

Cold Forming of Metals

PRESS, BENCH A press small enough to be mounted on a bench or table

PRESS, C-FRAME A press having uprights or housing shaped like the letter "C". This type of press is usually inclinable and has an open back

PRESS, DOUBLE-ACTION A press equipped with two moving slide members, one inside the other

PRESS, DOUBLE-ACTION MECHANICAL A press having one slide within the other, the outer slide usually being toggle or cam operated, resulting in independent parallel slide movements

PRESS, DOUBLE-CRANK A mechanical single action press in which two cranks on the same shaft operate the slide. The press may be a straight side press or an overhanging or gap frame press

PRESS, ECCENTRIC A mechanical press in which an eccentric and strap are used to move the slide instead of a crankshaft and connection

PRESS, FOUR-POINT A press with a slide actuated by four connections and four cranks, eccentrics, or cylinders. On this type of press, pressure at the corners of the slide is equalized

PRESS, GAP FRAME A press with uprights or housing made in the form of the letter "C" so that both ends of the die space are accessible

PRESS, HORN A mechanical press with straight front and equipped with, or arranged for, a horn for doing operations such as forming, set down, piercing, and riveting hollow, cylindrical, or odd-shaped work

PRESS, INCLINABLE A press whose main frame may be tilted backward, usually up to 45 degrees, to facilitate ejection of parts by gravity through an open back

PRESS, INCLINED A press having the frame built in a fixed inclined position

PRESS, KNUCKLEJOINT A heavy, powerful short-stroke press with a slide actuated by a single toggle joint which is closed and opened by means of the connection and crank. It is used for embossing, coining,

and similar operations

PRESS, OPEN BACK INCLINABLE (OBI) An inclinable press in which the opening at the back between the uprights is usually slightly more than the left to right dimension of the side flange. It is one of the most common small presses

PRESS, PUNCH Most commonly, an end wheel gap press of a fixed type. The term also is used loosely to refer to any mechanical press

PRESS, STRAIGHT SIDE A mechanical press with uprights or housing having plain, flat sides (usually vertical) which bound or enclose the left and right sides of the die space

PRESS, TOGGLE A double- or triple-action mechanical press in which a slide or slides are actuated by one or more toggle joints

PRESS, TRIPLE-ACTION A press having three slides with three motions synchronized for such operations as drawing, redrawing, and forming. The third motion is opposite in direction to the first two and is usually located within the press bed

PRESS, TWO-POINT A mechanical press in which the slide is operated by two connections to the crankshaft

PRIMARY OPERATION Blanking, piercing, corner cutting, staking, assembling, and other types of metal forming or cutting in which strip or coil stock is fed into the die without need for the operator to place his hands between the dies, or when processing a large part in which case his hands are a reasonable distance from the operation

PUNCH The male die part, usually the upper member (punch holder), mounted on the slide. The punch is generally used for forming, piercing, cutting, or blanking dies (Fig 25-6)

PUNCH HOLDER The plate to which the punch and other parts in the upper half of the die assembly are mounted and which in turn is clamped or bolted to the press slide

PUNCH HOLDER SHANK That portion of the punch holder which is clamped in the slide of the press

RAM See SLIDE