Disassembly Machine
Spec Sheet

26 Foot Heavy Duty Disassembly Machine.

Solid and dependable, our product line includes:

- Hydraulic Cylinder Disassembly or Tear-Down Benches
- Hydraulic Nut Busters
- Heavy Duty Chain Vises
- Automatic & Manual Cylinder Hones
- Rod Polishers
- Internal Tube Washers
- Hot Caustic Tanks

"AFFORDABLE HYDRAULIC REBUILDING EQUIPMENT"
Machinery Service & Design, Inc. W232 N2960 Roundy Circle West, Suite #400 Pewaukee, WI 53072 Phone 262.513.8040 Fax 262.513.8044 web site www.ms-d.com Email; sales@ms-d.com 8/5/13
# Standard & Heavy Duty Cylinder disassembly Machines

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>D-15</td>
<td>15’/4.57m</td>
<td>30” x 180”/.762 x 4.57m</td>
<td>96”/2.4m</td>
<td>12”/304.8mm</td>
<td>15 HP / 11.03kw</td>
<td>18 GPM/68.1 LPM</td>
<td>Yes</td>
<td>A</td>
<td>50K / 67.8 Nm</td>
<td>No</td>
</tr>
<tr>
<td>D-20</td>
<td>20’/6.09m</td>
<td>30” x 240”/.762 x 6.10m</td>
<td>150”/3.81m</td>
<td>12”/304.8mm</td>
<td>15 HP / 11.03kw</td>
<td>18 GPM/68.1 LPM</td>
<td>Yes</td>
<td>A, B</td>
<td>50K / 67.8 Nm</td>
<td>No</td>
</tr>
<tr>
<td>D-25</td>
<td>25’/7.62m</td>
<td>30” x 300”/.762 x 7.62m</td>
<td>210”/5.33m</td>
<td>12”/304.8mm</td>
<td>15HP / 11.03kw</td>
<td>18 GPM/68.1 LPM</td>
<td>Yes</td>
<td>A, B</td>
<td>50K / 67.8 Nm</td>
<td>Yes</td>
</tr>
<tr>
<td>D-30</td>
<td>30’/9.14m</td>
<td>30” x 360”/.762 x 9.14m</td>
<td>270”/6.86m</td>
<td>12”/304.8mm</td>
<td>15HP / 11.03kw</td>
<td>18 GPM/68.1 LPM</td>
<td>Yes</td>
<td>A, B, C</td>
<td>50K / 67.8 Nm</td>
<td>Yes</td>
</tr>
<tr>
<td>HD-26</td>
<td>26’/7.93m</td>
<td>30” x 318”/.762 x 8.08m</td>
<td>228”/5.79m</td>
<td>24”/609.6mm</td>
<td>15HP or 30HP/22.0 kw</td>
<td>30 GPM/113.6 LPM</td>
<td>Yes</td>
<td>A, B</td>
<td>100K /135.6Nm</td>
<td>Yes</td>
</tr>
<tr>
<td>HD-38</td>
<td>38’/11.58m</td>
<td>30” x 462”/.762 x 11.74m</td>
<td>372”/9.45m</td>
<td>24”/609.6mm</td>
<td>15HP or 30HP/22.0 kw</td>
<td>30 GPM/113.6 LPM</td>
<td>Yes</td>
<td>A, B, C</td>
<td>100K /135.6Nm</td>
<td>Yes</td>
</tr>
<tr>
<td>HD-45</td>
<td>45’/13.72m</td>
<td>30” x 540”/.762 x 13.72m</td>
<td>425”/11.43m</td>
<td>24”/609.6mm</td>
<td>15HP or 30HP/22.0 kw</td>
<td>30 GPM/113.6 LPM</td>
<td>Yes</td>
<td>A, B, C, D</td>
<td>100K /135.6Nm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Disassemble Machine Pull A Part Attachment:**


Automatic Pull a Part: Push Force = 37,698 pounds (51.1Nm) Pull Force = 30,483 pounds (41.3 Nm). 4” Bore with 36” stroke.

Automatic Pull a Part: Maximum Clevis diameter 24.0” (609.6mm) by 13.3” wide (337.8mm).

Automatic Pull a Part, optional hose reel.

**Hydraulic Reservoirs:**

- A= 40 gallons 151.4 Liters 15 HP with 18 GPM Gear pump. Rated for 3000 PSI (206.8 Bar) with remote pressure control.
- B= 114 gallons 431.5 Liters 30 HP motor with 30 GPM piston pump. Rated for 3500 PSI (241.3Bar)Remote pressure control. Air operated pressure booster to 5000 PSI (344.7 Bar).

**Nut Busters:**

- Nut Runner force= 2,100 pounds (2.8 Nm)
- Nut runners available on 20,30,40,50,70,100K Nut Buster.

**Available Tooling:**

- 4.5” Square Impact Socket Driver
- AT. Nut Tool 3” to 9” capacity
- SAE Hex Plates
- Metric Hex Plates

**Hydraulic Power Units:**

- Hydraulic Control Valves.
  - Two spool valve for Nut Buster control and cylinder test.
  - Two spool valve and selector valve, for Nut Buster control and Cylinder pull a part and cylinder test.
  - Electric control valves with Pendent control.

