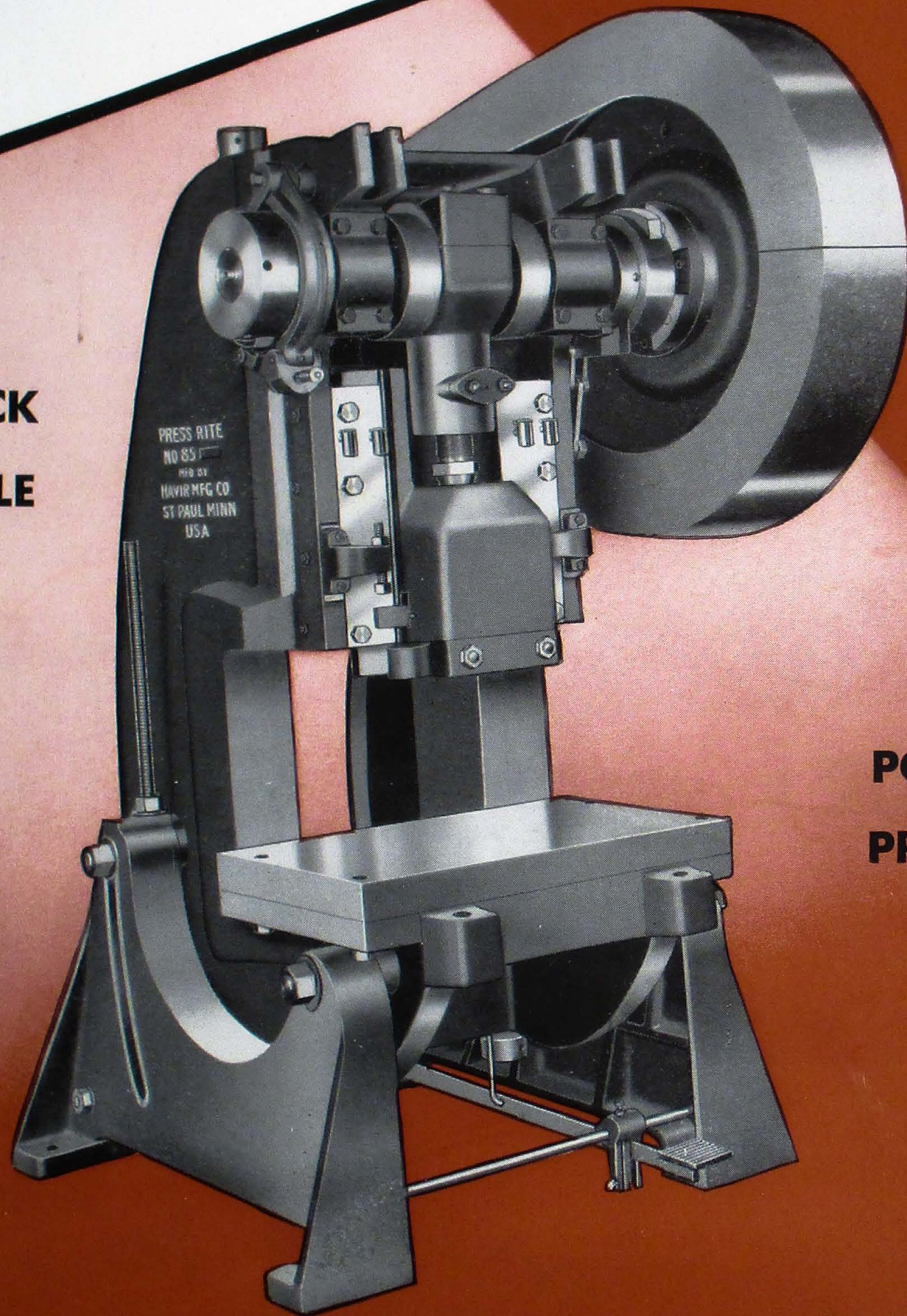


# PRESS-RITE

## POWER PRESSES

**OPEN BACK**  
**INCLINABLE**

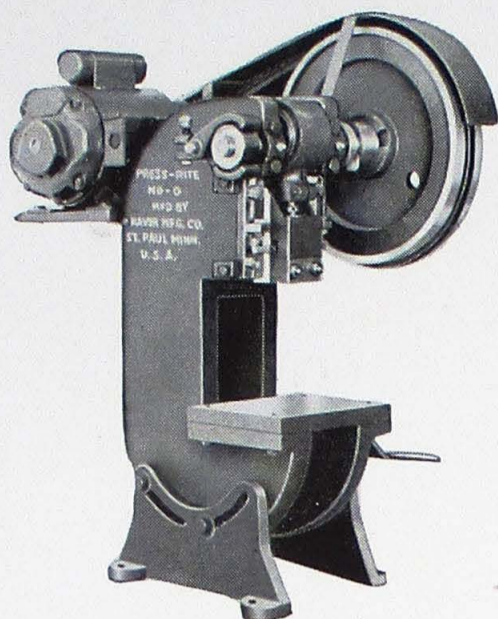


**POWER**  
**PRESSES**

*Sales Service Machine Tool Co.*  
2363 UNIVERSITY AVENUE    ::    ST. PAUL 4, MINNESOTA

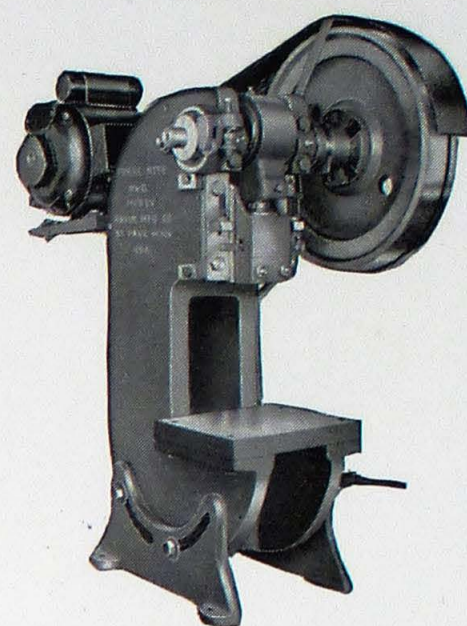


# PRESS-RITE POWER PRESSES



**No. 0 Standard Bench Model—  
5 Ton**

The No. 0-5 Ton Standard Press-Rite Presses are furnished with extra large die space, special alloy frame, heavy flywheel, bronze bushed main bearings and connecting rod. The connecting rod is especially designed with an easy adjusting ball screw and locking clamp for faster setting and changing of precision dies. With standard brake and clutch, single stroke attachment, knockout bar, steel bolster plate, motor bracket, pulley and vee belts. Furnished either in bench or floor types. Uses  $\frac{1}{3}$  H.P., 1740 RPM motor; for slower speeds and single tripping we recommend a  $\frac{1}{3}$  H.P., 1140 RPM motor.



