

## Trusted For Reliability & Service

Hydraulic : Power Pack's & Cylinder's



Leading Manufacturers Of

**Hydraulic Power Pack's & Hydraulic Cylinder's**

## About Us

We have established our firm in the year 2007 in the name of "M.R. Enterprises" and became well & renowned Manufacturers of Hydraulic Power Packs and Cylinders. Being Distributors and Traders we Supply Hydraulic Valves, Pumps, Pipes & fittings. We are also the manufacturers of Hydraulic Press machines, Material Handling Equipments and SPM machines.

These machines are fabricated and assembled under the norms of international quality, using raw materials of superior grade. With the support of our expert team, professionals & well established production unit, we are capable of providing a high quality product range to our clients at affordable prices. Our complete product range is treasured for its specific features such as optimum performance, durability, sturdy construction and technical advancement. The entire range is available in various technical specifications as per the requirement of the buyer. We have established a huge client base across the nation since we have adopted transparency in our trade dealings.



### Vision

"We envision adhering to our Core Values of being a reliable market leader & simultaneously offering unsurpassed Organizational Excellence in all our undertaking"

"Our mission is to be a dynamic team, providing the highest quality material to customer with appropriate & satisfactory services available"



### Mission

## Core Values



TEAMWORK



CUSTOMER  
SATISFACTION



QUALITY  
PRODUCTS



INTEGRITY



SAFETY FIRST



RESPECT  
FOR PEOPLE

## ▪ Hydraulic Power Pack

M.R. Enterprises is the Leading Manufacturer and supplier of Hydraulic Power Packs and cylinders in India. These Systems are available for both light and heavy duty application. Only highly sophisticated Quality Pumps, Valves and all other accessories are used in these Systems to ensure excellent performance.

We have designed the Power packs According to customer needs and application for various tank capacities up to 2000 Ltrs with Electric Motor up to 37.5 KW and Pressure Range up to 250 bar. We Provide these system in AC or DC Current according to the requirement of the buyer

Our Power Pocks are widely applicable for Drilling, Clamping, Fixture, Lifting, Slotting, Moulding and Press machines and serving many more purposes.



## Our Designs & System's Are As Follows :

### ▪ Standard Hydraulic Power Pack

Standard Hydraulic Power packs are generally used in most of the industries. These Power Pack are not only easy to assemble but also can be maintained in a simple way. With the motors up to 37.5 KW, flow rates up to 100 Liters/minute, tank capacities up to 200 liters and pressure capability up to 250 bar, one can meet the industrial requirements in a most efficient way.

### ▪ Non Standard Hydraulic Power Pack

Non-standard Hydraulic Power Packs generally are not used in majority of the industries due to their some of the disadvantages, combinations and specifications. These power pack are rarely used in some of the industries to serve their specific requirements only.

Non-standard power packs are used where the Standard Power packs does not serve the purpose in a proper way. Though the motor capacity is standard, other things will be of non-standard as per the requirement of the industry.



