Milwaukee Cylinder’s Mechanical Adjustable Stroke Cylinders
A Quality Reputation for Over 60 Years

A long established manufacturer of **highly engineered cylinder solutions**.

**Reputation for:**
- Solutions for the most demanding cylinder applications
- Complete line of high quality hydraulic and pneumatic cylinders
- Specialty Cylinders: “*Specials are our standard*”

**Milwaukee Cylinder**
- Located in Cudahy WI
- Established 1956
- ISO 9001 Certified
- SIL 3 Certified
- We make thousands of high end cylinders in a year
Topics

• Why Use
• Key Benefits
• Key Features
• How It Works
• Applications
• How To Order
• Resources
Why Use

What if a customer needs to make one size part for one batch
Why Use

and another size part for another batch?
A mechanical adjustable stroke is perfect for a process where stroke adjustments are only required between part batches.

Note: If frequent stroke adjustments are required – consider an electronically controlled stroke.
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Key Benefits

• Simple – mechanical adjustment
  – Uses standard available hand tools
• Less expensive/less complicated vs. electronic solutions
• Minimal change over time to change stroke
• Virtually no training required – no special knowledge required to operate
• Very durable
• No maintenance
Topics

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Key Features

• Available on H,LH, A Series
• Available as
  – Extend Adjustable Only
  – Retract Adjustable Only
  – Both Extend & Retract Adjustable
• Adjustments can be made to any stroke position
• Can be used to lock the rod in any position for maintenance
  – Only applicable to stroke adjust both directions
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How It Works

Starts with a double rod end cylinder.

Adjust stroke both directions shown
How It Works

A mechanical stopping structure is attached to the non-working end of the cylinder.
The non-working end of the cylinder includes a threaded rod with adjustable locking nuts.
How It Works

One nut adjusts the extend stroke
How It Works

One nut adjusts the retract stroke
How It Works

Example: Adjusting the extend stroke
How It Works

Example: Move the nut to the desired location
Example: Move the nut to the desired location
Example: The rod extend stroke stops at the new nut location
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Application

• Batch cutting operations

• Material Forming Applications
  - Where trial and error machine set-up is required
  - Example automotive trim

• Clamping applications

• Special environments:
  • Rugged environments
  • High temperature environments
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How to Order

These are all specials

• Provide standard cylinder specifications
• Desired Adjustment Control
  – Extend Only
  – Retract Only
  – Both
• Required range of control
• Application concerns
  – Environmental concerns- high temp?
  – Cycle rate
  – Space constraints
Topics

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MC Resources

- Outside Sales Team
- Inside Sales Team
- Engineering Team
- Power Point
- Video
- 3D Models
Contact Information

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