**No. 0 High Production Bench Model—  
5 Ton**

No. 0-5 Ton High Production Press-Rite Presses are built for heavy production, same as the Standard No. 0 plus extra features which include roller bearings in the flywheel, specially developed Press-Rite sliding key clutch with 4 point engagement drive ring made of high grade steel and attached to the flywheel, automatic brake, special alloy frame, bronze bushed main bearings and connecting rod bearings, with easy, quick adjusting ball screw and clamping arrangement for faster setting of precision dies. With knockout bar in ram, motor drive arrangement which includes motor platform, pulleys, belts and belt guard. Furnished either in bench or floor type. Uses  $\frac{1}{3}$  H.P., 1740 RPM motor; for slower speeds and single tripping we recommend a  $\frac{1}{3}$  H.P., 1140 RPM motor.

SPECIFICATIONS	No. 0-5 Ton
Diameter of Crankshaft at Bearing and Pin	1 $\frac{1}{8}$ "-3"
Standard Stroke	1 $\frac{1}{4}$ "
Longer Stroke at Extra Charge, Maximum	2"
Adjustment of Slide	1 $\frac{1}{4}$ "
Distance Bed to Slide, Stroke Down, Adjustment Up	7"
Distance Bolster to Slide, Stroke Down, Adjustment Up	6"
Bolster Thickness	1"
Bolster Area—F.B.xR.L.	7"x8 $\frac{1}{2}$ "
Opening in Bed—Oblong	3 $\frac{3}{8}$ "x6 $\frac{1}{4}$ "
Distance to Back from Center of Slide, or Depth of Throat	4"
Opening in Back	3 $\frac{3}{8}$ "
Area of Slide—F.B.xR.L.	2 $\frac{3}{4}$ "x3 $\frac{1}{2}$ "
Diameter of Hole in Slide for Die Shank	1" Round
Height from Floor to Center of Crankshaft, Bench Model	24 $\frac{1}{2}$ "
Height from Floor to Center of Crankshaft, Floor Model	50 $\frac{3}{4}$ "
Flywheel Speed, R. P. M.	155 (Higher Speeds Optional)
Motor Required, 1140 R. P. M.	$\frac{1}{3}$ H.P.
Flywheel Size	14"x2 $\frac{1}{4}$ "
Weight of Flywheel	60 Lbs.
Floor Space Required, Floor Model	19"x23"
Shipping Weight, Less Motor, Approximately	300 Lbs.



**No. 0 Standard or High Production  
Available As Floor Model**



# PRESS-RITE POWER PRESSES



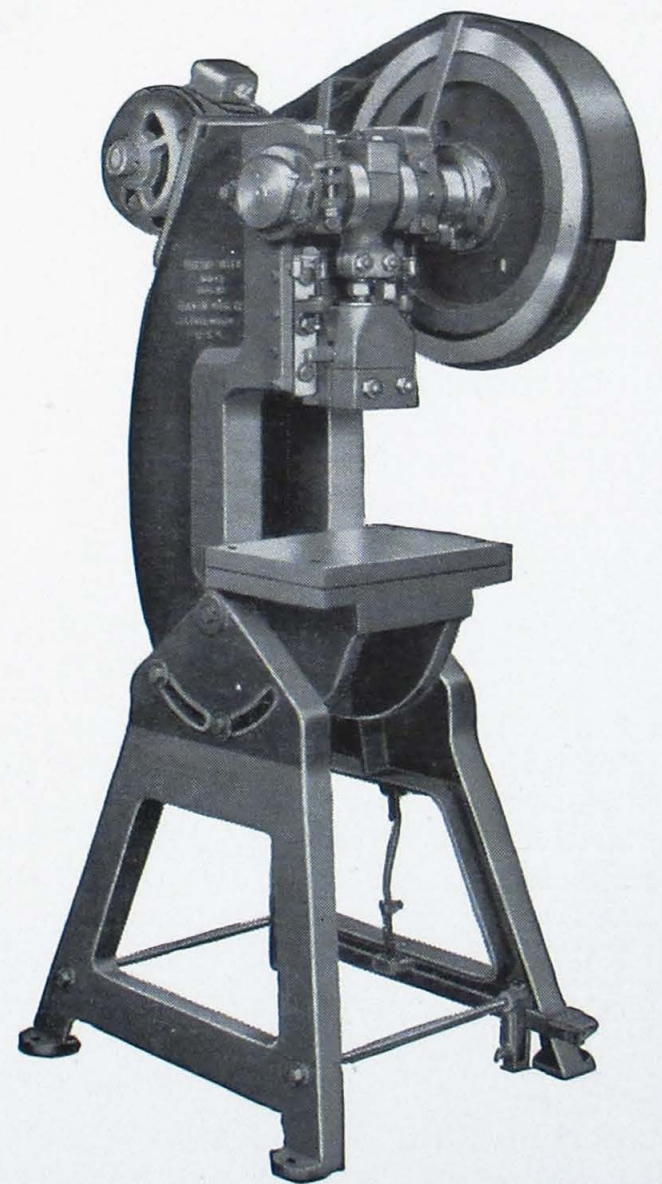
No. 1 Floor Model—10 Ton

## PRESS-RITE PRESSES ARE PRECISION BUILT FOR PRECISION WORK

The Press-Rite No. 1-10 Ton Press has a specially designed high tensile alloy frame, reinforced at all vital points to virtually eliminate deflection, bronze bushed main bearings, roller bearings in the flywheel, specially developed Press-Rite sliding key clutch with 4 point engagement drive ring made of high grade steel and attached to the flywheel, automatic brake, positive single stroke mechanism, easily adjusted gibs to maintain perfect alignment, quick adjusting ball screw and clamping arrangement for faster setting of various sized dies; knock-out bar in slide, steel bolster plate, including motor drive unit with belts, pulley, motor bracket and belt guard.

The No. 1 1/2-15 Ton has all of the above features but in addition has a heavier frame and heavier crankshaft, Vee ways on ram with triple lubrication the same as the larger Press-Rite Presses, is available with increased shut heights and longer stroke than standard.

