

SINGLE CYLINDER CAPACITIES TO OVER 43,000 LBS.

**Powerful
Perfected
Performance**
precisely.

APPLICATIONS:

Industrial

Material Handling

Dispersers/Mixers

Steel Mills

Lumber Mills

Rail Cars

and More

Made in America

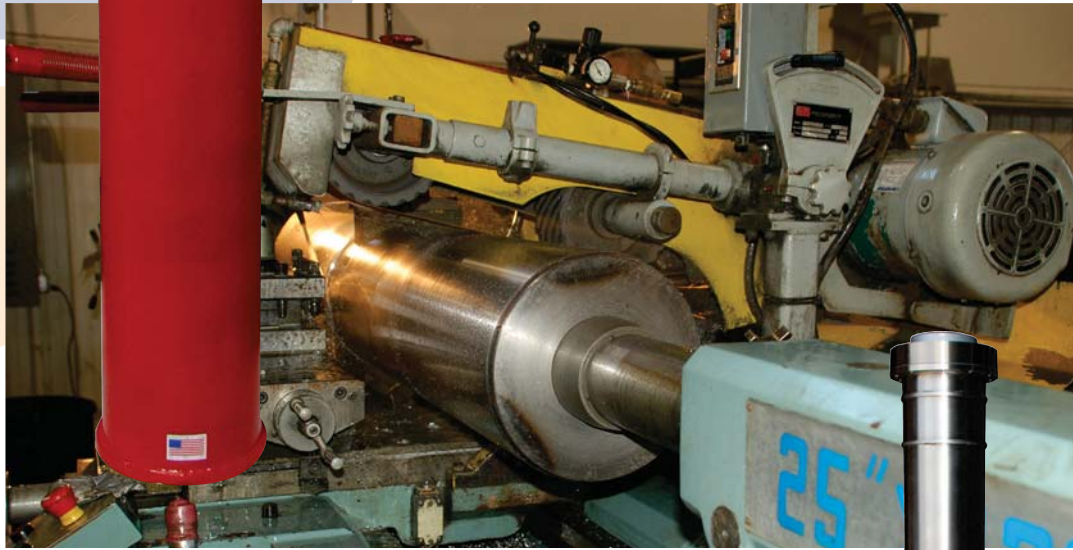
MLM Lifts and Manufacturing, LLC is a leading producer of both high capacity, large diameter single-acting hydraulic cylinders and custom fabricated steel products for various industries. With an engineering data bank that extends back to 1928, capabilities and design styles are vast. For your special fabrication needs and robust cylinders to get the job done, put the MLM team to work for you. Cylinders are available in many stroke lengths and four different diameters to suit your capacity or force requirements.

**SEMI-HYDRAULIC
FULL-HYDRAULIC**



**High Capacity
Low Pressure
INDUSTRIAL**
or any application

Single-Acting Hydraulic
Cylinders
for Custom Applications



*Where "well made" and "low cost"
can actually be used in the same sentence.*



**Specialty
Fabrication**

(see back for details)



A Family-Owned Enterprise

MLM Lifts and
Manufacturing LLC

800-543-8006

815-748-9500 • fax: 815-748-9508

155 Harvestore Drive • DeKalb, IL 60115

www.MLMLiftsandMfg.com



Single-Acting Hydraulic Cylinders

for Custom Applications

OPTIONS:

- Fiberglass Coated Casings for Below Grade or Wet Applications
- Industrial Hard Chrome Rod for Severe-Duty and Pharmaceutical Applications
- Multi-Post Cylinder Configurations
- Rack and Pinion Equalization
- Single and Multi-Position Locks Legs with Manual, Air or Solenoid Operated Releases
- Non-Rotators
- A.S.M.E. Air/Oil Pressure Vessels
- Electric Hydraulic Power Units
- Raise and Lower Control Panels

STANDARD COLOR FINISHES:



DUSL-style precision machined upper bearing with air bleeder. The wiper, seal and one glass filled nylon bearing are pictured in their respective cavities.



toll free
800-543-8006

MLM cylinders are precision-manufactured from special pressure-rated ASTM A-53 Grade B pipe. Each cylinder plunger/rod is turned and then polished to a 16 to 32 RMS finish for optimal function and sealing performance. The casing, or cylinder barrel, is welded together using thick end-head plate and special welding wire to ensure leak-free pressure rated performance. Once all the components are produced and final assembly is conducted, each cylinder is 100% hydraulically tested for smooth operation and proper performance before shipping.

