MASCOT®
Radial Piston Hydraulic Motor

LD Series  MD Series  MDS Series  820 Series  HD Series
LD Series Hydraulic Motors are developed for high speed applications and perform with high efficiency in tough conditions. These motors find use mainly in Belt conveyors, Side Arm Charger, Slew Drive and Paddle Feeder. The compact size, light weight and ease of installation make these motors highly suited for mobile applications. Several mounting options are available for high radial load applications.

The axial load capacity of our LD Series motors is high. This makes them very suitable for use in Paddle Feeder Wheel Drive and other applications where axial forces are high. Parking brake at the front of the motor ensures high holding torque.

**Options**
- Customized shaft
- Integral multi plate disc brake
- High speed versions
- Double shaft
- Super low noise
- Corrosion resistant material
- Through hole shaft of various sizes
- Custom finish
- Deep water submersible
- Non magnetic material
- Dual displacement

**Features**
- Long life
- High mechanical efficiency
- Constant torque output
- Smooth low speed performance<1rpm
- Resistance to thermal shock
- Double shaft sealing
- Shrink disc coupling
- Shaft or flange mounting
- Shock resistance
- Low noise

**METRIC**

<table>
<thead>
<tr>
<th>MOTOR SIZE</th>
<th>DISP(*) PER REV</th>
<th>TORQUE (THEORETICAL)</th>
<th>TORQUE MAX</th>
<th>SPEED RATED</th>
<th>SPEED MAX**</th>
<th>PRESSURE RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 3.2</td>
<td>3270</td>
<td>51 NM/BAR</td>
<td>16830</td>
<td>110 RPM</td>
<td>180 RPM</td>
<td>345 BAR</td>
</tr>
<tr>
<td>HM 3.9</td>
<td>3930</td>
<td>62 NM/BAR</td>
<td>20460</td>
<td>110 RPM</td>
<td>180 RPM</td>
<td>345 BAR</td>
</tr>
<tr>
<td>HM 5.0</td>
<td>5070</td>
<td>81 NM/BAR</td>
<td>26730</td>
<td>140 RPM</td>
<td>220 RPM</td>
<td>345 BAR</td>
</tr>
<tr>
<td>HM 6.0</td>
<td>6180</td>
<td>98.2 NM/BAR</td>
<td>32406</td>
<td>120 RPM</td>
<td>190 RPM</td>
<td>345 BAR</td>
</tr>
<tr>
<td>HM 6.5</td>
<td>6580</td>
<td>104.6 NM/BAR</td>
<td>34320</td>
<td>100 RPM</td>
<td>160 RPM</td>
<td>345 BAR</td>
</tr>
<tr>
<td>HM 7.5</td>
<td>7530</td>
<td>120 NM/BAR</td>
<td>39600</td>
<td>100 RPM</td>
<td>160 RPM</td>
<td>345 BAR</td>
</tr>
<tr>
<td>HM 9.0</td>
<td>9080</td>
<td>144 NM/BAR</td>
<td>47520</td>
<td>80 RPM</td>
<td>120 RPM</td>
<td>345 BAR</td>
</tr>
</tbody>
</table>

**SPECIFICATION**

- **(*)** High speed version upon request.
- **Any other displacement upon request.**
LD series

Motors with shrink disc coupling

Hollow shaft motors with female splines
## Motors with shrink disc coupling

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>A (MM)</th>
<th>B (MM)</th>
<th>DW (MM)</th>
<th>E (MM)</th>
<th>F (MM)</th>
<th>G (MM)</th>
<th>Weight (Kg)</th>
<th>Main Connec (A1, A2, C1, C2)</th>
<th>Drain Connec (D1, D2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 3.9-5.0</td>
<td>650</td>
<td>725</td>
<td>120</td>
<td>259</td>
<td>313</td>
<td>693</td>
<td>495</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 6.0</td>
<td>650</td>
<td>767</td>
<td>140</td>
<td>301</td>
<td>313</td>
<td>735</td>
<td>518</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 6.5</td>
<td>650</td>
<td>767</td>
<td>140</td>
<td>301</td>
<td>313</td>
<td>735</td>
<td>542</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 7.5</td>
<td>650</td>
<td>767</td>
<td>140</td>
<td>301</td>
<td>313</td>
<td>735</td>
<td>561</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 9.0</td>
<td>650</td>
<td>965</td>
<td>140</td>
<td>290</td>
<td>520</td>
<td>932</td>
<td>618</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
</tbody>
</table>

