



A STEP INTO THE QUALITY...

# **BAJANI** **HYDRAULICS**

Leading Manufacturer of Hydraulic Products.

## About us

Bajani Hydraulics is an accredited entity that has been serving standard and bespoke product development needs of the clients in the regional marketplace. The company holds accreditation to operate as a manufacturer and supplier of products like Hydraulic Cylinder, Hydraulic Powerpack, Hydraulic Hand Pump, Hydraulic Hose Fitting, Hydraulic Mobile Valve, Hydraulic Needle Valve, Hydraulic Piston Pump, Pneumatic Cylinder, Tractor Trolley Jack and Pressure Gauge among other. With us, one can place retail and bulk orders all around the year. Incorporated in 2019, Bajani Hydraulics has become a preferred choice of the patrons owing to its ethical trade practices and prompt solutions. The company is based in Rajkot (Gujarat, India) and we operate with a wide network of dealers and distributors across the nation.

## Why Us,

- Advanced & constant quality products
- Product Guarantee & Free replacement for premature products
- continuous quest for new design & its successful deliverance

## Industries we serve



**Cement Industries**



**Construction & Infrastructure Industries**



**Mining Industries**



**Marine Industries**



**Railways**



**Steel Plant**



**Food Processing Industries**



**Power Plant**

# Hydraulic Cylinder

A Hydraulic Cylinder is a mechanical actuator that is used to give a unidirectional force through a unidirectional stroke. It has many Applications, Notably in construction equipment (engineering vehicles), manufacturing machinery and civil engineering. Flanges, Trunnions, Clevises and Lugs are common cylinder mounting options. The piston rod also has mounting attachments to connect the cylinder to the object or machine component that it is pushing or pulling.

**We Are Manufacturer of All Type of Hydraulic Customised Cylinders Such as,**

Type : Single Acting, Double Acting

Bore Diameter 50 mm to 1000 mm

Stroke up to 11 meters

Working Pressure up to 600 Bar

Mounting Type - Flange Mounting, Swivel Bearing End, Clevis Mounting, trunion mounting, Tie rod type, Y-Pin Mounting

Pin Mounting, Foot Mounting.



# Hydraulic Power Unit

Hydraulic Power units (Sometimes referred to as a hydraulic power pack) is a self-contained system that generally includes a motor, a fluid reservoir and a pump. It works to apply the hydraulic pressure needed to drive motors, cylinder and other complementary parts of a given hydraulic system.

**currently we are manufacturing standard & Customised power pack units upto 500 bar working pressure. various types of power units such as.**

hand lever operated  
solenoid operated  
capacity from 2HP to 200HP  
Flow rate upto 400L/Min

## Range

KW upto 200 HP  
Oil Reservoir upto 10000 Ltr  
Working pressure upto 500 Bar  
Pump Flow upto 400 LPM  
Controls Manual, PLC & Customized feedback Electronics Sensors

## Features

Build with high quality hydraulic components  
prevents leakages  
low noise levels  
energy efficient design  
analyze your custom application  
easy to build circuit  
Designed to protect from contamination  
Long life components & easy availability

Application of these hydraulic units are for various types of press machine, Deep Draw machine, Press Break, Steel Plants, Sugar Factories, Plastic Injection Molding Machineries, Earth Moving Equipment, Construction Machine.

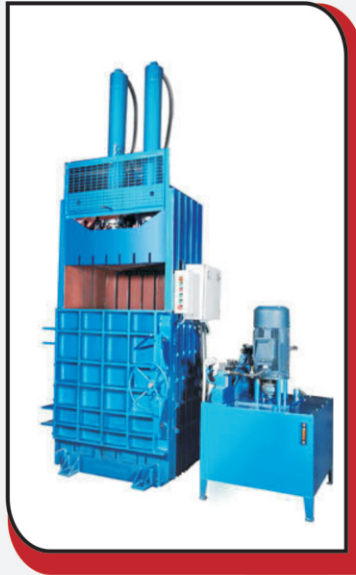


# Hydraulic Machineries

## Press Machine

A hydraulic press is a machine press using a hydraulic cylinder to generate a compressive force. It uses the hydraulic equivalent of a mechanical lever.

