<td>2.5</td>
</tr>
<tr>
<td>SSG15-25</td>
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<tr>
<td>SSG15-28</td>
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<td>28</td>
<td>2.5</td>
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</table>

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

The table below provides dimensions for various bore sizes. For more detailed information, please refer to page 38.

<table>
<thead>
<tr>
<th>Screw Size</th>
<th>Diameter (mm)</th>
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</thead>
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<tr>
<td>M4</td>
<td>4.8</td>
</tr>
<tr>
<td>M5</td>
<td>5.5</td>
</tr>
<tr>
<td>M6</td>
<td>6.3</td>
</tr>
<tr>
<td>M8</td>
<td>8.0</td>
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</tbody>
</table>

**Other Products**

- Gearboxes
- Worm Gears
- Motor Gearboxes
- DC Gearboxes
- Other Products

For updated data, please see the KHS Web Catalog.
### Table: Bore or Screw Size of J Series Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Bore of Screw Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4</td>
<td>6x1.8</td>
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<tr>
<td>M5</td>
<td>6x3</td>
</tr>
<tr>
<td>M6</td>
<td>8x3</td>
</tr>
<tr>
<td>M8</td>
<td>10x3.5</td>
</tr>
<tr>
<td>M10</td>
<td>12x3.5</td>
</tr>
<tr>
<td>14x3.5</td>
<td>14x3.5</td>
</tr>
</tbody>
</table>

### Catalog No. J + J + BORE

- **J10**: 3/32" (0.095 mm) 0.095
- **J12**: 1/16" (0.063 mm) 0.063
- **J14**: 1/8" (0.125 mm) 0.125
- **J16**: 5/32" (0.156 mm) 0.156
- **J18**: 3/16" (0.188 mm) 0.188
- **J20**: 7/32" (0.222 mm) 0.222
- **J22**: 1/4" (0.250 mm) 0.250
- **J24**: 5/32" (0.313 mm) 0.313
- **J26**: 3/8" (0.375 mm) 0.375
- **J28**: 7/32" (0.438 mm) 0.438
- **J30**: 1/2" (0.500 mm) 0.500

### Notes

- The tables cover a range of module sizes and number of teeth.
- The tooth thickness ratio is a key factor in the selection of the gear.
- For detailed specifications, please see the KHK Web Catalog.

---

*For updated data, please see the KHK Web Catalog.*
<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Instrumentation</th>
<th>Quantity</th>
<th>Price</th>
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<td>12-120</td>
<td>PPR</td>
<td>0.1</td>
<td>65</td>
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<td>SSG 200</td>
<td>25-250</td>
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<td>PPR</td>
<td>0.3</td>
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</table>

**Notes:**
- All products are shipped from stock.
- Prices are subject to change without notice.
- Domestic orders are delivered within 7-10 days.
- International shipping costs vary depending on destination.

For updated information, please refer to our official catalog.
### Ground Spur Gears

#### Specifications:
- **JIS grade N** per JIS B1301-1981
- **Standard fillet depth**
- **Pressure angle** 20°
- **Material** S45C
- **Core steel reduction** Hardened
- **Finish coating** Black oxide coated except for teeth

---

#### Table: Catalog Number vs. Stock Position

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>No. of Teeth</th>
<th>Stock Position</th>
<th>Screw Size</th>
<th>In teeth</th>
<th>Pinion Size</th>
<th>Module</th>
<th>Pressure Angle</th>
<th>Stock Position</th>
<th>Stock Position</th>
<th>Stock Position</th>
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<td>4.9</td>
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<td>20</td>
<td>20</td>
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<td>20</td>
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</tbody>
</table>

---

#### Diagram:

![Diagram of Ground Spur Gears](image)

---

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

---

#### Notes:
- **Cautions on Series J**:
  - As available-on-request products, there require a lead-time for shipping of 2 working days (except the day ordered), after placing an order. Because the machining starts immediately, we cannot accept cancellations. Please see Page 34 for more details.
  - Number of pieces we can process for one order is 1 to 20 units. For larger quantities, please request price and delivery quotes.
  - Keyways are made according to JIS E2574 standards.
  - Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.
  - For details, please see the KHK Web Catalog.
  - 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.

