SIMPLEX®

H-FRAME PRESS INSTRUCTIONAL & REPAIR PART SHEET

10 THROUGH 200 TON MODELS

INSTRUCTIONAL SHEET
REV. B 2/04

10 TON PRESS

25 TON PRESS

55 TON PRESS

100 TON PRESS

150/200 TON PRESS

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H-FRAME PRESS INSTALLATION INSTRUCTIONS

Step 1: Remove H-FRAME PRESS from the shipping pallet

- Remove 4 bolts from H-Frame base that secure frame to shipping pallet (Figure 1).
- Caution: Frame is top heavy lift from top member and keep all personnel clear while lifting.

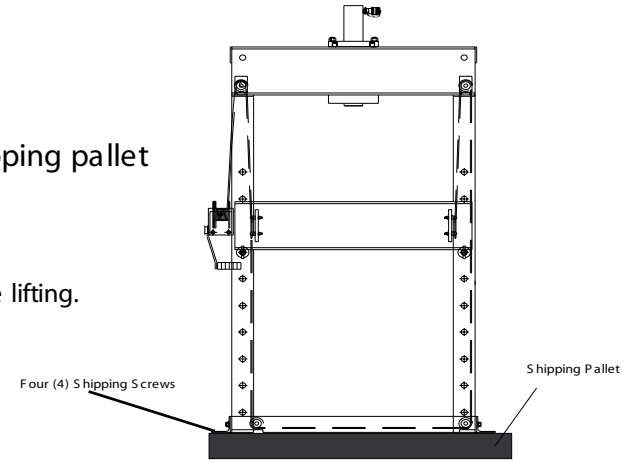


Figure 1

Step 2: Mounting the PRESS to the floor

- Find a level solid surface to place your press frame, concrete flooring is preferred.
- Drill 4 appropriately sized holes in the floor using the predrilled mounting holes in the frame base as a guide.
- Use anchors & the largest size anchor bolts that fit through the predrilled holes to mount the press.to the floor

Step 3: Re-assemble the winch handle (high ton only)

- Thread winch handle on the winch drive shaft until a clicking noise is produced when turning clockwise. Install the spring & locknut on the end of the drive shaft (Figure 2).

