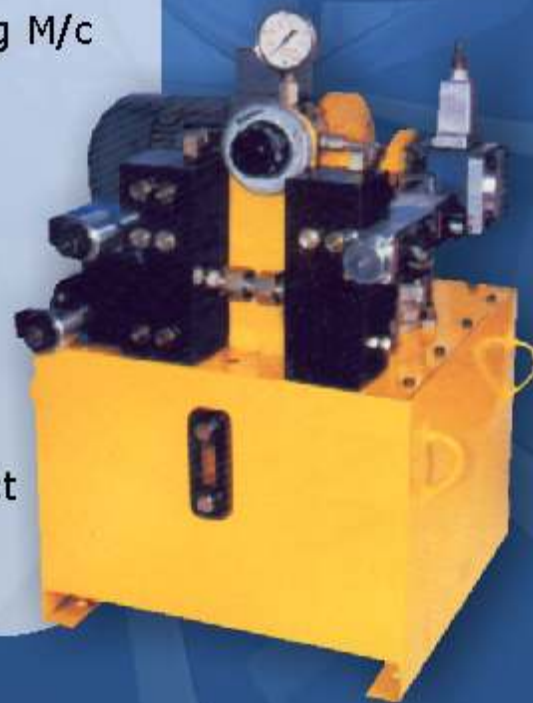




Committed to serve, determined to excel
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Products & Services

- ☞ Hydraulic power packs
- ☞ Hydraulic Test rigs
- ☞ Hydraulic Cylinders
- ☞ Hydraulic Press
- ☞ Hydraulic Scissor lifts
- ☞ Hydraulic Winch
- ☞ De-coiling cum Straightening M/c
- ☞ Press Feeders
- ☞ Conveyors
- ☞ Para-wash
- ☞ Porta Filter
- ☞ Blow Molding Machine
- ☞ Manifolds & Bell Housings
- ☞ Technical Consultancy
- ☞ Annual Maintenance Contract
- ☞ Technical Training
- ☞ Turnkey Projects



Design & MANUFACTURE OF
Hydraulic Equipment
&
Machinery

Hydropower Engineering Systems

Hydropower Engineering Systems is engaged in the design and manufacture of test facilities, Test rigs, material handling equipment such as hydraulic and pneumatically operated lift platforms, conveyors, belt loaders and hydraulic power packs and cylinders. Our activity also includes design and manufacture of de-coiling machines, press feeders, hydraulic presses, stainless steel power packs, servo hydraulic systems, servo actuators. Besides, we also undertake specialized design and development work, reconditioning and servicing of hydraulic oriented machinery & systems, erection commissioning consultancy and manufacturing of special purpose machines.

The company is backed by skilled and experienced workmen with manufacturing facility in Bangalore and is well supported by machinery suitable for carrying out the entire above task. As a matter of our company policy, specialized work is out sourced to be cost effective and to get the best out of the skill and infrastructure available in the country.

The company has earned recognition from well satisfied clientele ranging from corporate houses to small and medium sized companies for its technical competency, cost effectiveness and prompt service.

Our Philosophy: We at 'Hydropower Engineering Systems' are committed to customer satisfaction through quality, cost effectiveness, value for money, prompt and efficient service.



HYDRAULIC POWERPACK

Hydropower hydraulic powerpack are made from hydraulic components selected from the world wide range and put together to achieve desired functional requirement. These systems are designed with modular concept using the components having international mounting for ease of production, installation & service. Special attention is paid to minimize the compactness, noise level, safety & maintenance aspects. Hydropower powerpacks are engineered for continuous 24 hour per day operation and are built to withstand harsh, hostile environment.

We have designed & manufactured a special stainless powerpack of 2000 liters capacity conical tank with tangential return for testing.

HYDRAULIC TESTRIG

Test rigs for testing hydraulic pumps, manifold, hydraulic valves, automobile components, hoses and fittings up to pressure of 10000psi. Test rigs includes integral fluid reservoir, back up accumulators, all necessary panel mounted, pressure/ flow controls, pressure gauges, flow meters, Quick release couplings with complete electrical controls and instrumentation as required by the system. Test rigs can be supplied with computer/ PLC control for data acquisition and analysis.

HYDRAULIC PRESS

Hydropower offers hydraulic press upto 500-tonne capacity in H frame & 50 tonne in C-frame construction. Blanking Press, metal forming press, forging press, deep drawing press, baling press for metal scrap, FRP presses in multiple daylight & platen sizes are being produced. Tilting gravity die casting press upto 150 tonne & platen size 1500 x1500 with complete electrical & instrumentation are being manufactured. The presses are designed and manufactured to meet customer product requirements. We also offer complete electrical & PLC controled presses.

HYDRAULIC WINCH

Hydraulic winches are most common in hoisting and hauling applications. Winches can be air-borne, ship-borne vehicle borne or stationary. Hydraulic winches offer the advantages of high torque capability. Compactness combined with infinitely variable speed, smooth operation, static / dynamic braking etc.

