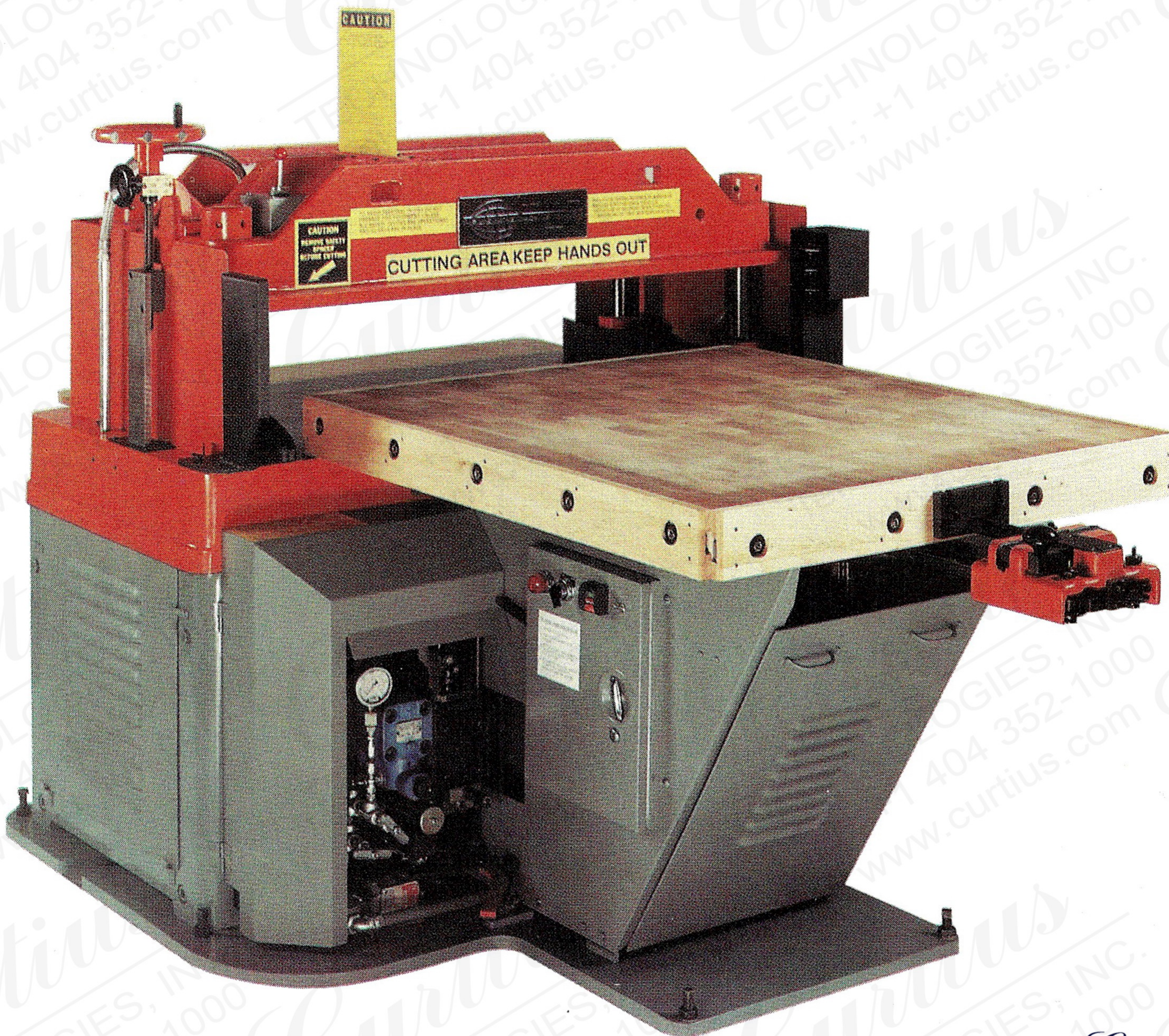




Hydraulic Die Press

F. L. Smithe **HP**





Hydraulic Die Press

F. L. Smithe **HP**

The Champion Hydraulic Die Press HP represents the most modern development in envelope die-cutting equipment. The hydraulic operation of the ram provides smoothly controlled cutting power while numerous automatic features reduce operator fatigue and allow more time for the operator to handle the paper and cut blanks. The HP is put into action by a hand lever, and the ram and board motions are synchronized to operate through one full cycle eliminating entirely the manual operation of the board. The actual procedure is as follows: The die cutter places the die in position on the lift of paper and trips the ram lever. This causes the board to move into cutting position under the ram where it stops and triggers the cutting stroke of the ram. After the cut has been made, the ram rises and as soon as the die is released the board is returned to its original position. The machine is now set for the next