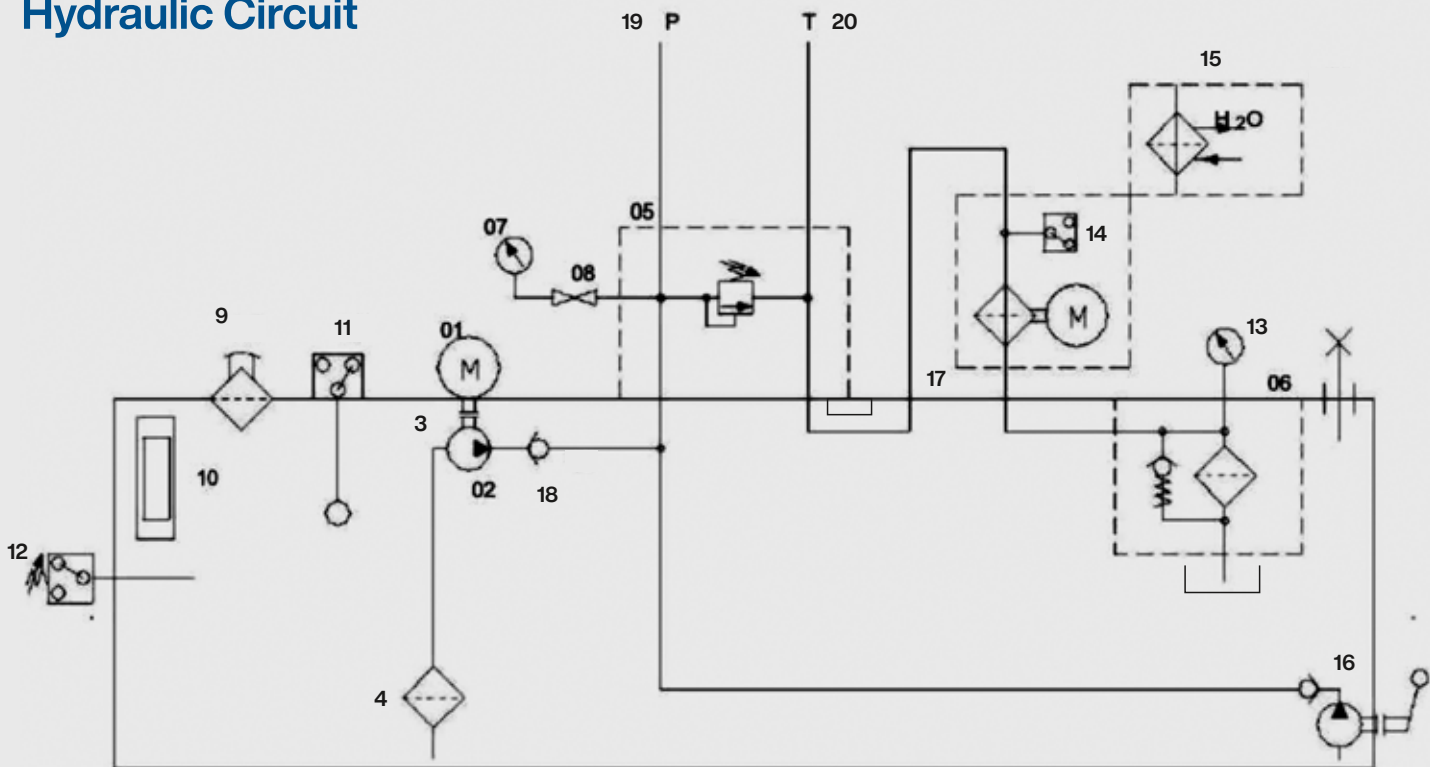
## Mini Hydraulic Power Pack

During the invention of hydraulic power packs, mini hydraulic power packs have been designed and manufactured to get highest performance from the machines. These have been designed even in size of 89 mm square foot print and can be made available as an HPR reversible or HPU uni-directional build with 150 to 800 wt DC/AC motor, flow rate of 4 LPM are possible & pressure of 200 Bar can be reached .



We provide in-house designed from most compact units to largest standard AC Hydraulic Power Pack units with best quality of all accessories.

### Hydraulic Circuit



\* - OPTIONAL

#### Sillot Material :

1. Electrical Motor	8. Gauge Isolator	15. Water Heat Exchanger
2. Pump	9. Air Breather	16. Hand Operated Pump
3. Conecting Flange	10. Oil Level Indicator	17. Pump Motor for Return Line
4. Suction Filter	11. Oil Temperature Sensor	18. Non Return Valve
5. Pressure Relief Valves	12. Oil Heater with Thermostat	19. Pressureline outlet
6. Return Line Filter	13. Clogging Indicators	20. Tankline inlet
7. Pressure Gauges	14. Pressure Switch	

# Pump-Motor-Tank Selection

PUMP GROUP 1													PUMP GROUP 2													PUMP GROUP 3													MAX ACHIEVABLE PRESSURE (BAR)		MOTOR (KW)		TANK SIZES AVAILABLE (LTRS)	
																																							cc /rev FLOW lpm					
1	1.25	16	2.0	2.5	3.15	3.56	4.2	5	6.1	9.8	6.2	8	10	11	12	14	15	16	19	22	20	25	28	28	36	42	46	50	55	60	1.5		16		30									
1.5	18	2.3	2.9	3.6	4.6	5.3	6.1	7.3	8.8	14.5	9.1	11.9	14.5	16.4	17.4	20.3	21.8	23.2	27.6	31.9	20.9	36.3	40.6	46.4	52.5	60.9	66.7	72.5	79.8	87	0.55		16		30									
209	167	130	104	83	66	57	50	42	34	21	45	35	28	25	24	20	19	18	15	13	209	36.3	40.6	46.4	52.5	60.9	66.7	72.5	79.8	87	0.75		16		30									
250	228	178	142	114	90	78	68	57	47	29	66	51	42	37	35	30	28	26	22	19	209	36.3	40.6	46.4	52.5	60.9	66.7	72.5	79.8	87	1.1		16		30									
250	228	181	156	135	114	93	58	58	58	58	90	69	57	50	47	41	38	36	30	26	250	228	203	178	158	135	124	114	103	95	1.5		16		30									
250	250	228	209	199	167	137	85	85	85	85	132	102	83	74	70	60	56	52	44	38	42	33	30	26	23	20	18	17	15	14	2.2		30		55									
250	250	250	250	228	187	116	116	116	116	116	181	139	114	101	95	81	76	71	62	52	57	46	41	36	32	27	25	23	21	19	3		30		55									
250	250	250	250	250	200	155	155	155	155	155	241	185	152	134	126	108	101	95	80	69	76	61	54	47	42	36	33	30	28	25	4		30		55									
250	250	209	185	174	149	139	130	80	95	180	250	250	209	185	174	149	139	130	80	95	104	83	75	65	58	50	45	42	38	35	5.5		55		75									
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	237	203	190	178	150	129	142	114	102	89	79	68	62	57	52	47	7.5		55		75									
250	250	250	250	250	250	250	250	250	250	250	209	167	149	130	116	99	91	83	76	70	209	167	149	130	116	99	91	83	76	70	11		100		180									
250	250	250	250	250	250	250	250	250	250	250	250	228	203	178	158	135	124	114	103	95	250	228	203	178	158	135	124	114	103	95	15		100		180									
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	18.5		100		180									
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250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	30		180		180									

