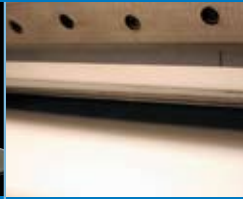


Hydraulics

Used in Metalforming



Press Brake



Shear



**Down acting
Large Presses**



Forging



**Tube
Bending**

Piston Pumps Open Circuit

- PVQ • PVB
- PVM

- PVM
- Hydrokraft

- Hydrokraft

- PVM
- Hydrokraft

- PVQ
- PVB

Vane Pumps

- V-Series
- V10 / V20

- VMQ
- V-Series

- VMQ

- V10 / V20

Heavy Duty Transmissions

- Series 1
- Series 2

- Series 1
- Series 2
- Hydrokraft

- Hydrokraft

Power Units

- Standard

- Custom

- Large Custom

- Large Custom

- Standard

DG solenoid directional valve

- DG4 and DG5
Monitor Switch
Option

- DG4 and DG5

- DG4 and DG5
Monitor Switch
Option

- DG4 and DG5

- DG4 and DG5

Proportional and Servo valves

- KBFDG4V3/5
- KBHDG5V-8

- KBFDG4V3/5
- KBHDG5V-8

- KBFDG4V3/5
- KBHDG5V-8

- KBFDG4/5V and
SM4-Servo Valves
- CVU 16 - 63

- KCG 06-08
- KBFDG4/5V and
SM4-Servo Valves

Slip-in Car- tridge valves

- CVI 16 - CVI 63

- CVI 16 - CVI 63

- CVI 16 - CVI 63
with Spool
Monitor Switch

- CVI 16 - CVI 63
with Spool
Monitor Switch

- CVI 16 - CVI 63
with Spool
Monitor Switch

Screw-in valves

- Pressure Control
- Flow Control
- Prop. Valve

- Pressure Control
- Flow Control
- Prop. Valve

- Pressure Control
- Flow Control
- Prop. Valve

- Pressure Control
- Flow Control
- Prop. Valve

- Pressure Control
- Flow Control
- Prop. Valve

Stack valves

- Cetop 3 to 8
- Pressure & Flow
Control

- Cetop 3 to 8
- Pressure & Flow
Control

- Cetop 3 to 8
- Pressure & Flow
Control

- Cetop 3 to 8
- Pressure & Flow
Control

- Cetop 3 to 8
- Pressure & Flow
Control

Flange mounted valves

- CPF- Relief valve
- UPF- Unloading
Valve
- Check Valve

- CPF- Relief valve
- UPF- Unloading
Valve
- Check Valve

- CPF- Relief valve
- UPF- Unloading
Valve
- Check Valve

- CPF- Relief valve
- UPF- Unloading
Valve
- Check Valve

- CPF- Relief valve
- UPF- Unloading
Valve
- Check Valve

Cylinders

- Double Acting
with Position
Sensor

- Double Acting

- Double Acting
- Single Acting

- Double Acting

- Double Acting
with Position
Sensor

Fluid Conveyance

- Braided & Spiral
Hose
- Walterscheid
MetricTube Fittings

- Braided & Spiral
Hose
- Walterscheid
MetricTube Fittings

- Braided & Spiral
Hose
- Walterscheid
MetricTube Fittings

- Braided & Spiral
Hose
- Walterscheid
MetricTube Fittings

- Braided & Spiral
Hose
- Walterscheid
MetricTube Fittings

Filtration

- H20-gate &
Fluid Analysis
- Pressure / Return /
Offline Filters

- H20-gate &
Fluid Analysis
- Pressure / Return /
Offline Filters

- H20-gate &
Fluid Analysis
- Pressure / Return /
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- H20-gate &
Fluid Analysis
- Pressure / Return /
Offline Filters

System Solutions - Press Brake Machine

Traditionally, press brake forming was an art, and greatly dependent on operator skill. Therefore, it was expected that varying levels of quality and productivity would be achieved by different operators. Today, a good press brake will help in achieving the quality and consistency required.

Press brake applications are relatively common and straight forward, requiring reliable hydraulic components to function properly. The main function of the press brake is to give required shape (form) to the sheet metal of thickness varying from 0.036" to 1.00" etc.

The most important requirement is the bending tool has to move parallel to the bottom / stationary die and apply the desired force. Many older machines relied on a torque control bar to achieve a level of accuracy. Today, hydraulic closed loop systems with proportional OR servo valves and hydraulic cylinders with position transducer will allow synchronized movement of the press brake tool, and final position accuracy to .0004" In addition, by using Eaton PVM-based pump solutions, this degree of control is achieved efficiently and quietly.

Eaton's products range for this application

1. Hydraulic Cylinder (with integrated position feedback)
2. High Performance KB Proportional Valve with On-board Electronics
3. Filtration - PAM
4. Power Units
5. Axial Piston Open Circuit Pumps
6. Slip-in & Screw-in Cartridge Valves, Monitor Switch Optional
7. Fluid Conveyance

