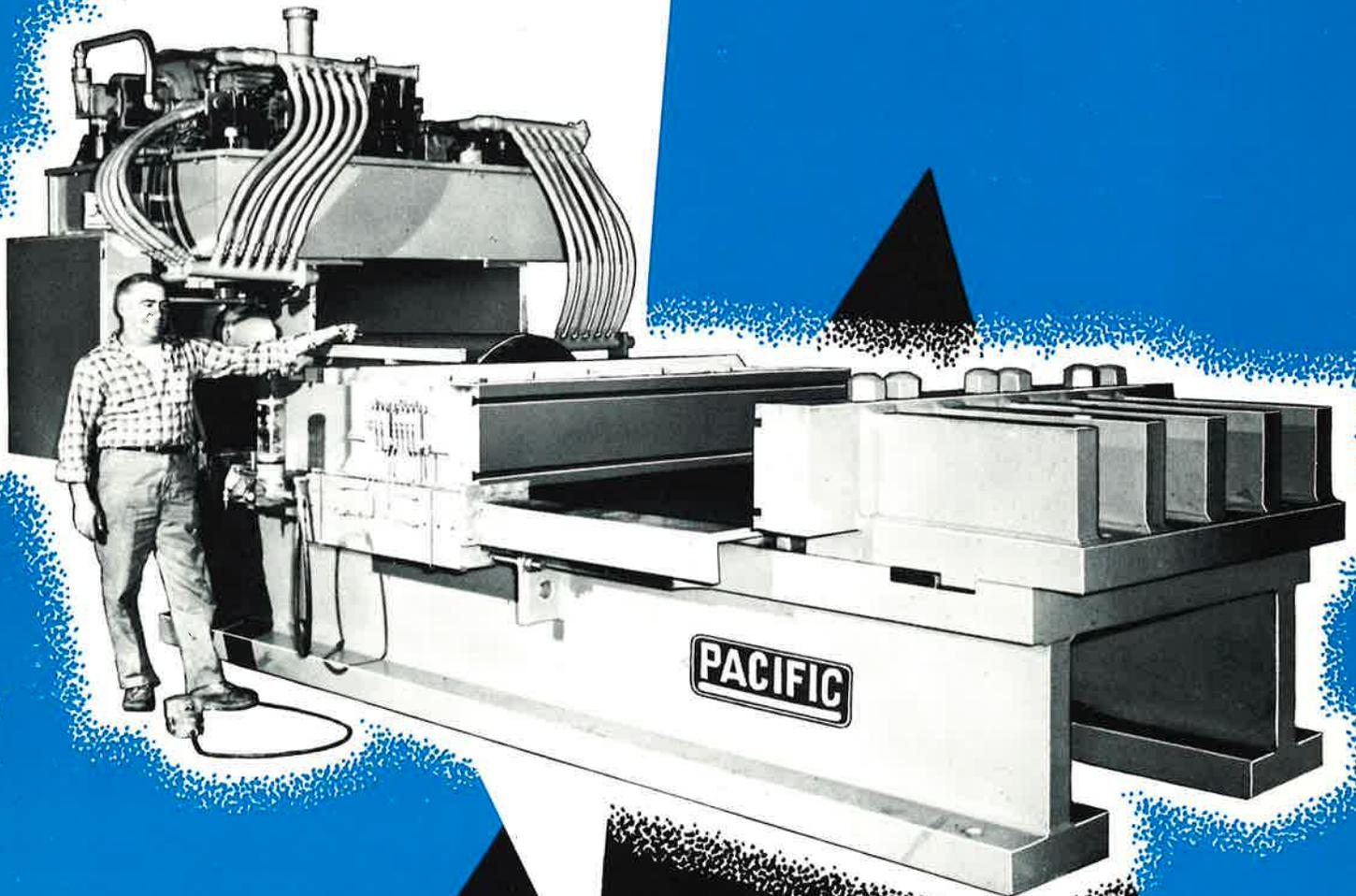


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