DUSL-style cylinders feature two replaceable glass-filled nylon wear rings in the upper bearing housing that provide superior load bearing capabilities. The seal and wiper are made from a high performance thermoset polyurethane compound for long life and ozone and abrasion resistance.

SUSL-style cylinder is made using a cast-iron upper bearing housing that is easily replaceable and will perform ruggedly for many years. The seal and wiper are made from a highly abrasion-resistant buna N compound that has proven itself for decades.

All MLM cylinders can be purchased with a choice of optional fiberglass coating or in your choice of five standard finish colors. Custom colors are available for an additional charge. For harsher applications, optional industrial hard chrome is available for the plunger surface to prolong life and prevent corrosion.



Standard Air and Oil Control Valves for Full and Semi-Hydraulic Cylinder Units

Optional controls are available or can be specified in the system. When ordering new replacement cylinder base units for existing equipment valves can be omitted so existing controls can be reused.

A.S.M.E. Pressure vessels are equipped with safety plug to prevent accidental removal under pressure.

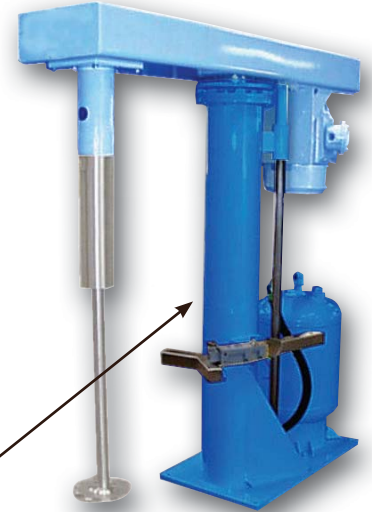
◀ Dual Cylinder in Testing Facility



well made, low cost

For replacement disperser hydraulic base units, please call for specific details. Complete new base units can be produced from your sample to meet the original performance profile or be changed to accommodate a new need.

Simply remove the disperser/mixer unit from the cylinder top, drain the oil from the system and ship it to us for replication. We will either return your old unit with the new base unit or scrap the old base unit for you.



Replacement plungers/cylinder rods are also available and can be produced per your sample.

New or replacement hydraulic base units for dispersers/mixers

5" Full Hydraulic Double Upper, Single Lower Bearing Style						
Cylinder #	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 165 PSI	Elec/Hyd 250 PSI	Elec/Hyd 350 PSI
DUSL-50-12	5"	12"	21-9/16"	2,727	4,145	5,814
DUSL-50-18	5"	18"	27-9/16"	2,721	4,140	5,809
DUSL-50-24	5"	24"	33-9/16"	2,716	4,135	5,804
DUSL-50-36	5"	36"	45-9/16"	2,705	4,124	5,793
DUSL-50-48	5"	48"	57-9/16"	2,694	4,113	5,782
DUSL-50-60	5"	60"	69-9/16"	2,684	4,102	5,771
DUSL-50-72	5"	72"	81-7/8"	2,673	4,091	5,760
DUSL-50-84	5"	84"	95-1/4"	2,661	4,079	5,748

6-1/2" Full Hydraulic Double Upper, Single Lower Bearing Style						
Cylinder #	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 165 PSI	Elec/Hyd 250 PSI	Elec/Hyd 350 PSI
DUSL-65-12	6-1/2"	12"	23-1/16"	4,613	7,011	9,831
DUSL-65-18	6-1/2"	18"	29-1/16"	4,607	7,005	9,825
DUSL-65-24	6-1/2"	24"	35-1/16"	4,601	6,998	9,819
DUSL-65-36	6-1/2"	36"	47-1/16"	4,589	6,986	9,807
DUSL-65-48	6-1/2"	48"	59-1/16"	4,576	6,974	9,794
DUSL-65-60	6-1/2"	60"	71-1/16"	4,564	6,961	9,782
DUSL-65-72	6-1/2"	72"	83-3/8"	4,551	6,948	9,769
DUSL-65-84	6-1/2"	84"	96-3/4"	4,537	6,935	9,755