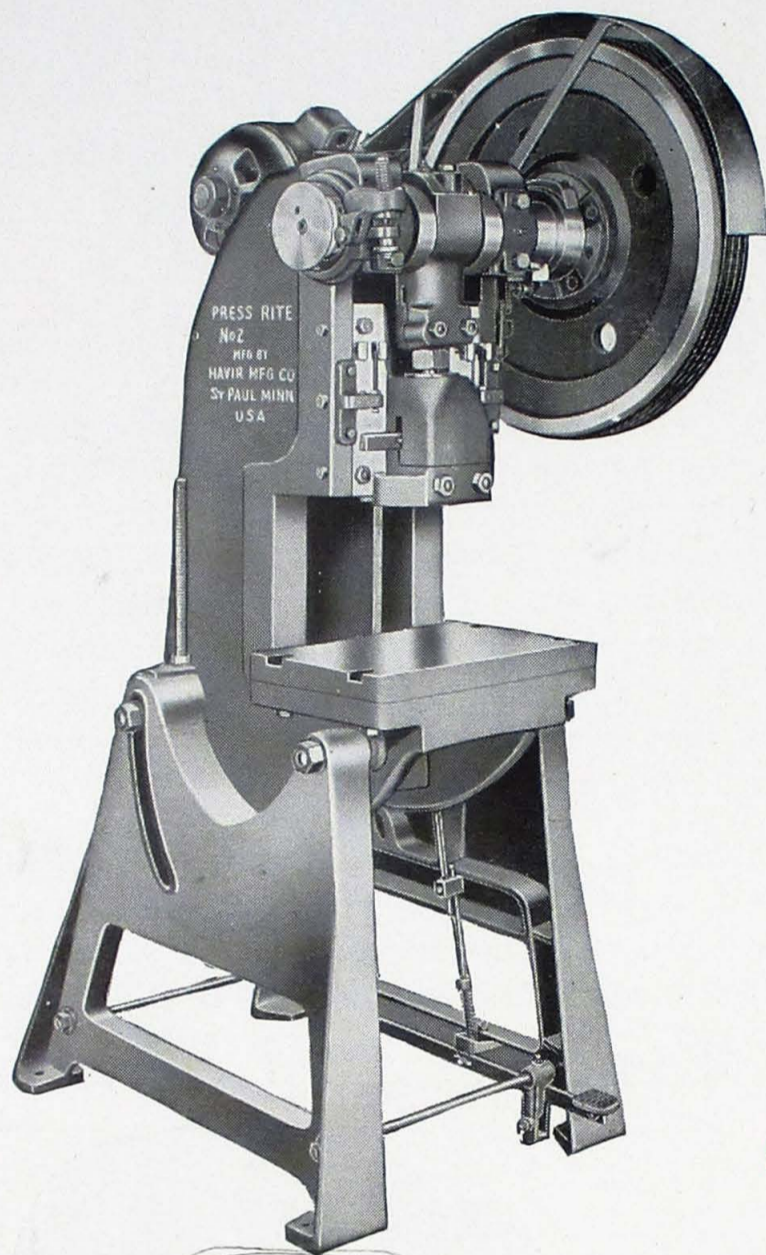
SPECIFICATIONS	No. 1-10 Ton	No. 1 1/2-15 Ton
Diameter of Crankshaft at Bearing and Pin	1 3/4"-2 1/4"	2 1/8"-2 3/8"
Standard Stroke	2"	2"
Longer Stroke at Extra Charge, Maximum	3"	3"
Adjustment of Slide	2"	2"
Distance Bed to Slide, Stroke Down, Adjustment Up	7 1/2"	8"
Distance Bolster to Slide, Stroke Down, Adjustment Up	6 1/4"	6 3/4"
Bolster Thickness	1 1/4"	1 1/4"
Bolster Area—F.B.xR.L.	10"x14 3/8"	10"x14 3/8"
Opening in Bed—Oblong	5 3/4"x7"	5 3/4"x7"
Distance to Back from Center of Slide, or Depth of Throat	5 1/2"	5 1/2"
Opening in Back	5 1/4"	6"
Area of Slide—F.B.xR.L.	4 3/4"x4 1/2"	5 3/4"x6 1/4"
Diameter of Hole in Slide for Die Shank	1-9/16" Round	1-9/16" Round
Height from Floor to Center of Crankshaft, Floor Model	51 1/2"	52"
Flywheel Speed, R. P. M.	160	160
Motor Required,	3/4 HP 1140 RPM	3/4 HP 1140 RPM
Flywheel Size	20"x3"	20 1/4"x3 1/2"
Weight of Flywheel	160 Lbs.	190 Lbs.
Floor Space Required, Floor Model	23"x26"	23"x26"
Shipping Weight, Less Motor, Approximately	800 Lbs.	1100 Lbs.



No. 1 1/2 Floor Model—15 Ton



# PRESS-RITE POWER PRESSES



No. 2—20 Ton

The No. 2 and 3 Press-Rite Presses have the same streamline features as other sizes. High tensile alloy frame, reinforced at vital points for extra rigidity, hand scraped for extreme accuracy on precision work, plus bronze main bearings, heavy vee ram ways with independent adjustable gibs so the user can maintain perfect alignment of the ram. The following outstanding features contribute to Press-Rite low cost efficient operation:

**Greater die space** to accommodate greater range of die sizes.

**Straight roller bearings** in the flywheel to make adjustment unnecessary.

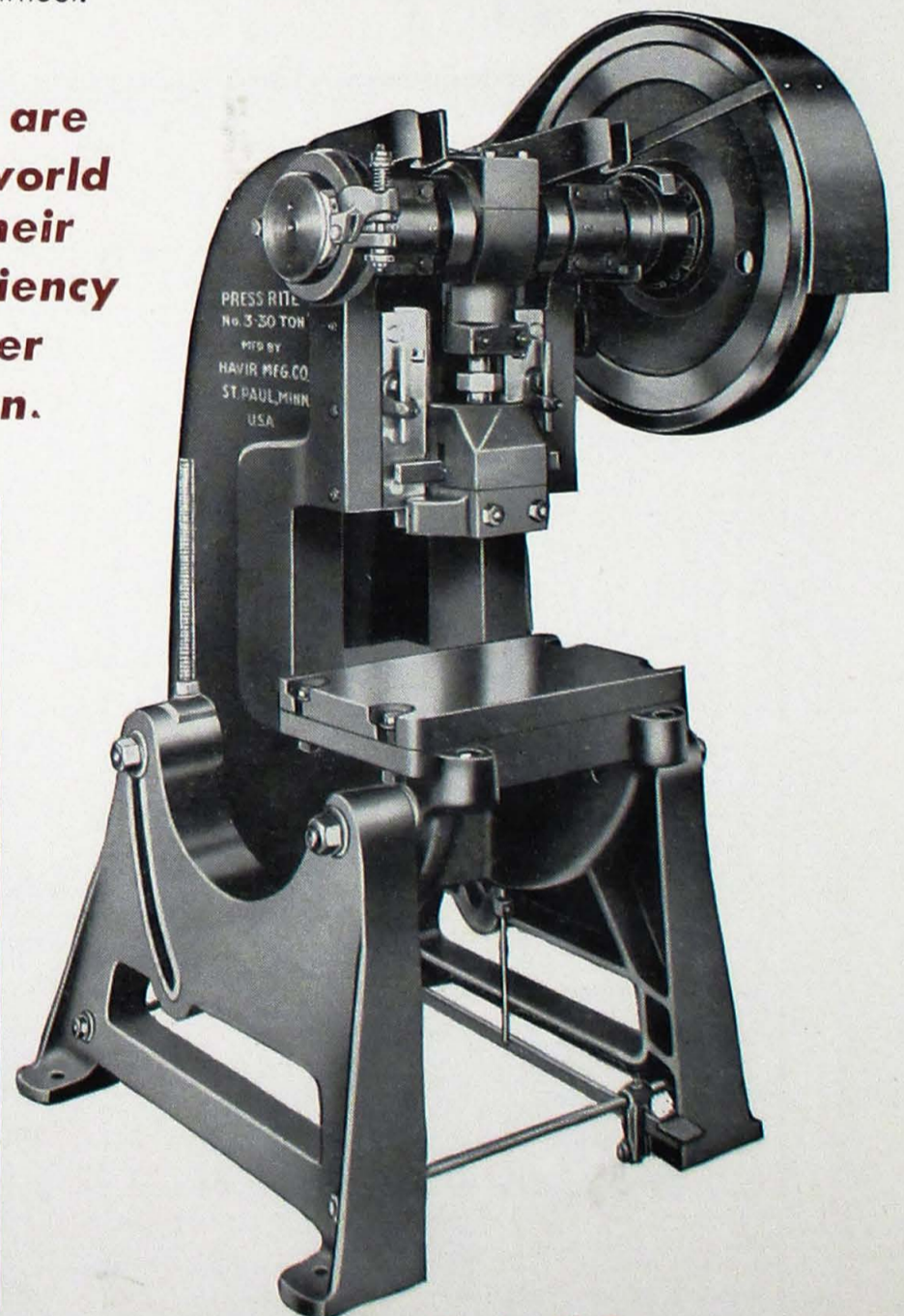
**Triple ram way lubrication** insures proper lubrication regardless of whether the Press is upright or inclined.