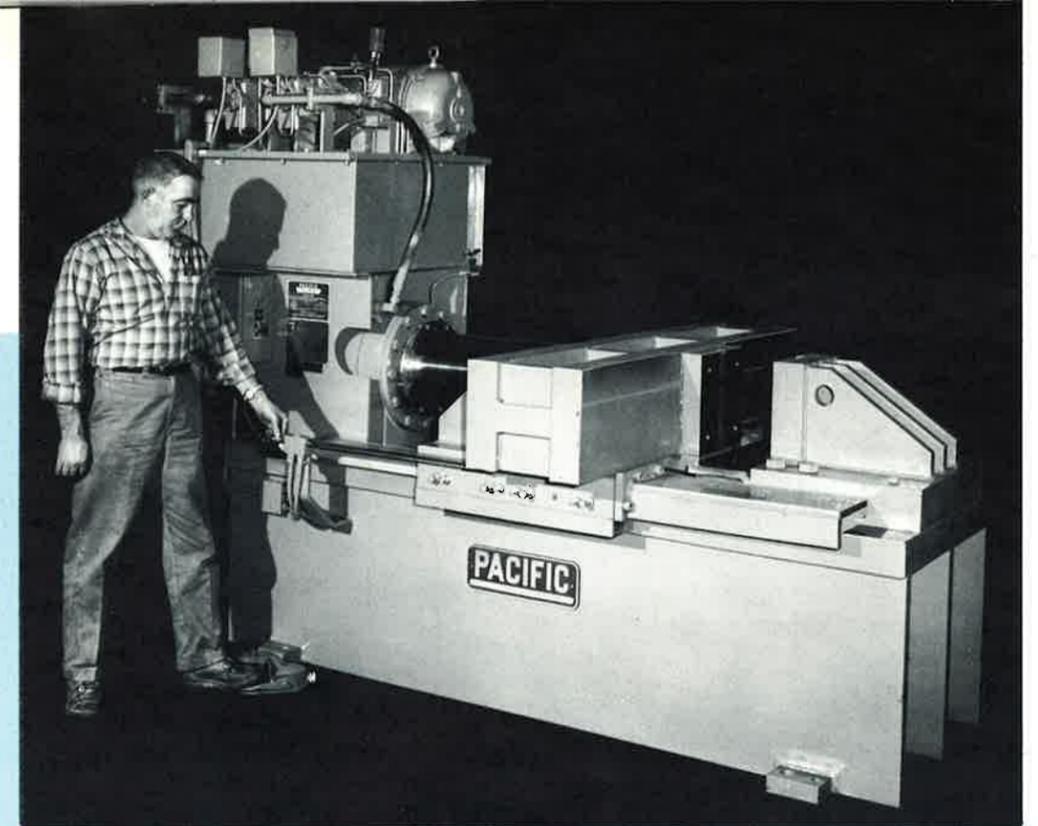
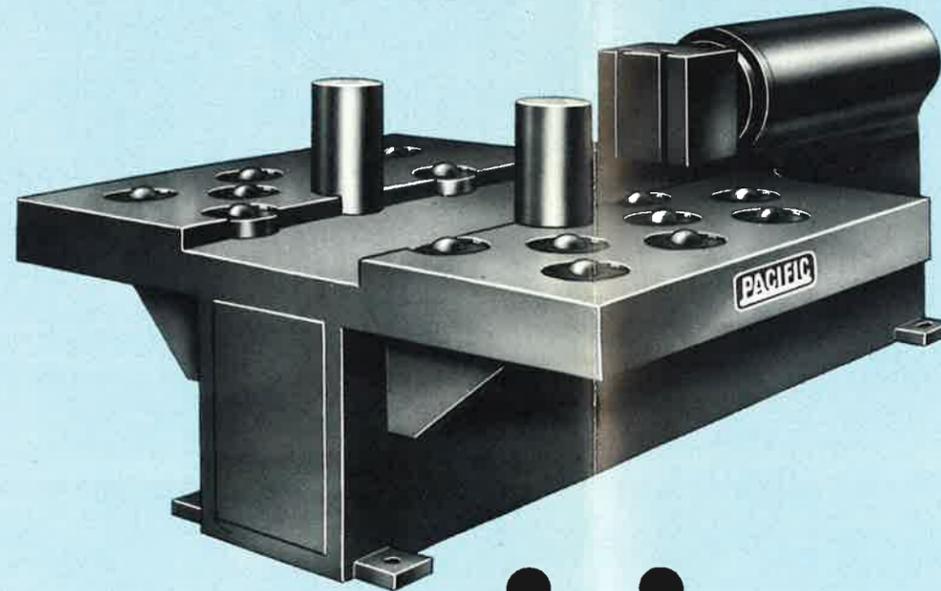
