High Durability, High Quality, Engineered Solutions –
For the Toughest Applications!

We Build Confidence.
SERIES “H”  
Heavy Duty Hydraulic Cylinders  
■ Steel construction  
■ 3000 psi hydraulic service  
■ 5000 psi non-shock service  
■ Standard NFPA mounting styles  
■ 1.5” – 18” bores cataloged  
■ Larger bores available  

SERIES “LH”  
Medium Duty Hydraulic Cylinders  
■ Steel construction  
■ 750 – 1500 psi hydraulic service  
■ Standard NFPA mounting styles  
■ 1.5” – 6” bores cataloged  
■ Larger bores available  

SERIES “MH”  
ISO Metric Hydraulic Cylinders  
■ Steel construction  
■ 210 bar hydraulic service  
■ Standard ISO mounting styles  
■ 25 mm – 200 mm bores cataloged  
■ Larger bores available  

PRESS CYLINDER APPLICATIONS  
From garbage compactors to cotton bailers – whatever the application, major press manufacturers rely on Milwaukee Cylinder’s extensive experience.  

OIL AND GAS INDUSTRY  
From 10,000 feet beneath the gulf, to the harshest environments of the tar sands, Milwaukee Cylinder products are used in the most demanding projects.  

PLASTIC MOLDING AND RUBBER INDUSTRY  
From garden furniture, to where the rubber hits the road, Milwaukee Cylinder is part of the process.
SERIES “A”
Heavy Duty Pneumatic Cylinders
■ Steel construction
■ 250 psi air service
■ Standard NFPA mounting styles
■ 1.5” – 16” bores cataloged
■ Larger bores available
■ Non-lube versions available

SERIES “MN”
Pneumatic/Hydraulic Cylinders – Aluminum
■ Aluminum construction
■ 250 psi air service/400 psi hydraulic
■ Standard NFPA mounting styles
■ 1.5” – 8” bores

AUTOMOTIVE APPLICATIONS
Stamping, welding, clamping, or hydroforming, Milwaukee Cylinder keeps the production lines running.

MOTION CONTROL APPLICATIONS
For the most sophisticated, yet rugged needs in motion control, you can rely on Milwaukee Cylinder.

FOUNDRIES AND STEEL MILLS
Casting, rolling, or pickling... whatever the demanding application – Milwaukee Cylinder products are on the job.

www.milwaukeecylinder.com
Position Sensing and Motion Control
Available for H, LH, A Series and Custom Cylinders
- Bores 1.5” and larger
- 1” rod diameter and larger
- Low friction seals available
- Strokes to 16 feet
- Linear transducer with analog and digital outputs
- We will meet virtually any of your application requirements

Proximity Switches
Available for H, LH, A Series and Custom Cylinders
- 1.5” - 4” bores are standard product
- Larger bores available
- Non-contact switches detect the presence of the spud/cushion bushing
- AC/DC inductive switches
- We will meet virtually any of your application requirements

RFID Tags: Simplify Maintenance
Available for all Cylinders
- All needed information about the cylinder is stored electronically on the tag - never worry about finding identification information
- In addition, tags contain a read-write maintenance log
- Read/Write using ISO Standard 15693 near-field readers
- Durable in Industrial Environments - IP 67 rated

Eliminate Alignment Problems. Install a Linear Alignment Coupler
Features:
- Reduces rod seal and bearing wear
- Prevents binding and erratic movement caused by misalignment
- Permits a greater tolerance between cylinder centerline and mating member
- Works equally well in “push” and “pull” applications
- Designed to clamp components after the motion has stopped and to hold the position securely as long as the forces do not exceed the table values

AMLOK® Type RCH Rod Clamp
- Provides power-off clamping of rods and shafts
- Clamps are actuated by a spring/collet mechanism and unclamped by hydraulic pressure

Rod End Styles
- Rod Clevis
- Rod Eye
- Clevis Mounting
- Trunnion Mounts
- Rod Boots
- And More!
**Milwaukee Cylinder** offers additional products to help complete your system needs. **Pressure Boosters** are ideal for limited operation applications requiring intermittent high pressure when you only have low-pressure air. **Air Oil Tanks** supplement a booster system by providing a source of low pressure oil, while also providing an outlet for entrapped air. **Accumulators** can improve overall system efficiency.

