

HYDRO CRAFT DESIGN SOLUTIONS

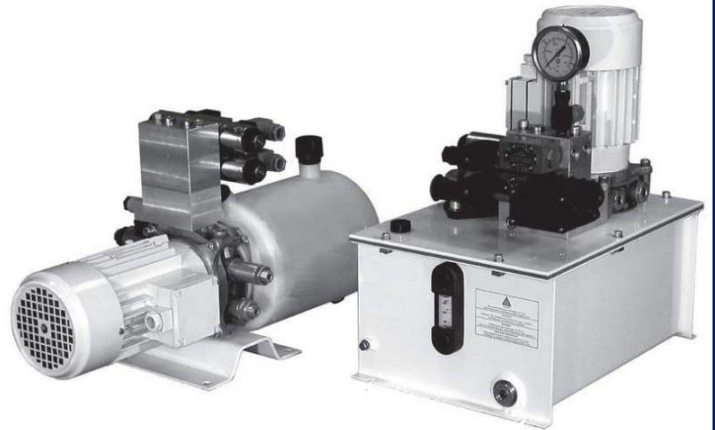
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Specialist: Hydraulic Power Pack, Hydraulic & Pneumatic Cylinder, Rotary Actuator, Manifold Block and Electromechanical Actuator

Address: Beledanga Road, P.O- Jote Shibrapur, P.S- Maheshtala, Kolkata-700141.

E- mail: hydrocraftdesign@gmail.com M: +91 8240409825 / 9433414101



About Us-

Hydro Craft Design Solutions is a well-established for customized Hydraulic & Pneumatic Cylinders and Hydraulic Systems. We have 20 years of experience in designing and manufacturing of the hydraulic components. We specialize in customized hydraulic cylinders, Telescopic Cylinder, Pneumatic Cylinder, Rotary Actuator, Hydraulic Power Pack, Compact Manifold Block and Electromechanical Actuator (Power Screw Actuator).

We offering complete Hydraulic solutions at the most competitive prices.

The objective well defined - To provide clients with highly reliable hydraulic and pneumatic cylinders and power packs at a competitive price and in the fastest possible time.

With our experience of over several years and a variety of application requirements, the time required for developments is very short. To ensure higher product quality and reliability, we employ latest machines, manufacturing techniques and quality systems.

ACHIEVE HYDRAULICS & PNEUMATICS has the extensive engineering experience, as well as In-house capability to custom design the mechanical, hydraulic, and electrical / control features to yon specific application. We have the team of experienced engineers who design, manufacture, and commission and service products. Manufacturing of all critical components as well as assembly of all our products is performed In-House.

We have developed the capability of the most innovative designs in the shortest possible lead time.

Products-

Mill Duty Type Cylinders-

Mill duty cylinders are manufactured according to ISO 6022 Standardization up to 350 bar pressure.

Heavy-duty, high-yield-strength steel throughout the cylinder, including the flange, ensures maximum durability. The threaded flange design enables reliable operation in even the most demanding applications.



Welded Type Cylinders-

Welded cylinders are designed for most applications and are more complex in design. Welded cylinders are typically a better solution due to their rugged performance, compact design and when a more robust design is important in an application. The barrel is welded directly to the end caps. The ports are welded to the barrel. The front rod gland is usually threaded into or bolted to the cylinder barrel. This allows the piston rod assembly and the rod seals to be removed for service.



Tie-Rod Type Cylinders-

Tie-rod cylinders are usually installed in light to medium duty applications and are generally designed to be repaired or re-packed if necessary. Tie rod type hydraulic cylinders use high strength threaded tie rods to hold the both end caps of the cylinder. It can sustain the hydraulic pressure up to 200 Bar. This method of construction is most often seen in industrial applications.



Mobile Cylinders-

High-strength Construction built from durable materials such as alloy steel, the cylinder ensures exceptional longevity even under demanding operating conditions. It can withstand heavy loads and harsh environmental factors, ensuring reliable performance over its service life. The cylinder's hydraulic system is fully sealed to prevent leakage and contamination. This ensures consistent operation and minimizes maintenance requirements, enhancing overall efficiency and performance.



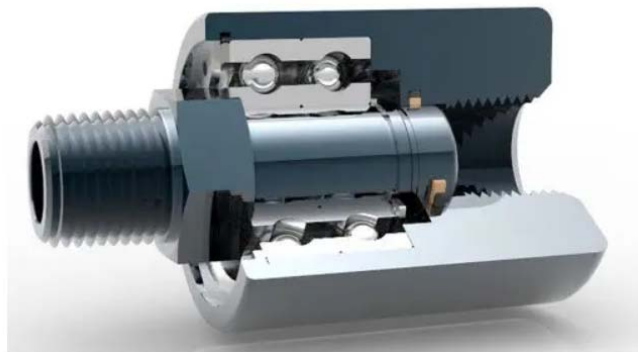
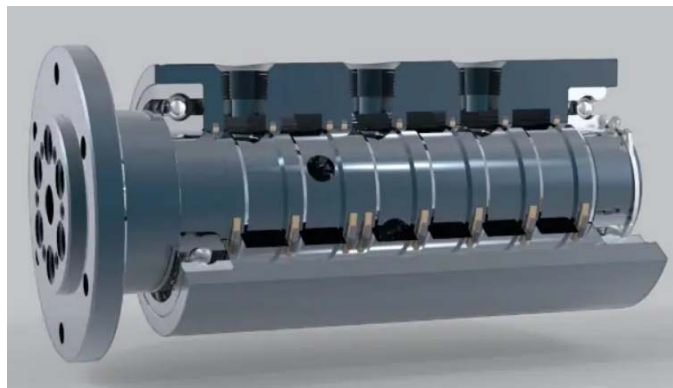
Telescopic Cylinders-

