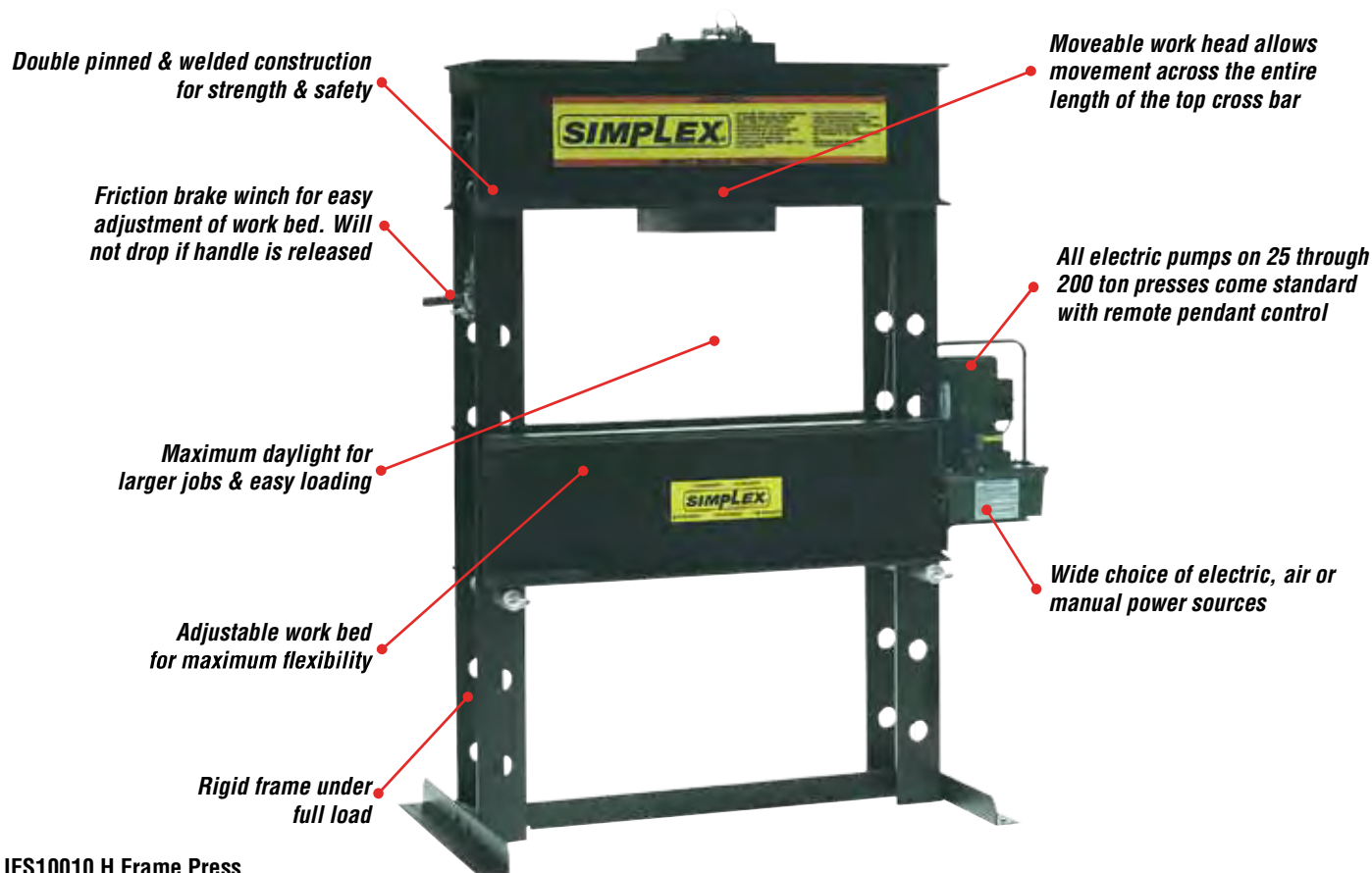


# HYDRAULIC PRESSES







## PRODUCT LINE OVERVIEW

### ► Wide Variety

Simplex offers presses with capacities from 10 through 200 tons. Choose from a wide range of pressing, cylinder strokes & styles, and your choice of Simplex manual or power pumps. Choose from a variety of H-Frame designs.