The powerful, versatile F.L. Smithe model “**HP**” has set a standard of die cutting excellence for many years. The hydraulic ram operation provides smoothly controlled cutting power. Its automatic action reduces operator fatigue - ram and board motions are synchronized through each cycle, eliminating operator handling of the board. More accurate cutting results from the fact that ram speed can be controlled, helping to eliminate die flare. Numerous safety features, including an automatic electric eye shut-off system, assure operator safety.

The HP is a ruggedly built machine which will give many years of service with increased output of quality blanks and lowered production costs.

cycle. An additional gain from this automatic cycling is safety for the operator since he is not continually trying to “catch” a stroke.

Because of the hydraulic principle and rugged construction of the finest materials the press is practically indestructible, and even should the die be placed upside down under the ram there is no danger of breakage; in fact, the die itself would be barely damaged. More accurate cutting results from the fact that ram speed can be controlled helping to eliminate die flare. Since the press is at rest except when the cut is actually being made and since there are relatively few moving parts, maintenance costs are also reduced as compared with older styles of continuously operating presses. The increased production, higher quality and lowered costs of this machine make it a sound investment for any envelope plant.

MACHINE SPECIFICATIONS

OUTPUT: up to 800,000 Blanks per 8 Hr. shift
(Depends upon layout)

RAM STROKE SPEED: Variable

MAX. SHEET SIZE: 40" x 44" (1,02 x 1,12m)

MACHINE HEIGHT: 6' (1,83m)

