

DOUBLE ACTING HYDRAULIC CYLINDERS

• Power in Both Directions – Precision in Every Stroke •

1. TIE ROD TYPE DOUBLE ACTING CYLINDER



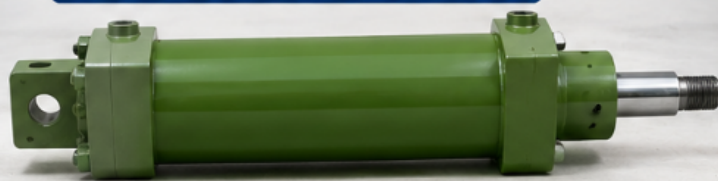
Most common type, easily serviceable.
Ideal for general engineering applications.

2. WELDED TYPE DOUBLE ACTING CYLINDER



Stronger construction with no tie rods.
Suitable for heavy duty & high pressure applications.

3. MILL TYPE DOUBLE ACTING CYLINDER



Compact design with integrated end caps.
Used in machinery with limited installation space.

4. TELESCOPIC DOUBLE ACTING CYLINDER



Multi-stage extension for long stroke in limited space.
Used in dumpers, tippers, material handling.

5. CUSTOM DOUBLE ACTING CYLINDER



Custom built as per application requirement.
Bore size, stroke, mounting & seals – fully customizable.

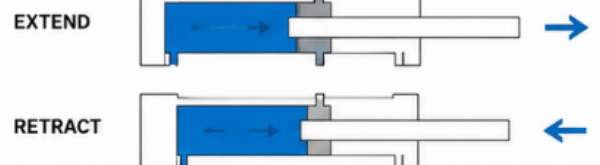
FEATURES

- ✓ Bi-directional operation (extend and retract)
- ✓ High efficiency and smooth performance
- ✓ Available in various bore sizes & strokes
- ✓ Robust construction for long service life
- ✓ Suitable for industrial & mobile applications

APPLICATIONS

- ✓ Construction Equipment
- ✓ Material Handling
- ✓ Industrial Machinery
- ✓ Agriculture Machinery
- ✓ Automotive & Mining Equipment

DOUBLE ACTING OPERATION



SINGLE ACTING HYDRAULIC CYLINDERS

• Power in One Direction – Simplicity | Reliability | Efficiency •

1. SPRING RETURN CYLINDER



Returns to original position using internal spring Force in one direction, spring return in the other.

- ✓ Compact & lightweight
- ✓ Ideal for clamping, stamping, lifting
- ✓ Low maintenance
- ✓ Cost effective

2. GRAVITY RETURN CYLINDER



Returns to original position by external force like load weight or gravity.

- ✓ Simple & reliable design
- ✓ Used in tilting, dumping applications
- ✓ No spring required
- ✓ For vertical applications

3. LOAD RETURN CYLINDER



Returns to original position by external load or other mechanical force.

- ✓ High pressure capability
- ✓ Used in lifting, pressing, holding
- ✓ Heavy duty construction
- ✓ Reliable performance

4. DIFFERENTIAL CYLINDER (SINGLE ACTING)



Larger area on one side for power stroke, smaller area on return stroke (by spring or load).

- ✓ High force output in one direction
- ✓ Faster return stroke
- ✓ Used in presses, punching, forming
- ✓ Efficient & compact

5. PULL TYPE SINGLE ACTING CYLINDER



Pulls the load in one direction, returns by spring or external force.

- ✓ Ideal for pulling, tensioning applications
- ✓ Available with spring return or gravity return
- ✓ Robust and durable
- ✓ Used in trailers, winches, tensioning systems



HIGH EFFICIENCY



DURABLE DESIGN



LOW MAINTENANCE



COST EFFECTIVE

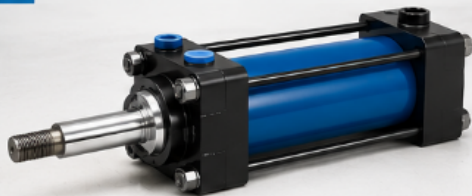


LONG SERVICE LIFE

TIE ROD HYDRAULIC CYLINDERS

• STRONGER TOGETHER. BUILT TO PERFORM. •

1 STANDARD TIE ROD CYLINDER



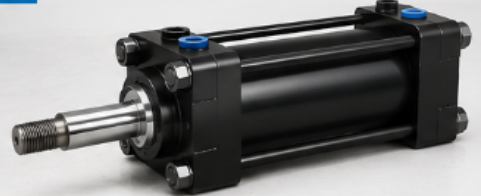
- Widely used for general industrial applications
- Cost effective
- Reliable performance
- Easy maintenance
- Bore Size: 25 mm – 200 mm
- Pressure: Up to 210 bar
- Mounting: Multiple options
- Double Acting