**Automatic brake** eliminates constant drag thus reducing wear and excessive heating.

**Built-in non-repeat single stroke attachment** eliminates operator fear and increases his efficiency.

**Specially developed Press-Rite sliding key clutch** with 4 point engagement drive ring made of high grade steel and attached to the flywheel.

**Press-Rites are known the world over for their greater efficiency and higher production.**



No. 3—30 Ton

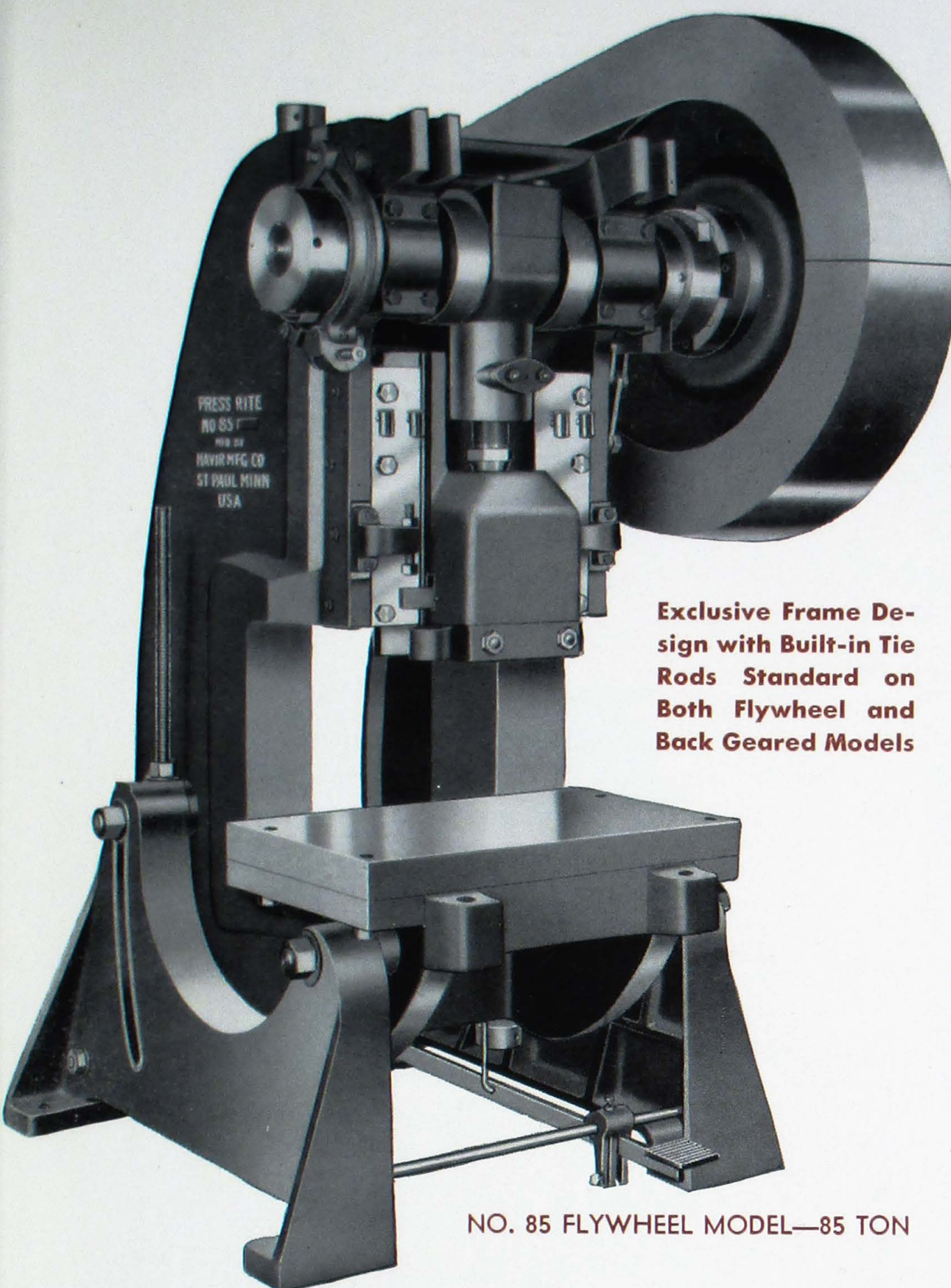
SPECIFICATIONS	No. 2-20 Ton	No. 3-30 Ton
Diameter of Crankshaft at Bearing and Pin	2 <sup>3</sup> / <sub>8</sub> "-3"	3"-4"
Standard Stroke	2"	2 <sup>1</sup> / <sub>2</sub> "
Longer Stroke at Extra Charge, Maximum	3 <sup>1</sup> / <sub>2</sub> "	4"
Adjustment of Slide	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> "
Distance Bed to Slide, Stroke Down, Adjustment Up	8 <sup>1</sup> / <sub>2</sub> "	10"
Distance Bolster to Slide, Stroke Down, Adjustment Up	7"	8"
Bolster Thickness	1 <sup>1</sup> / <sub>2</sub> "	2"
Bolster Area—F.B.xR.L.	11"x18"	13 <sup>3</sup> / <sub>4</sub> "x23 <sup>3</sup> / <sub>4</sub> "
Opening in Bed—Oblong	6"x7"	7 <sup>1</sup> / <sub>2</sub> "x10 <sup>1</sup> / <sub>2</sub> "
Opening in Bed—Round		9 <sup>1</sup> / <sub>2</sub> " Dia.
Distance to Back from Center of Slide, or Depth of Throat	6"	7"
Opening in Back	8 <sup>1</sup> / <sub>2</sub> "	11"
Area of Slide—F.B.xR.L.	6"x9"	8"x10"
Diameter of Hole in Slide for Die Shank	2" Round	2" Round
Height from Floor to Center of Crankshaft, Floor Model	57 <sup>1</sup> / <sub>4</sub> "	60 <sup>1</sup> / <sub>2</sub> "
Flywheel Speed, R. P. M.	140	120
Motor Required, 1140 R. P. M.	2 H.P.	3 H.P.
Flywheel Size	26"x3 <sup>1</sup> / <sub>2</sub> "	30"x5"
Weight of Flywheel	300 Lbs.	600 Lbs.
Floor Space Required, Floor Model	25"x31"	35"x38"
Shipping Weight, Less Motor, Approximately	1700 Lbs.	3200 Lbs.