Curtius

TECHNOLOGIES, INC



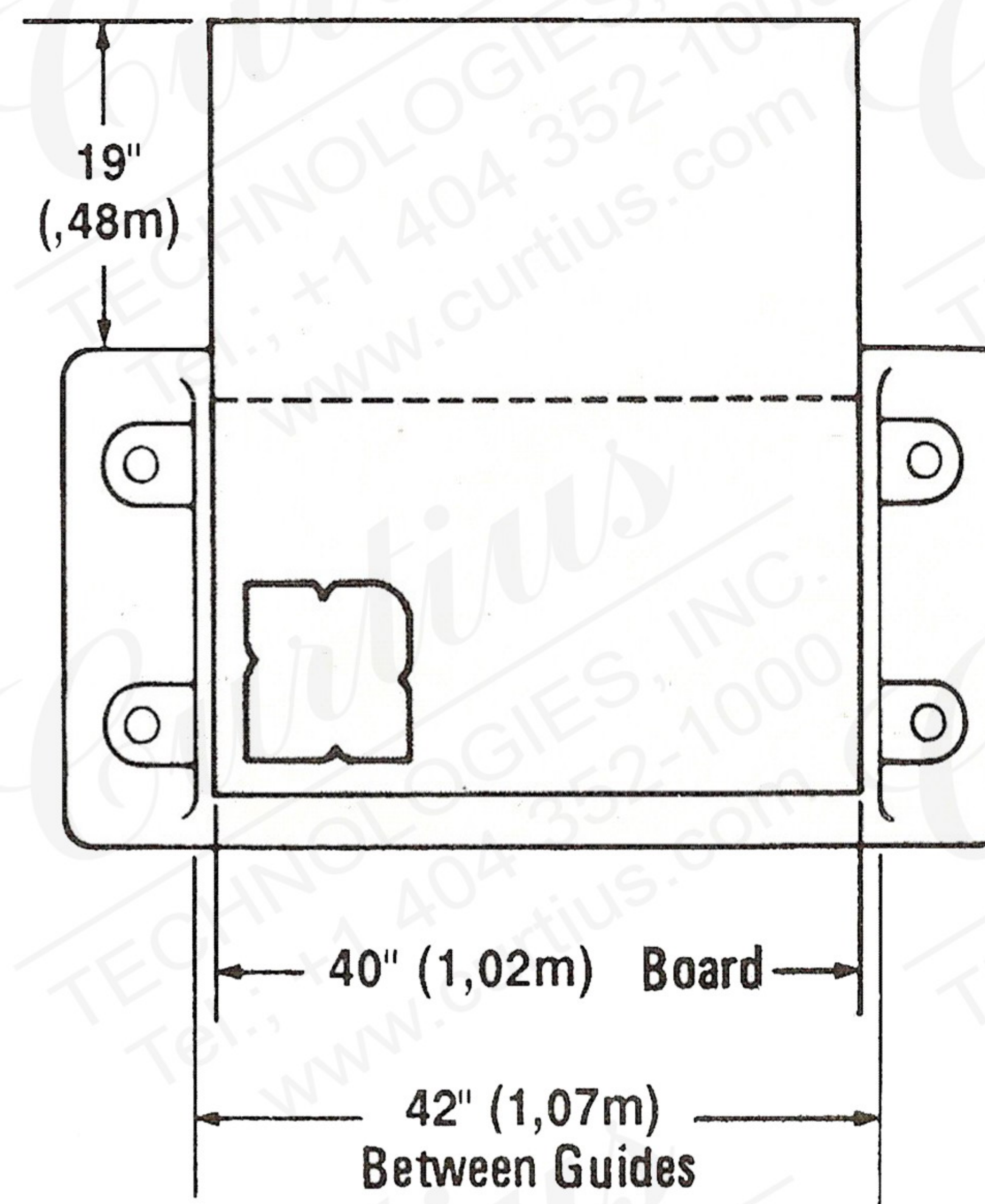
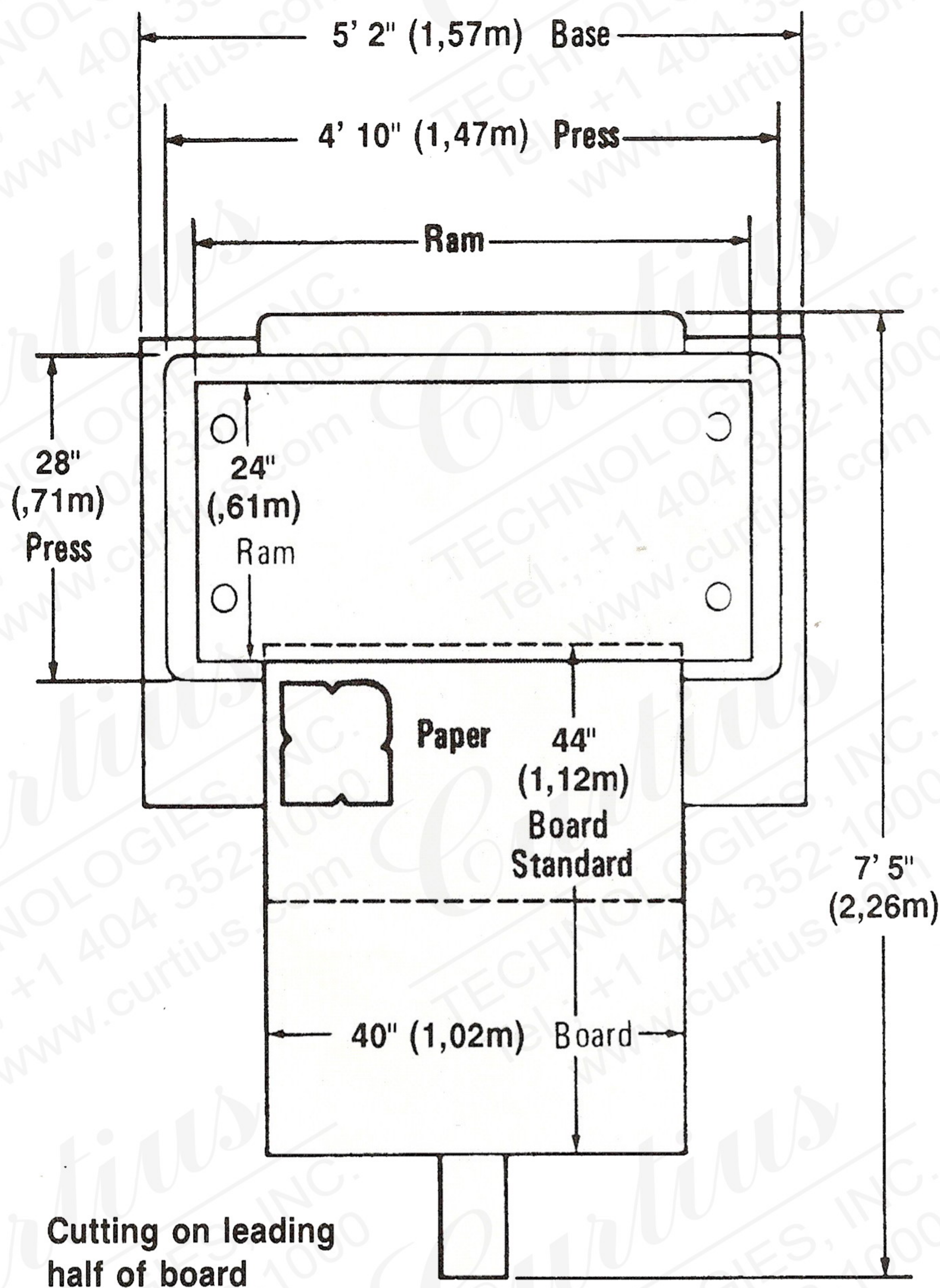