### ► Heavy Duty Construction/ Built for Safety

Simplex presses do not rely on "bolt together" construction for strength. Simplex H-Frames employ double pinned and heavy duty welded construction. This construction provides a frame that is **rigid** and provides an extra margin of safety.

### ► Maximum Flexibility

All Simplex H-Frame Presses include a moveable work head that easily rolls across the entire length of the top cross bar. This allows the pressing force to be positioned at any point of the press bed. The adjustable work bed can be raised or lowered to accommodate a wide variety of jobs.

### ► Maximum Daylight

Simplex presses have large work areas that accommodate larger jobs and makes loading and unloading easier. Open sides have large clearances for loading work through the side daylight.

### ► Easy To Use

H-Frame (25 ton & up) includes a friction brake winch that adjusts the bed height effortlessly and will not drop the bed if the handle is released (no kick back). The wide choice of pumps & valves provides a variety of controls. Moveable work head incorporates rollers for easy positioning.

### ► Custom Build Your Press

Along with many standard models, you can build custom presses by ordering the press without a pump. Order any Simplex pump & pump mounting kit separately to meet your requirements.

### Selecting A Hydraulic Press

*SIMPLEX Hydraulic H-frame presses are accepted in many industries because of their wide range of use. They are able to produce significant force, ranging from 10 through 200 tons. Hydraulic presses provide force through the use of fluid pressure on a piston by means of manual or powered pumping element. The power source provides the ability for infinite adjustment of stroke, speed, length and pressure while staying within the limits of press capacity. Refer to the individual presses for packaged systems.*

### Principal Parts To Review

**Throat Clearance** - The distance from the vertical centerline of the ram to the frame member at the back of the bed. The distance measures the largest diameter piece that can be positioned with the part centerline under the center of the ram.

**Daylight** - The vertical clearance from the top of the bed to the underside of the ram in its peak position upwards. It shows the maximum vertical capacity of the press.