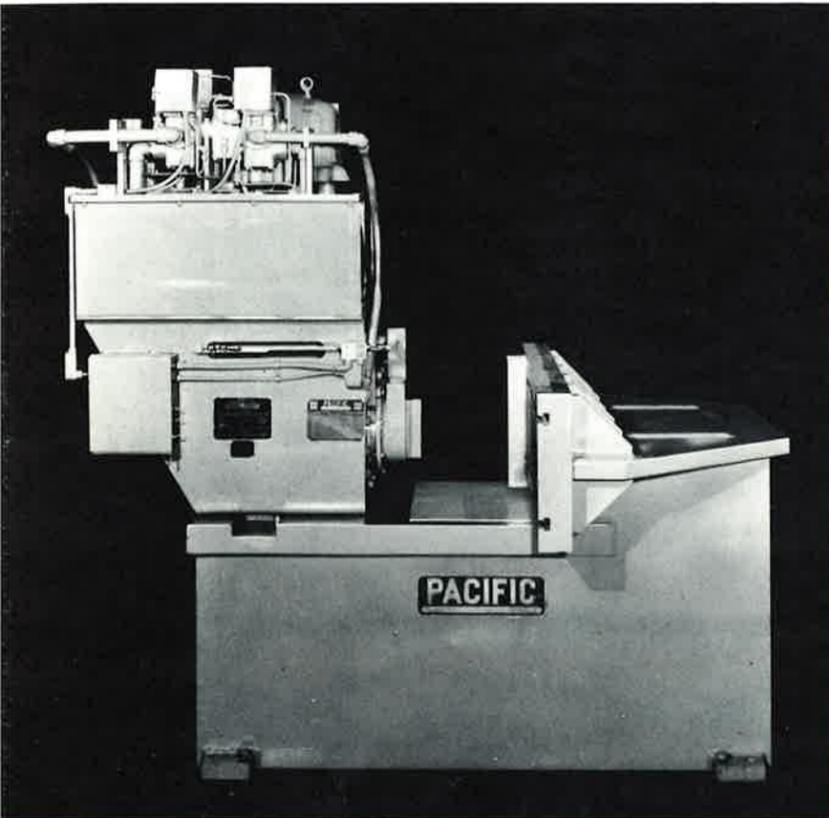
HYDRAULIC BULLDOZER