Hydraulic Die Press

F. L. Smithe

HP

FLOOR PLAN





Hydraulic Die Press

F. L. Smithe **HP**

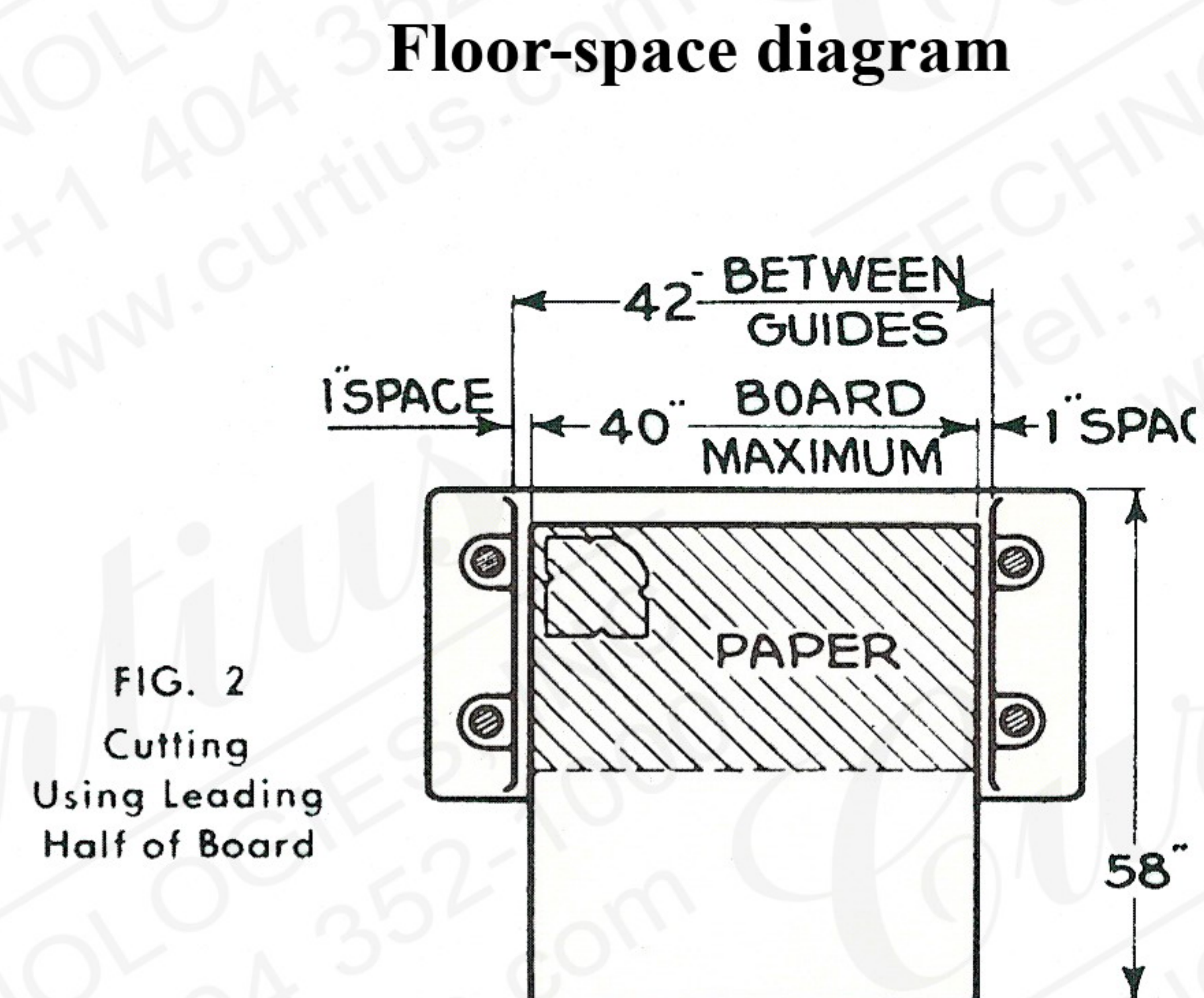
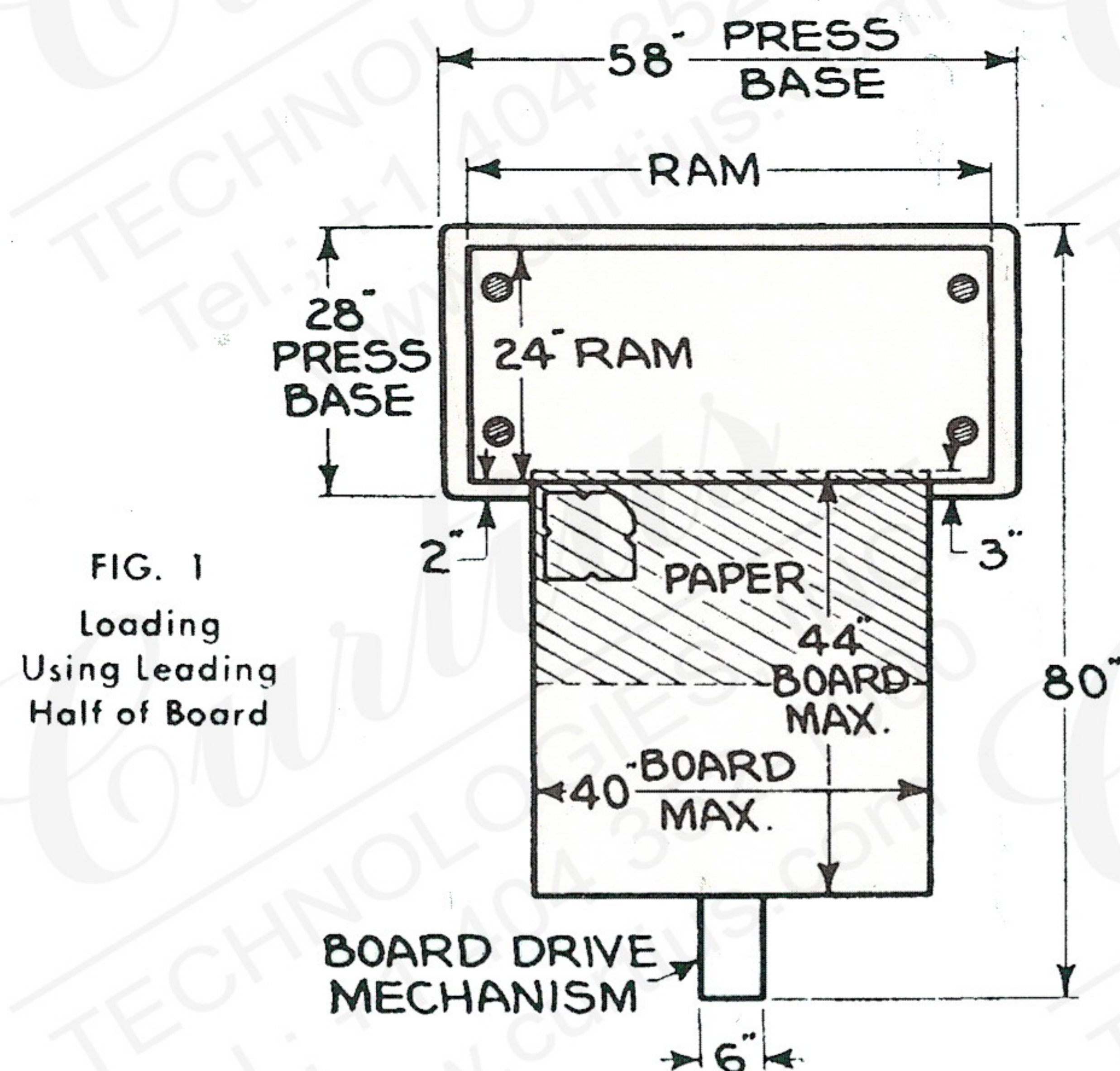


