AxleTech International is a global manufacturer of drivetrain systems and components serving the heavy-duty commercial and defense markets. With a legacy going back over 100 years, we have the knowledge and expertise to provide engineered OE solutions to specialty vehicle manufacturers. Our products have earned a reputation for dependability and performance, and we continue to set the standard for quality and enduring value.

www.axletech.com
AxleTech International is an original equipment supplier of braking products for off-highway and on-highway applications. We offer a wide range of assemblies and components within the brake and wheel end systems for a variety of brakes, including:

- Air disc brakes
- Cam brakes
- Combination brakes (service & parking)
- Hydraulic dry disc brakes
- Hydraulic wet disc brakes
- Wedge brakes
- Park brakes

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### FEATURES & BENEFITS

- Cast spider and fabricated brake shoe standard
- Quick change brake shoes for faster and easier maintainability when servicing the brakes
- Optimized geometry of friction linings provides additional wearable friction material
- Availability of heavy-duty fabricated shoes for limited deflection and optimized performance
- 0.906"*, 1.75", and 2.5"* offset options fit most applications
- Slack adjuster length availability: 5.5", 6.0", 6.5", and 7.0"
- Service and spring brake actuators available: 24", 30", and 36"
- Chamber bracket and remote mounting options for actuator attachment provide packaging flexibility
- Selection of friction materials available for different vocations

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Brake Size</th>
<th>Shoe Width</th>
<th>Friction Lining</th>
<th>Nominal Torque Lbf.in (kN.m)</th>
<th>Min. Wheel Size</th>
<th>GAWR Range 000's lbs (Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5 (419)</td>
<td>5 (139)</td>
<td>4720</td>
<td>10.0 to 14.0 (4.5 to 6.3)</td>
<td>22.5 (571)</td>
<td>173,000 (19.5)*</td>
</tr>
<tr>
<td></td>
<td>6 (152)</td>
<td>4715</td>
<td>14.0 to 20.0 (6.3 to 9.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 (178)</td>
<td>4707</td>
<td>17.0 to 23.0 (7.7 to 10.4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 (178) HD**</td>
<td>4707</td>
<td>17.0 to 26.0 (10.4 to 11.8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.625 (219)</td>
<td>4711</td>
<td>17.0 to 25.0 (10.4 to 11.3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Typical Applications: Off Highway Trucks, Refuse Trucks, Lift Trucks, Terminal Trucks, Fire Rescue Trucks

* Torque values for reference only; may vary depending on friction, actuator and slack adjuster size, as well as input pressure.
** Heavy-duty shoe
- Configuration to be determined based on vehicle application.

### FEATURES & BENEFITS

- Cast spider standard
- Cast shoe for improved stiffness and limited deflection when compared to fabricated shoes
- 1.75"* and 2.5"* offset available for 16.5"* and 18" sizes
- 0.81" offset standard for 20.25" size
- Slack adjuster length availability: 5.5", 6.0", 6.5", 7.0", and 8.0"
- Service and spring brake actuators availability: 24", 30", and 36"
- Chamber bracket and remote mounting options for actuator attachment provide packaging flexibility
- Selection of friction materials available for different vocations

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Brake Size</th>
<th>Shoe Width</th>
<th>Friction Lining</th>
<th>Nominal Torque Lbf.in (kN.m)</th>
<th>Min. Wheel Size</th>
<th>GAWR Range 000's lbs (Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5 (419)</td>
<td>6 (152)</td>
<td>4715A</td>
<td>190,000 (21.4)*</td>
<td>22.5 (571)</td>
<td>14.0 to 20.0 (6.3 to 9.0)</td>
</tr>
<tr>
<td></td>
<td>7 (178)</td>
<td>4515G</td>
<td>25.0 to 30.0 (11.3 to 13.6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.625 (219)</td>
<td>4728</td>
<td>23.0 to 30.0 (10.4 to 13.6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 (457)</td>
<td>7 (178)</td>
<td>4669</td>
<td>210,000 (23.7)*</td>
<td>24.0 (609)</td>
<td>25.0 to 30.0 (11.3 to 13.6)</td>
</tr>
<tr>
<td>20.25 (514)</td>
<td>5 (127)</td>
<td>4470</td>
<td>260,000 (29.3)*</td>
<td>25.0 (635)</td>
<td>Up to 90.0 (Up to 40.8)</td>
</tr>
<tr>
<td></td>
<td>7 (178)</td>
<td>4462A</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Typical Applications: 16.5"* - Transit Buses, Coach Buses, Mining Trucks 18"* - Fertilizer Spreaders and other Agricultural Equipment 20.25"* - Dump Trucks, Rough Terrain Cranes, Heavy Haulers

