ABEXMATIC HYDRAULICS PVT LTD
Manufacturers & exporters of Precision Hydraulic Presses Since 1991

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Precision Hydraulic Presses

Our Main Manufactured Products -
- High Speed cold forging Hydraulic Presses.
- Warm Forging Hydraulic Presses
- Hydraulic Deep Drawing Presses
- Hydraulic Compression moulding Presses
- Hydraulic Fluid Forming Presses
- Four Column Hydraulic Presses
- H-Frame Hydraulic Presses
- Pipes Elbow Forming Presses (SS/Carbon Steel/Copper)
- SS/Carbon Steel/Copper Pipe Tee Forming Presses
- Elbow and Tee Beveling Machines
- Jute Bailing hydraulic Presses
- Tube Mill and Allied Machinery/Complete Spiral Pipe Plant

ABOUT US

Abexmatic Hydraulics Pvt. Ltd is a distinguished Hydraulic machine manufacturing company established in 1990 in Delhi. We specialize in the manufacturing of standard as well as custom built highly precision Hydraulic Presses, all types of Hydraulic Cylinders and Power Packs.

The company is managed by highly qualified mechanical engineers and has its works at Bawana Industrial Area in Delhi and in Kundli Industrial Estate Haryana, having a total covered area of over 10,000 Sq. ft. The company has a well-equipped workshop required for manufacturing Hydraulic Machines and boasts of qualified engineers, Auto Cad designers, Supervisors, Quality Control engineers, highly skilled workmen and up-to-date top class manufacturing facilities for making all types of Hydraulic Presses.

Company Infrastructure -
Spread at area of over 10,000 Sq. ft. Its infrastructure comprises contemporary tools most suited for making Hydraulic Presses along with all the latest machines installed such as C.N.C turning, C.N.C Boring, Hydraulic Planer, Radial Drills, Millings, Shapers Precision grinders, Precision drill machines, Cutting & welding equipment to name a few, which are required for manufacturing impeccable Hydraulic presses.

All the work area in our factories is equipped with Heavy Duty E.O/Overhead cranes for facilitating safe movement of heavy machineries/materials.

Today, our vast experience, consistent quality up gradations & continuous R&D has made our products at par with the global standards. Utmost care is taken to ensure that Quality Standards are maintained throughout the manufacturing process. The company is supplying all types of Hydraulic Presses and Cylinders throughout India and abroad.

Quality Policy -
Abexmatic Hydraulics Pvt. Ltd. manufactures the Hydraulic Presses as per prevailing Indian & international standards. The company is certified by I.S.O – 9001/2008 certifying bodies & is equipped with all latest quality control equipments/instruments to meet the accuracy of the presses to the highest standards.

The presses produced by us undergo rigorous endurance tests for its full capacity prior to delivery with our aim to provide machines featuring safe and correct operating functions installed that meet exact industry requirements resulting in valuable satisfied customer experience. Most of our presses conforms to IS:14877 (part 1)- 2000, grade 1 to 3 standards depending upon customer requirements. We guarantee all our customers that our manufactured hydraulic presses pass strict and complete quality controls. Our timely after-sale services are also dedicated to fulfill the customer’s hour of need.

Our Commitment

- To achieve customer delight by understanding their needs and value creations through operational excellence
- Total commitment towards supplying premium quality, highly affordable hydraulic presses makes Abexmatic a preferred business partner in the competitive business arena. The company maintains latest in today’s manufacturing technology with a service oriented focus to fulfil all its commitment in an innovative and timely manner.

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TECHNICAL EXCELLENCE ALONG WITH
Durability, Repeatability & Reliability

Salient Features

The strength of our Hydraulic Presses lies in our state-of-art hydraulic power packs which use high pressure renowned Hydraulic valves of Rexroth/Parker and highly efficient high pressure multi-flow piston pumps of L&T which gives unparalleled rates of flow up to 400 L.P.M at 450 bar pressure. Our presses are equipped with High Pressure accumulators for fast pressing speeds required for cold forging.

The main Hydraulic cylinders of our presses are made from steel round bars machined in single stock and are fitted with one of the world’s best Hydraulic seals (Parker/Bushak/Hallide) imported from Europe which are capable of withstanding pressure up to 450 Bars.

The automatic centralized lubrication system fitted with our presses reduces wear & tear of the moving slides. We also provide our presses with hand safety light curtains to prevent operator injury during operation of the machine. The automatic front & back safety doors fitted in our cold forging presses prevent operator injury during Tool/Dies breakage.

Our Machines can be operated fully automatic by "PLC", Semi-automatic & inching operations are also provided in our machines through various manual controls, Sensors & push buttons.

