

### SPECIAL HYDRAULIC CYLINDERS

These cylinders are designed and manufactured to specific customer requirement, to meet any specific application needs of the customer.

#### Specification :

Bore sizes : 50mm to 500mm  
Stroke Length : 25mm to 2500mm  
Seals : Frictionless PTFE / PU seals  
Max. working Pressure : 350 bar



### 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.



### 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.

### PORTA FILTER

Hydropower has been a well known source for supply 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 and 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.

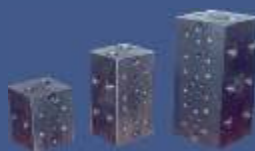


### PARAWASH

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 fo 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 & BELL HOUSING

Hydropower specializes in the design and manufacture of varieties of prices 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 requirement of the customer.



## Hydropower Engineering Systems

### Products & Services

- Hydraulic Pipe Swaging M/c
- Decoiling cum Straightening M/c.
- Hydraulic Press
- Hydraulic LFI Moulding Press
- Hydraulic Foam Mouding Fixture
- Pipe Chamfering M/c.
- Press Feeder
- Cable Crimping M/c.
- Stainless Steel Hydraulic Power Pack
- Test Rigs
- Special Hydraulic Cylinders
- Hydraulic Scissor Lifts
- Hydarulic Winch
- Para-wash
- Porta Filter
- Blow Molding Machine
- Technical Consultancy
- Annual Maintenance Contract
- Turnkey Projects



## Design & Manufacture of Hydraulic Equipment & Machinery

Committed to serve, determined to excel

### Hydropower Engineering Systems

Office: 182, 2nd Floor, K. B. A. R. Road, Austin Town, Bangalore - 560 047.

Factory: 201/1A, Kudlu Road, Near T.V.S Gowdon, Off. Hosur Road, Madiwala post, Bangalore - 560 068

Phone: (O) 080 - 2536 1221 (F): 080 - 51115845 Mobile: 98451 34513 Telefax: 080 - 2536 1221

Email: hpes\_bg@yahoo.co.in, info@hydropowerengineers.com website: www.hydropowerengineers.com

**Hydropower Engineering Systems** is engaged in the design and manufacture of Hydraulic Power packs, Hydraulic Machines, Test rigs, material handling equipment such as hydraulic and pneumatically operated lift platforms, conveyors, belt loaders and special hydraulic cylinders. Our activity also includes design and manufacture of Pipe Swaging machine, De-coiling cum straightening machines, Pipe chamfering Machine, 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.

### PIPE SWAGING MACHINE

The purpose of Swaging machine is to achieve reduction in diameter of the Pipe or Solid rod compared to the original size to a desired length. Our Swaging Machine depicted in the picture is a linear Swaging Machine which is based on cold forming process. This can be used for swaging both solid rods, as well as pipes. The machine is hydraulically operated. The advantage of this machine being considerable reduction in raw material wastage, high productivity, no stress concentration, low noise and low temperature process. The machine is controlled by PLC. Swaging length can be infinitely set by the operator via MMI. This is a sturdy and smooth machine.

#### Specification:

Max. diameter of the swaging component : 101.6mm  
 Max. swaging length : 500 mm  
 Max. swaging force : 150 ton  
 Max. power consumption : 40 HP  
 Raw Material : Mild Steel / Stainless Steel



### 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

#### HYDRAULIC PRESS

Hydropower offers hydraulic press upto 500-tonne capacity in 4-pillar type, H- frame type & 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 controlled presses.



### HYDRAULIC LFI MOULDING PRESS-150T

Hydropower hydraulic LFI moulding press is quality designed and manufactured for dependability and performance in the application. This is a tilting press with up and down movement with the clamping force upto 150T and stroke of 500mm.

#### Specification:

Type of Material : PU with Fibre Composites (Reinforced with glass fibre - 20 to 40%)  
 Max. Mould Size : 1500x1300x300 mm  
 Part Thickness : 3 to 25 mm  
 Tonnage : 150 Ton



### PIPE CHAMFERING MACHINE / EDGE PREPARATION MACHINE

Pipe Chamfering Machine / Edge Preparation, is designed for edge preparation of pipes. The machine can simultaneously carry out facing and chamfering operation. This machine is equipped with pneumatic clamping system and multi tool holding device. This job is stationary and cutting operation is performed by rotating tool. The machine also has A.C. variable frequency drive for selection of infinite cutting speed. Cutting feed rate is controlled manually. Optional Hydraulic/Pneumatic feeding can be given.

#### Specification:

Max. diameter of the job :101.6mm  
 Min. diameter of the Job :38.1mm  
 RPM range :45 to 350 RPM  
 Max. power consumption :5 HP

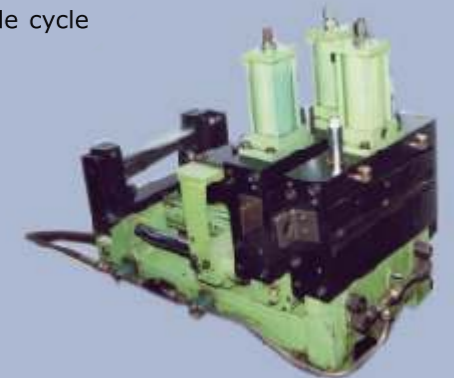


### P.U. FOAM MOULDING FIXTURE

This is an equipment meant for moulding of automobile seat cushions (Both 2 wheeler and 4 wheelers). This equipment can be operated hydraulically or pneumatically. The fixture houses 2 halves of moulding dies, which are held together by clamping cylinders. This is a single cycle automatic machine.

#### Specification:

Max. Clamping force : 8000 Kg.  
 Max. foam size : 1000mm x  
 1500mm x 300mm  
 Max. power consumption : 2 HP



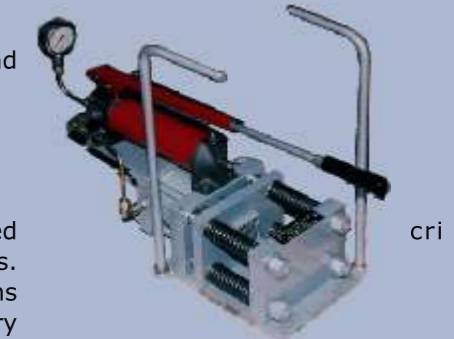
### PRESS FEEDERS

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.



### CABLE CRIMPING MACHINE

This is a compact hydraulic operated crimping press to join steel rope with end lugs. Both motorised and hand operated options are available. Easy to operate and very handy to take it to site.



### STAINLESS STEEL POWERPACK

Wherever there is need for low contamination level in hydraulic systems, stainless steel power packs are preferred. For example, Aviation industry, Servo Systems and Lab equipments. These power packs incorporate S.S.tanks, pipes and fittings, which help to considerably reduce self generated contamination due to corrosion. These Power packs can be designed and manufactured to meet customer's specific application needs. Conical Stainless steel tank design and tangential return line termination in these systems specially has the advantage of separating the particulate contaminants to achieve higher degree of fluid cleanliness.

### 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.