* Torque values for reference only; may vary depending on friction, actuator and slack adjuster size, as well as input pressure.
- Configuration to be determined based on vehicle application.
**DRUM BRAKES**

**WEDGE 15" & 410 MM**

### FEATURES & BENEFITS
- Fabricated shoe standard
- Single and double actuation provide the ability to increase torque in same size brake package
- Air or hydraulic actuation availability
- Integral automatic adjustment eliminates the need for an externally mounted slack adjuster
- Floating shoe system loads the drum equally optimizing wear of braking lining and drum life (double actuated option)
- 12°, 14° and 16° wedge angles available
- Selection of friction materials available for different vocations

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Brake Size Inches (mm)</th>
<th>Shoe Width Inches (mm)</th>
<th>Friction Lining FMSI number</th>
<th>Nominal Torque Lbf.in (kN.m)</th>
<th>Min. Wheel Size Inches (mm)</th>
<th>GAWR Range 000's lbs (Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 (381)</td>
<td>4 (102)</td>
<td>4610</td>
<td>170,000 (19.2)*</td>
<td>19.5 (495)</td>
<td>Up to 24.0 (Up to 10.8)</td>
</tr>
<tr>
<td></td>
<td>5 (127)</td>
<td>4615</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 (152)</td>
<td>4605</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>7 (178)</td>
<td>4602</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.1 (410)</td>
<td>7.1 (180)</td>
<td>–</td>
<td>185,000 (20.9)*</td>
<td>20 (508)</td>
<td>Up to 29.0** (Up to 13.1)</td>
</tr>
<tr>
<td></td>
<td>7.9 (200)</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Typical Applications**
- Medium Duty, Off-Highway Trucks, Armored Security Vehicles, and Armored Personnel Carriers

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**HYDRAULIC DISC BRAKES**

### OFF-HIGHWAY & SPECIALTY

### FEATURES & BENEFITS
- Opposed piston fixed caliper offers superior stopping power
- High torque capacity brakes for low speed applications
- Unhanded caliper design
- Mineral oil standard - HDM (Automotive DOT 3/4 optional - HDA)
- Selection of friction materials available for different vocations

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of pistons x Diameter mm</th>
<th>Max. Torque Lbf.in (kN.m)</th>
<th>Disc dia. Inches (mm)</th>
<th>Disc rotor thickness Inches (mm)</th>
<th>Max. working Pressure PSI (bar)</th>
<th>TYP. Wheel Size Inch (mm)</th>
<th>GAWR Range 000's lbs (Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDM 4x76</td>
<td>4 x 76</td>
<td>182,000* (20.5)</td>
<td>16 – 25</td>
<td>43.16</td>
<td>2300 (159)</td>
<td>25 (635)</td>
<td>Up to 60.0 (Up to 27.2)</td>
</tr>
<tr>
<td>HDM 6x76</td>
<td>6 x 76</td>
<td>300,000* (33.9)</td>
<td>18.5 – 22 (470 – 558)</td>
<td>1.58 (40)</td>
<td>2500 (172)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Typical Applications**
- HDM 4x76 - Log Skidders, Articulated Haulers, Log Loaders, and Snow Blowers
- HDM 6x76 - Loaders and Articulated Haulers

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* Torque values for reference only; may vary depending on friction, rotor size and input pressure.
** Higher GAWR for off-highway applications.
- Configuration to be determined based on vehicle application.