Features :

- a) Computer Aided Optimized Structure Design with High Rigidity
- b) Long lasting radial multi-flow pumps
- c) Reliable safety devices & Protective doors
- d) LCD control with colorful touch screen

Other salient features

* Adjustable striker and pressure in the specified area.
* Pressure pre-reduce unit equipped in hydraulic system maximum hydraulic sheet
* Hydraulic units - 3-element

Deep Drawing

Process : 

<table>
<thead>
<tr>
<th>Unit</th>
<th>ABXD-100</th>
<th>ABXD-150</th>
<th>ABXD-200</th>
<th>ABXD-250</th>
<th>ABXD-300</th>
<th>ABXD-400</th>
<th>ABXD-500</th>
<th>ABXD-600</th>
<th>ABXD-800</th>
<th>ABXD-1000</th>
<th>ABXD-1200</th>
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<tbody>
<tr>
<td>TON</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>200</td>
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<tr>
<td>mm</td>
<td>200</td>
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<td>275</td>
<td>310</td>
<td>375</td>
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<td>450</td>
<td>475</td>
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<td>mm/sec</td>
<td>10 to 20</td>
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<td>10 to 20</td>
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<td>10 to 20</td>
<td>10 to 20</td>
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</table>

Deep Drawing Process:

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The traditionally designed 4-column hydraulic presses with reinforced steel structure are made for cold forging precision auto/Industrial components in mass production with minimum rejection & maximum tool life through minimum deflection, optimum hydraulic circuit design and integrated control of manufacturing processes.

**4-column Type Precision Cold Forging/ cold extrusion Hydraulic Presses**

**H Frame Type Precision Cold/Warm Forging Hydraulic Presses**

Also known as straight sided hydraulic press or gib Guided presses are placed in the most demanding applications. Ruggedly constructed with industry superior eight point gibbing, straight sided presses insure millions of cycles and extended tool wear.

**Standard H-Frame Presses Features**
- Extra deep slide construction provided extra rigidity and longer endurance capacity for increased resistance to deflection and off-center loads.
- Eight point oil lubed gib system insures longer life.
- Provide accurate guiding of the moving platen/slide with extra stability to resist any deflection under different load condition.

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**Table: ABEXMATIC Hydraulic Press Specifications**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>ABEXC-400</th>
<th>ABEXC-600</th>
<th>ABEXC-800</th>
<th>ABEXC-1000</th>
<th>ABEXC-1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressing capacity (TON)</td>
<td>400</td>
<td>500</td>
<td>600</td>
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<td>1000</td>
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<tr>
<td>Pull-out capacity (TON)</td>
<td>30</td>
<td>40</td>
<td>50</td>
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<td>80</td>
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<td>Table area (L x W) (mm)</td>
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<td>700x800</td>
<td>800x900</td>
<td>1000x1000</td>
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<tr>
<td>Stroke (mm)</td>
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<td>400</td>
<td>500</td>
<td>600</td>
<td>700</td>
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<td>Daylight opening (mm)</td>
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<td>750</td>
<td>800</td>
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<td>Descending speed (mm/sec)</td>
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<td>75</td>
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<tr>
<td>Ascending speed (mm/sec)</td>
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<td>300</td>
<td>300</td>
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<td>Intensifier capacity (kg/cm²)</td>
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<td>Die cushion capacity (TON)</td>
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<td>60</td>
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<td>Cushion stroke (mm)</td>
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<td>250</td>
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<td>Motor (HP)</td>
<td>50</td>
<td>60</td>
<td>60</td>
<td>75</td>
<td>100</td>
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</tbody>
</table>

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Cold Forming Machine

These cold forming machines are designed for manufacturing stainless steel, carbon steel & alloy steel with curvature of 1 x OD to 1.5 x OD. The products are widely used in the connection of the industrial pipe lines for petro chemical, gas, oil pipes, electrical power, food industries.

Main Features:

- These are constructed with strong metal frame with good appearance & stable functioning.
- These machines have individual power construction & electrical system, adopts PLC control & programmed touch screen operation system which can be operated manually & automatically.

Cold Forming Machine

Tee & Elbow Beveling Machine

The Hydraulic Tee & Elbow Beveling Machine has the features of unique design, Compact structure, vivid look as well as convenient to operate. This machine is an ideal equipment for chamfering metal right angel elbow end. The product is processed by the machine complies with the relevant elbow beveling standard.

The machine drives strongly, cuts quickly and works efficiently.

The machine consists novel-structured floating cutter support, well and truly oriented work piece clamp and qualified excellent hydraulic feed lock device to ensure normal or quick forward/backward movement of the work piece on the slipway.

There are three cutters for each clamp disk, they serve for different range of work and can work at the same time to ensure the effective cutting and fully satisfied the stable requirement of the guide track under the status of strong cutting. While the hydraulic control system its cutting speed can be adjusted randomly by the size and the thickness of the caliber.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Unit</th>
<th>ABET120</th>
<th>ABET200</th>
<th>ABET315</th>
<th>ABET350</th>
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<td>Unit</td>
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