### Pressure Boosters
Available in Single Pressure and Dual Pressure Models
- Testing
- Fluid Transfer
- High Pressure from Shop Air
- Liquid Injection
- Holding Pressure

### Air Oil Tanks
Available in Single Pressure and Dual Pressure Models
- Compensate for any oil loss in a hydraulic system
- Source of low pressure hydraulics which can be used for cylinder return movement
- Outlet for trapped air

### NA Series Piston Type Accumulators
Available in Single Pressure and Dual Pressure Models
- Simplify circuit design
- Lower HP requirements
- Improve operation/ Increased Cycle operation

### Manufacturing Processes
Milwaukee Cylinder Pressure Boosters and Air Oil Tanks solutions offer smoother power and space savings compared to pneumatic only systems, and cost savings compared to pump based hydraulic systems.

**Call us for Application Assistance.**
**Power Units and Valves**

**Milwaukee Cylinder Power Units** are powerful performers for your general hydraulic power unit needs. Available in either Gear Pump (3000 psi) or Vane Pump (2000 psi) designs, these units really deliver with standard features and options needed to do the job right. These units are fully featured to give you the performance and value that you need. Available options and directional valves help you to customize the power unit for your application.

<table>
<thead>
<tr>
<th>*** GEAR PUMPS**</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Pressure:</td>
<td><strong>3000 psi</strong></td>
</tr>
<tr>
<td>Flow Rates:</td>
<td><strong>.545-10.00 gpm</strong></td>
</tr>
<tr>
<td>Reservoir Capacities:</td>
<td><strong>10-30 gallons</strong></td>
</tr>
<tr>
<td>Standard Motor:</td>
<td><strong>TEFC 1725 rpm</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>*** VANE PUMPS**</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Pressure:</td>
<td><strong>2000 psi</strong></td>
</tr>
<tr>
<td>Flow Rates:</td>
<td><strong>4-8 gpm</strong></td>
</tr>
<tr>
<td>Reservoir Capacities:</td>
<td><strong>20 gallons</strong></td>
</tr>
<tr>
<td>Standard Motor:</td>
<td><strong>TEFC 1725 rpm</strong></td>
</tr>
</tbody>
</table>

* Custom Designs Available!

Contact Milwaukee Cylinder for a quote on the power unit configuration that meets your application.

![Power Units and Valves](image_url)
POW'R ARM

Large shear blades are used to cut steel bars and billets. When these blades become worn, the Pow'r Arm™ performs speedy removal and replacement of the blades safely with minimal disruption to the process.

POW'R REACH

Parts are selected from pallets and moved to working stations. The smooth, positive hydraulic control of the Pow'r Reach™ permits picking and positioning of expensive parts safely and precisely.

POW'R ARM™

Safe, convenient positioning of loads up to 2,000 lbs.

- Larger capacities available as specials
- Quick, easy lifting and positioning of heavy dies, tooling and parts
- One-person control
- Dual speed control
- Integrated hydraulic controls
- Modifications on request

POW'R REACH™

For fast, easy lifting and precise positioning of tombstones, vises and materials.

- Up to 750 pound capacity
- 58-inch vertical travel, 8.5 foot reach and 350 degree rotation
- One-person control
- Dual speed control
- Integrated hydraulic controls
- Modifications on request

www.milwaukeecylinder.com
MILWAUKEE CYLINDER offers:

- Specials / Custom Products
- Hydraulic Cylinders
- Low Pressure Hydraulic Cylinders
- Pneumatic Cylinders
- Aluminum Cylinders
- Hydraulic Pneumatic Devices
  - Pressure Boosters
  - Air Oil Tanks
  - Accumulators
- Cylinder Accessories
  - Linear Alignment Tools
  - Amlok® Rod Clamp
  - Spherical Rod Accessories
- Industrial Manipulators
- Power Units And Valves

Contact Milwaukee Cylinder for your application needs.