**Work Height** - The distance from the floor to the bolster.

### Simplex Hydraulic Presses



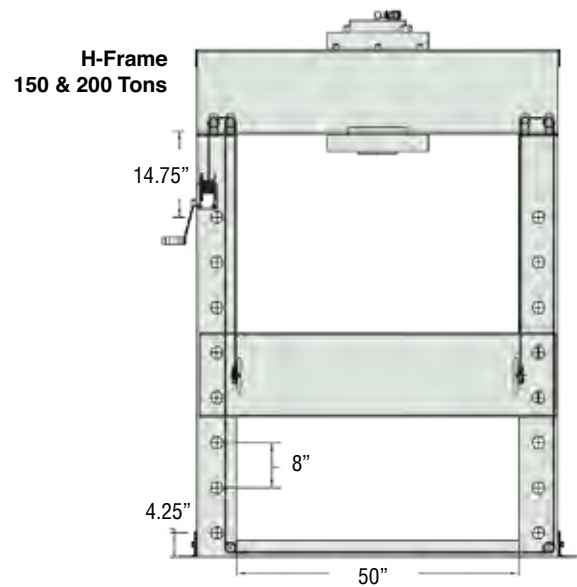
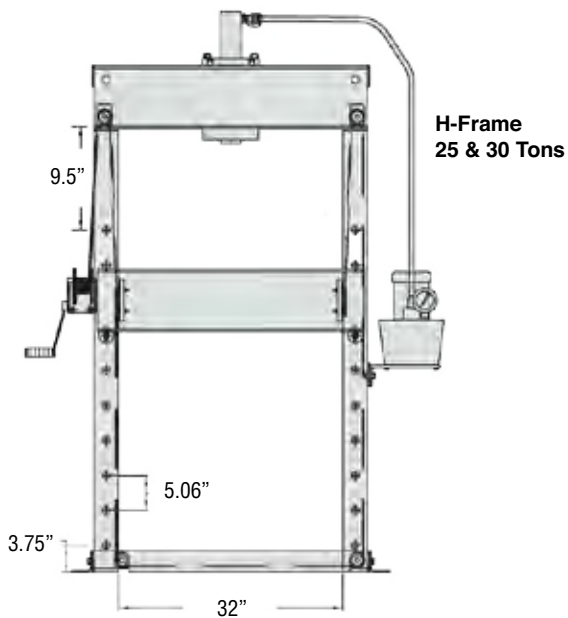
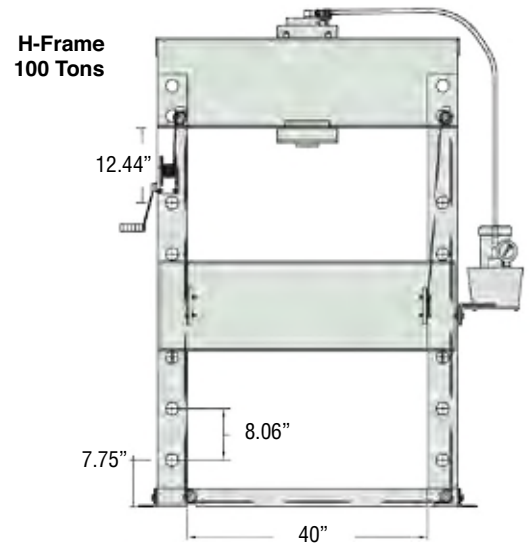
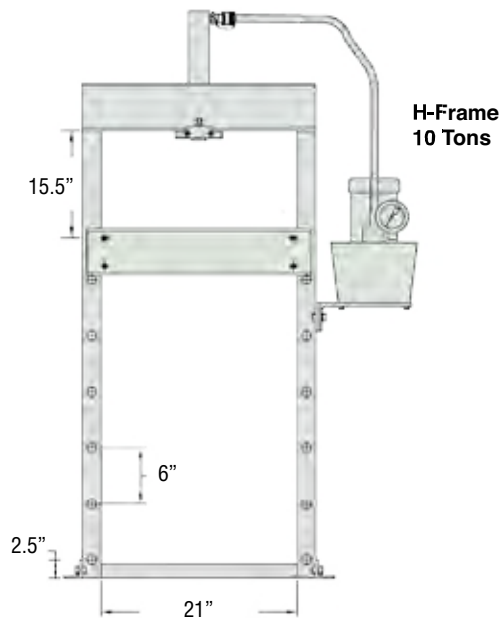
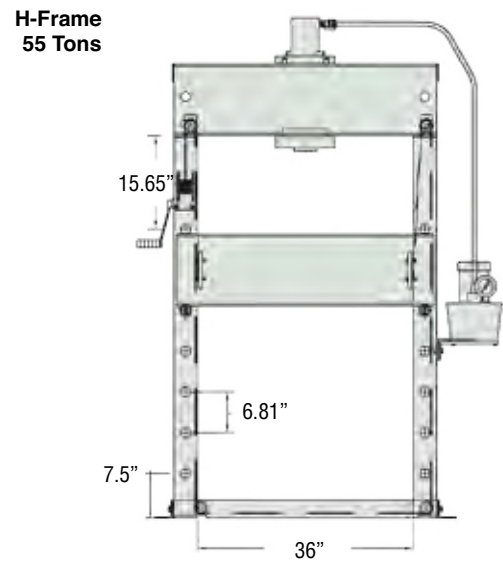
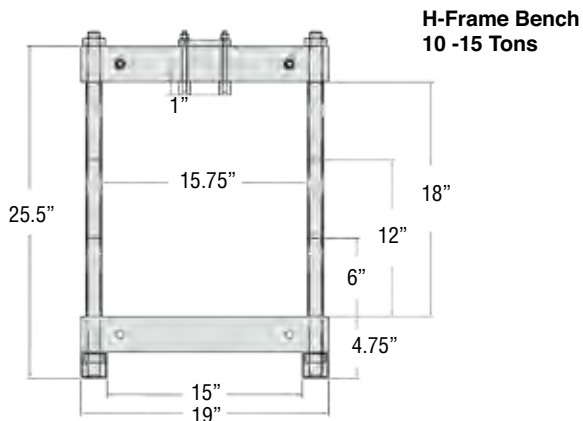
#### **Bench**

Only Simplex offers Bench Presses with up to 15 ton capacities, moveable work heads and adjustable beds for maximum flexibility. For small production jobs, the adjustable bed eliminates wasted time approaching the work. IBP1010 & IBP1510 presses include a 10" stroke cylinder.