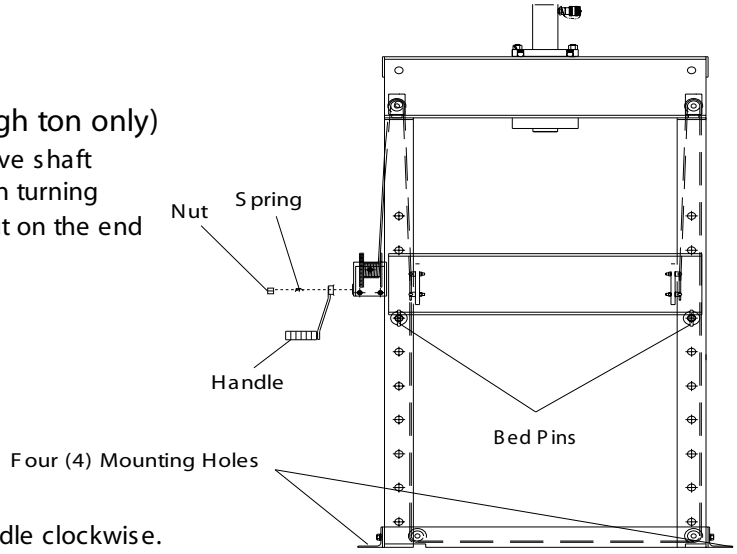


Figure 2

Step 4: Raise and lower press bed frame

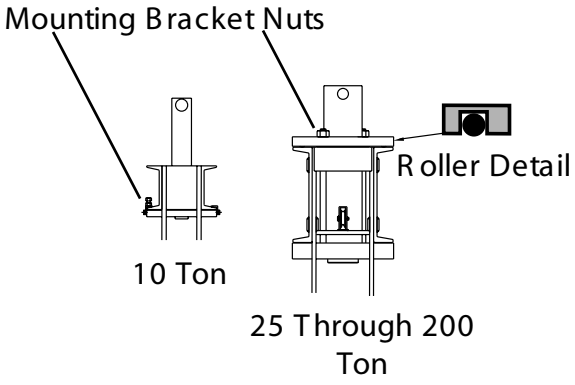
- Remove bed pins and turn winch handle clockwise. Raise the bed past the two horizontal pin holes in the frame at your desired height. Insert the pins and lower the bed onto the pins.

Warning: Be sure the bed is sitting firmly and evenly on the pins before you begin pressing.

H-FRAME PRESS INSTALLATION INSTRUCTIONS

Step 5: Moving cylinder to desired location

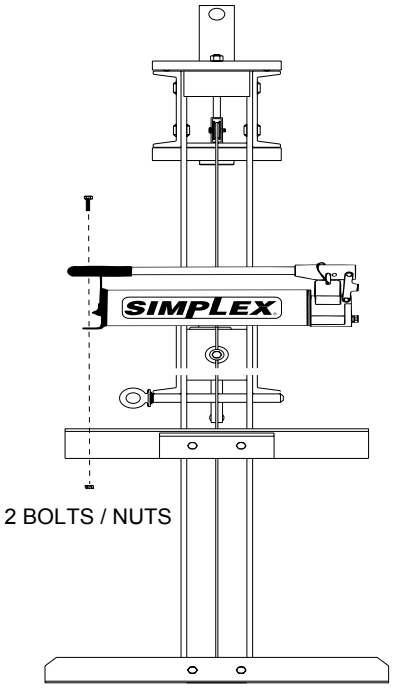
- If you wish to move the work head left or right of center loosen the two mounting bracket nuts 3 or 4 full, (take extra care not to completely loosen the nut or the bracket will fall). This step allows cylinder mounting bracket to roll left or right on ball bearings. Once the bracket is in the desired position retighten bracket nuts.



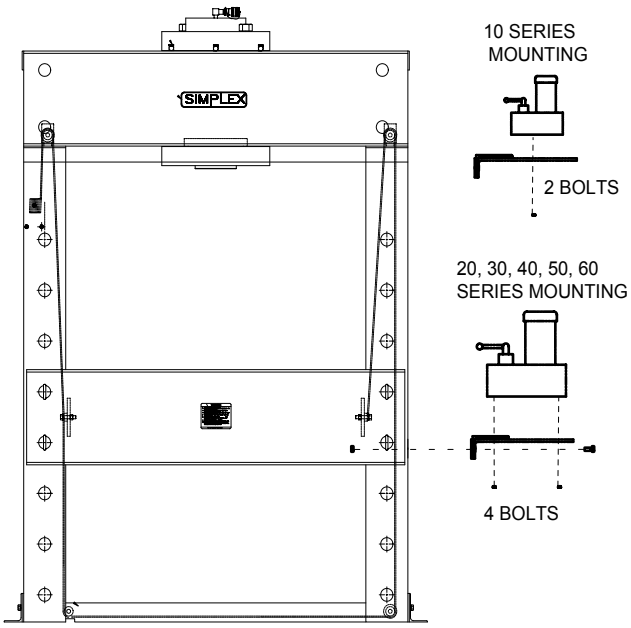
Step 6: Assembly pump bracket / hydraulic pump

- Using the bolts in the pump mounting kit attach the pump mounting plate to the side of the frame as shown. Tighten all nuts and bolts securely. Once the plate is secured place your pump on the plate and bolt. Power pumps are bolted from the bottom of the plate into pre-threaded holes in the bottom of the pump reservoir. Hand pumps are secured down using two bolts on the rear plate on the pump.

  Holes on hand pumps will be either holes or slots.