# PRESS-RITE POWER PRESSES

## SPECIFICATIONS

NUMBER OF PRESS	
Rated Capacity in Tons	85
Diameter of Crankshaft Bearing	5"
Diameter of Crankshaft Pin	6"
Standard Stroke	4"
Maximum Stroke	9"
Adjustment of Slide	3"
Distance Bed to Slide	15"
Distance Bolster to Slide	12"
Bolster Thickness, Steel	3"
Bolster Area, F. B. x R. L.	22"x36"
Distance Back from Center Line of Slide	12"
Opening in Bed	14"x19"
Width of Opening in Back	17"
Area of Slide, F. B. x R. L.	12 <sup>7</sup> / <sub>8</sub> "x17"
Diameter of Hole in Slide	1 <sup>1</sup> / <sub>2</sub> " to 3"
Height from Floor to Center Line of Crank	78 <sup>1</sup> / <sub>2</sub> "
FLYWHEEL PRESS	
Strokes Per Minute	95
Diameter and Face of Flywheel	41"x7"
Weight of Flywheel	1,560 Lbs.
Overall Height	9'
Floor Space Legs, F. B. x R. L.	52"x53"
Approximate Weight	12,500 Lbs.
Motor Size	7 <sup>1</sup> / <sub>2</sub> H.P.
Motor R.P.M.	900
GEARED PRESS	
Strokes Per Minute	45
Ratio of Gearing	6.3 to 1
Speed of Flywheel, R.P.M.	285
Diameter and Face of Flywheel	32"x6"
Weight of Flywheel	800 Lbs.
Overall Height	9'
Floor Space, Overall, F. B. x R. L.	77"x68"
Approximate Weight	14,500 Lbs.
Motor Size	7 <sup>1</sup> / <sub>2</sub> H.P.
Motor R.P.M.	1,800



**Exclusive Frame Design with Built-in Tie Rods Standard on Both Flywheel and Back Geared Models**

**NO. 85 FLYWHEEL MODEL—85 TON**

## GENERAL DESCRIPTION

The No. 85 Press-Rite Open Back Inclinable Press has a one-piece special alloy frame, with built-in tie rods to give you the rigidity you would expect only when using a straight side tie rod press, offered to you for the first time at no extra cost.

**After Many Years of Research** in the manufacture of press equipment for metalworking industries, we feel confident that our newly designed Press-Rite Press with built-in tie rods will give you extra insured tonnage and will reduce to a minimum any possible deflection such as you would normally get on larger open back inclinable presses.

**The Design of Our Tie Rod Frame** will increase the life of dies and reduce any binding or misaligning of dies during heavy drawing and blanking operations, which you so often get in conventional type larger open back inclinable presses.

**Only When You Buy a Press-Rite Press** do you get our special alloy frame plus extra heavy built-in tie rods with no sacrifice in weight, which means extra tons and extra large die area for large and bulky dies.

**Our Ram Slide is Extra Heavy** with large and long ram ways, triple lubricated, counterbalanced, large face area with a steel bushing in the hole of the slide for holding die shanks, plus the original Press-Rite ball and socket adjusting screw with easy-adjusting take-up retaining ring.

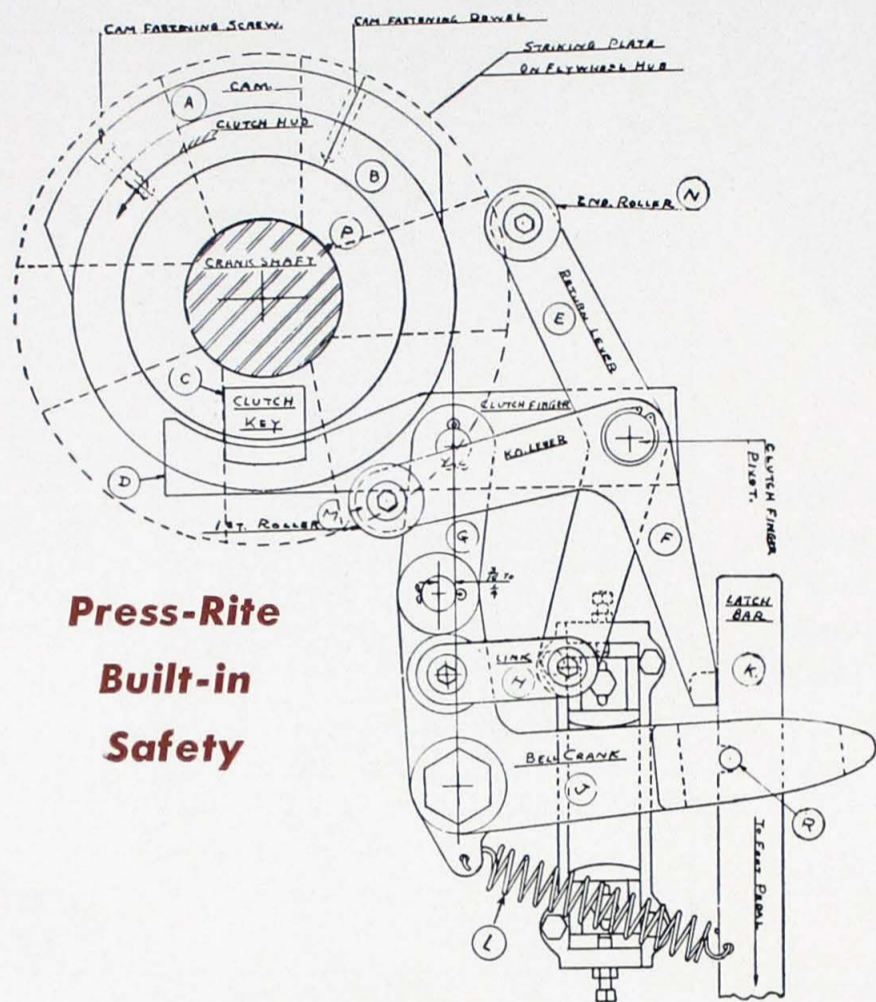
**Press-Rite Presses Can Be Supplied** in either the flywheel or back geared type, with either the conventional, popular Press-Rite sliding key clutch, or an air friction clutch. These features are optional, at an additional cost, and prices will be quoted on application.