#### **Floor H - Frame**

Simplex H-Frame Presses can be used professionally for assembly or straightening work up to 200 tons. They are also excellent for testing work pieces. H-Frame presses are robust and built to last. The frame is made of welded steel sections and the hydraulic system is excellent for precision work with the height of the work table easy to adjust and the cylinder head moveable.



# HYDRAULIC PRESSES

10 - 15 Ton - H Frame Bench

**SIMPLEX**



IBP1010 Shown

Capacity ..... ► 10 - 15 tons

Stroke ..... ► 10 in.

Maximum Pressure ..... ► 10,000 psi

- 10 or 15 ton capacities.
- Adjustable bed with large daylight.
- Moveable work head.
- Wide variety of power sources.

## COUPLERS - pages 74 - 75

High flow quick disconnect couplers provide a quick change to a variety of pumps.

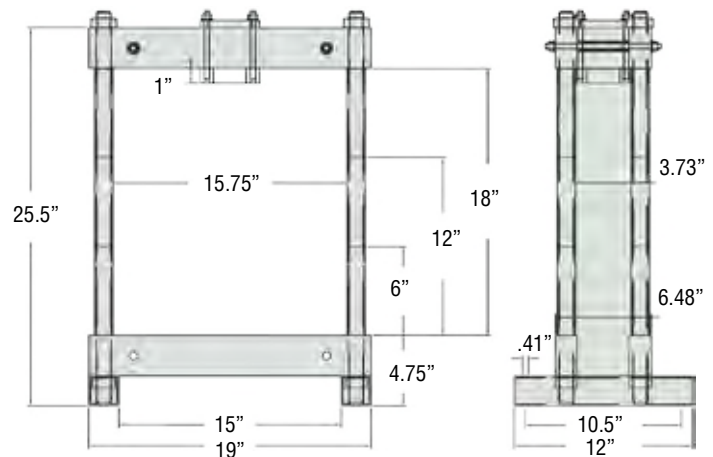


## SIMPLEX CYLINDERS - pages 7 - 29

Cylinder design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



Simplex bench mounted press frame simplified the work so it can be performed safely and more productively. ▼



Contact Factory for additional dimensions.

Model Number with Cylinder	Capacity (tons)	Type	Ram	Stroke (in)	Model Number w/o Cylinder	Weight (lbs)
IBP1010	10	S/A	R1010	10	IBP10	142
IBP1510	15	S/A	R1510	10.38	IBP15	150

Products listed below are ordered separately.

Capacity (tons)	Suggested Hand Pump	Suggested Electric Pump	Suggested Hose	Suggested Gauge	Gauge Adapter	Weight (lbs)
10	P42	G1121	HCA6	G6	GA1	130
15	P42	G1121	HCA6	G6	GA1	130





IMS1010 Shown

Capacity .....► 10 tons  
 Stroke .....► 10 - 10.13 in.  
 Maximum Pressure .....► 10,000 psi

- Single or double acting models available.
- Large daylight with open sides for easy loading.
- Heavy duty welded construction.
- Moveable work head for maximum versatility.
- IES Series comes with motor pendant control.



## HAND PUMPS - pages 31 - 41

Handpump design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



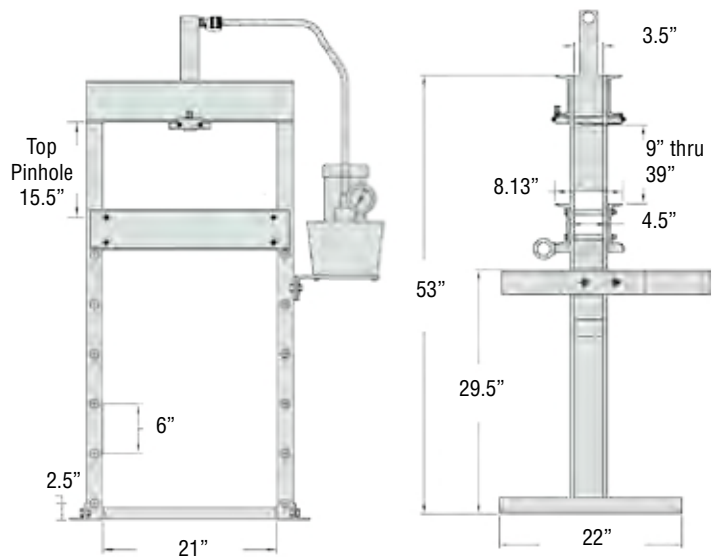
## POWER PUMPS - pages 43 - 65

Simplex offers a wide variety of lightweight power pumps to fit any application.

