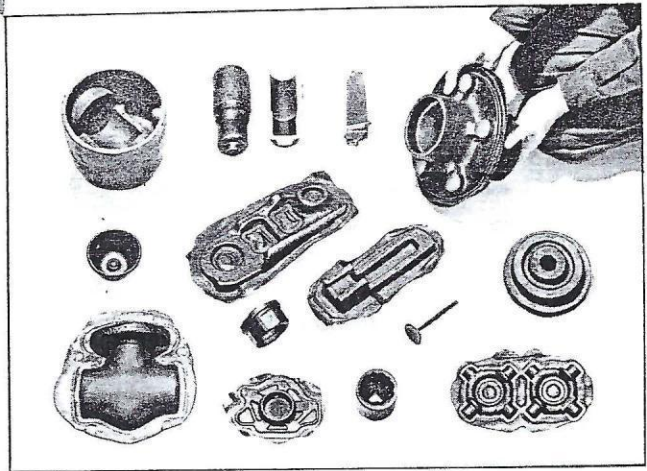
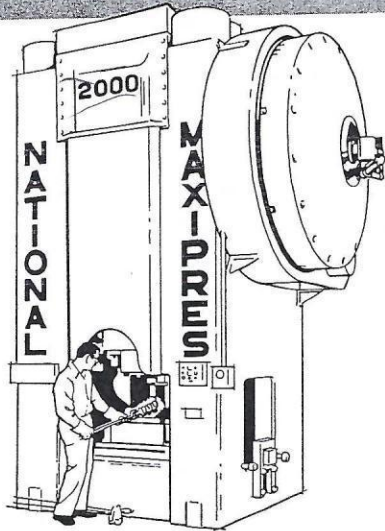


NATIONAL

MAXIPRES

Registered Trademark



The National Maxipres is widely recognized as the leading method for producing close-tolerance forgings at the fast tempo modern forge shops demand. They do not require a craftsman's skill to operate—only one blow for each die impression. Mechanical ejection allows forging designers to reduce or completely eliminate draft, thus cutting material cost and machining time. Maxipres dies squeeze rather than bang together, so that longer lasting die-steel can be used. Die life is further increased by the shortness of contact time and by immediate ejection of the forging. Maxipresses run quietly and without vibration.

Bedframe

The bedframe is heat-treated, high-tensile, alloy steel for maximum rigidity and minimum floor space. Extra ruggedness is achieved by four massive forged steel tie rods (prestressed by shrinking) which hold the bedframe in compression. Such rigidity insures the best possible tool and die match.

Eccentric Shaft

The eccentric is made from quality chrome-nickel-molybdenum forgings. This shaft possesses the highest possible yield point and hardness consistent with good impact qualities. Extra large journal and eccentric sizes assure maximum strength. Main bearings are solid sleeve bearings mounted in a keyed-in liner bush. The wristpin is free-floating in the pitman and heading slide, eliminating the possibility of seizure.

Clutch and Brake

Maxipresses up to 1300 tons capacity have a single-plate diaphragm clutch. This clutch has served for years with an enviable performance record. Maxipresses larger than 1300 tons have a heavy-duty multi-plate air clutch with short, round, free-floating drive pins. This means increased torque capacity. A quadruple valve exhausts the clutch, increasing brake life and accuracy in stopping the ram.

The water-cooled, diaphragm-type disc brake requires only simple, infrequent adjustment. Generous friction surfaces give long life. Band brake also available.

Tonnage Indicator

A unique feature of the Maxipres is the tonnage indicator. It shows at a glance the actual tonnage required to make a forging, permits the reliable choice of the proper size press for a given job, immediately detects overload, permits use of kissing surfaces on press dies, and reduces setup time.

Delayed-Drop Knockout (optional)

After knockout, the lowering of the knockout pins is delayed to hold the forging up, allowing the operator to quickly move the forging to the next die. The hold-up time is adjustable and the knockout pins recede automatically in time to permit positioning of the next blank.

Automatic Maxipres (Optional)

The Maxipres can be equipped with a completely automatic transfer system. The Automatic Maxipres mass-produces parts like valves, wrench sockets, large nuts and gear blanks—by hot, warm or cold forging—depending on the job requirements. The automatic transfer system quickly adapts to frequent job changes as well as long production runs and features ease of changing to automatic or hand feeding.

Extrusion Maxipres

National Extrusion Maxipresses offer all the production-proved advantages of the standard Maxipres plus longer stroke and air-operated knockout for producing long-stemmed extrusions.

May we help you investigate how manual or Automatic Maxipresses can increase your production of high quality forgings while reducing cost?

National Machinery

NATIONAL MACHINERY CO., TIFFIN, OHIO U.S.A. 44883

NATIONAL MACHINERY G.m.b.H., 8500 NUERNBERG, GERMANY
DESIGNERS AND BUILDERS OF HOT AND COLD FORGING MACHINERY