Setting a new standard for NFPA hydraulic cylinders in:

- Heavy-duty design
- CNC machined quality
- 2-3 day delivery
**HH SERIES**
High Pressure Hydraulic

- Precision Made-to-order
- Heavy Duty cylinders
- In 2-3 days

**Design Capabilities**
- 3000 PSIG hydraulic
- Bore sizes 1.50" - 8.00"
- 19 NFPA mounts
- Standard strokes up to 120"
- Rods up to 5.50" in diameter

1. FLOATING ROD BUSHING
2. PORTS
3. PISTON ROD
4. PISTON
5. TIE RODS
6. CUSHION SPUD
7. PISTON SEALS
8. ROD WIPER
9. ROD SEAL
10. HEAD & CAP
11. TUBE
12. CUSHION ADJUSTMENT NEEDLE
13. PISTON ROD STUD
14. WEAR BAND

**MH SERIES**
Medium Pressure Hydraulic

- Design Capabilities
  - Up to 1500 PSIG hydraulic
  - Bore sizes 1.50" - 8.00"
  - 20 NFPA mounts
  - Standard strokes up to 120"
  - Rods up to 5.50" in diameter

1. FLOATING ROD BUSHING
2. PORTS
3. PISTON ROD
4. PISTON
5. TIE RODS
6. CUSHION SPUD
7. PISTON SEAL
8. ROD WIPER
9. ROD SEAL
10. HEAD & CAP
11. TUBE
12. CUSHION ADJUSTMENT NEEDLE
13. PISTON ROD STUD
14. WEAR BAND

FINISH – Black urethane paint
**Smart Cylinder**
Cylinders are supplied with mounted manifolds, tubing, fittings and gun drilled rods for your servo ready applications using a position transducer. TRD’s engineers are ready to help with your specific requirements.

**Rod Lock**
TRD’s floating rod bushing design and Rod Lock option deliver optimized results and superior performance. High holding forces are available in several hydraulic release pressures.

- 1.50” - 8.00” Bore
- 0.625” - 4.00” Rod

**Customizable Piston Rods**
Every piston rod is made-to-order and typically does not affect our 2-3 day delivery. Get exactly the rod thread, rod extension and rod end design that you need.

**Special Construction**
All TRD products are made-to-order, so simply specify exactly what you need. Single, double or special mounts are available. Most cylinders ship in just 2-3 days.

For example:
- 3.00” diameter KK10; 3.50” diameter rod
- HH-MX2 mount with tie rods threaded through cap
- Custom AC=9.625
- Delivered in 2-3 day schedule.

**Rod Boot**
Rod boots provide additional protection to the cylinder rod. They are typically used in dirty environments to help extend cylinder life. Rod boots are made-to-order and available in many different materials.

**Design Capabilities**
- 3000 PSIG hydraulic
- Bore sizes 1.50” - 8.00”
- 19 NFPA mounts
- Standard strokes up to 120”
- Rods up to 5.50” in diameter

**Design Capabilities**
- Up to 1500 PSIG hydraulic
- Bore sizes 1.50” - 8.00”
- 20 NFPA mounts
- Standard strokes up to 120”
- Rods up to 5.50” in diameter

**Precision Made-to-order Heavy Duty cylinders in 2-3 days**
### TRD DELIVERIES (F.O.B. Factory)

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<th>SERIES</th>
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<td>HH (Heavy-Duty Industrial Hydraulic)</td>
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<td>Balluff Strokemaster (Quantity of 5+ cylinders)</td>
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<td>Balluff Micropulse Transducers</td>
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<td>MTS Temposonics</td>
<td>10-12 Days</td>
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**STANDARD OPTIONS INCLUDED IN ABOVE DELIVERIES**

**RUSH SERVICE**

RUSH SERVICES ARE AVAILABLE FOR ALL TRD PRODUCTS. CONTACT YOUR LOCAL TRD DISTRIBUTOR FOR DETAILS.

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**BIMBA BRANDS**

ACRO | MEAD | MFD | PNEUMADYNE | TRD

PNEUMATIC • ELECTRIC • HYDRAULIC ACTUATORS • FITTINGS — MANIFOLDS — VALVES — AIR PREPARATION — SAFETY & PRODUCTION

Your stocking distributor is:

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Worldwide distribution means there is a professional stocking Bimba distributor nearby ready to service your needs.

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