## Hollow shaft motors with female splines

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>A (MM)</th>
<th>B (MM)</th>
<th>C</th>
<th>D (MM)</th>
<th>E (MM)</th>
<th>F (MM)</th>
<th>Weight (Kg)</th>
<th>Main Connec (A1, A2, C1, C2)</th>
<th>Drain Connec (D1, D2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 3.9-5.0</td>
<td>650</td>
<td>651</td>
<td>N120x5x30x22x9H</td>
<td>185</td>
<td>313</td>
<td>619</td>
<td>481</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 6.0</td>
<td>650</td>
<td>671</td>
<td>N140x5x30x26x9H</td>
<td>205</td>
<td>313</td>
<td>639</td>
<td>498</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 6.5</td>
<td>650</td>
<td>671</td>
<td>N140x5x30x26x9H</td>
<td>205</td>
<td>313</td>
<td>639</td>
<td>522</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 7.5</td>
<td>650</td>
<td>671</td>
<td>N140x5x30x26x9H</td>
<td>205</td>
<td>313</td>
<td>639</td>
<td>535</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
<tr>
<td>HM 9.0</td>
<td>650</td>
<td>890</td>
<td>N140x5x30x26x9H</td>
<td>238</td>
<td>520</td>
<td>850</td>
<td>578</td>
<td>SAE 1 ¼&quot;&quot;</td>
<td>BSP ¼&quot;&quot;</td>
</tr>
</tbody>
</table>
Hollow shaft motors with male splines

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>A(MM)</th>
<th>B(MM)</th>
<th>dw</th>
<th>D(MM)</th>
<th>E(MM)</th>
<th>F(MM)</th>
<th>Weight (Kg)</th>
<th>Main Connect (A1,A2,C1,C2)</th>
<th>Drain Connect (D1,D2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 3.9-5.0</td>
<td>650</td>
<td>725</td>
<td>N140x5x26x26x9F</td>
<td>259</td>
<td>313</td>
<td>693</td>
<td>463</td>
<td>SAE 1 ¼”</td>
<td>BSP ¾”</td>
</tr>
<tr>
<td>HM 6.0</td>
<td>650</td>
<td>725</td>
<td>N140x5x26x26x9F</td>
<td>259</td>
<td>313</td>
<td>693</td>
<td>484</td>
<td>SAE 1 ¼”</td>
<td>BSP ¾”</td>
</tr>
<tr>
<td>HM 6.5</td>
<td>650</td>
<td>767</td>
<td>N160x5x30x26x9F</td>
<td>301</td>
<td>313</td>
<td>735</td>
<td>502</td>
<td>SAE 1 ¼”</td>
<td>BSP ¾”</td>
</tr>
<tr>
<td>HM 7.5</td>
<td>650</td>
<td>767</td>
<td>N160x5x30x26x9F</td>
<td>301</td>
<td>313</td>
<td>735</td>
<td>520Nh</td>
<td>SAE 1 ¼”</td>
<td>BSP ¾”</td>
</tr>
</tbody>
</table>

Brake (Static / Parking)

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>A(MM)</th>
<th>B(MM)</th>
<th>C(MM)</th>
<th>D(MM)</th>
<th>Break Release Pressure</th>
<th>Break Torque NM max</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 3.2-7.5</td>
<td>400</td>
<td>165</td>
<td>53</td>
<td>200</td>
<td>20-30 Bar</td>
<td>16,660</td>
</tr>
<tr>
<td>HM 9.0</td>
<td>480</td>
<td>195</td>
<td>62</td>
<td>240</td>
<td>20-30 Bar</td>
<td>50,000</td>
</tr>
</tbody>
</table>

* Technical Dimensions are subject to change without prior notice
Application for High Torque Gearless Hydraulic System

Pulp & Paper Industry
- waste paper handling
- cooking process
- washing and bleaching

Rubber & Plastics
- winch drives
- steering
- dredgers
- crawlers
- drive barges

Mining
- kiln drivers
- driers
- chemical
- evaporators
- mixers
- reactors
- dryers

Power
- conveyor
- reclaimer
- stacker
- bogie drives
- unloaders

Marine
- moulding machines
- process machines
- belt process
- screw drives

Material Handling
- conveyors
- wagon tipplers
- side arm charges
- paddle feeders
- apron feeders
- stacker reclaimers
- crushers

Cement
- mill drives
- pressure feeders
- cane carriers
- cane unloaders

Sugar
- ball mills
- bowl mills
- feeder conveyors
- ash handling
- feeding gates
- conveyors
HM-Series Motor

LD
MD
MD-S Series Motor
820
HD

A-No Brake
B-Wirh Brake

Motor size / displacement (Reference)

A-SAE Ports with Metric
B-Other

A-Standard Seals
B-Vitron Seals
C-Other/Custom

1-Female Splined Front Shaft
2-Shaft with Shrink Disc
3- Male Splined Front Shaft

A-Single Displacement
B-Dual Displacement

0-Standard
1-Rear Shaft Extension

Speed Encoder
0-No Encoder
1-Speed Encoder 0-20- rpm
2-Speed Encoder 0-100- rpm
3-Speed Encoder 0-150- rpm

Torque Arm
0-No Torque Arm
1-Standard Arm
2-Torque Arm Special

Code for other custom features.
Consult MASCOT for assignment of code.
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