

## HP 545 Full Hydraulic Press

HP-Series Hydraulic Press is our fully integrated, stand alone hydraulic press which represents current press technology by utilizing a high quality pressure compensating hydraulic power unit along with today's technology in Allen-Bradley programmable logic controllers.

### What makes us better?

The HP-Series Hydraulic Press can be designed to meet your present application needs with the array of available options we offer. The open architectural control system design gives you the flexibility to add control integration and/or process monitoring features now or in the future.

### Advantages

- Custom Built To Meet Your Application Needs
- Open Architectural Control System Design
- Allen-Bradley Programmable Logic Controllers
- Hydraulic Power Unit Designed To Generate Minimal Heat



### Specifications

(Note: The following are some standard specifications that can be modified to meet your project needs.)

Model	HP 545-20	HP 545-25	HP 545-30	HP 545-35	HP 545-40	HP 545-50
Force Capacity	20 Tons	25 Tons	30 Tons	35 Tons	40 Tons	50 Tons
Stroke	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
Throat	12.0"	12.0"	12.0"	12.5"	12.5"	12.5"
Daylight	14.625"	14.625"	14.625"	14.625"	14.625"	14.625"
Advance (I.P.M.)	220	220	220	172	172	172
Return (I.P.M.)	220	220	220	172	172	172



## **Standard Features**

- Robust steel welded frame
- Heavy duty hydraulic cylinder
- Quality hydraulic power unit with pressure compensating pump designed for generating minimal heat
- Low volume heat exchanger
- Suction line strainer
- Combination temperature / level gauge
- 240/480V TEFC Motor
- 480-240/120V fuse transformer
- Cylinder cushion extend and retract
- Fused outputs to solenoids
- Two-hand / Non-tie down actuators
- Expandable Allen-Bradley programmable logic controller
- Auto/Jog selector switch
- Emergency stop circuit
- NEMA 12 main electrical enclosure with an open architectural design for future expansion

## **Choose from some of the available options:**

- Additional stroke cylinders
- Double rod cylinders
- Frame dimensions designed to suit
- Machining of press platen bed
- Custom designed hydraulic circuits
- Custom designed control circuits
- Custom designed guarding
- Custom designed tooling
- Dwell timing features
- Left or right mounting of electrical enclosure
- HMI display
- Press force and distance monitoring
- More add-on technology can be integrated into this system at your convenience - Please contact us to find out more.

**Contact Us Today! • 1-800-837-4355 • [info@airhydraulics.com](mailto:info@airhydraulics.com)**



## **Control Package Options:**

### **Adjustable Distance Return**

The operator initiates and holds down the actuators at the same time to start the press cycle. The ram extends to the depth selected by an adjustable limit switch. When the limit switch is made, the ram retracts.

### **Adjustable Pressure Return**

The operator initiates and holds down the actuators at the same time to start the press cycle. As the cylinder begins to meet resistance, the pressure rises. When the set pressure is reached, the ram retracts. The pressure can be adjusted to meet your application requirements.

### **Adjustable Pressure or Adjustable Distance Return**

The operator initiates and holds down the actuators at the same time to start the press cycle. The ram extends until either the limit switch or pressure setting is reached and then retracts.

### **Adjustable Pressure and Adjustable Distance Return**

The operator initiates and holds down the actuators at the same time to start the press cycle. The ram extends until both, the limit switch is made and the preset pressure is reached, then the ram retracts.

### **Custom Designed Control Package**

Please contact us to discuss a control package to meet your application requirements.