MASCOT®
Radial Piston Hydraulic Motor

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

ISO 9001-2008 Certified
**MASCOT** 820 Series Hydraulic Motors aim to provide high torque for high speed applications. These motors incorporate the “high-flow” distribution system. These motors are extensively used for Wagon tippler and high inclination conveyors where high brake torque is required. Hydraulic brake (static) upto 16000 kgm are used in these motors which made these motors an ideal choice for high braking torque application.

The motor displacements available range from 15 lit/rev. to 30 lit/rev. These motors can take heavy shock load due to incorporation of 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>CM³/REV</td>
</tr>
<tr>
<td>820-HMB 15</td>
<td>15180</td>
</tr>
<tr>
<td>820-HMB 20</td>
<td>20380</td>
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<tr>
<td>820-HMB 25</td>
<td>25320</td>
</tr>
<tr>
<td>820-HMB 30</td>
<td>30580</td>
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</table>

**High speed version upon request.
* Any other displacement upon request.
820 series

Motor shaft with female splines

DIMENSIONS

Motor Type | A(MM) | B(MM) | D(MM) | D(MM) | E(MM) | Weight (Kg) | Main Connec (A1,A2,C1,C2) | Drain Connec (D1,D2)
--- | --- | --- | --- | --- | --- | --- | --- | ---
HMB 15 | 820 | 853 | 764 | 235 | 803 | 1300 | SAE 2" | 1" BSP

Brake (Static/Parking)

Motor Type | A(MM) | B(MM) | C(MM) | D(MM) | Break Release Pressure | Break Torque NM Max
--- | --- | --- | --- | --- | --- | ---
HMB 15-820 | 555 | 247 | 84 | 277.5 | 50 Bar | 1,20,000

* Technical Dimensions are subject to change without prior notice
## TECHNICAL SPECIFICATIONS & DIMENSIONS

### Motor Type A(MM) B(MM) C(MM) D(MM) E(MM) F(MM) G(MM) Weight (Kg) Main Connect (A1,A2,C1,C2) Drain Connect (D1,D2)

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<td>HMB 20</td>
<td>970</td>
<td>428</td>
<td>975</td>
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## Brake (Static/Parking)

### Motor Type A(MM) B(MM) C(MM) D(MM) Break Release Pressure Break Torque (NM Max)

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<td>HMB 20,25,30</td>
<td>480</td>
<td>211</td>
<td>86</td>
<td>240</td>
<td>50 Bar</td>
<td>60,000</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

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.