Hand Pump Mounting

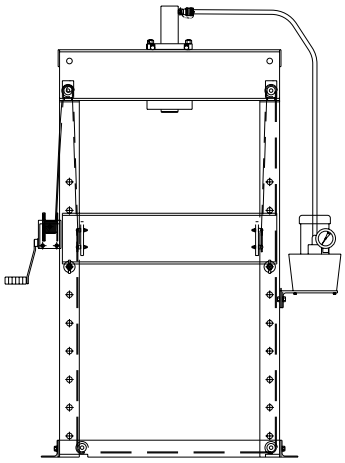


Power Pump Mounting

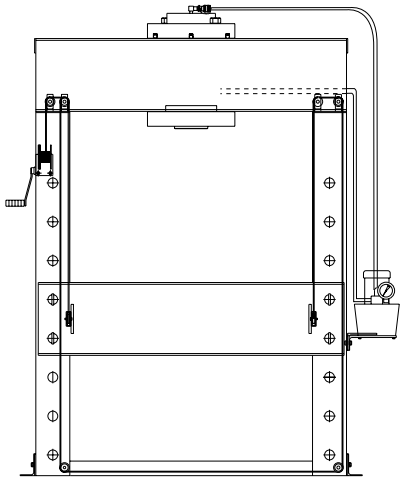
H-FRAME PRESS INSTALLATION INSTRUCTIONS

Step 7: Hose and gauge connections

- Your press will have (1) one hose (single acting models) or (2) two hoses (double acting models).
- Gauges maybe mounted at the cylinder or pump ports, using the included gauge mounting adaptor.
- Single acting models make hydraulic connections by first threading in the hose coupler into the 3/8 NPTF port marked "P". Threaded connections should be tight and leak free, but not excessive. Use the quick coupler to make the connections at the cylinder.
- Double acting models, make sure the gauge is mounted in the advance line (The line connected to the base end or top of the cylinder).



Single-Acting Press



Double-Acting Press

Step 8: Power connections

- Electrical: Check motor name plate to insure proper electrical supply.
  - 1/2 h.p. = 115 VAC/Single Phase
  - 1 h.p. = 115 VAC/Single Phase
  - 1 1/2 h.p. = 115 VAC/Single Phase
  - 3 h.p. = 230 VAC/3 Phase
  - 5 h.p. = 230 VAC/3 Phase
- Air: 90 PSI, 10 CFM