PACIFIC

HYDRAULIC
PRESSES
BRAKES &
SHEARS

PACIFIC INDUSTRIAL MFG. CO., OAKLAND, CALIFORNIA
PACIFIC PRESS & SHEAR CORP., MT. CARMEL, ILLINOIS

PACIFIC HYDRAULIC BULLDOZER



▶ **PACIFIC HYDRAULIC BULLDOZERS** are ideal for work that can best be handled in an **open horizontal press** rather than in a conventional vertical press.

▶ **Hot forging operations** may be more easily handled and manipulated on a flat table than on an irregular die.

▶ **Bulldozers** are preferred where long sections must be formed. It is easier for these long arms to move around on floor level where they can be supported rather than to move upward, where they might interfere with the ceiling, and where they hang unsecured.

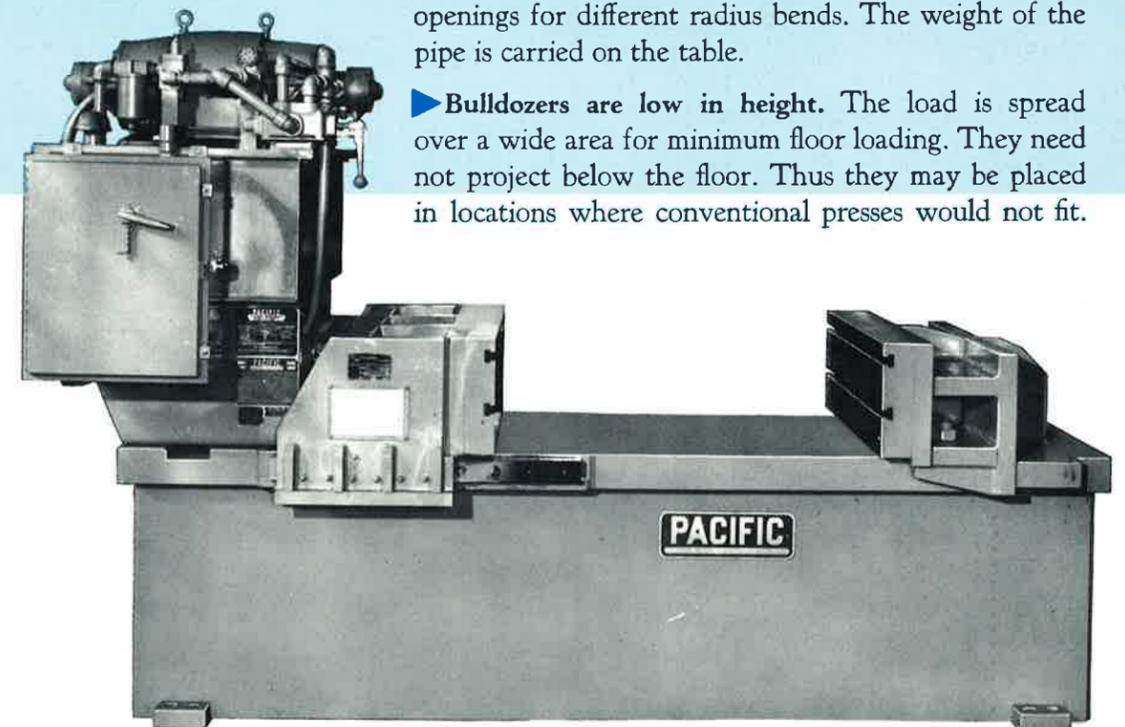
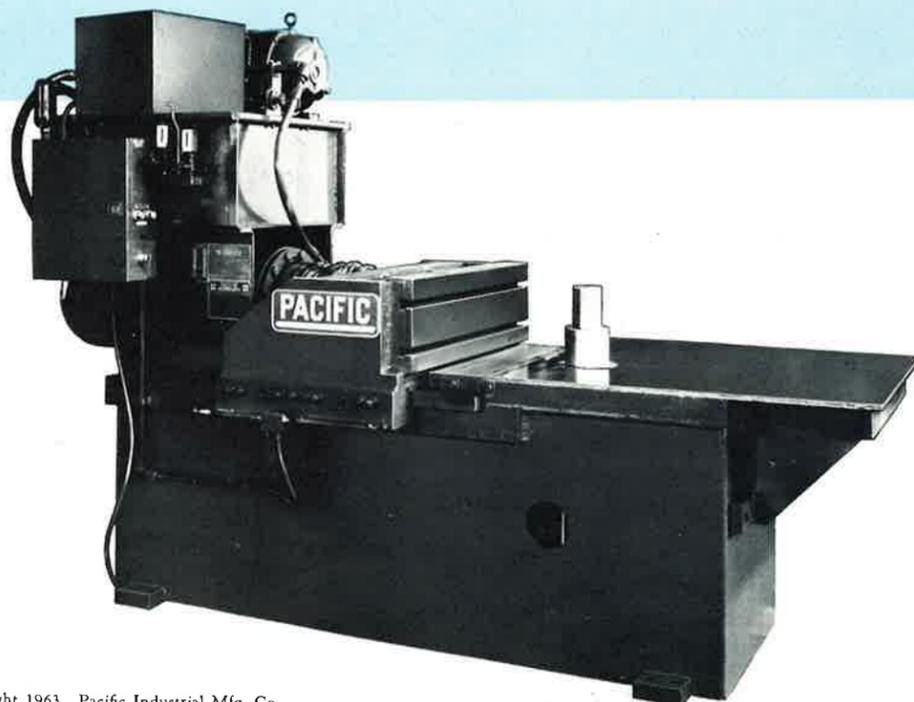
▶ **Hoops and rings** can be formed quicker and easier on a bulldozer where they can be progressively bumped around a mandrel.