**EXTRA EQUIPMENT AVAILABLE:** Longer or Shorter Stroke than standard. Greater shut height. Back Gear Air Friction Clutch. Die Cushions, Forced Feed Lubrication Systems.



# PRESS-RITE POWER PRESSES

## BUILT-IN SAFETY FEATURES



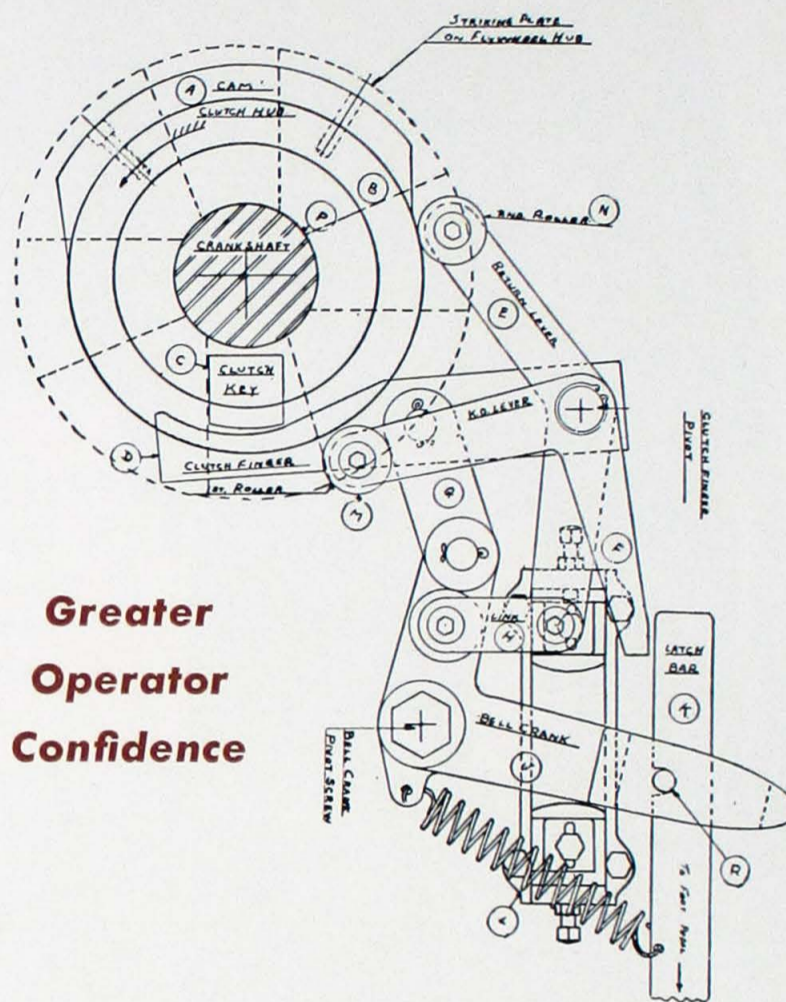
**Press-Rite  
Built-in  
Safety**

### FLYWHEEL FREE

**PRESS-RITE Single Trip Clutch** operates through the conventional sliding key "C" and Finger "D" which ordinarily are connected directly to the foot pedal. In PRESS-RITE Single Trip the foot pedal is connected to the Latch Bar "K". When the foot pedal is depressed the Latch Bar "K" moves downward and carries with it, through Pin "R", Bell Crank "J", and Link "G", the Finger "D" allowing Key "C" to engage the Flywheel (not shown). Crankshaft "P" then rotates with the Flywheel until it has made approximately  $\frac{1}{4}$  revolution, when Cam "A" contacts Roller "M" and through Lever "F" disengages Latch Bar "K" from Pin "R" allowing Finger "D" to return to the original position, retracting Key "C" allowing Flywheel to rotate free regardless of how long the operator keeps the pedal depressed. Operator must allow pedal to return to top position to make another stroke.

**New Press-Rite Presses** are now equipped with the above built-in safety Single Stroke Clutch Mechanism and a Cam Actuated Automatic Brake. **The Single Stroke Mechanism can be easily changed for continuous operation when desired.** With the exception of the No. 0, these features are furnished as standard equipment and are definitely the Greatest Built-in Safety Features ever offered to Power Press Users.

**Note:** The No. 0, 5 Ton Press, is also available with Roller Bearings in the Flywheel, Four-Point Contact Clutch Plate and Automatic Brake at a slight additional cost.



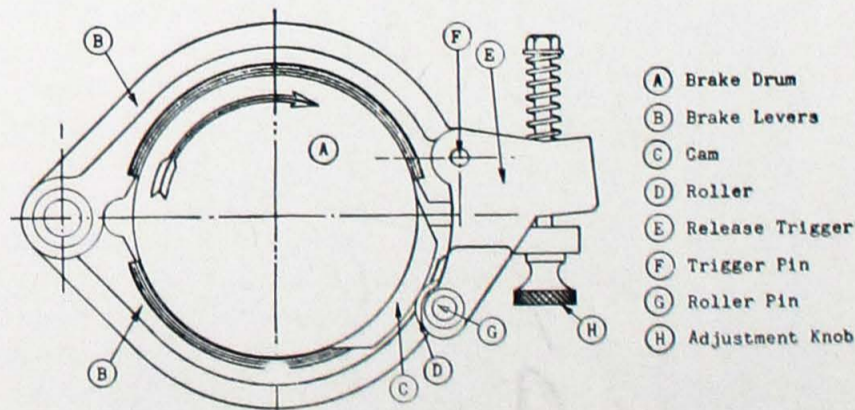
**Greater  
Operator  
Confidence**

### FLYWHEEL ENGAGED

Should Spring "L" break during the cycle, and fail to return Finger "D" to the retracting position, Finger "D" would positively be returned to the proper position by Cam "A" contacting Roller "N" through Lever "E", Link "H", Bellcrank "J", and Link "G".

If it is desired to operate press continuously, remove Cam "A" from Clutch Hub "B" and hook foot pedal in depressed position in foot lever guide. Cam "A" is held in position by a screw and dowel, as shown.