2 HEAVY DUTY TIE ROD CYLINDER



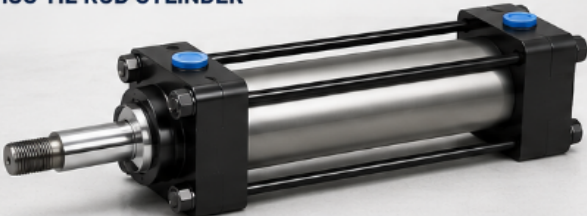
- Designed for high pressure and heavy load applications
- Robust construction
- High strength tie rods
- Long service life
- Bore Size: 50 mm – 320 mm
- Pressure: Up to 250 bar
- Mounting: Multiple options
- Double Acting

3 NFPA TIE ROD CYLINDER



- NFPA standard dimensions
- Interchangeable with NFPA cylinders
- High performance
- Leak proof design
- Bore Size: 25 mm – 250 mm
- Pressure: Up to 210 bar
- Mounting: NFPA Mounts
- Double Acting

4 ISO TIE ROD CYLINDER



- ISO 6020/1 standard
- Compact design
- High efficiency
- Suitable for automation
- Bore Size: 32 mm – 200 mm
- Pressure: Up to 210 bar
- Mounting: ISO Mounts
- Double Acting

5 CUSTOM TIE ROD CYLINDER



- Custom bore, stroke and mounting
- Built as per application requirement
- Special seals & coatings available
- High reliability
- Bore Size: As per requirement
- Pressure: Up to 350 bar
- Mounting: Custom Mounts
- Single / Double Acting



HIGH STRENGTH
CONSTRUCTION



SMOOTH & RELIABLE
OPERATION



HIGH EFFICIENCY &
LONG LIFE



EASY INSTALLATION
& MAINTENANCE



LEAK PROOF &
DURABLE DESIGN

CYLINDRICAL HYDRAULIC CYLINDERS

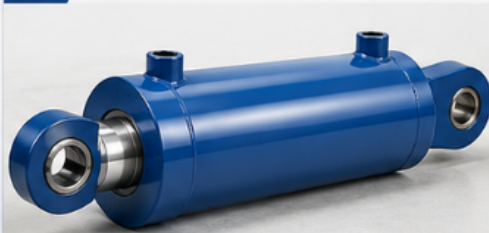
• SMOOTH PERFORMANCE. MAXIMUM RELIABILITY. •

1 STANDARD CYLINDRICAL CYLINDER



- Double Acting
- Bore Size: 25 mm – 200 mm
- Pressure: Up to 210 bar
- Smooth operation
- High durability
- Wide applications

2 HEAVY DUTY CYLINDRICAL CYLINDER



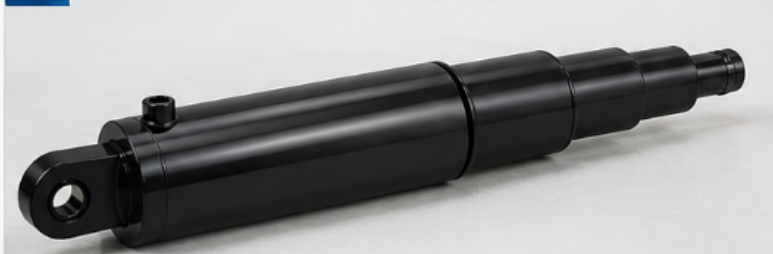
- Double Acting
- Bore Size: 50 mm – 300 mm
- Pressure: Up to 250 bar
- Heavy load capacity
- Robust construction
- Long service life

3 WELDED CYLINDRICAL CYLINDER



- Double Acting
- Bore Size: 32 mm – 250 mm
- Pressure: Up to 210 bar
- Welded construction
- Compact design
- Cost effective

4 TELESCOPIC CYLINDRICAL CYLINDER



- Double Acting
- Stages: 2 / 3 / 4 / 5
- Pressure: Up to 210 bar
- Long stroke in closed length
- Space saving design
- Ideal for dumpers & tippers

5 CUSTOM CYLINDRICAL CYLINDER



- Single / Double Acting
- Bore Size: As per requirement
- Pressure: Up to 350 bar
- Custom design
- Special seals & coatings
- Built to application



HIGH
PERFORMANCE



DURABLE &
RELIABLE



LOW
MAINTENANCE



LONG
SERVICE LIFE



BUILT FOR
INDUSTRY