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* Torque values for reference only; may vary depending on friction, actuator size, wedge angle and input pressure.
** Higher GAWR for off-highway applications.
- Configuration to be determined based on vehicle application.
AIR DISC BRAKES

ADB 385 & ADB 392

FEATURES & BENEFITS

- Twin piston eccentric actuation design sliding caliper. Design optimizes clamp force distribution on inner pad.
- Internal adjustment mechanism eliminates the need for an externally mounted slack adjuster
- Compact design - easier to install and allows inboard application
- Allows different angular positions for actuator attachment providing packaging adaptability
- Lined for life
- Radial lift-out lining pads facilitates serviceability
- Selection of friction materials available for different vocations
- Can be used as a driveline parking brake mounted on carrier

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Application</th>
<th>Nominal Torque Lbf.in (kN.m)</th>
<th>Disc dia. (Inches (mm))</th>
<th>Disc rotor thickness (Inches (mm))</th>
<th>Max. working Pressure PSI (bar)</th>
<th>Wheel Size Inch (mm)</th>
<th>GAWR Range 000’s lbs (Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADB385 Wheel End Brake</td>
<td>142,000 (14)*</td>
<td>15.1 (385)</td>
<td>1.75 (45)</td>
<td>116 (8)</td>
<td>19.5 (495)</td>
<td>Up to 29.0 (Up to 13.1)</td>
<td></td>
</tr>
<tr>
<td>ADB392 Inboard Brake</td>
<td>15.4 (392)</td>
<td>1.75 (45)</td>
<td>116 (8)</td>
<td>19.5 (495)</td>
<td>Up to 29.0 (Up to 13.1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Typical Applications

Air Disc Brake ADB385 - Outboard (wheel end) mounting
Independent Suspensions / Tactical Vehicles

Air Disc Brake ADB392 - Inboard mounting
Independent Suspensions / Tactical Vehicles

* Torque value for reference only; may vary depending on friction, rotor size and input pressure.
- Configuration to be determined based on vehicle application.

PARKING BRAKES

SAHR90 & ADB420

FEATURES & BENEFITS

- Wide variety of applications including On-highway and Off-highway
- Wide range of GAWR
- Combination of 2 SAHR brakes can be applied for heavier applications
- Mineral oil standard – Automotive oil compatibility optional for SAHR 90
- Three mounting position available to allow flexibility when packaging the brake
- Carrier mounted

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Disc Diameter Inches (mm)</th>
<th>Disc rotor thickness Inches (mm)</th>
<th>Max Clamp Force Ldf.in (kN.m)</th>
<th>Max. Actuation Pressure Inches (mm)</th>
<th>Mounting Position (O’clock)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAHR 90</td>
<td>10 - 23.6 (254 - 600)</td>
<td>0.5 (12.7)</td>
<td>7,600 (34.0)</td>
<td>1,500 (100)</td>
<td>Carrier mounted 3, 9, or 12</td>
</tr>
<tr>
<td>ADB420</td>
<td>16.5 (420)</td>
<td>1.0 (25.4)</td>
<td>37,000 (164.0)</td>
<td>1,675 (115)</td>
<td>- Hydraulic 70 (4.8) - Air actuated</td>
</tr>
</tbody>
</table>

Typical Applications

Driveline Parking Brake / Carrier Mounted
WET DISC BRAKES

W3H & W4H

FEATURES & BENEFITS

- Multiple disc set-up
- Ideal for high torque and heavy load capacities in extreme environments
- Oil cooled; provides better heat dissipation
- Brakes work in a protected environment in a bath of oil, preventing rust of components
- Requires less adjustment and maintenance over time (when compared to dry brakes)
- Integrated to Axle (not unit mount) – Designed for AxleTech Axles. Require AxleTech and customer design to fit application

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Brake Diameter</th>
<th>Max. Number of Friction Plates</th>
<th>Nominal Torque</th>
<th>Max. Actuation Pressure</th>
<th>Minimum Wheel Size</th>
<th>GAWR Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inches (mm)</td>
<td></td>
<td>Lbf.in (kN.m)</td>
<td>PSI (bar)</td>
<td>Inch (mm)</td>
<td>000's lbs.</td>
</tr>
<tr>
<td>W3H</td>
<td>14.1 (360)</td>
<td>6</td>
<td>198,000 to 375,000 (22.3 to 42.3)</td>
<td>1,800 (124)</td>
<td>20 (508)</td>
<td>110.0 (50.0)</td>
</tr>
<tr>
<td>W4H</td>
<td>17 (432)</td>
<td>10</td>
<td>598,000 (67.5)</td>
<td>1,500 (24 – 103)</td>
<td>24 (610)</td>
<td>245.0 (111.0)</td>
</tr>
</tbody>
</table>

Typical Applications

Wet Disc Brake W3H - Empty Container Handlers, Tow Tractors, Log Loaders, and Log Skidders
OUR HERITAGE

Over 100 Years of Industry Experience

MANUFACTURING FACILITIES