10-5/8" Full Hydraulic Dual Upper, Single Lower Bearing Style						
Cylinder #	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 165 PSI	Elec/Hyd 250 PSI	Elec/Hyd 350 PSI
DUSL-106-12	10-5/8"	12"	24-13/16"	12,321	18,709	26,224
DUSL-106-18	10-5/8"	18"	30-13/16"	12,307	18,695	26,210
DUSL-106-24	10-5/8"	24"	36-13/16"	12,293	18,681	26,196
DUSL-106-36	10-5/8"	36"	48-13/16"	12,265	18,653	26,168
DUSL-106-48	10-5/8"	48"	62-11/16"	12,233	18,621	26,136
DUSL-106-60	10-5/8"	60"	77-3/8"	12,199	18,587	26,103
DUSL-106-72	10-5/8"	72"	92-1/8"	12,166	18,554	26,069
DUSL-106-84	10-5/8"	84"	106-13/16"	12,132	18,520	26,035

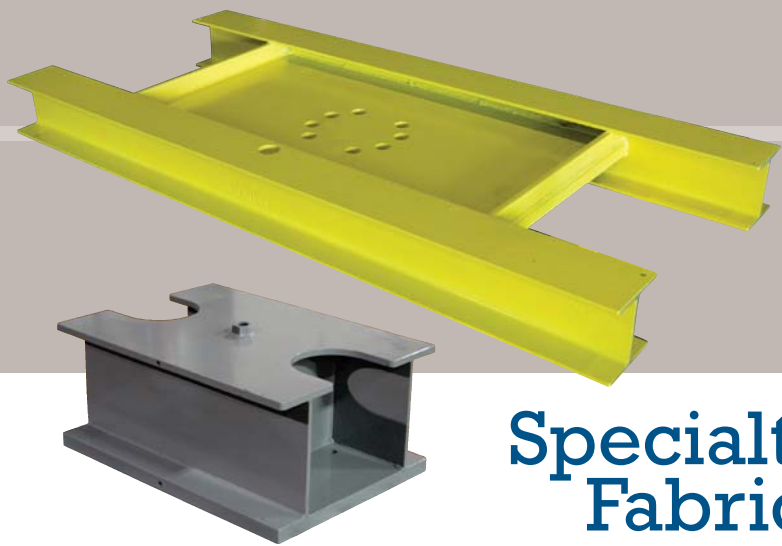
7-1/2" Full Hydraulic Single Upper, Single Lower Bearing Style						
Cylinder #	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 165 PSI	Elec/Hyd 250 PSI	Elec/Hyd 350 PSI
SUSL-75-12	7-1/2"	12"	21-9/16"	6,174	9,377	13,147
SUSL-75-18	7-1/2"	18"	27-9/16"	6,165	9,369	13,138
SUSL-75-24	7-1/2"	24"	33-9/16"	6,157	9,361	13,130
SUSL-75-36	7-1/2"	36"	45-9/16"	6,141	9,345	13,114
SUSL-75-48	7-1/2"	48"	57-9/16"	6,125	9,329	13,098
SUSL-75-60	7-1/2"	60"	69-9/16"	6,109	9,313	13,082
SUSL-75-72	7-1/2"	72"	81-9/16"	6,092	9,296	13,065
SUSL-75-84	7-1/2"	84"	93-9/16"	6,074	9,278	13,047

