End of Stroke Mechanical Locking Cylinders

- Available for A & LH Models
- Positive mechanical locking available for fully extended, fully retracted or both
- Options available for up to 2500 lbs of holding force
- Once locked — allows operating pressure to be removed

Perfect for:
- Presses
- Door openers
- Air hoists
- Long hold applications
The load is locked into position by an internal mechanical locking device and remains locked until line pressure is applied. It will also remain locked even in the event of piston seal failure or the absence of line pressure.

In applications that require loads to be held in position for long periods of time, the loads can be locked and line pressure removed. These Milwaukee Cylinders are the answer to cylinder applications, such as presses, door openers, air hoists and many others, whenever a positive lock is desired to prevent drifting, or for loads that are to be held for long periods of time, with an absence of line pressure.

The Milwaukee Mechanical Lock is available as locked in the retracted position or the extended position, or a combination of both. It is available on Milwaukee Series A-LH Cylinders in all mounting styles and in bore sizes from 1½” to 6” (A-LH).

*Milwaukee Mechanical Lock Key Features*

**Positive Locking** — the Milwaukee Mechanical Lock mechanically locks the cylinder piston rod at either extreme of the stroke length.

**Fail Safe Locking** — Always locks automatically when rod reaches the end of its stroke. Locking action is positive, with no possibility of movement when the unit is operated within its rated capacity. Only applied hydraulic or pneumatic pressure will release lock mechanism.

**Functional Design** — All parts are designed for maximum service life with trouble-free operation.

**Easy Maintenance** — All major seals can be easily replaced and are readily available from shelf stocks.

**Versatility** — Milwaukee Mechanical Lock is available in all NFPA standard cylinder mounting styles for adaptation to a wide variety of applications, including a choice of rod and styles and rod diameters.

**Economy** — Milwaukee Mechanical Lock’s basic design simplicity and dependability, integrated with Milwaukee’s Series LH or Series "A" cylinders, eliminates more costly, separate actuating and lock components.
**THE SIMPLE OPERATING PRINCIPLE OF MILWAUKEE MECHANICAL LOCK CYLINDER**

The "Lock" section consists of a sleeve, locking piston and a cylinder rod. The sleeve holds a series of hardened steel balls in a radial pattern, that engages a groove in the cylinder piston rod, and the balls are locked in position by the locking piston. This provides a positive mechanical connection to lock the cylinder piston rod in the extreme stroke position. When hydraulic or pneumatic pressure is applied to the normal inlet port, the locking piston is moved off the balls, thus unlocking the piston rod, to travel the required stroke length. Cylinder piston rod is re-locked automatically by simply returning the rod back into the lock mechanism.

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**Dimensional Data**

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* Available in blind end lock only. Blind and lock available in all rod sizes. Rod end lock available in sizes listed.

** An exception to standard catalog dimensions: E = 2½* square both blind end caps for 1⅛* bore only.

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**Series A & LH, Mechanical Locking Cylinders**

- **Maximum Holding Capacity:** 100 - 2500 lbs.
- **Operating Temperature:** -20°F to +200°F
- **Operating Temperature for LH:** 750 - 1500 psi
- **Operating Temperature for A:** Max. 750 psi
**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.