**Machine Frame Capacity:**

- Standard design series machine, 1000 lbs per foot
- Heavy Duty design series, 2000 lbs per foot

---

Page 1
Heavy Duty Cylinder disassembly Machine.
Available in 26.5, 38.5 & 45 foot lengths.
Integrated power units 15 & 30 HP.
Cylinder Pull A Part and assembly Tooling.
Chain Vises, 24" 30" & 48" Diameter Capacity.
Nut Buster up to 100,000 foot pound torque.
10 Ton Hydraulic Lift Tables.
Standard Disassembly Machines

Standard disassembly machine available these Lengths:
15’ (4.57 m)
20’ (6.09m)
25’ (7.62m)
30’ (9.14m)
Custom
Disassembly Machine
Hydraulic & Electrical Options

- 30HP Motor with 30GPM Piston Pump 3500 PSI
- Air Operated Pressure Booster Pump 5000 PSI
- High Capacity 6000 PSI Ball Valves
- Twin Return Line Filters With Indicator Gauge
- 15HP Motor with 18 GPM Gear pump 3000 PSI
- Motor Starter with overload
- Phase Convertor for single phase
- Control Console
- Nut Buster Pressure Gauge/ selector valve
- Nut Buster Chart Cylinder Test Gauges
Machinery Service & Design now offers an Automatic slide plate device used for cylinder disassembly and assembly. The Automatic slide plate is supplied with an anchor plate and a movable slide plate. Both slide plates are supplied with 3 point adjustable bronze bearing. The anchor plate is equipped with a directional handle and a spring loaded foot designed to engage with a horizontal cross member built into the machine frame. As the Automatic slide plate cylinder is extended the anchor foot will brace against horizontal cross member and apply force. When the cylinder is retracted, the anchor will lift over the cross member and spring down into position for the next 36” stroke. The Automatic slide plate is available with an extra tall brace tool to hold the rod clevis. The extra tall brace tool has a capacity of 24” diameter by 13.3” wide clevis.

Click this link for a short video of the Automatic cylinder pull a part.

[CLICK] [www.youtube.com/watch?v=e4PMWZooNDY] [CLICK]
Disassembly Machine Tooling Options

- **Nut Busters To 100,000 FT/LBS**
  - MSD-NB-R

- **Cylinder Rotation Tool**
  - MSD-ARC

- **Adjustable Cylinder Supports**
  - MSD-ACSN

- **Adjustable Nut Tool 9” Max**
  - MSD-AT

- **8” Ridgid Chain vise**
  - MSD-RIDGID

- **Chain Hold Down**
  - MSD-CHD

- **1 1/2” Socket Drive Plate**
  - MSD-DP-1.5

- **1” Socket Drive Plate**
  - MSD-DP-1.0

- **Heavy Duty 3 & 4 Point Spanner**
  - MSD-APS-HD (5” to 8”)

- **Heavy Duty Pin Spanner 12” Diameter**
  - MSD-HDSS

- **Fixed Spanner Plate 2” 3” 3 ½” Shafts**
  - MSD-FPS

- **Pin Spanner Fixture**
  - MSD-LDAS
Disassembly Machine Tooling Options

Concentric Rollers 1” TO 6” Diameter
MSD-CR

5 ½” Tall Raiser Block
MSD-R

1 Ton Hydraulic Lift
MSD-HEV

Nylon V Block
MSD-V

Strap Hold Down
MSD-SHD

Nut Buster Brace Tool
MSD-ABT-40K

Fixed Brace Tool
MSD-BT

Vise Elevator
MSD-VE

Hex plates, Metric & SAE
MSD-HPS & MSD-HPSM

Slide Plate
MSD-SP

Slide Plate Spacers
MSD-SPS

Slide Plate Lock Pin
MSD-LP

Tie Bolt Cylinder Clamp
MSD-HD
Disassembly Machine Custom Tooling

4 ½" Square Impact Socket Driver.

295mm Impact Socket.

Heavy Duty Hex Plate Driver 295mm Hex Plate

Custom Gland Tooling

Mining Cylinder

LongWall Cylinder Pull Apart

Longwall Stage Gland Removal

Custom Longwall Tooling

Custom Gland Tooling.

4 ½" Square Socket Driver

295mm Impact Socket
Customer Shop Pictures

Customer Built Bench with our Nut Buster

Extra Large Hex Plate Driver

Hitachi PC1800 Shaft

Hitachi PC1800 Shaft in 50K Nut Buster

"AFFORDABLE HYDRAULIC REBUILDING EQUIPMENT"

Machinery Service & Design, Inc. W232 N2960 Roundy Circle West, Suite #400 Pewaukee, WI 53072
Phone 262.513.8040   Fax 262.513.8044   web site www.ms-d.com   Email; sales@ms-d.com 8/5/13
Customer Shop Pictures

MSD-HDSS
Heavy Duty Spanner tool and ARC tool.

19” Diameter Head Gland