### Spur Gears

#### Plastic Spur Gears with Stainless Steel Core

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#### Specifications

- **Material:** SUS303
- **Hardness:** HB 300
- **Surface Finish:** Ra 0.4
- **Precision grade:** JIS grade N9 (JIS B1702:1976)
- **Module:** 1, 1.5, 2
- **Number of Teeth:** 10 to 150
- **Pitch Diameter:** 20 to 270 mm
- **Allowable Torque:** 0 to 1.6 N·m
- **Backlash:** 0.2 to 0.5 mm

#### Table: Spur Gears

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<thead>
<tr>
<th>Catalog No.</th>
<th>Spur No.</th>
<th>Pitch Dia.</th>
<th>Bore Hub Dia.</th>
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#### Notes on Secondary Operations

- Always handle the gear parts with appropriate care to ensure their quality and performance.
- When handling the gear parts, always wear protective gloves and glasses to prevent injury.
- Store the gear parts in a clean and dust-free environment to maintain their quality.

#### Other Products

- **Miter Gears**
- **Helical Gears**
- **Internal Gears**

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**How is MC nylon fused to the metal core**

1. The fabric of the gear core is formed by winding the nylon tape around a metal core.
2. The nylon tape is then fused to the metal core through a high-temperature process.
3. This process ensures that the nylon tape is securely bonded to the metal core, providing a high-performance gear core.

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**Cautions for Use**

- **Avoid excessive loads:** Excessive loads can cause the gear parts to fail prematurely.
- **Keep the gear parts clean:** Keep the gear parts clean to prevent dust and debris from accumulating, which can lead to premature failure.
- **Use proper lubrication:** Proper lubrication is essential for maintaining the efficiency and longevity of the gear parts.

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**Dimensional Accuracy**

- The gear parts are manufactured to precise tolerances to ensure optimal performance and longevity.
- Regular maintenance and inspection are recommended to ensure the gear parts are functioning properly.

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**Technical Specifications**

- **Material:** SUS303 stainless steel
- **Hardness:** HB 300
- **Surface Finish:** Ra 0.4
- **Precision grade:** JIS grade N9 (JIS B1702:1976)
- **Module:** 1, 1.5, 2
- **Number of Teeth:** 10 to 150
- **Pitch Diameter:** 20 to 270 mm
- **Allowable Torque:** 0 to 1.6 N·m
- **Backlash:** 0.2 to 0.5 mm

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**Ordering Information**

- **Catalog No.**
  - PU1-30 JH0
  - PU1-35 JH0
  - PU1-40 JH0
  - PU1-50 JH0
  - PU1-60 JH0
  - PU1-80 JH0
  - PU1.5-30 JH0
  - PU1.5-35 JH0
  - PU1.5-40 JH0
  - PU1.5-50 JH0
  - PU1.5-60 JH0
  - PU1.5-80 JH0
  - PU2-30 JH0
  - PU2-35 JH0
  - PU2-40 JH0
  - PU2-50 JH0
  - PU2-60 JH0

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**Advantages of MC nylon**

- **High toughness:** MC nylon can withstand high-impact forces without breaking or cracking.
- **High tensile strength:** MC nylon has a high tensile strength, making it suitable for high-stress applications.
- **Excellent wear resistance:** MC nylon is resistant to wear, reducing the need for frequent replacement.

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**Applications**

- **Gearboxes:** MC nylon is used in gearboxes to provide smooth transmission of power.
- **Automotive:** MC nylon is used in automotive applications for its high wear resistance and easy maintenance.
- **Industrial machinery:** MC nylon is used in industrial machinery for its high toughness and high tensile strength.

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**Conclusion**

MC nylon is a versatile material that is widely used in various applications due to its excellent properties and performance. Its use in gear parts provides a reliable and durable solution for high-stress applications.