Hydraulic presses are commonly used for forging, clinching, moulding, blanking, punching, deep drawing and metal forming operations. The hydraulic press is advantageous in manufacturing, it gives the ability to create more intricate shapes and can be economical with materials. A hydraulic press will take up less space compared to a mechanical press of the same capability.



## Brick Machines

Hydraulic Brick Machine is used to make bricks using hydraulic assembly. this machine is widely use for making of bricks, blocks, paver blocks. Whole machine containing hydraulic system along with brick making die, hopper, conveyor, Roller to make a bricks automatically or less man power required.



# Valves

A valve is a device or natural object that regulates directs or controls the flow of a fluid (gases, liquids, fluidized solids, or slurries) by opening, closing or partially obstructing various passageways

## Various Type of valves such as,

**Direction Control Valve**

**Mobile Control Valve**

**Solenoid Valve**

**Relief Valve**

**Check Valve**

**Needle Valve**



**Solenoid Valve**



**Mobile Control Valve**



**Direction Control Valve**



**Relief Valve**



**Check Valve**



**Needle Valve**

# Pumps

## Gear Pump

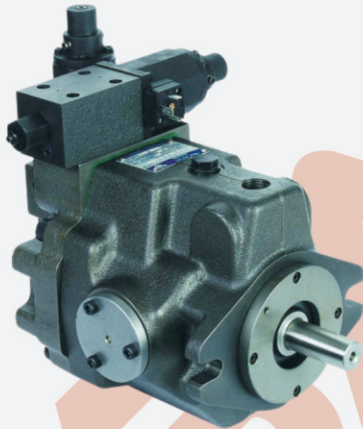
A gear pump uses the meshing of gears to pump fluid by displacement. They are one of the most common types of pumps for hydraulic fluid power applications.



## Piston Pump

A piston pump is a type of positive displacement pump where the high-pressure seal reciprocates with the piston. piston pumps can be used to move liquids or compress gases. They can operate over a wide range of pressure. High pressure operation can be achieved without a strong effect on flow rate. Piston pumps can also deal with viscous media and media containing solid particles.

There are two type of piston pump available in the market :  
Axial Piston Pump & Radial Piston Pump



## Vane Pump

A vane pump is a positive-displacement pump that consists of vanes mounted to a rotor that rotates inside a cavity. In some cases these vanes can have variable length and/or be tensioned to maintain contact with the walls as the pump rotates. They can endure short periods of dry operation and are considered good for low-viscosity fluids.

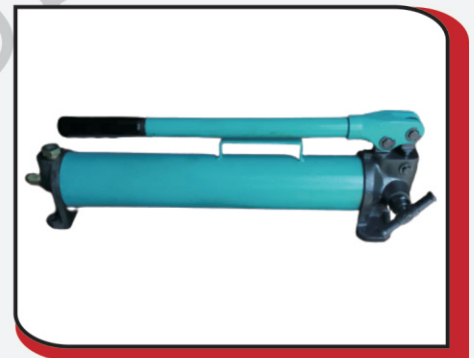
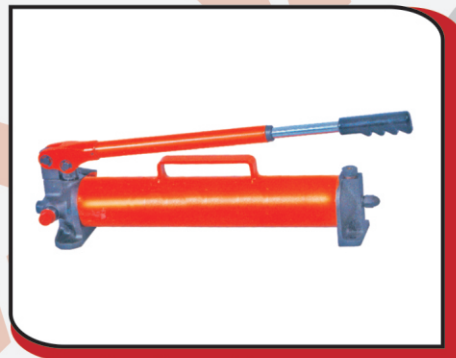
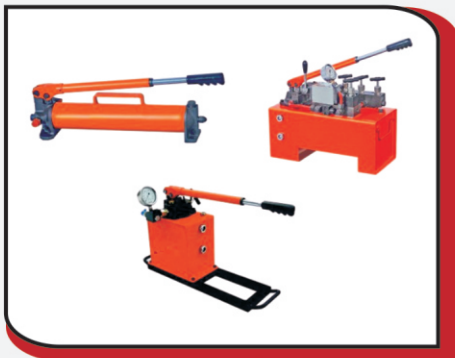
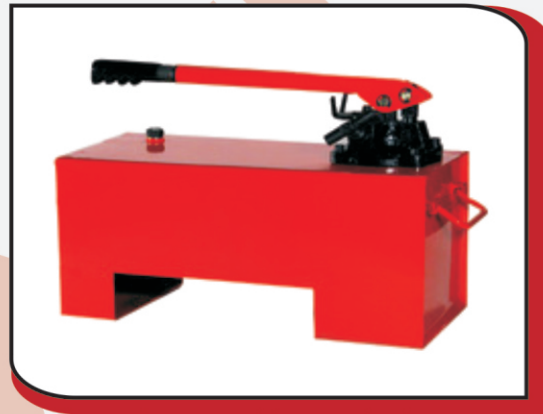


