

# 12 X 12

## EMP-II Hydraulic System

The EMP-II is a sophisticated, compact, lightweight, very powerful, electro hydraulic power system. It consists of a power unit, cylinder, hoses and a foot switch. All component parts are carefully matched to assure continuing trouble free operation. Because of its efficient design the EMP-II plugs into any properly fused 115VAC outlet - no need for special wiring.

When compared to mechanical presses, hydraulic driven machines are quieter, last longer, have fewer parts and deliver more force over the entire stroke.

In case of jamming or over capacity an externally accessible pressure relief valve automatically spills excess hydraulic fluid into the reservoir.

## Easy To Operate

Unlike mechanical presses, there is no need for a clutch or for lowering the ram by hand when positioning tooling for work. A twin guarded foot switch gives infinite control of the ram in both directions. The punch may be "jogged" either up or down or stopped at any point in its travel. It is not necessary to complete a cycle once it is started. Alignment of work piece or punches and die require relatively little skill.

## Wide Range of Tooling

All tooling is interchangeable with other Kidder presses. Standard tooling includes punching attachment for holes 1/8" through 5" rounds, punches for shapes including squares, rectangles and ovals, and attachments for shearing, notching, bending and pipe notching. All standards are modestly priced and available mostly off the shelf. A wide range of custom tooling is available as Kidder has tool makers on staff.

## Optional Gauge Table

The optional gauge table (not shown) for production work adjusts from any angle between 90 and 45 and features a sliding "quick lock" mechanism.

## Special Applications

Custom tooling is available for radiusing, corner trimming, multiple hole punching, slotting, end forming and cut-off, louvers, piercing, lightforming, keyholes, combination cut-off and punching, nibbling and many many more. We also supply holders for Whitney, Mubea, Geka, and other punches.



## 12 X 12

Twelve tons of punching power at an affordable price this C-frame will punch to the center of a 24" sheet and will also shear, notch and bend 2" x 2" x 1/4" angle and other structures.

Effective working range is from 30 gage though mild 3/8" mild steel. This versatility is possible because of the specially reinforced design and welded all steel construction. Primary use for the 12 X 12 is for short run production, prototype work, and fabrication of panels, cabinets, stands, and frames. An optional gage table (not shown) for production adjusts from any angle between 45 to 90 and features a sliding "quick lock" mechanism.



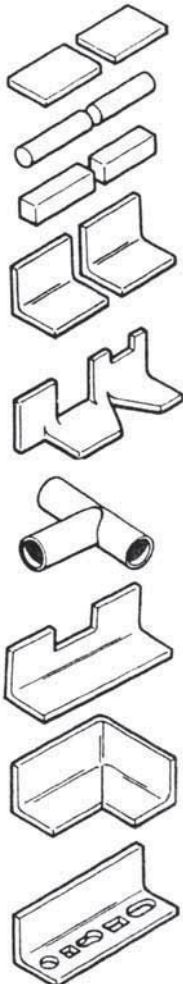
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## Standard Attachments

BXP-3	Punch holder for Kidder #3 punches
BXD-3	Die holder for 7/8" O.D. 5/8" ht. dies
BXP-4	Punch holder for Kidder #4 punches
BXD-4	Die holder for 1-1/2" O.D. x 1" ht. dies
BXP-SS	Punch holder for Kidder straight shank (3/4" shank dia.) punches
BXD-2	Die holder for 2" O.D. x 3/4" ht. dies
BXD-3-7/16	Die holder for 3-7/16" O.D. x 3/4" ht. dies
BXD-4-5/8	Die holder for 4-5/8" O.D. x 3/4" ht. dies
BXD-5-15/16	Die holder for 5-15/16" O.D. x 3/4" ht. dies
BXS-F	Shearing attachment for flats, 3" blades
BXS-A	Shearing attachment for angles
BXN-A	Notching attachment (2-1/2" blades)
BXN-B	Notching attachment (5" blades)
BXB-3	Bending attachment for radii and shapes
BXB-4	Bending attachment for heavy flats and angles
BXB-6	Bending attachment for lighter, wider flats and angles
BXPN	Pipe notching attachment for 1" to 2" pipe

ORDER TOOLING SEPARATELY - See price list



### SHEARING

- 3/8" x 3" flats in one stroke, much greater widths using multiple strokes.
- 5/8" square or round bar
- 2" x 2" x 1/4" angle

### NOTCHING & COPING

- 2 1/2" x 2 1/2" in 1/4" (2" x 2" x 1/4" angle) removes fillet completely
- 2" x 2" end cope (including fillet) in 3/16" angle, for butt welding
- 3 sided copes in 1/4"

### PIPE NOTCHING

- 90 degrees, equal or unequal sizes from 1" through 2"

### BENDING

- 1/4" x 4" flats
- 3/16" x 5 1/2" in lighter gauge
- Radii in up to 1/2" material

### PUNCHING

- 7/16" in 3/8", 1 1/4" in 1/8" mild steel
- Punch within 1/2" of leg in channel or angle
- Rounds, squares, rectangles, keyholes and others
- Punch any shape within 1-7/8" circle

## Specifications

12 X 12

Throat Depth	12"
Shut Height	7" (Open)
Stroke	2"
Way System	Cast Iron (Meehanite) Replaceable
Controls (115VAC)	Double foot switch with guard and 6' line
Pump	3 GPM, 2500 p.s.i., 7 gal res., 3 position 4 way valve, 2 speed pump
Cycle Time	10 per minute or 20 per minute with a high speed pump. (full stroke, round trip, no load)
Height Overall	60"
Depth	12"
Width	22"
Weight	650 lbs

## Options

- Gage table - Adjusts from any angle from 90 to 45 and features a "quick lock" mechanism.



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**Founded in 1902, Kidder is the world's leading manufacturer of notching machines, combination presses, universal presses, brakes, and all associated tooling.**



**Proudly Made in the USA**