---

For updated data, please see the KHK Web Catalog.
### Ground Spur Gears

#### Specifications
- Precision grade: J
- Gear teeth: Standard depth
- Pressure angle: 20°
- Module: 4 to 6
- Hardness: 58 to 60 HRC
- Surface treatment: Black case carburized for better wear resistance compared with other types.

* The precision grade of J Series products is equivalent to the value shown by the italic.

---

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

- The product shapes of J Series items are identified by background color.

---

#### Table: J Series Gear Catalog

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<thead>
<tr>
<th>Catalog Number</th>
<th>Gear Teeth</th>
<th>Diameter</th>
<th>Backlash</th>
<th>Weight</th>
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</thead>
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<td>0.79</td>
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<td>72</td>
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**Attention to Suppliers:**
- All the tables shown in the table are calculated values according to the assumed usage condition. Please see Page 38 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.
- Products with 5 at the end of the Catalog No. are semi-custom stock products. The number of orders must be 5 or less, and the delivery will take about 25 business days after the order is received.
- Please see Page 34 for more details.
- For semi-custom standard products weighing 15 kg or more, eyebolt mounting screws (M12 depth 25 mm) are machined.
- Confirm the PCD of the screw on the website.

**Attention to Secondary Users:**
- Please read "Cautions on Performing Secondary Operations" on Page 42 when performing modifications or/and secondary operations for safety concerns.
- Quick-Mnt-Gears, the KHI system for quick modification of KHI 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).

---

**Updated data, please see the KHI Web Catalog.**
<table>
<thead>
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<th>Catalog Number</th>
<th>No. Teeth</th>
<th>Diam.</th>
<th>Pitch</th>
<th>Spur Arc</th>
<th>Teeth on 10° Bevel</th>
<th>Teeth on 20° Bevel</th>
<th>Backlash (mm)</th>
<th>Weight (kg)</th>
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<tbody>
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<td>20°</td>
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</table>

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

**Catalog No.**

- **Class Size:** M8, M10, M12, M16, M20

**Keyway Sizes:**

- 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 120, 130, 140

**Ordering Information:**

- SSG-J20 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J25 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J30 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J35 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J40 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J45 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J50 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J55 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J60 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J65 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J70 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J75 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J80 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J85 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J90 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J95 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J100 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J105 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J110 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J115 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J120 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J125 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J130 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K
- SSG-J135 BORE 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K 15K

**Cautions on J Series**

- J series inventory products with module 4 or higher require a lead-time of 7 working days excluding the day ordered.
- Because the machining starts immediately, we cannot accept cancellations.
- Semi-custom J series products take about 30 business days after the order is received.

**Cautions on and**

- For semi-custom standard products weighing 15 kg or more, eyebolt mounting screws (M14 x 35 mm) are machined with the product. For details, please refer to the KNK-Web Catalog.
- Areas of products which have been re-worked will not be black oxide coated.
### Ground Spur Gears

**Catalog Specifications**

- **JIS grade N** grade is shown.
- **Standard stock** is shown.
- **Material**: S45C
- **Gear teeth induction hardened** to 50 to 60HRC

---

#### Table 1: J Series Specifications

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<th>S1</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Gear Tooth (m)</th>
<th>Tooth Pressure Angle (°</th>
<th>Tooth Form</th>
<th>Tooth Profile</th>
<th>Root Form</th>
<th>Root Profile</th>
<th>Tooth Width (mm)</th>
<th>Tooth Root (mm)</th>
<th>Tooth Root Radius (mm)</th>
<th>Tooth Fillet Radius (mm)</th>
<th>Backlash (mm)</th>
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**To order J Series products, please specify:** Catalog No. + J + BORE.

#### Catalog No.

- **M6**
- **M8**
- **M10**
- **M12**
- **M16**
- **M20**

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**Notes:**

- **Semi-custom J Series products take about 35 working days after the order is received.** Please see Page 34 for more details.
- **Products with module 4 or higher can be ordered up to 5 units.**
- **Keyways are made according to JIS B1301 standards, +0.05 tolerance.**
- **Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.**
- **For details, please see the KHK Web Catalog.**
- **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.**

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[For updated data, please see the KHK Web Catalog.](#)