MASCOT®
Radial Piston Hydraulic Motor

- LD Series
- MD Series
- MDS Series
- 820 Series
- HD Series

ISO 9001-2008 Certified
MASCOT MDS Series hydraulic motors are designed for high power and high speed applications. These motors are exclusively developed for Wagon Tippler, Side Arm Charger & Paddle Feeder Hydraulic Drive Application due to high radial & Axial Load capacity. In addition, these motors are also most suited for use in Feeder Breaker, Ball Mills and Bowl Mills. Optionally, a brake can be fitted in the rear end of the motor. The motor displacements available range from 9 lit/rev. to 15 lit/rev.

They aim to provide a wide variety of precise hydraulic motor and pump combinations. These motors can take heavy shock loads due to the incorporation of a robust front bearing arrangement.

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

<table>
<thead>
<tr>
<th>MOTOR FRAME SIZE</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DISP(*) PER REV</td>
</tr>
<tr>
<td>METRIC</td>
<td></td>
</tr>
<tr>
<td>HMS 9.0</td>
<td>9080</td>
</tr>
<tr>
<td>HMS 13.5-15</td>
<td>13540</td>
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</tbody>
</table>

**High speed version upon request.
* Any other displacement upon request.
MDS series
Motor External shaft with male splines

DIMENSIONS

Brake (Static/Parking)

* Technical Dimensions are subject to change without prior notice

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>A(MM)</th>
<th>B(MM)</th>
<th>DW(MM)</th>
<th>D(MM)</th>
<th>E(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>HMS 9.0</td>
<td>667</td>
<td>898</td>
<td>N150X30X28X10a</td>
<td>171</td>
<td>575</td>
<td>678</td>
<td>SAE 1 ¼”</td>
<td>BSP ¾”</td>
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<tr>
<td>HMS 13.5-15</td>
<td>710</td>
<td>898</td>
<td>N150X30X28X10a</td>
<td>171</td>
<td>575</td>
<td>772</td>
<td>SAE 1 ¾”</td>
<td>BSP ¾”</td>
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</tbody>
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<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>
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</thead>
<tbody>
<tr>
<td>HMS 9.0</td>
<td>374</td>
<td>152</td>
<td>64.5</td>
<td>187</td>
<td>20-30 Bar</td>
<td>42,000</td>
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<tr>
<td>HMS 13.5-15</td>
<td>374</td>
<td>152</td>
<td>64.5</td>
<td>187</td>
<td>20-30 Bar</td>
<td>50,000</td>
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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

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

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-Wirth 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.