## PUMP MOUNTING KIT

For Hand Pumps ..... Model IM2  
 Order # .....40959

For Power Pumps ..... Model IM3  
 Order # .....40960



Model Number Without Pump	Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model	Operation	Speed (in/min) * Indicates Inches per Stroke		Weight With Pump (lbs)	Weight Without Pump (lbs)
							Advance	Pressing		
----	IAS1010	R1010 Single Acting 10 Ton Capacity	10	Air Powered	GA90	Advance Hold Retract	31	4.5	202	172
IS1010	IES1010		10	Electric Powered	G1121		104	9	204	172
----	IMS1010		10	Manual	P42		.38*	.06*	208	172
IDD1010	IED1010	RDA1010 D/A 10 Ton Capacity	10	Electric Powered	G1141		104	9	226	188
----	IMD1010		10	Manual	P140D		1.25*	.10*	236	188

# HYDRAULIC PRESSES

25 - 30 Ton - H Frame

**SIMPLEX**



IES256 Shown

Capacity Range .....► 25 - 30 tons  
Stroke .....► 6.25 - 14.25 in.  
Maximum Pressure .....► 10,000 psi

- Large daylight with open sides for easy loading.
- Wide choice of pumps & pressing cylinders.
- Includes tonnage gauge.
- IES & IED Series comes with pendant control.
- Moveable work head for maximum versatility.
- Adjustable work bed with friction brake winch.

## COUPLERS - pages 74 - 75

High flow quick disconnect couplers provide a quick change to a variety of pumps.



## HAND PUMPS - pages 31 - 41

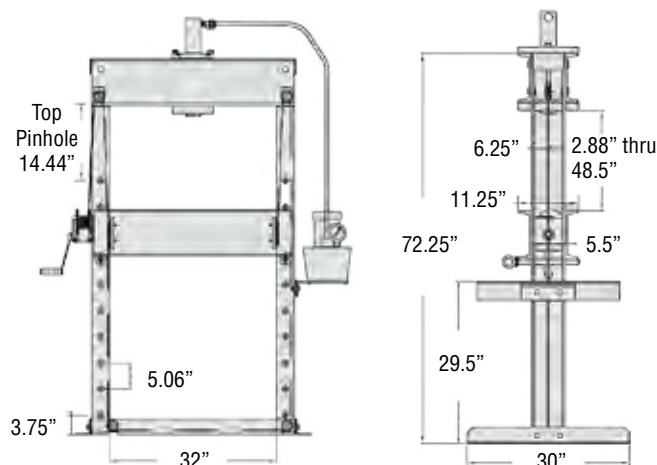
Handpump design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



## PUMP MOUNTING KIT

For Hand Pumps .....Model IM2  
Order # ..... 40959

For Power Pumps .....Model IM3  
Order # ..... 40960



\* For Presses with an electric 230V pump, add an "A" to the end of the model number.

Model Number Without Pump	* Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model	Operation	Speed (in/min) * Indicates Inches Per Stroke		Weight With Pump (lbs)	Weight Without Pump (lbs)
							Advance	Pressing		
----	IAS256	R256/ R2514 Single Acting 25 Ton Capacity	6.25	Air	GA90	Advance Hold Retract	14	2	417	----
----	IAS2514		14.25	Air	GA90		14	2	433	----
IS256	IES256		6.25	Electric 115V	G1121		50	4	419	387
IS2514	IES2514		14.25		G1121		50	4	435	403
----	IMS256		6.25	Manual	P82A		.15*	.03*	423	----
----	IMS2514		14.25	Manual	P82A		.15*	.03*	439	----
ID3014	IED3014	RDA3014	14.25	Elec. 115V	G4172		40	3	462	428
----	IMD3014	RDA3014	14.25	Manual	P140D		.43*	.04*	458	----



IES556 Shown

Capacity ..... ► **55 tons**

Stroke ..... ► **6.25 - 13.25 in.**

Maximum Pressure ..... ► **10,000 psi**

- Large daylight with open sides for easy loading.
- Adjustable work bed with friction brake winch.
- Moveable work head for maximum versatility.
- Rigid frame under full load.
- IED & IES Series are equipped with a pendant control.