We specialized to creating heavy duty telescopic cylinder for steel plant and mobile equipment. There are two different types of telescopic hydraulic cylinder, single-acting cylinders and double-acting cylinders. These cylinder are commonly used in applications requiring a long stroke, but space is limited, such as in dump trucks, cranes, and other heavy machinery. Telescopic cylinders are available in various types, each designed for specific applications based on their requirements.



Rotary Union-

A rotary union is essentially a type of mechanism that maintains a seal between a rotating element and stationary componentry, allowing for the transfer of various types of fluids and gases.



Hydraulic Cylinders With Position Feedback-

Cylinder Position Sensors, play an important role in making hydraulic cylinders safe and efficient. Cylinder position sensors like the popular LDT (Linear Displacement Transducer) provide accurate and reliable absolute position feedback to help automate or control hydraulic cylinders. Linear position sensors are mounted inside, or right next to, hydraulic cylinders, subjecting their electric circuits to an extreme working environment.



Hydraulic Rotary Actuator (Rack And Pinion)-

The rack and pinion actuator is ideal for the highest demands on torque. This is created and transferred through a rack and pinion piston located diagonally to the propelling tappet developed with a pinion. The lateral forces arising from the teeth and affecting the back of the piston opposite are counterbalanced hydraulically or supported by rolling bearings depending on design. This rotary actuator is particularly suitable for high torque.



Hydraulic Power Pack and Manifold Block-

We are involved in developing & providing best range of Industrial Power Pack Units and Manifold Blocks. We are providing customized solutions for any industrial application.

Hydraulic Power Pack units are the main driving components of Hydraulic systems. It mainly consists of Reservoir, Hydraulic Pumps, Motor, Pressure control; Flow Control & Direction control Units. It can generate a tremendous amount of power to drive any hydraulic systems.

The hydraulic components used in power pack systems are of reputed make like Rexroth, Yuken, Polyhydron, Dowty, Hydroline, Eaton & Hydac. The quality & After sales technical support for Hydraulic Power Packs offered by us is appreciated for remarkable and efficient performance by our customers.



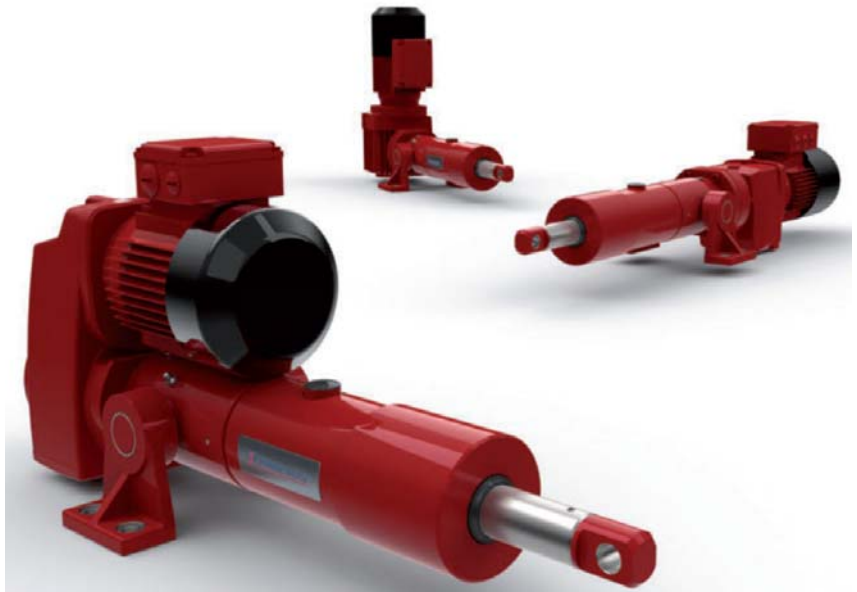
Pneumatic Cylinder-

We offer a huge range of pneumatic cylinders along with a large stroke range. We make customize cylinder, our manufactured Pneumatic Cylinders are available in sizes from 40 mm to 500 mm bore, and 16 mm to 2000 mm stroke. We use high-quality Aluminum Barrel, Stainless Steel Barrel, and M.S. Honed & Hard Chrome Plated Barrel in the making of Pneumatic Cylinders.



Electro Mechanical Actuator-

Electromechanical actuators (EMAs) are devices that convert electrical energy into mechanical motion. Using an input signal, usually electrical, they perform a mechanical output, thus the term 'actuator'. EMAs are widely used in various industries. The rotary motion of the motor is converted into linear displacement. The threads of the lead screw are used as a ramp that converts the small rotational force by magnifying it over a long distance.



Hydraulic & Pneumatic Seal Kit, Valves and Accessories-

We supply seal kits, valves and accessories and ensure one-to-one replacement for existing equipment.