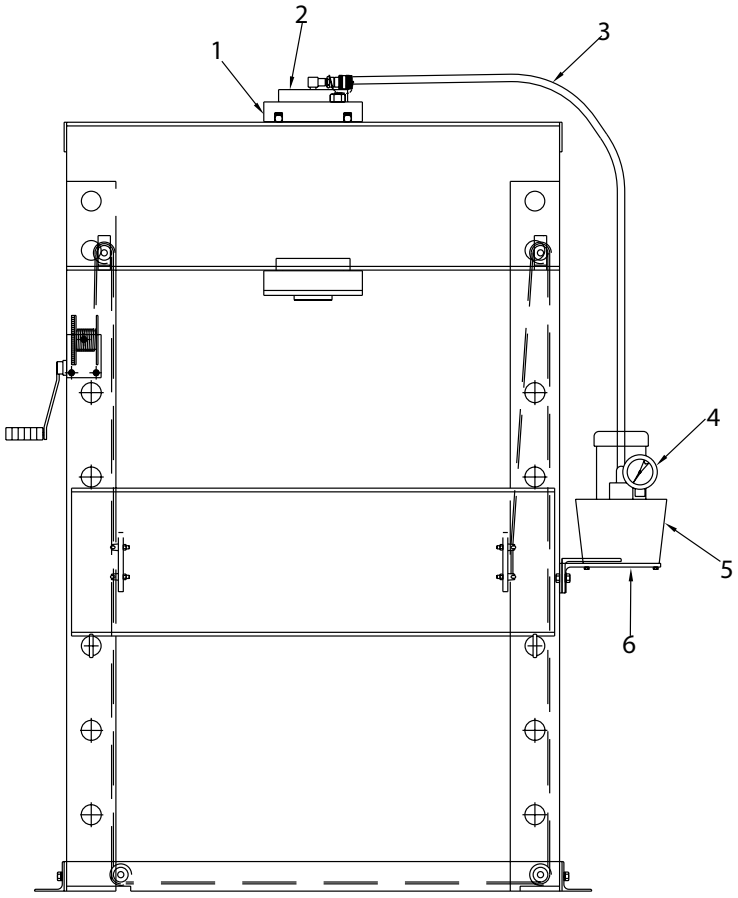
Step 9: Safety

1. Before use, read, study and understand all warnings and operating instructions for press, pump, cylinder and hose.
2. Never Exceed rated capacity.
3. Always disengage the winch before applying load on the press bed.
4. Never lift loads with the winch.
5. Always keep all body parts away from all pinch points.
6. Always center load on the cylinder.
7. Always use protective shields, safety goggles and protective clothing. Pressed parts can shatter!