## THINK SAFETY

Please refer to pages 4&5 for a complete list of safety tips and recommendations.



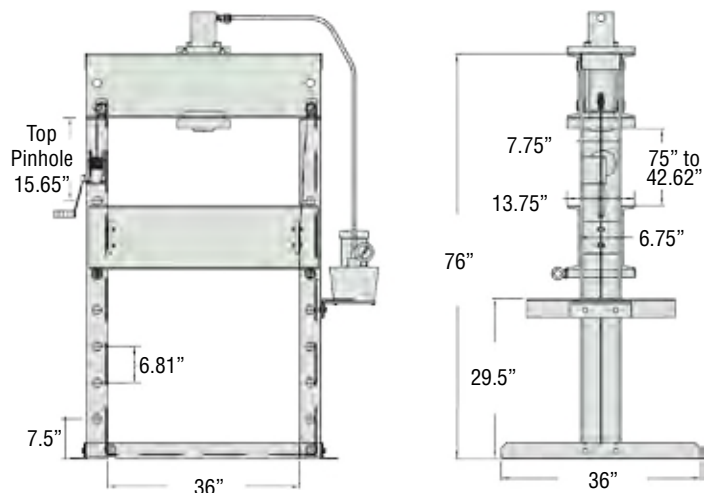
## POWER PUMPS - pages 43 - 65

Simplex offers a wide variety of lightweight power pumps to fit any application.

## PUMP MOUNTING KIT

For Hand Pumps .....Model IM2  
Order # ..... **40959**

For Power Pumps .....Model IM3  
Order # ..... **40960**



\* For Presses with an electric 230V pump, add an "A" to the end of the model number.

Model Number Without Pump	* Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model	Operation	Speed (in/min) * Indicates Inches per Stroke		Weight With Pump (lbs)	Weight Without Pump (lbs)
							Advance	Pressing		
<b>IS556</b>	<b>IES556</b>	R556 S/A	6.25	Electric 115V	G1121	Advance Hold Retract	23	2	707	675
<b>IS5513</b>	<b>IES5513</b>	R5513 S/A	13.25		G1121		23	2	735	703
<b>ID556</b>	<b>IED556</b>	RDA556 D/A	6.13		G4172		35	5	748	710
<b>ID5512</b>	<b>IED5512</b>	RDA5512 D/A	12		G4172		35	5	793	755
<b>----</b>	<b>IMS556</b>	R556 S/A	6.25	Manual	P82A		.07*	.02*	711	----



# HYDRAULIC PRESSES

100 Ton - H Frame

**SIMPLEX**



IES1006 Shown

Capacity Range .....► 100 tons  
Stroke .....► 6.06 - 12 in.  
Maximum Pressure .....► 10,000 psi

- Moveable work head for maximum versatility.
- Wide choice of pumps & pressing cylinders.
- Includes tonnage gauge.
- IED & IES Series comes with pendant control.
- Choose double-acting presses for fast retraction.
- Adjustable work bed with friction brake winch.

## SIMPLEX CYLINDERS - pages 7 - 29

Cylinder design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



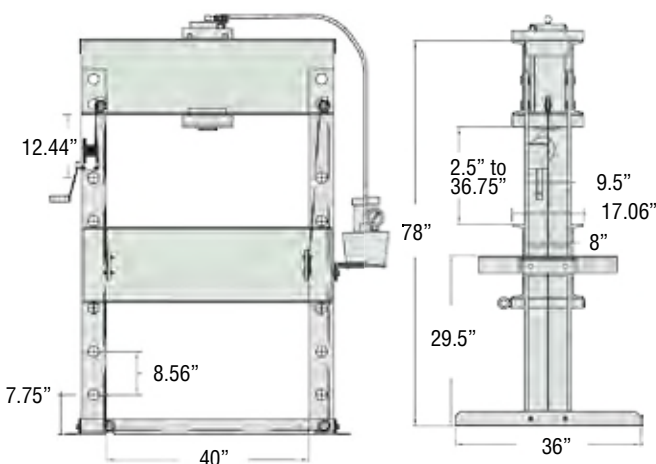
## PUMP MOUNTING KIT

For Hand Pumps .....Model IM2  
Order # ..... 40959

For Power Pumps .....Model IM3  
Order # ..... 40960

## POWER PUMPS - pages 43 - 65

Simplex offers a wide variety of lightweight power pumps to fit any application.