▶ **Very heavy sections**, which must be handled by overhead cranes, can be more easily placed in a bulldozer than in a conventional press. For example, heavy plates can be hung from a crane into the bulldozer. There is no dragging on the plates; they do not bow due to their own weight; it is easier for the operator to see both sides of the plate to judge spring-back.

▶ Long narrow beams, rails and other similar shapes, can be more easily carried into a bulldozer for straightening or punching. These beams are supported on the table while being straightened or punched.

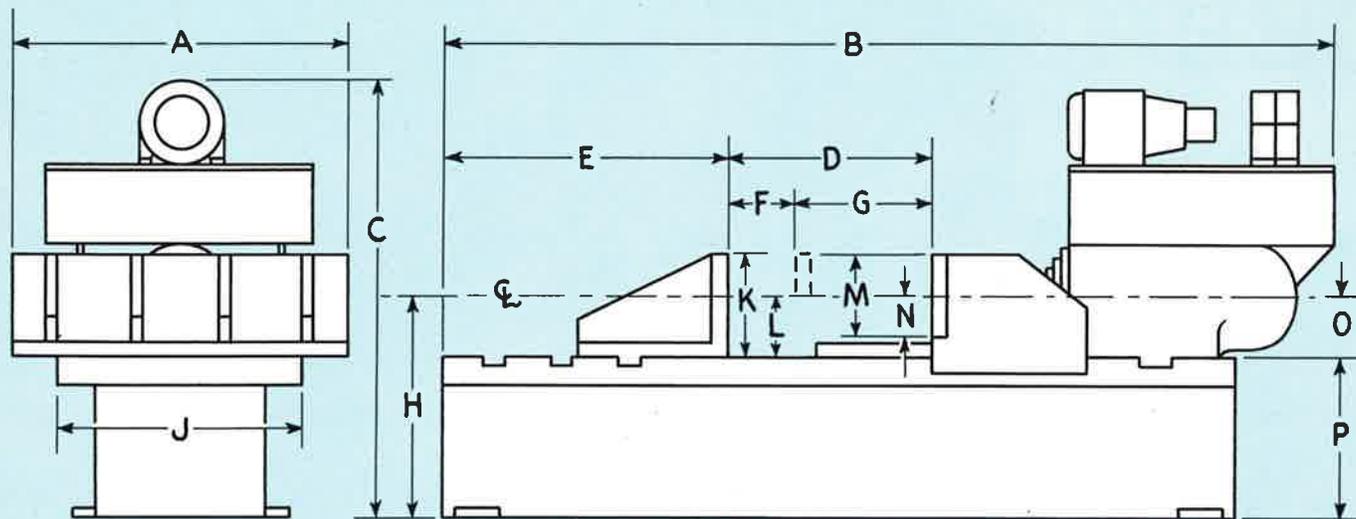
▶ Bulldozers are used as universal pipe benders with removable mandrels which can be placed in different openings for different radius bends. The weight of the pipe is carried on the table.

▶ Bulldozers are low in height. The load is spread over a wide area for minimum floor loading. They need not project below the floor. Thus they may be placed in locations where conventional presses would not fit.