8. Always use loading blocks to distribute the load on the press bed.
9. Secure frame to level surface before use.
10. Never load press bed without properly locating press bed support pins.

Step 10: Maintenance

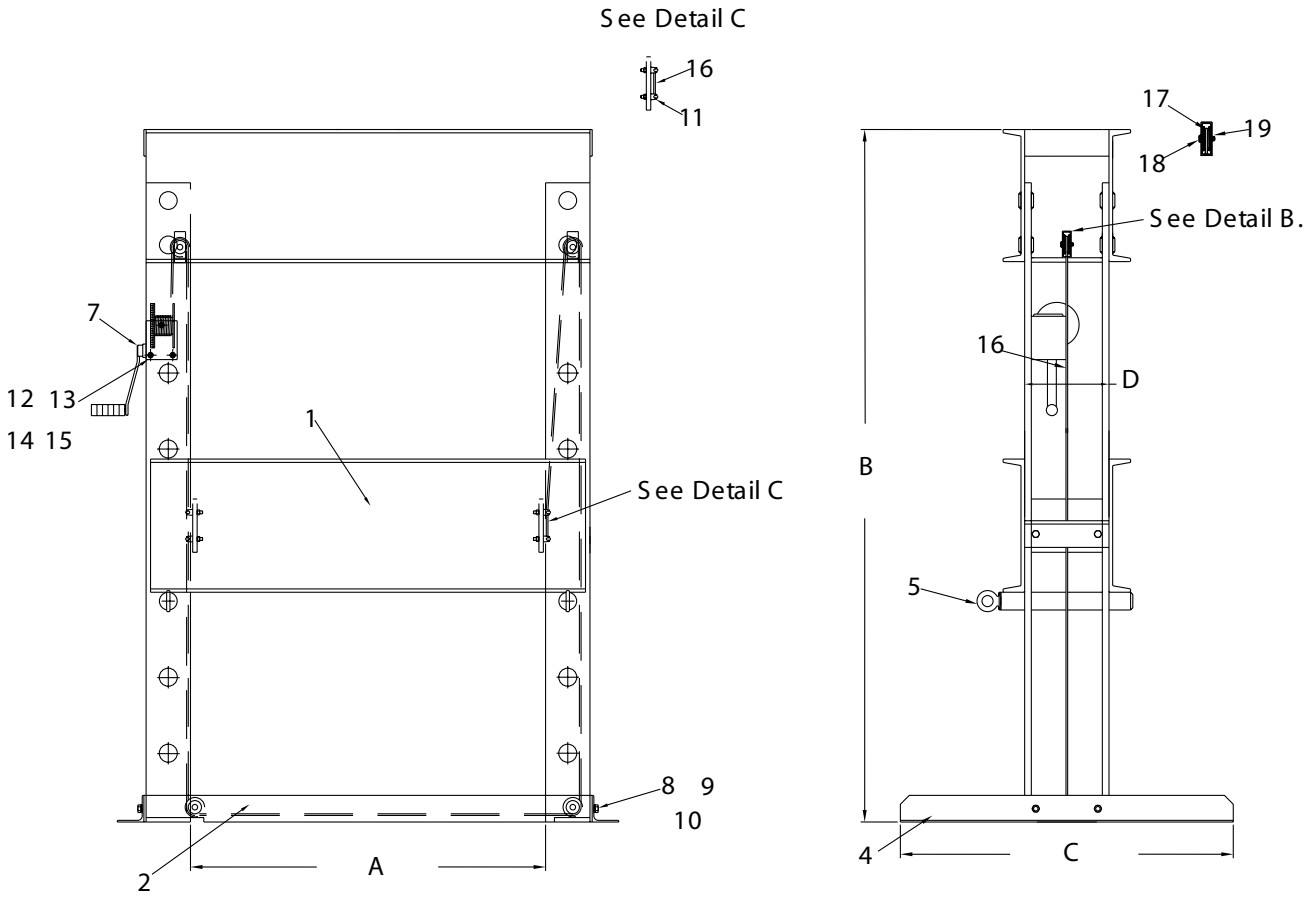
1. Keep hydraulic components as clean as possible.
2. Keep hoses from extreme heat or kinks and, inspect periodically. Replace damaged hose immediately.
3. Change the hydraulic oil every 75 to 100 hours of operation. Use only Simplex oil.