FIG. 2
Cutting
Using Leading
Half of Board

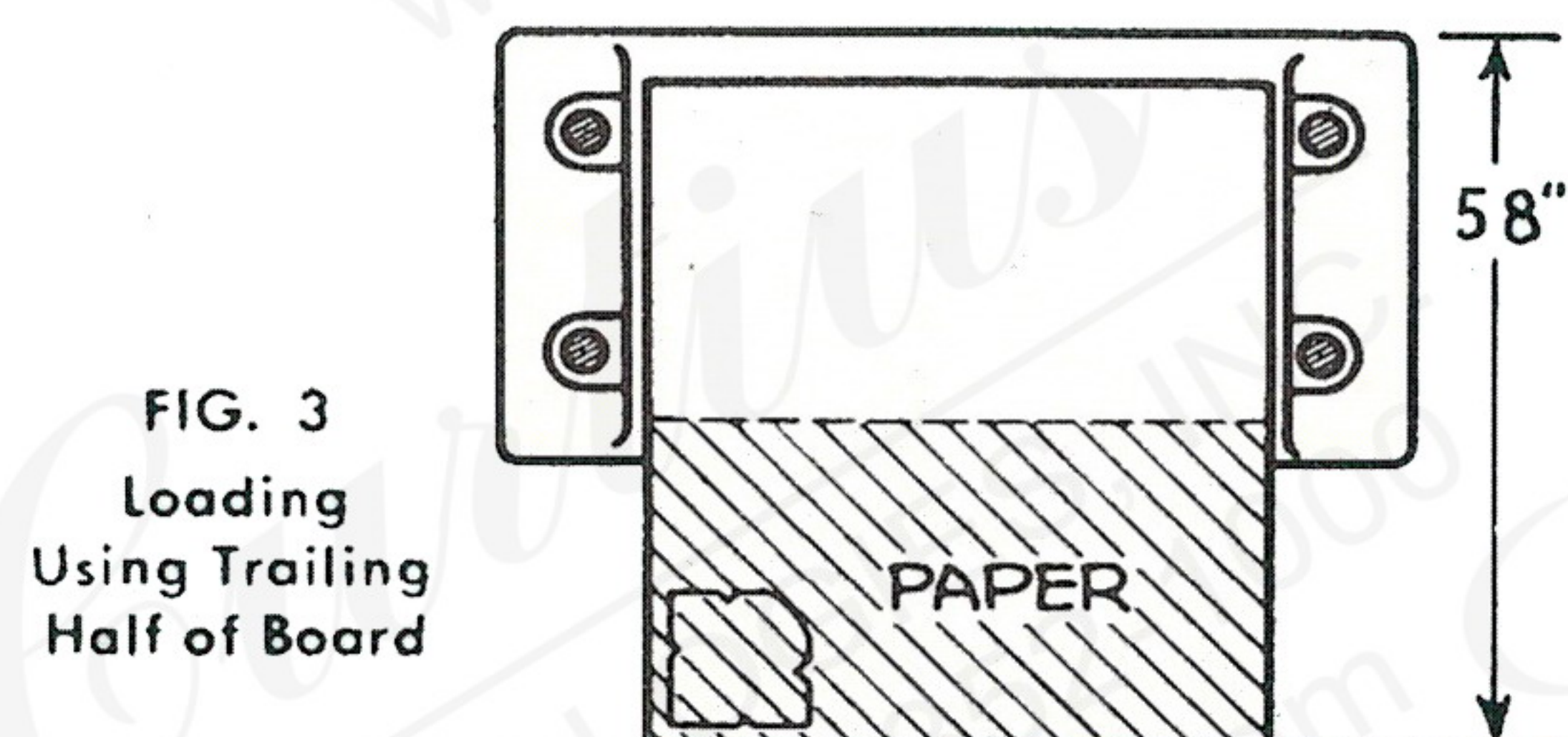


FIG. 4
Cutting
Using Trailing
Half of Board

| NET WEIGHT | | |
|--------------------------|------|------|
| APPROX. TOTAL NET WEIGHT | | |
| HP | LBS. | Kg. |
| | 5900 | 2676 |

CLEARANCE BETWEEN RAM AND BED

| WITH RAM STROKE | 4" Max. | 2" Min. |
|----------------------------------|---------|---------|
| Ram All The Way Up & Adj. Up | 12 1/2" | 12 1/2" |
| Ram All The Way Down & Adj. Up | 8 3/4" | 10 3/4" |