Eg. Group1 pump with 3.15 cc/rev gives flow rate of 4.6 lpm, Max Pressure Of 181 bar, Motor 1.5 kW, 30 Litre Tank

Design Notes :-

In general the tank volume should be a minimum 3 times the flow rate. Eg - 30 lpm flow = 100 Litre Tank

## ▪ Hydraulic & Pneumatic Cylinder

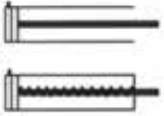

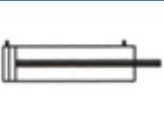
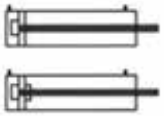
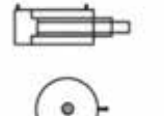

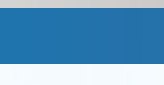
Hydraulic Cylinder for Heavy and medium duty

Owing to our well-developed manufacturing unit and dexterous workforce, we are able to introduce an outstanding collection of Hydraulic Cylinder that is offered in varied designs, sizes and other related specifications to cater the varied application requirements of our clients. In order to ensure its high quality, our professionals implement strict quality standards at each stage of the production process. Also, we are capable of designing this product as per the preferences laid by our clients.

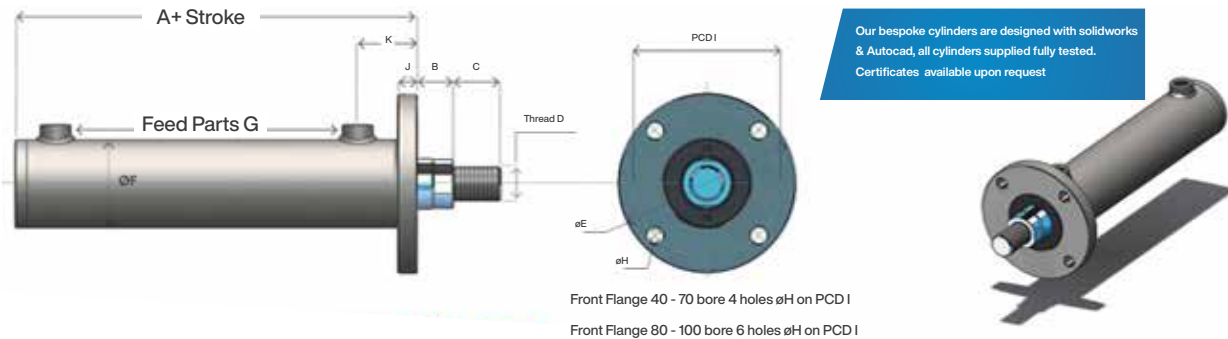


## Application

### ▪ Hydraulic Cylinder

Denomination	Application	Symbol
Single-acting cylinder	The fluid pressure is applied in one sense only (forward stroke) Back stroke : by undefined force By means of a spring	
Double-acting cylinder	The fluid pressure is applied alternatively in two direction (forward & back stroke) Single rod Double rod	 
Differential cylinder	The ratio between the cylinder section & the ring section of the piston near the rod is essential for the cylinder operation Double rod	
Cylinder with non-adjustable cushion	Acting from one side only Acting from both side	 
Double-acting telescopic cylinder	Cylinder with several pistons which enter into each other with forward & backward movement	
Hydraulic pressure source		
Pipes	Control Pipe (straight line for simplified representation)	

## ▪ Cylinder Dimensions



Bore DIA	Rod DIA	A	B	C	D	E	F	G	H	I	J	K
40	20	108	25	25	M16 x 1.5	109	50	1/4" BSP	11	87	12.5	40
	25											
50	25	118	30	25	M16x1.5	128	60	3/8" BSP	13	105	14.5	43
	30			30	M20x1.5							
	35											
60	30	137	30	30	M20x1.5	142	70	3/8" BSP	13	117	16.5	50
	35			35	M24x2.0							
	40			40	M27x2.0							
63	30	137	30	30	M20 x 1.5	142	73	3/8" BSP	13	117	16.5	50
	35			35	M24 x 2.0							
	40			40	M27 x 2.0							
70	35	143	35	30	M24 x 2.0	162	80	3/8" BSP	15	127	16.5	50
	40			40	M27 x 2.0							
	50											
80	40	163	35	40	M27 x 2.0	181	95	1/2" BSP	17	149	18.5	60
	50			45	M33 x 2.0							
	60											
100	40	187	40	40	M27 x 2.0	194	115	1/2" BSP	17	162	24.5	82
	50			45	M33 x 2.0							
	60	192	50	50	M39 x 2.0							
	70											