## Hand Pumps

Hydraulic Hand pumps is a hand operated unit which supplies oil to Hydraulic Jacks when in use. They come with Piston plunger assembly which helps in developing the pressure of 700bar to raise the Hydraulic jacks.

### Features

- Construction Graded Steel
- Ground & Plated Plungers
- Built-in-Factory set safety relief valve
- Durable PU seal
- Single stage pump for smaller capacity jacks
- Two stage pump for fast approach to load
- Compatible to all reputed brand jacks
- Available in 350,700,1000,1600,2800 Bar capacity



## Honed tubes & Chrome Plated Rod

We are supplier of high graded honed tube and hard chrome plated rod/shaft/ram.





# Various accessories

## Suction Strainer

SS 100 MESH / 149 MICRON STD.  
Aluminium Pressure Die Cast Nut  
Epoxy Bond  
Max. Working Temp. 80 Degrees  
Suitable for Hydraulic/Mineral Oil



## Bell Housing

By using bell housing motor and pump shaft are aligned to each optimally material aluminium low weight with sufficient strength horizontal assembly possible with foot cum flange motor Bell housing material high graded aluminium pressure die cast reduce noise generation considerably



## Air Breather / Filler Breather

Stainless Steel Cap. vents underneath filtration 40 micron standard metal or plastic strainer standard



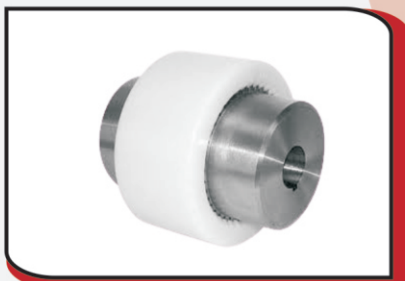
## Fluid Level Indicator

O ring type construction  
fact type :- 3" & 5" between bolt centers  
Knob type : 1/4" to 1 1/2" BSP (M) Connection.  
Body : Aluminium Pressure Die Cast



## Manifold

Manifold block for any type custom built system are available any type of sub plates for DC valve-pre, Relief Valve and flow control valve



## Gear Coupling

Maintenance free-No lubrication required  
Easy to assemble  
Electrically insulating



## Pressure Gauge

Pressure is typically measured in units of force per unit of surface area. instruments used to measure and display pressure in an integral unit are called pressure meters or pressure gauges or vacuum gauges. the widely used Bourdon gauge is a mechanical device, which both measures and indicates and is probably the best known type of gauge.



## Fittings

A fitting or adapter is used in pipe systems to connect straight sections of pipe or tube adapt to different sizes or shapes and for other purposes such as regulating (or measuring) fluid flow. These fittings are used in plumbing to manipulate the conveyance of water, gas or liquid waste in domestic or commercial environments, within a system of pipes or tubes.

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# **BAJANI**

## **HYDRAULICS**

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