AxleTech International's 4000 Series ISAS is specifically designed for applications requiring high-mobility and maneuverability. Our double-wishbone design allows for unrivaled ride control and handling with superior cross-country mobility and safety in all operating environments. The 4000 Series ISAS axle capacity ranges from 14,350 to 23,620 lbs. (6,500 to 10,700 kg). Independent Suspension Module (ISM) configurations are available on this series.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Double-wishbone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rating (lbs. (kg))</strong></td>
<td>14,350 to 23,620 (6,500 to 10,700)</td>
</tr>
<tr>
<td><strong>Axle weight (lbs. (kg))</strong></td>
<td>2,205 to 2,425 (1,000 to 1,100)</td>
</tr>
<tr>
<td><strong>Axle type</strong></td>
<td>Full-floating, front driving, steering</td>
</tr>
<tr>
<td><strong>Axle ratios</strong></td>
<td>3.9 to 28.0</td>
</tr>
<tr>
<td><strong>Planetary ratios</strong></td>
<td>3.55, 4, 4.28, 4.63</td>
</tr>
<tr>
<td><strong>Differential</strong></td>
<td>Standard, Limited Slip, Differential Lock</td>
</tr>
<tr>
<td><strong>Wheel mount (inches (mm))</strong></td>
<td>Hub piloted 10 Stud - 13.19 BC (335), 10 Stud - 11.25 BC (285)</td>
</tr>
<tr>
<td><strong>Brakes</strong></td>
<td>Hydraulic drum brake, Air and hydraulic disc brake, Wedge brake</td>
</tr>
<tr>
<td><strong>Springs</strong></td>
<td>Variety of progressive rate coil springs, air/coil or hydraulic struts</td>
</tr>
<tr>
<td><strong>Shock</strong></td>
<td>High capacity hydraulic or air struts</td>
</tr>
<tr>
<td><strong>Total wheel travel (inches (mm))</strong></td>
<td>13.8 (350)</td>
</tr>
<tr>
<td><strong>Ground clearance at center (inches (mm))</strong></td>
<td>15.4 (392) (with tire 365/85R20)</td>
</tr>
<tr>
<td><strong>Minimum rim size (inches (mm))</strong></td>
<td>20, 22.5 (508, 572)</td>
</tr>
<tr>
<td><strong>Hub flange to flange (inches (mm))</strong></td>
<td>89.4, 93.8 (2.280, 2.383)</td>
</tr>
<tr>
<td><strong>Track (inches (m))</strong></td>
<td>83, 84, 86, 87, 91 (2.11, 2.13, 2.18, 2.21, 2.31)</td>
</tr>
<tr>
<td><strong>Pinion joint series</strong></td>
<td>KV 150, KV 180, SAE 1710 or 1810, 16 TYS or 17 TYS, MECH 6C, 7C or 8.5C</td>
</tr>
<tr>
<td><strong>Steering joint type</strong></td>
<td>Double cardan</td>
</tr>
<tr>
<td><strong>Max steering angles</strong></td>
<td>35°</td>
</tr>
<tr>
<td><strong>Camber</strong></td>
<td>0° - 0.5°</td>
</tr>
<tr>
<td><strong>King pin inclination</strong></td>
<td>8°</td>
</tr>
<tr>
<td><strong>ABS hub compatibility</strong></td>
<td>Standard</td>
</tr>
<tr>
<td><strong>Tire inflation</strong></td>
<td>CTIS compatible</td>
</tr>
<tr>
<td><strong>Input rotation</strong></td>
<td>Clockwise, Counterclockwise</td>
</tr>
</tbody>
</table>
AxleTech International’s industry-leading Independent Suspension Axle Systems (ISAS™) are the optimal drivetrain solutions for applications requiring high-mobility and maneuverability. Our double-wishbone design provides unrivaled ride control and handling with superior cross-country mobility and safety in all operating environments. Our products have proven field performance around the world through vigorous testing and exceptional engineering.

**PROTECTION**
Better control in rough terrain through improved steering and maximum tire-to-ground contact and suspension flexibility.

**PAYLOAD**
Axle capacity ranges from 3,300 to 29,000 lbs. (1,500 to 13,200 kg).

**PERFORMANCE**
Average cross-country speed gain is 2-3 times faster than standard beam axles.

## PRODUCT LINE OVERVIEW

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## PRODUCT LINE

**2000 Series ISAS**
Light Duty Applications (4x4)
3,300 to 7,700 lbs. (1,500 to 3,500 kg) axle capacity

**3000/3400 Series ISAS**
Light Duty Applications (4x4, 6x6, 8x8)
7,700 to 11,040 lbs. (3,500 to 5,000 kg) - 3000 Series ISAS with 3000 series carrier
11,040 to 14,300 lbs. (5,000 to 6,500 kg) - 3400 Series ISAS with 4000 series carrier

**4000/4500 Series ISAS**
Medium Duty Applications (4x4, 6x6, 8x8)
14,350 to 19,870 lbs. (6,500 to 9,000 kg) - 4000 Series ISAS with 90mm spindle
19,870 to 23,620 lbs. (9,000 to 10,700 kg) - 4500 Series ISAS with 100mm spindle

**5000 Series ISAS**
Heavy Duty Applications (4x4, 6x6, 8x8)
22,075 to 29,000 lbs. (10,000 to 13,200 kg) axle capacity

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**NOTE:** Independent Suspension Module (ISM) configurations are available on the 2000, 3000, 4000, and 5000 series. Portal wheel end options are available for the 2000 and 3000 series. Steering system can be designed and supplied for each application (except steering box).

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