HYDRAULIC CYLINDER

Hydropower Engineering Systems hydraulic cylinders are quality designed and manufactured for dependability and performance in a wide range of hydraulic applications. Hydropower can offer standard cylinders, single and double acting, tie rod, welded construction in bore diameters 40mm to 500mm. Stroke lengths to 3000 mm operating pressure to 300 bar, mounting ends are designed to customer requirements. Piston rods are hard chrome plated.

The following is important data for specifying Hydropower quality cylinders.

Piston rods: EN-8 materials are ground hard chrome plated. Special rod of induction hardened, end styles and sizes are available.

Ports: BSP, NPTF or SAE O ring ports can be arranged at any position related to cylinder mounting.

Seals: All cylinders incorporate seals suitable for use with petroleum-based fluids from -20 degrees C. to +60 degrees C. Seals material options to offer are PU, Viton, PTFE, and Nitrile. Contact our Engineering Department for applications and further details

Pressure Rating: Hydropower cylinders are rated for max. 300 bar (4200 PSI) continuous operation. Contact our Engineering Department for special applications requiring higher pressure.

HYDRAULIC SCISSOR LIFT

Hydropower specializes in the design and manufacture of scissor lift table, Hydraulic lift tables, process plant lifts, vehicle loading lifts, disabled access lifts, manual & mechanical handling lifts. Single scissor, double vertical scissor, double horizontal, custom designed

Capacity: Lifts are designed for uniform distributed loads from 500 kg to 12000 kg (0.5 T to 12 T)

Lift plat form: as per customer specification with / with out roller table & hand rails

Lift travel / stroke: upto 2000 mm

Cylinders: Single/ double acting cylinders, with built in hose burst safety valve at rear end port of each cylinder. The internal bore is honed & Piston rod is ground, hard chrome plated with good quality seals

Power pack: Electro hydraulic power pack is specially designed meet the required speed of lift and load. Hand operated pump can be supplied for smaller capacity & trolley mounted scissor lifts.

Controls: Complete electrical control panel with multiple options to your requirements

Safety: Hose burst valve is integral part of the lift cylinders, followed by electrical limit switches & mechanical stopper.

DE-COILING CUM STRAIGHTENING MACHINE

De coiling machines serve as press feeding equipment. Sheet metal in the form of large coils from rolling mills are loaded on de-coilers which uncoiling roll, straighten and consistently, continuously and accurately feed the press with sheet metal, Thus enabling high productivity with low manpower utilization and minimum material wastage. De-coiling machines are inevitable equipment for high productivity press industry such as automobile component manufacturers. De-coiling machines produced by hydropower are totally indigenous, reliable, cost effective and comparable with similar imported machines.

Machine Capacities:

Coil Width 300mm

Coil Thickness 1 to 10 mm

Max. Coil Weight 4000kg

Max. Coil Diameter 1600mm



PORTA FILTER

Hydropower has been a well known source for supply of oil transfer and filtration unit. Standard oil transfer and filtration unit or Porta Filter produced by us is very compact and useful equipment for industry with hydraulic operated machinery. Porta Filter helps easy & faster transfer of clean oil from barrel to machine reservoir or vice versa without wastage of oil and less time consumption compared to manual filling & removal of oil. Owing to its simplicity of construction, it can be easily handled by shop floor/maintenance personnel with low skills for topping up of oil level in machines periodically.

PRESS FEEDERS

Modern Automatic Press Feed Systems must cope with many material sizes and types. Whilst, thickness, pitch, length, speed and accuracy, all affect design; where as power source and desirable flexibility govern the overall concept. Pneumatic/ electro-hydraulic powered press feeders have been the most preferred types today. Because modern electronic have now brought the benefits of reduced cost, high productivity and unsurpassed versatility to be the electro-hydraulic roll feed.

PARAWASH

Para wash is equipment designed for cleaning/washing of machine components after machining before assembly. Para wash is very useful equipment for assembly and machine shops. It consists of a tank which contains cleaning agent such as Kerosene/Petrol etc, which is pumped by a positive displacement pump under pressure to enclosed cleaning chamber. Cleaning chamber is provided with transparent windows for operator to see the cleaning process. It has also provision for the operator to insert his hands through the two openings on the front side to access the components in the cleaning chamber for manipulating the components while cleaning.

Customized parawash can be designed & built to suit any specific application requirements of the customer.

MANIFOLDS & BELLHOUSING

Hydropower specializes in design and manufacture of varieties of precise machined fabricated bell housings which are used for integrating pumps and motors. As the bell housing are of fabricated construction, even small quantities can be made available with least delivery lead time. Bell housing can be made to meet any specific requirements of the customer.

Hydropower has been a reliable source for manifold blocks. Both standard and special manifold blocks are designed and manufactured by us. Apart from multistation standard CETOP 3 & CETOP 5 manifold blocks, Hydropower also undertakes supply of manifold blocks for screw in cartridge valves, slip in cartridges valves, valves with non-standard interfaces & accumulator safety blocks. Standard components such as tapping plates, sub-plates, cross over plates, adaptors for stackable pressure switches & adaptor plates for valves. Besides, special tapping plates for accumulators also form a part of our manufacturing range.

Hydropower Engineering Systems

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