| Ram All The Way Up & Adj. Down | 7 7/8" | 5 7/8" |
| Ram All The Way Down & Adj. Down | 3 7/8" | 3 7/8" |

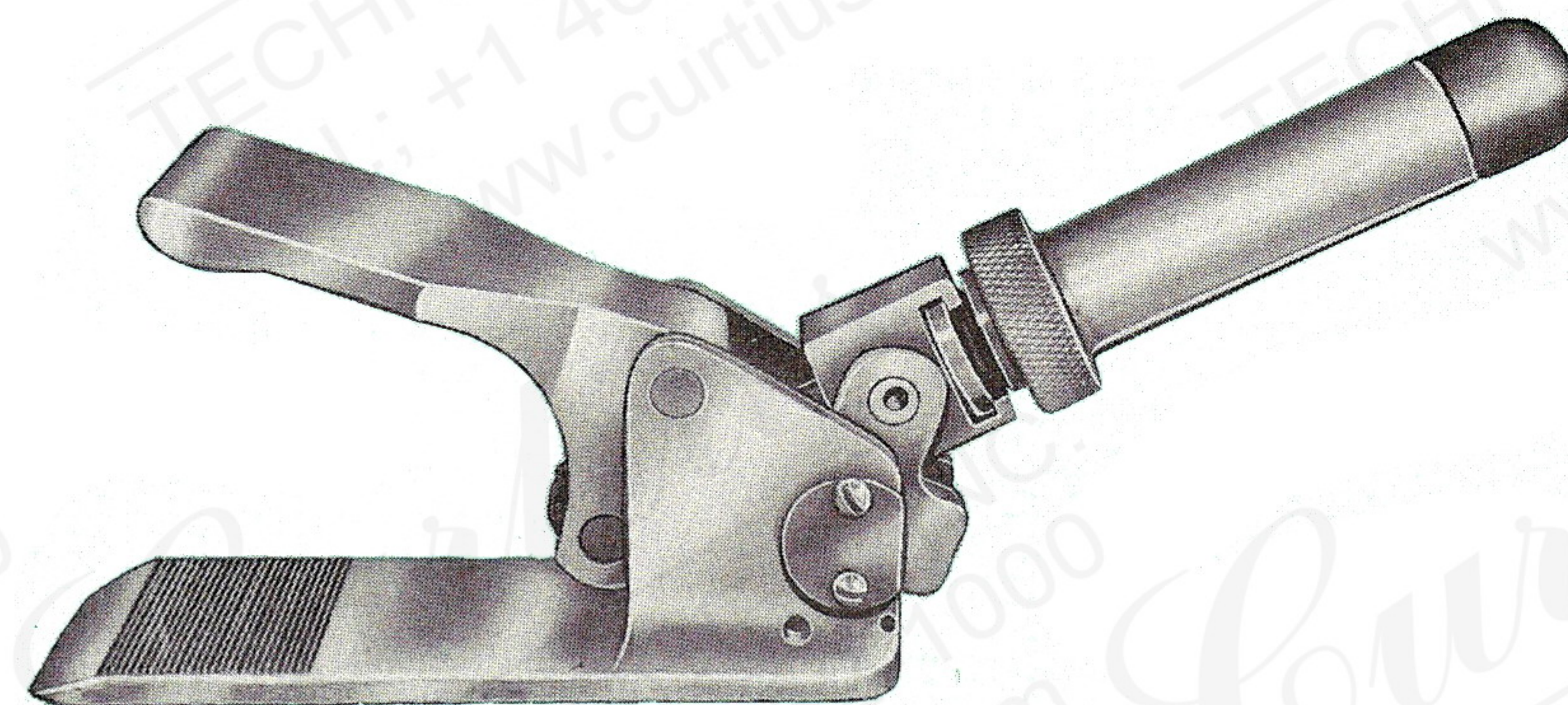
| ELECTRICAL SPECIFICATIONS | | | | | | |
|---------------------------|-----------------------------|-------|-------|-------|-----------|-------------|
| HP | TOTAL CONNECTED LOAD - AMPS | | | | | |
| | 3Ø -60 Hz | | | | 3Ø -50 Hz | |
| | 208 V | 230 V | 460 V | 575 V | 380 V | 415 V 440 V |
| | 23 | 23 | 11.5 | 9.2 | 17.8 | 16.5 |