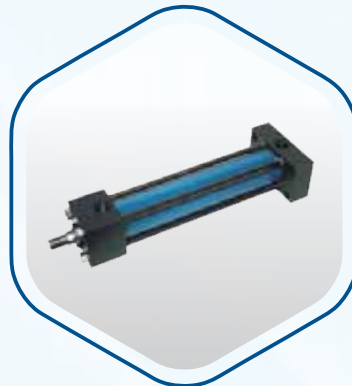
- ✓ Maximun working pressure 210 bar.
- ✓ Test pressure 300 bar unless otherwise stated.
- ✓ Cylinder material : ST52.3 DOM & CDS tube DIN2393 I.S.O. H8 & H9
- ✓ Rod material : Standard Grade En8 DIN UNI Ck45, Hard Chrome Plated, minimum 25 microns
- ✓ Alternative rod materials available : Chrome plated Stainless Steel grades 431S29T / 316 / 304;
- ✓ NIKROM 350
- ✓ Headbrush material : Cast Iron - UNI5007 - G25 unless otherwise stated
- ✓ Bore diameters available from 25 mm to 250 mm
- ✓ 350 bar Heavy Duty range of cylinders & alternative rod & bore combinations available.

## Cylinder Range

✓ **Bore Size** - 25 to 300 mm | ✓ **Stroke** - up to 6 meter | ✓ **Pressure Range** - up to 250 Bar.

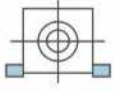
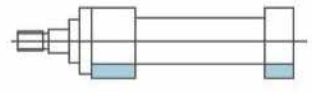

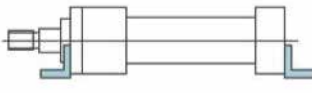
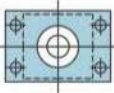

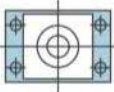
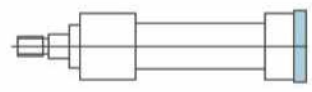

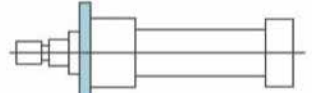




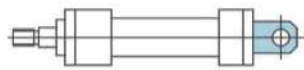

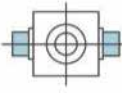
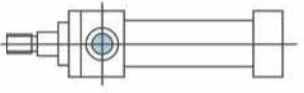
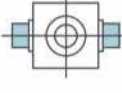
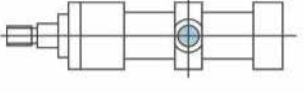

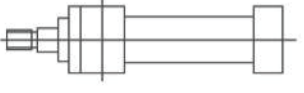
## Cylinder Type

- ✓ Custom Build Cylinder
- ✓ Compact Cylinder
- ✓ Tie Rod Construction Cylinder
- ✓ Welded Type Cylinder
- ✓ Clamping Cylinder
- ✓ Ram Type Cylinder
- ✓ Threaded Body Cylinder
- ✓ Tandem Type Cylinder
- ✓ Telescopic Cylinder
- ✓ Trunnion Mounting Cylinder
- ✓ Clevis End Cylinder
- ✓ Lug Mounting Cylinder





## ■ Mounting

Symbol	Name	Illustration of Mounting Type		CJT35 CJ35TL	CJT70 CJT70L	CJT140 CJT140L	CJT210
LA	Foot Mounting Side Lungs			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LB	Foot Mounting Side End Angles			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
FA	Rod Rectangle Flange			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>
FE					<input type="radio"/>	<input type="radio"/>	
FY					<input type="radio"/>	<input type="radio"/>	
FB	Head Rectangle Flange			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>
FF					<input type="radio"/>	<input type="radio"/>	
FC	Rod Square Flange				<input type="radio"/>	<input type="radio"/>	
FD	Head Square Flange				<input type="radio"/>	<input type="radio"/>	
CA	Cap Detachable Eye			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CB	Cap Detachable Clevis			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
TA	Rod Trunnion			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
TC	Intermediate Trunnion			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SD	Basic Type			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



**We Are Authorised Business Partners With**

- Dev Machinery.
- Tucson Hydro Controls Pvt. Ltd.
- Sonico Industries.
- THM Huade Hydraulic Pvt. Ltd.



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