SIMPLEX 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 When Selecting A Press**

**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.

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**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
Proper Size & Selection

H-Frame Bench
10 - 15 Tons

H-Frame
55 Tons

H-Frame
10 Tons

H-Frame
100 Tons

H-Frame
25 & 30 Tons

H-Frame
150 & 200 Tons

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HYDRAULIC PRESSES
10-15 Ton - H Frame Bench

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

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

Contact Factory for additional dimensions.

<table>
<thead>
<tr>
<th>Model Number w/with Cylinder</th>
<th>Capacity (tons)</th>
<th>Type</th>
<th>Ram</th>
<th>Stroke (in)</th>
<th>Model Number w/o Cylinder</th>
<th>Weight (lbs)</th>
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<td>IBP1010</td>
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<td>IBP10</td>
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Products listed below are ordered separately.

<table>
<thead>
<tr>
<th>Capacity (tons)</th>
<th>Suggested Hand Pump</th>
<th>Suggested Electric Pump</th>
<th>Suggested Hose</th>
<th>Suggested Gauge</th>
<th>Gauge Adapter</th>
<th>Weight (lbs)</th>
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<tr>
<td>10</td>
<td>P42</td>
<td>G1121</td>
<td>HCA6</td>
<td>G6</td>
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<td>HCA6</td>
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<td>GA1</td>
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HYDRAULIC PRESSES

10 Ton - H Frame

SIMPLEX HAND PUMPS - pages 31 - 41
Hand pump design specifications meet or exceed ANSI / ASME B30.1 Safety Standards.

HOSES - pages 78 - 79
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

SIMPLEX CYLINDERS - pages 7 - 29
Cylinder design specifications meet or exceed ANSI / ASME B30.1 Safety Standards.

GAUGES - page 77
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.

Model IMS1010

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.

<table>
<thead>
<tr>
<th>Model Number Without Pump</th>
<th>Model Number With Pump</th>
<th>Type of Cylinder</th>
<th>Cylinder Stroke (in)</th>
<th>Type of Pump</th>
<th>Pump Model</th>
<th>Operation</th>
<th>Speed (in/min)</th>
<th>Weight With Pump (lbs)</th>
<th>Weight Without Pump (lbs)</th>
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<tr>
<td>IAS1010</td>
<td>IMS1010</td>
<td>R1010 Single Acting 10 Ton Capacity</td>
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<td>GA90</td>
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<td>.06*</td>
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<td>P140D</td>
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</table>
**HYDRAULIC PRESSES**

25-30 Ton - H Frame

**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.

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**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)** |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
---- | IAS256 | R256/ R2514 Single Acting 25 Ton Capacity | 6.25 | Air | GA90 | Advance Hold Retract | 14 | 417 | ---- |
---- | IAS2514 | R256/ R2514 Single Acting 25 Ton Capacity | 14.25 | Air | GA90 | 14 | 433 | ---- |
IS256 | IES256 | Electric | 6.25 | Electric | G1121 | 50 | 419 | 387 |
IS2514 | IES2514 | Electric | 14.25 | Electric | G1121 | 50 | 435 | 403 |
---- | IMS256 | Manual | 6.25 | Manual | P82 | .15* .03* | 423 | ---- |
---- | IMS2514 | Manual | 14.25 | Manual | P82 | .15* .03* | 439 | ---- |
ID3014 | IDE3014 | RDA3014 | 14.25 | Electric | G4172 | 40 | 462 | 428 |
---- | IMD3014 | RDA3014 | 14.25 | Manual | P1400 | .43* .04* | 458 | ---- |

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**HOSES - pages 78 - 79**
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

**COUPLERS - pages 74 - 75**
High flow quick disconnect couplers provide a quick change to a variety of pumps.

**POWER PUMPS - pages 43 - 65**
Simplex offers a wide variety of lightweight power pumps to fit any application.

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**Pump Mounting Kit**
- For Hand Pumps: Model IM2
- For Power Pumps: Model IM3
HYDRAULIC PRESSES
55 Ton - H Frame

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

HOSES - pages 78 - 79
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

SIMPLEX CYLINDERS - pages 7 - 29
Cylinder design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.

GAUGES - page 77
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.

Advance Pressing
IS556 IES556
R556 S/A 6.25 Electric Powered
G1121 Advance Hold Retract
23 35
2 5
707 748
703 710

ID556 IED556
RDA556 D/A 6.13
G4172
35 35
5 5
793 793
755 755

ID5512 IED5512
RDA5512 D/A 12
G4172
35 35
5 5
793 793
755 755

---- IMS556
R556 S/A 6.25 Manual
P82
.07* .02*
711 ----

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)

Model IM2
Model IM3

Capacity .................................. 55 Tons
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.

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

Top Pinhole
15.65”

7.75”
13.75”
75” to 42.62”

76”
29.5”
36”
36”

7.5”
6.81”
6.75”

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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.

- 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.

### Capacity Range
- 100 Tons

### Stroke
- 6.06 - 12 In.

### Maximum Pressure
- 10,000 PSI

### Model Number

<table>
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<th>Model Number Without Pump</th>
<th>Model Number With Pump</th>
<th>Type of Cylinder</th>
<th>Cylinder Stroke (in)</th>
<th>Type of Pump</th>
<th>Pump Model</th>
<th>Operation</th>
<th>Speed (in/min)</th>
<th>Weight With Pump (lbs)</th>
<th>Weight Without Pump (lbs)</th>
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<tr>
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<td>R1006 S/A</td>
<td>6.62</td>
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<td>G4163</td>
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<td>IES10010</td>
<td>R10010 S/A</td>
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<td>IED1006</td>
<td>RDA1006 D/A</td>
<td>6.06</td>
<td>Electric</td>
<td>G4173</td>
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### Hoses - pages 78 - 79
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

### Simplex Cylinders - pages 7 - 29
Cylinder 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.
HYDRAULIC PRESSES
150-200 Ton - H Frame

THINK SAFETY
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POWER PUMPS - pages 43 - 65
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GAUGES - page 77
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.

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

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.

Model ID15012

<table>
<thead>
<tr>
<th>Model Number Without Pump</th>
<th>Model Number With Pump</th>
<th>Type of Cylinder</th>
<th>Cylinder Stroke (in)</th>
<th>Type of Pump</th>
<th>Pump Model</th>
<th>Operation</th>
<th>Speed (in/min)</th>
<th>Weight With Pump (lbs)</th>
<th>Weight Without Pump (lbs)</th>
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<td>ID15012</td>
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<td>Hold Retract</td>
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