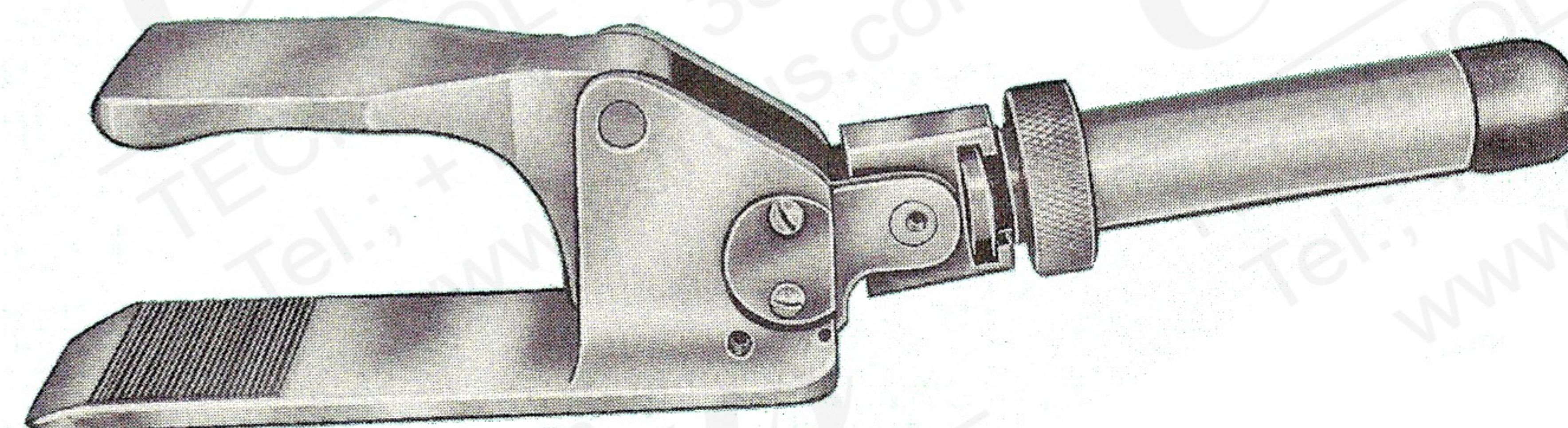


CHAMPION PAPER CLAMP

The Champion Paper Clamp is the first real improvement in paper clamps in many years. In the locked position, all of the clamp is well below the top surface of the die so that there is no danger of breakage due to interference with the ram. It provides a powerful bite on paper reams of from 1" to 3". The rounded base on the upper jaw grips the paper firmly, without disturbing its position, regardless of the height of the ream being held or the angle of the upper jaw. A slight turn of the locking handle increases or lessens pressure as needed. This new clamp actually increases production since the operator does not consume time in setting the clamp and the paper ream in special positions on the board so as to clear the clamp from the ram stroke. The Champion Paper Clamp opens as easily as it closes. It is the most modern and efficient paper clamp available to the envelope industry.



OPEN



CLOSED