FEATURES

- ▶ **Rugged extra heavy steel mill type welded steel frames** designed for minimum stress and minimum deflections.
- ▶ **Wear-resistant table** — the table of Pacific Bulldozers can be lined with a wear-resistant alloy steel surface if requested.
- ▶ **Hardened steel slides** with adjustable bronze wear strips. Extra long slides insure rigidity and proper alignment of dies even if the dies are low and the load is below the centerline of the cylinder. Slides can be protected by heavy fabricated steel guards if requested.
- ▶ **Shockless stacked valves** eliminate all shock in hydraulic system and eliminate all piping between valves. Valve changes are simplified. There are no threaded pipes and fittings.
- ▶ **Self contained hydraulic power unit.** Pumps mounted directly on electric motor. Motor, pumps, valves and oil filter mounted on top of oil reservoir. Entire hydraulic system easily removed for maintenance or cleaning. High pressure hoses interconnect between power unit and main cylinder.
- ▶ **2000 psi low pressure hydraulic system.** Vickers or Denison vane pumps insure long life with simple maintenance.
- ▶ **Cast steel cylinders.** Meehanite cylinder rods; special lifetime synthetic packing; leather wipers or boots protect surface of cylinder rods. Cylinder keyed and bolted to table.
- ▶ **Interlocked construction.** Cylinder and end-lug both keyed directly to main table so that stresses are carried by interlocked parent metal rather than by welds.
- ▶ **Long stroke** with full tonnage throughout stroke; end-lug keyed and bolted to table; multiple settings available so end-lug may be placed in any one of three settings for wide adjustment of daylight between crosshead and end-lug.
- ▶ **Pac-o-Metric controls:** The crosshead movement can be controlled and stopped within thousandths of an inch. Press controlled by electric foot pedal and by electric limit switches adjustable by micrometer head. Manual controls are also available if requested.
- ▶ **Power unit** can be mounted above cylinder or behind bulldozer out of the way if additional overhead clearance is required.
- ▶ **One shot semi-automatic lubrication system,** or fully automatic lubrication system available if requested.
- ▶ **Cushioned punching.** Sharp edges of punches cushioned against impact shock. Frame of bulldozer cushioned against shock of punch breaking through heavy plate.
- ▶ **Snug fitting tapered mandrels** available if bulldozer is to be used for forming rings or hoops. Hydraulic jacks may be supplied for easy removal of mandrel.
- ▶ **Straight-o-matic controls** for precise automatic control of stroke to correct for spring-back. Double straightening blocks available for forward and reverse bending without rotating of work.
- ▶ **Fully protected** against overload and jamming. Tonnage control available to limit tonnage if required.
- ▶ **Multiple speeds.** Rapid advance and rapid return speeds with variable pressing speeds. Two types of speed controls available: (a) cam control so that point of speed change is positively controlled by a cam; and (b) pressure control, so the speed will automatically be reduced when the load is applied. Wide range of speeds available.
- ▶ **Custom designs available.** Pacific offers a standard line of bulldozers from 50 tons to 750 tons. In addition Pacific has designed and built numerous special machines to fit special requirements. Custom bulldozers are available with quick delivery and competitive prices.



PACIFIC HYDRAULIC BULLDOZER

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N
50 BD	36"	117"	74"	24-36-48"	44-32-20"	8-20-32"	16"	37"	28"	11"	6½"	9"	4½"
75 BD	54"	125"	77"	26-38-50"	44-32-20"	8-20-32"	18"	38"	30"	13½"	7¾"	11½"	5¾"
100 BD	60"	136"	80"	36-48-60"	44-32-20"	12-24-36"	24"	38"	42"	14¾"	8⅝"	12¼"	6⅝"
150 BD	60"	149"	87"	36-48-60"	44-32-20"	12-24-36"	24"	40"	42"	17¾"	10⅞"	15¼"	7⅝"
200 BD	60"	160"	87"	36-48-60"	44-32-20"	12-24-36"	24"	40"	44"	19"	11"	16"	8"
250 BD	60"	166"	96"	36-48-60"	44-32-20"	12-24-36"	24"	42"	44"	21"	12¼"	17½"	8¾"
300 BD	72"	191"	99"	42-60-78"	60-42-24"	12-30-48"	30"	42"	48"	23½"	13½"	20"	10"
375 BD	72"	192"	107"	42-60-78"	60-42-24"	12-30-48"	30"	44"	54"	26½"	15¼"	22½"	11¼"
500 BD	72"	194"	107"	42-60-78"	60-42-24"	12-30-48"	30"	46"	60"	26"	15¼"	21½"	10¾"

All dimensions are subject to change without notice. Do not use for construction purposes.

Factory will issue certified foundation and outline drawings.

Listed dimensions are for standard model bulldozers. All specifications can be changed to meet specific customers requirements. Consult factory.