4 Column Presses

**Built for your Application**

Four-post hydraulic presses, also known as 4-column presses, can be designed to accommodate dies of any size and are well suited for part manufacturing that requires superior rigidity and precise bed-to-ram parallelism. 4-column presses are advantageous because they are typically more economical than gib-guided presses, and allow four-sided access to the working area.

Multipress offers a wide variety of hydraulic post or 4 column presses ranging from 20 to 1000 ton in capacity. While we offer several "standard" sizes based on typical use, Multipress routinely builds customized models based on individual client application and production requirements. Our experienced engineering staff partners closely with clients to ensure their press is built to their specifications.

Multipress equipment is always built with our signature rugged, heavy duty construction, designed to meet demanding production schedules with years of trouble-free operation.

**Typical Configurations:**

- 2 Post to multiple post (4 post most common)
- With and without moving platen(s)
- Heated Platens
- Cushion or knock-out
- Bolster Plate

**Customizable Press Options**

- T-slots
- Die lifters
- Die clamps
- Dowel holes
- Slug holes
- Moving platens
- Die cushions
- Ejectors
- Up-acting design
- Indexers
- Shuttle Tables (manual and powered)
- Multiple position slides
- Press to press transfer (in multiple strain rod, station to station with common bed).
- Chutes
- Conveyors
- Pick & Place
Control Choices:

- Single axis pressure reversal with position speed change
- Single axis position reversal with position speed change.
- Multiple Axis:
  - Knockout (ejector)
  - Cushion: single pressure
  - Cushion: proportional (cushion pressure is variable relative to ram position).

Hydraulics Options:

- Standard directional valve type circuits
- Open loop proportional
- Closed loop proportional
- Servo

Electrical Configurations:

- Ranging from basic single cycle to automatic cycle with robotic interface
- PLC control with operator push buttons and switches
- PLC with Touch screen
- Touch Screen with Industrial Computer/PLC
- Windows driven Touch Screen with Industrial Computer/PLC
- Explosive environment

Quality Control:

- Confirmed press position (monitor)
- Confirmed press force (monitor)
- Confirm desired tonnage achieved within a pre-set position window
- Process signature analysis & storage
- Pass/fail notification

Operator Safety:

- Barrier guards
- Sliding guards
- Light Curtain
- Presence sensing

50-ton double action press with joystick control

300-ton custom shear press

100-ton forming press
**TYPICAL SPECIFICATION**

<table>
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<tr>
<th>TONNAGE</th>
<th>LEFT TO TIGHT BETWEEN POSTS</th>
<th>FRONT TO BACK OVERALL</th>
<th>DAYLIGHT</th>
<th>STROKE</th>
<th>HP</th>
<th>RAM SPEED (IPM)</th>
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<td>PRESS SPEEDS AND HORSEPOWER ARE QUOTED TO MEET CUSTOMER CYCLE RATE REQUIREMENTS</td>
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**CUSTOMER SPECIFICATIONS:**

**STRUCTURE:**
- FORCE: _______TONS
  - DOWN ACTING
  - UP ACTING
  - WITH GUIDED PLATEN
  - WITHOUT GUIDED PLATEN

**ELECTRIC:**
- DUAL PUSHBUTTONS
- PRESSURE REVERSAL
- POSITION REVERSAL
- TIME DELAY DOWN

**OPERATING VOLTAGE**
- 230/3/60
- 460/3/60

**HYDRAULIC:**
- FLOOR MOUNTED PUMP UNIT
- CROWN MOUNTED PUMP UNIT
- WATER TO OIL HEAT EXCHANGER
- AIR TO OIL HEAT EXCHANGER
- DIE CUSHION. FORCE: _______TONS
- BOTTOM CYLINDER, EJECTOR. FORCE: _______TONS

**SPEEDS (IF OTHER THAN THOSE LISTED BELOW):**
- ADVANCE: _______ IPM
- PRESS: _______ IPM
- RETURN: _______ IPM

**GUARDING:**
- LIGHT CURTAIN
- FIXTED GUARDING (DESCRIBE): ____________________________
  ______________________________________________________
  ______________________________________________________
  OTHER: _____________________________________________

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SIMPLY FILL IN THE BLANKS AND SEND THIS PAGE TO sales@multipress.com, AND WE’LL SEND YOU A PROMPT QUOTATION.
About Multipress

For more than 80 years, Multipress has been trusted as the premier provider of hydraulic press solutions. Whether you are interested in a standard machine, or a completely customized design, Multipress’ experts take the time to select the right machine to fit your specifications and fulfill your production requirements. With experience in a wide variety of industries and applications, you can trust Multipress to bring reliability, productivity and precision to your operation. We proudly design and build every machine at our headquarters in Columbus, Ohio.

Top Notch Support

Multipress is proud to have a service department that is equipped to provide many types of expert technical assistance, including telephone, e-mail, on-site help for your press.

With years of technical problem-solving experience, the Multipress Service Department stands ready to assist our customers with their service concerns. Our Service Department is committed to the maximum uptime and longevity of our customers’ equipment investment. It is your assurance of prompt, reliable, and precise solutions to whatever problems you may encounter in your day-to-day production.