H-FRAME PRESS STANDARD PART SHEET



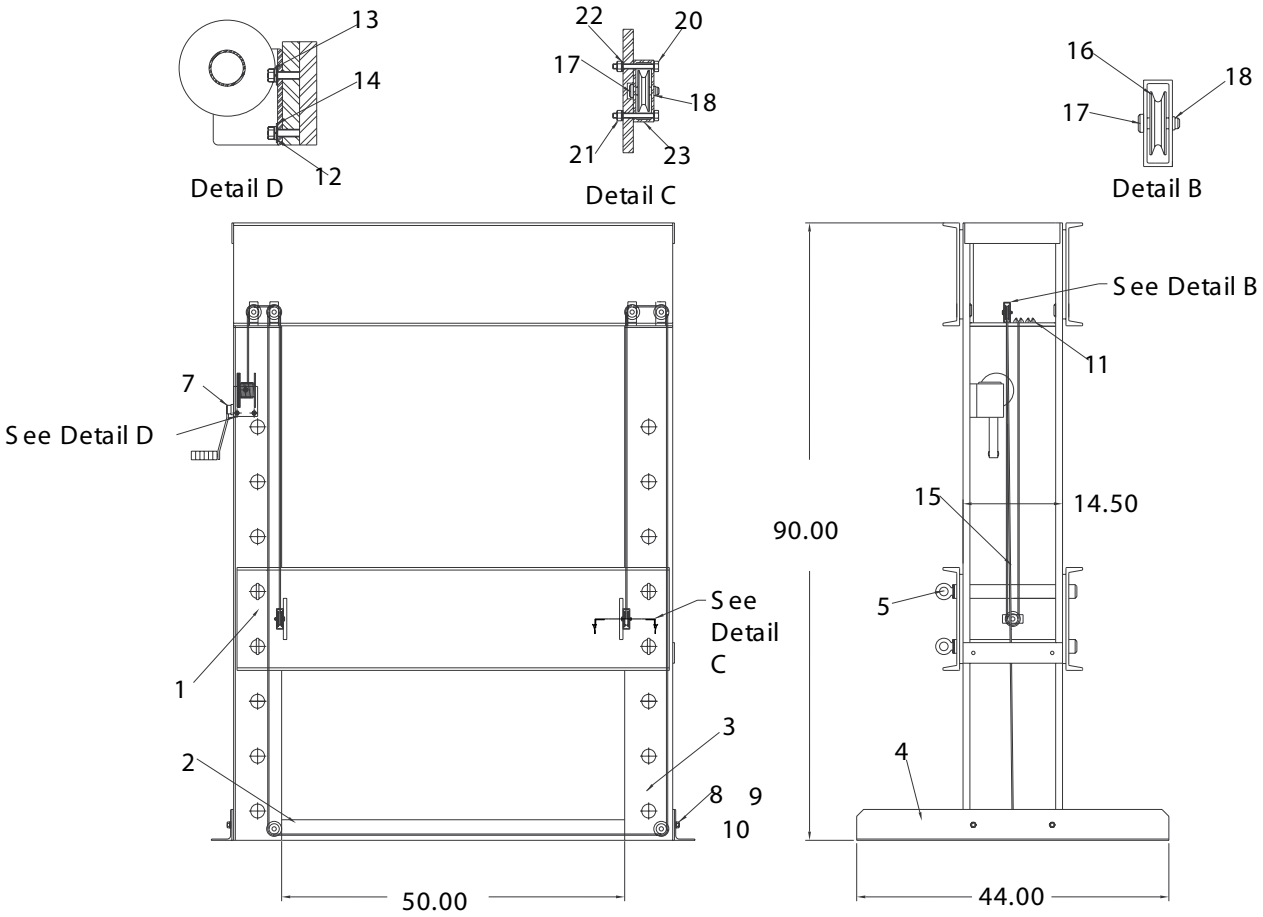
PRESS	"1" Cylinder Mounting Kit	"2" Cylinder	"3" Assembly Hose	"4" Gauge	"5" Pump	"6" Pump Mounting Kit
IAS1010	40863	R1010	18094	1917301	PA90	IM2
IES1010	40863	R1010	18094	1917301	PEM2032	IM3
IMS1010	40863	R1010	18094	1917301	P42	IM2
IAS256	40799	R256	18098	1917701	PA90	IM2
IAS2514	40799	R2514	18098	1917701	PA90	IM2
IES256	40799	R256	18098	1917701	PEM2032	IM3
IES2514	40799	R2514	18098	1917701	PEM2032	IM3
IMS256	40799	R256	18098	1917701	P82	IM2
IMS2514	40799	R2514	18098	1917701	P82	IM2
IES556	40800	R556	18098	1916301	PEM2032	IM3
IES5513	40800	R5513	18098	1916301	PEM2032	IM3
IED556	40800	RDA556	18098	1916301	PEM2042	IM3
IED5512	40800	RDA5512	18098	1916301	PEM2042	IM3
IES1006	40801	R1006	18098	1916701	PEM4032	IM3
IES10010	40801	R10010	18098	1916701	PEM4032	IM3
IED1006	40802	RDA1006	18098	1916801	PEM4042	IM3
IED10010	40802	RDA10010	18098	1916801	PEM4042	IM3
IED15012	40803	RDA15012	18098	1917101	PES6045	IM3
IED20013	40805	RDA20013	18098	1900501	PES6045	IM3

