**Screw Gears**

**S Series (spiral gear)**

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<th>Specifications</th>
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| Black oxide coating |

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

---

### Catalog Number

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<th>Direction of spiral</th>
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1. When mating screw gears are made of the same material, they may cause abrasion and scoring. It is recommended to mate screw gears composed of different materials.
2. The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 342 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. For offset shaft applications, match a RH with a RH, or LH with a LH, to make a set of screw gears. For parallel shaft applications, mesh opposite hands (RH and LH) of helical gear sets. Please see Page 342 for more details.
5. If the bore diameter is less than 4, the bore tolerance class is H7. If the bore diameter is 5 or 6, and the hole length (total length) exceeds 3 times the diameter, then the class is H8.
6. Please read “Cautions on Performing Secondary Operations” (Page 343) when performing modifications and/or secondary operations for safety concerns. KHK’s Quick-Mod Gears, the KHK system for quick modification of KHK stock gears, is also available.
7. Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

---

You can download CAD data (DXF format) of KHK Products from the Web Catalog.
**SN Screw Gears (spiral gear)**

### Specifications

- **Precision grade:** JIS grade H9 (ES9 IT7.5 to 1 IT10.5)
- **Normal plane:**
  - Gear teeth: Standard full depth
  - Pressure angle: 20°
  - Module: 45°
- **Material:** S45C
- **Finish:** Black oxide coating

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

---

### Outside dia.

- 110 mm

---

### a pair of

- 48.43 mm

---

### R

- 96.92 mm

---

### M10

- 50 mm

---

### Backlash

- 0.1 mm

---

### Normal direction of k modification of KH

- 55.15 mm

---

### ①

- 20 mm

---

### 12×3.3

- 4×1.8

---

### Backlash

- 30 mm

---

### M5

- 10×3.3

---

### M8

- 18

---

### Screw size

- M4

---

### M8

- 30

---

### Other products

- Screw Gears

---

### CP rack & pinion

- Screw Gears

---

### Helical Gears

- Gear Pairs

---

### Spur Gears

- Other products

---

### Other products

- Spur Gears

---

### Other products

- Spur Gears

---

### Other products

- Spur Gears

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### Other products

- Spur Gears

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