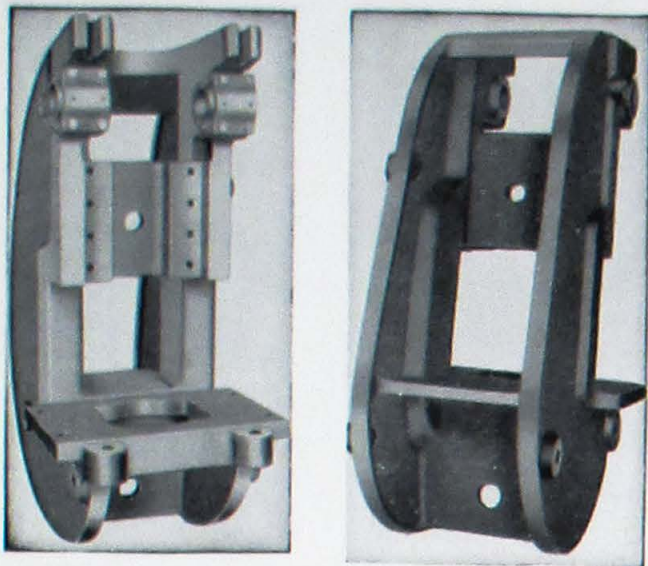
Press as shipped, is set for single stroke operation.



The purpose of the Brake Release is to remove the brake tension during that part of the stroke where it is not required, thus reducing the heat generated. Continuous brake friction generates excessive heat causing failure of lubrication in main bearings, and burning out of brake lining.

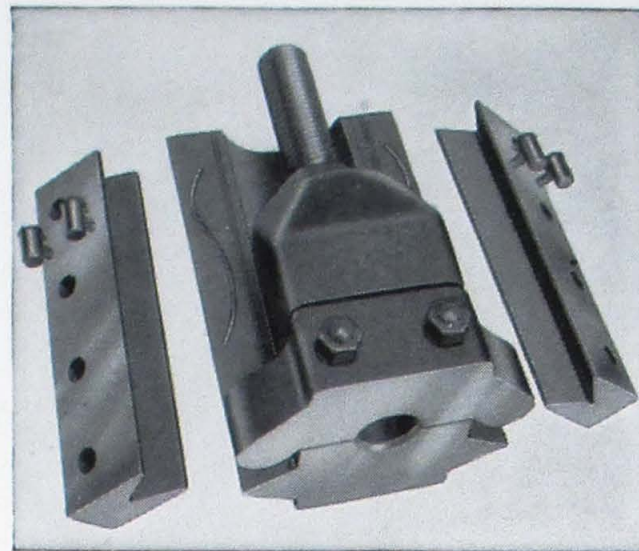


# Outstanding Features



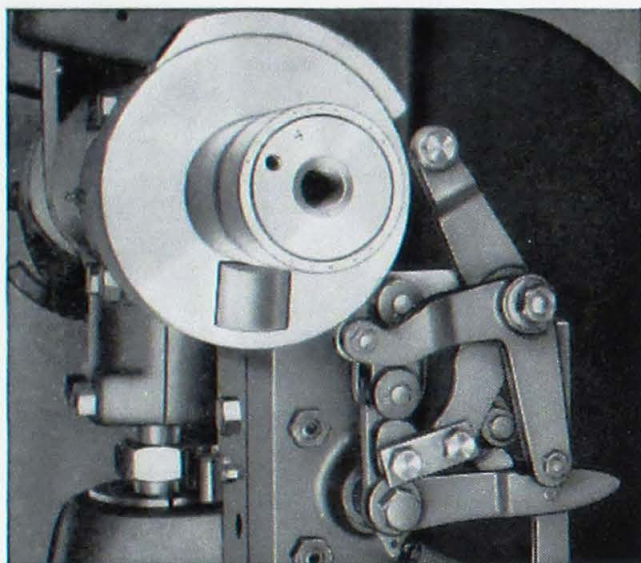
## REINFORCED HEAVY DUTY FRAME . . .

Permits long trouble free service, with maximum rated load under severe operating conditions.



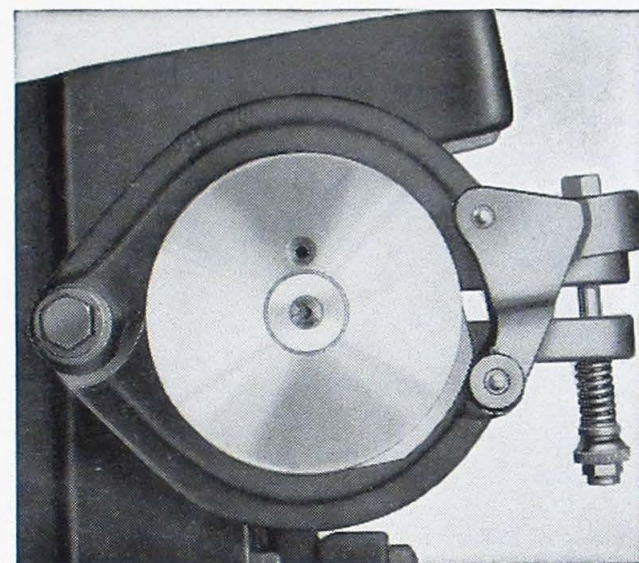
## TRIPLE RAMWAY LUBRICATION . . . .

Assures constant lubrication for the extra heavy ram and ramways. This means longer life for the press and lower operating costs.



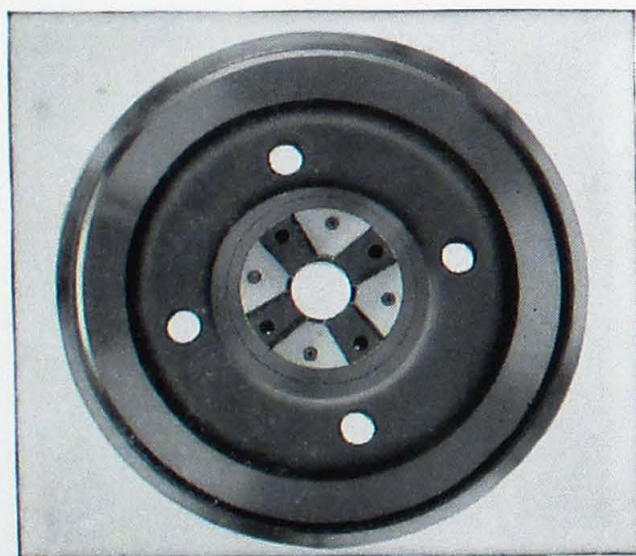
## NON REPEAT SINGLE STROKE SAFETY MECHANISM . . .

Eliminates operator fear and increases efficiency. Cam and lever actuated with no springs to break . . . no set screws to loosen . . . no adjustments to make. Easily changed for continuous operation if desired.