A machine shop needed to straighten forgings prior to machining and the Simplex 100 ton H Frame press was a perfect fit for the job. ▼



\* For Presses with an electric 230V pump, add an "A" to the end of the model number.

Model Number Without Pump	* Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model	Operation	Speed (in/min)		Weight With Pump (lbs)	Weight Without Pump (lbs)
							Advance	Pressing		
IS1006	IES1006	R1006 S/A	6.62	Electric 115V	G4163	Advance Hold Retract	19	2.75	1558	1470
IS10010	IES10010	R10010 S/A	10.25		G4163		19	2.75	1578	1490
ID1006	IED1006	RDA1006 D/A	6.06		G4173		19	2.75	1620	1532
ID10012	IED10012	RDA10012 D/A	12		G4173		19	2.75	1655	1567



ID15012 Shown

Capacity ..... ► 150 - 200 tons

Stroke ..... ► 12 - 13 in.

Maximum Pressure ..... ► 10,000 psi

- Large daylight with open sides for easy loading.
- Adjustable work bed with friction brake winch.
- Rigid frame under full load.
- IED Series comes with pendant control.
- Includes tonnage gauge.
- Presses ordered with pumps include remote pendant control and large 5 gallon reservoir.



## THINK SAFETY

Please refer to pages 4&amp;5 for a complete list of safety tips and recommendations.



## GAUGES - page 77

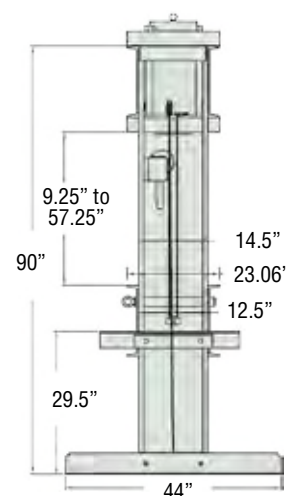
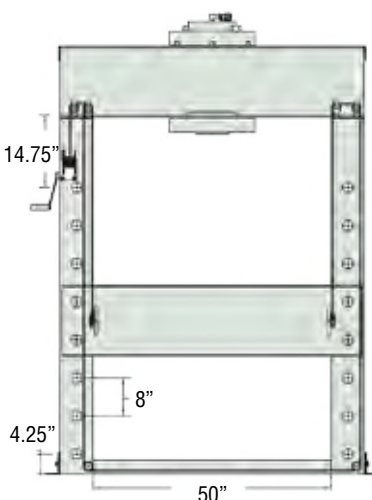
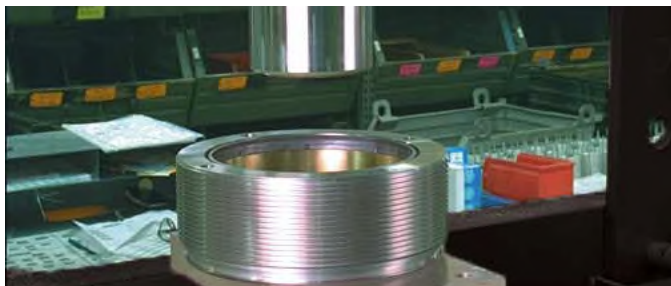
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.

## PUMP MOUNTING KIT

For Hand Pumps ..... Model IM2  
Order # .....40959

For Power Pumps ..... Model IM3  
Order # .....40960

Rail car repair shops are constantly faced with large jobs, these applications require a reliable and safe high tonnage press. ▼



\* For Presses with an electric 460V 3Ph pump, add an "A" to the end of the model number.

Model Number Without Pump	* Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model	Operation	Speed (in/min)		Weight With Pump (lbs)	Weight Without Pump (lbs)
							Advance	Pressing		
ID15012	IED15012	RDA15012 D/A	12	Electric 230V 3Ph	G6375	Advance Hold Retract	20	4.5	3035	2839
ID20013	IED20013	RDA20013 D/A	13				14	3.5	3180	2984