

- Grease Fitting to Lubricate Pin
- Choice of Plunger End Mountings to Meet Individual Requirements
- Standard NPTF or SAE O-Ring Ports
- Dual Lip Wiper to Prevent Contamination Entry
- Threaded Headnuts for Added Strength and Seal Adjustment
- Set Screws with Nylon Slug for Locking Headnuts
- Dual Non-Metallic Bearings
- Welded Stop Rings of High-Strength Steel
- Dual Spiral Retainer Rings
- Adjustable V-Packing to Seal High and Low Pressures
- Internal Port Holes
- Steel Spacers and Plunger Stops for Added Strength
- High-Strength Welds at Critical Stress Areas
- High-Strength DOM Tubing Throughout the Cylinder
- Variety of Piston Seals Available to Meet Specific Applications
- Non-Metallic Rectangular Guide Rings
- Choice of Base End Mountings to Meet Individual Requirements
- Grease Fitting to Lubricate Pin

**Custom Hoists** double-acting telescopic cylinders are manufactured to individual specifications to meet the rigid requirements of today's applications, including Refuse Trucks and Solid Waste Packers, Stationary and Mobile Trash Compactors, Transfer and Push-Out Trailers, Roll-Off Units, Construction Equipment and more. For applications that demand excellence, performance and economy, go with the best . . . the professionals from **Custom Hoists**. Our cylinders are specifically designed to assure you the right results the first time. Call us direct and outline the requirements or discuss them with a **Custom Hoists** representative. We'll take it from there. Count on us to be your exclusive cylinder source.

# CUSTOM HOISTS, INC.

ISO 9001 Registered Company



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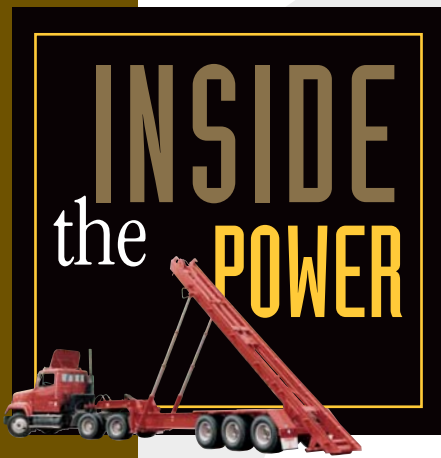


T E L E S C O P I C

**DOUBLE**

acting

C Y L I N D E R



Custom Hoists double-acting telescopic cylinders feature a number of benefits to outperform the competition. We use high-strength D.O.M. tubing throughout the cylinder to work in applications with system pressures up to 2,000 P.S.I. 2" through 9 3/4" plunger diameters, strokes up to 500", and two through six moving stages are available to meet specific demands. Our cylinders have finished I.D. surfaces, high-strength welds at critical stress areas, adjustable v-packing to seal high and low pressure, coupled with threaded headnuts for extra strength and easy seal adjustment. Dual lip wipers to prevent contamination entry, special plunger stops to assure full shoulder stops, dual bushings for longer bearing length and dual step piston rings on the piston are employed for state of the art sealing. Custom Hoists offers a variety of end mountings and either standard NPTF or SAE o-ring ports to match specific requirements. Available on request are hard chrome-plated or nitrided plungers, positive piston seals to eliminate drift and maintain a constant load, internal relief valve assembly, skip staging for pull applications and mounting support blocks to prevent sagging in horizontal applications. Take a look at our line and provide us with the basic eight specifications: Application, Maximum Load-Extend and Retract, Closed Length, Length of Stroke, Mounting Options, Mounting Conditions - Vertical or Horizontal, System Working Pressure and System Flow in G.P.M. We will design a cylinder to make your job easier every day and perform for years.

## INDIVIDUAL PLUNGER LIFTING CAPABILITIES

Bore (Piston) Diameter (IN.)	Cross Sectional Area (SQ. IN.)	Plunger Diameter (IN.)	Cross Sectional Area (SQ. IN.)	SPECIFIC OPERATING PRESSURES		
				1,500 PSI (LBS.)	1,800 PSI (LBS.)	2,000 PSI (LBS.)
2 1/2	4.90	2	3.14	7,350	8,820	9,800
3 1/2	9.62	3	7.06	14,340	17,316	19,240
4 1/2	15.90	4	12.56	23,850	28,620	31,800
5 1/2	23.75	5	19.63	35,625	42,750	47,500
6 1/2	33.18	6	28.27	49,770	59,724	66,360
7 1/2	44.17	7	38.48	66,255	79,506	88,340
8 1/2	56.74	8	50.26	85,110	102,132	113,480
9 3/4	74.50	9 1/8	65.39	111,170	134,100	149,000
10 1/2	86.59	9 3/4	74.50	129,885	155,862	173,180

### Individual Plunger Retract Capacities

To find the retract capacity of a standard double-acting cylinder, subtract the plunger cross sectional area from the bore (piston) cross sectional area. Multiply the difference by the desired operating pressure. The result is the retract capacity in pounds.

#### EXAMPLE:

Bore (6 1/2" dia.) C.S. area	33.18 sq. in.
Plunger (6" dia.) C.S. area	- 28.27 sq. in.
Difference	4.91 sq. in.
Desired Operating Pressure	x 1800 p.s.i.
Retract Capacity	8,838 lbs.

Double-Acting Telescopic Cylinder  
**DAT85-2-250**  
 Cylinder Type  
**DAT85-2-250**  
 Design Sequence Number  
**DAT85-2-250**  
 Stroke in Inches  
**DAT85-2-250**  
 Number of Moving Stages  
**DAT85-2-250**  
 Largest Moving Stage  
**DAT85-2-250**  
**MODEL NUMBER I.D.**