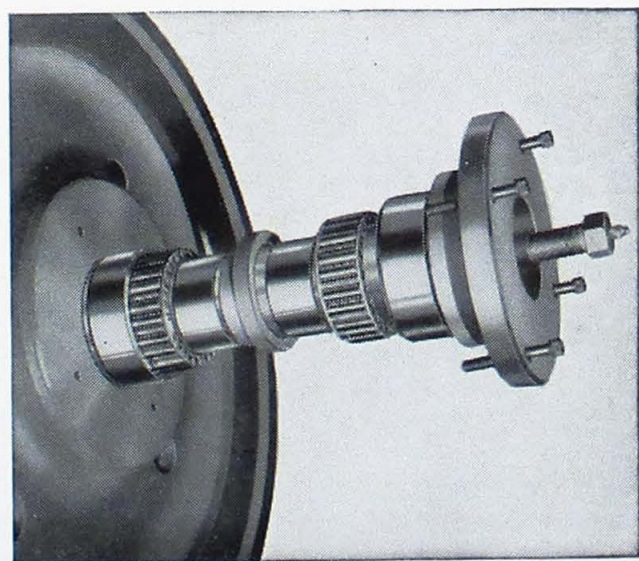
## AUTOMATIC CAM ACTUATED BRAKE . . .

Permits instant braking at the top of the stroke without continuous drag. Allows full flywheel energy on next stroke.



## 4 POINT SLIDING KEY CLUTCH . . .

Offers a faster means of contact with one of 4 points on the flywheel striking plate. Eliminates lost flywheel motion and power. Increases production.



## ANTI-FRICTION ROLLER BEARINGS . . .

in the flywheel, eliminate flywheel drag. Provide smoother action and longer life.



# PRESS-RITE POWER PRESSES

**All Press-Rite Presses** are equipped with Knock-Out Bar in Slide, Ball and Socket Adjusting Screw in Slide, Extra Heavy Ram, Ram Ways, and Gibs. Triple lubrication is provided to the Ram Ways to insure longer life.

**Standard Equipment Includes:** Bronze Bushed Main Bearings, Anti-Friction Roller Bearings in Flywheel, Specially Developed Press-Rite Sliding Key Clutch with 4 Point Engagement Drive Ring made of High Grade Steel and Attached to the Flywheel, Automatic Brake, Positive Single Stroke Mechanism, Knock-Out Bar in Slide, Steel Bolster Plate, including Motor Drive Unit with Belts, Pulley, Motor Bracket and Belt Guard on all Press-Rite Presses with the exception of the Standard No. 0 Press. (Note Special and Standard Equipment shown under No. 0 Press.)

**Extra Equipment Available:** Longer or Shorter Strokes than standard; Increased Shut Height is available on the Nos. 1 1/2, 2, 3, and 85 Presses; Motors; Starters; Flexible Goose-neck Lamps; Forced-Feed Lubrication Systems.

## IMPORTANT ORDER INSTRUCTIONS

When placing your order, please specify whether the stroke and shut height is to be standard as outlined in the specifications and if special specify the exact stroke and shut height required, (over bolster or bed). If the customer furnishes his own motor, a certified motor print must accompany the order stating the frame size, diameter of the shaft, and the size of the keyway. Motor must be ball-bearing and of standard N.E.M.A. design. Otherwise an extra charge will be necessary to arrange motor drive suitable for motor.

## GUARANTEE

We guarantee this machine to be free from defective material and workmanship when given normal and proper usage and when owned by the original purchaser.

During the guarantee period parts found defective will be furnished free of charge f.o.b. our factory.

## SUGGESTED FORMULA FOR DETERMINING POWER PRESS CAPACITY

A quick way to determine the capacity of a press is as follows: square the diameter of the crankshaft main bearings, and multiply by 3 1/2. This will give the capacity in tons.

## PARTIAL LIST OF USERS OF PRESS-RITE PRESSES

Ainsworth Mfg. Co.....	Mich.	International Harvester Co.....	Cal. and Tenn.
Allen Calculators .....	Mich.	Lewyt Corp. ....	N. Y.
Allis Chalmers Mfg. Co.....	Wis.	Libby-Owens Ford Glass Co.....	Pa.
American Locker Co.....	Mass.	Linde Air Products.....	N. Y.
American Plastics Corp.....	N. Y.	Lyons Inc. ....	Mich.
Amity Leather Products Co.....	Wis.	Marchant Calculating Machine Co.....	Cal.
Axelson Mfg. Co.....	Mo.	Maytag Co. ....	Iowa
Baldwin Instrument Co.....	N. Y.	Minneapolis Honeywell Regulator Co.....	Minn.
Boots Aircraft Nut Corp.....	Conn.	Minnesota Mining & Mfg. Co.....	Minn.
Bower Roller Bearing Co.....	Mich.	Motorola Corp.....	Ill.
Brown & Bigelow Mfg. Co.....	Minn.	National Pressure Cooker Co.....	Wis.
Bull Dog Electric Co.....	Mich.	Northern Engraving & Printing.....	Wis.
Burlington Instrument Co.....	Iowa	Outside Venetian Blind Co.....	Fla.
Chamberlain Weather Strip Co.....	Mich.	Parker Pen Co.....	Wis.
Colonial Radio Corp.....	N. Y.	Pittsburg Plate Glass Co.....	N. Y.
Columbus McKinnon Chain Corp.....	N. Y.	Revere Copper & Brass.....	N. Y.
Crosley Corp. ....	Ohio	Ray-O-Vac Co. ....	Wis.
Cutler Hammer Co.....	Wis.	Remington Rand .....	N. Y.
Delco Remy (Div. of General Motors).....	Ind.	Reo Motors, Inc.....	Mich.
Eastman Kodak Co.....	N. Y.	Republic Rubber (Div. of Lee Rubber).....	Ohio
Endicott Johnson Corp.....	N. Y.	Rochester Prod. (G.M. Div.).....	N. Y.
Eversharp, Inc. ....	Ill.	Ronson Art Metal Works Co.....	N. J.
Federal Reserve Bank.....	Cal.	F. C. Russell Co.....	Ohio
Ferro Stamping Co.....	Mich.	Sessions Clock Co.....	Mass.
Fischer Body Corp.....	Mich.	L. C. Smith Corona Typewriter, Inc.....	N. Y.
Free Sewing Machine Co.....	Ill.	South Bend Bait.....	Ind.
Friden Calculating Machine Co.....	Cal.	Sure Heat Stove Co.....	Texas
General Dry Batteries Co.....	Ohio	U. S. Bedding Co.....	Tenn.
General Electric Co.....	N. Y.	Universal Harvester Co.....	Cal.
General Motors Corp.....	Mich.	Victor Mfg. & Gasket Co.....	Ill.
Gillette Safety Razor Co.....	Mass.	Willard Storage Battery Co.....	Ohio
Great Western Fuse Co.....	Pa.	Yale-Towne Mfg. Co.....	Pa.
Hotpoint Inc. ....	Ill.	Youngstown Sheet & Tube Co.....	Ohio

*See Your Local Dealer*