H-FRAME PRESS REPAIR PART SHEET 10-100 TONS



ITEM #	DESCRIPTION	PART # 10 Ton	PART # 25 Ton	PART # 50 Ton	PART # 100 Ton	QTY
1	Press Bed Assm.	40866	40259	40260	40261	1
2	Lower Support Weldment	----	40794	40795	40796	1
3	Press Frame Weldment	40885	40221	40222	40223	1
4	Foot Angles	40872	40295	40296	40296	2
5	Support Pins	40875	40271	40272	40273	4
6	----	----	----	----	----	--
7	Winch	----	40303	40303	40303	1
8	Hex Nut 1/2-13	93855	93855	93855	93855	4
9	HHCS 1/2-13 x 1.25LG	40264	40264	40264	40264	4
10	Lock Washer 1/2	93946	93946	93946	93946	4
11	Wire Clip	----	40265	40265	40265	4
12	Hex Nut 3/8-16	----	93874	93874	93874	3
13	Lock Washer 3/8	----	93943	93943	93943	3
14	FHCS 3/8-16	----	40246	40345	40345	3
15	Plain Washer	----	95420	95420	95420	3
16	Steel Cable 3/16"	----	40294	40294	40294	25'
17	Roller	----	40293	40293	40293	4
18	Clevis Pin	----	40054	40054	40054	4
19	Pin Clip	----	92540	92540	92540	4
20	----	----	----	----	----	--
Dimen-sions	A	21.00	32.00	36.00	40.00	
	B	53.00	72.25	76.00	78.00	
	C	22.00	30.00	36.00	36.00	
	D	3.50	6.25	7.75	9.50	

H-FRAME PRESS REPAIR PART SHEET 150-200 TONS



ITEM #	DESCRIPTION	PART # 150/200 Ton	QTY
1	Press Bed Assm.	40197	1
2	Lower Support Weldment	40797	1
3	Press Frame Weldment	40248	1
4	Foot Angles	40302	2
5	Support Pins	40307	4
7	Winch	40303	1
8	Hex Nut 1/2-13	93855	4
9	HHCS 1/2-13 x 1.75LG	40263	4
10	Lock Washer 1/2	93946	4
11	Wire Clip	40265	2
12	Lock Washer 3/8	93943	3
13	HHCS 3/8-16	40249	3
14	Plain Washer	95420	3
15	Steel Cable 3/16"	40294	50'
16	Roller	40293	9
17	Clevis Pin	40054	9
18	Pin Clip	92540	9
20	HHCS 1/4-20 x 2.0 LG	40970	4
21	1/4 Hex Nut	93847	4
22	1/4 Lock Washer	93941	4
23	Bracket	40961	2

10 Ton H-Frame Press

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		
IS1010	IAS1010	R1010 Single Acting 10 Ton Capacity	10 1/8	Air Powered	PA95	Advance Hold Retract	31	4.5	202	172
	IES1010			Electric Powered	PEM1032		120	8	260	
	IMS1010			Manual	P42		.38*	.06*	208	

25 Ton H-Frame Press

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		
	IAS256	R256/ R2514 Single Acting 25 Ton Capacity	6	Air Powered	PA95	Advance Hold Retract	14	2	417	----
	IAS2514		14						433	
IS256	IES256		6	Electric Powered	PEM2032		70	4	475	387
IS2514	IES2514		14						491	403
	IMS256		6	Manual Powered	P82		.5*	.05*	423	----
	IMS2514		14						439	

55 Ton H-Frame Press

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		
IS556	IES556	R556 S/A	6	Electric Powered	PEM2032	Advance Hold Retract	35	2	763	675
IS5513	IES5513	R5513 S/A	13						791	703
ID556	IED556	RD556 D/A	6		PEM2042		35	2	789	710
ID5512	IED5512	RD5512 D/A	12						843	755
	IMS556	R556 S/A	6	Manual	P82		.25*	.02*	711	----

100 Ton H-Frame Press

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	Electric Powered	PEM4032	Advance Hold Retract	19	2 3/4	1558	1470
IS10010	IES10010	R10010 S/A	10						1578	1490
ID1006	IED1006	RD1006 D/A	6		PEM4042		19	2 3/4	1620	1532
ID10012	IED10012	RD10012 D/A	12						1655	1567

* *Inches Per Stroke.*

■ ***Custom Build Your Press by ordering models without pumps. For foot or pendant control, higher pressing speeds or optional pump motors order separately the Simplex pump and pump mounting kit that meet your requirements, and you're ready for operation.***

Pump Mounting Kit	
For Hand Pumps	Model IM2
For Power Pumps	Model IM3