10-5/8" Semi-Hydraulic (no tank required) Dual Upper, Single Lower Bearing Style						
Cylinder #	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 100 PSI	Air/Oil 125 PSI	Air/Oil 165 PSI
DUSL-106S-12	10-5/8"	12"	26-1/16"	7,326	9,192	12,177
DUSL-106S-18	10-5/8"	18"	32-7/8"	7,307	9,173	12,159
DUSL-106S-24	10-5/8"	24"	39-5/8"	7,289	9,155	12,140
DUSL-106S-36	10-5/8"	36"	53-3/16"	7,252	9,118	12,104
DUSL-106S-48	10-5/8"	48"	66-3/4"	7,215	9,081	12,067
DUSL-106S-60	10-5/8"	60"	80-5/16"	7,179	9,045	12,030
DUSL-106S-72	10-5/8"	72"	93-7/8"	7,142	9,008	11,994
DUSL-106S-84	10-5/8"	84"	107-7/16"	7,105	8,971	11,957

8-1/2" Full Hydraulic Dual Upper, Single Lower Bearing Style						
Cylinder Number	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 165 PSI	Elec/Hyd 250 PSI	Elec/Hyd 350 PSI
DUSL-85-12	8-1/2"	12"	24-15/16"	7,918	12,029	16,866
DUSL-85-18	8-1/2"	18"	30-15/16"	7,906	12,018	16,855
DUSL-85-24	8-1/2"	24"	36-15/16"	7,895	12,006	16,843
DUSL-85-36	8-1/2"	36"	48-15/16"	7,872	11,983	16,820
DUSL-85-48	8-1/2"	48"	62-1/8"	7,846	11,957	16,794
DUSL-85-60	8-1/2"	60"	76-13/16"	7,818	11,929	16,766
DUSL-85-72	8-1/2"	72"	91-1/2"	7,789	11,900	16,737
DUSL-85-84	8-1/2"	84"	106-1/4"	7,761	11,872	16,709

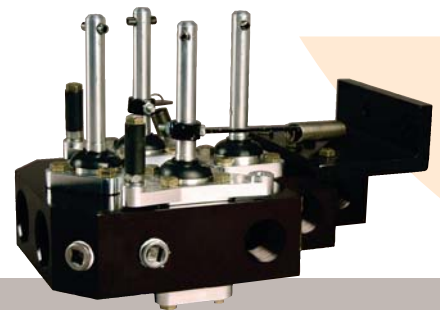
12-5/8" Full Hydraulic Dual Upper, Single Lower Bearing Style						
Cylinder #	Plunger Rod Size	Stroke*	Overall Length**	Capacity/Force at Pressure***		
				Air/Oil 165 PSI	Elec/Hyd 250 PSI	Elec/Hyd 350 PSI
DUSL-126-12	12-5/8"	12"	28-13/16"	17,388	26,433	37,074
DUSL-126-18	12-5/8"	18"	34-13/16"	17,364	26,409	37,049
DUSL-126-24	12-5/8"	24"	40-13/16"	17,340	26,384	37,025
DUSL-126-36	12-5/8"	36"	52-13/16"	17,291	26,335	36,976
DUSL-126-48	12-5/8"	48"	66-11/16"	17,235	26,279	36,920
DUSL-126-60	12-5/8"	60"	81-3/4"	17,173	26,218	36,859
DUSL-126-72	12-5/8"	72"	96-7/8"	17,112	26,156	36,797
DUSL-126-84	12-5/8"	84"	112"	17,050	26,095	36,736

* Stroke lengths indicated are suggestions and can be changed to meet a specific need.
 ** Overall length of cylinder can vary based on side load characteristics.
 *** The Lifting Capacity is based upon a balanced load and significant side loads will reduce the lifting capacity.



Specialty Fabrication

MLM's fabrication shop is well-suited to handle your one off, two off or more requirements. Beyond ones and twos, short-to-medium-size jobs are also a perfect fit for the shop. Companies depend on us regularly for specialty and custom-fabricated items as well as repeat jobs. Put the MLM team to work for you the next time you need fabricated steel products. Quick turnaround time on pricing and reasonable lead times help to fit the busy schedule of today's fast pace.



OUR SPECIALITY:

- Ones and Twos
- Short Runs
- Medium Runs
- Repeat Jobs

DISTRIBUTION MARKETS SERVED:

- Agricultural
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- Material Handling
- Industrial
and more!



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