



**Custom Machinery
Specially Designed
Machines for Almost Every
Application**

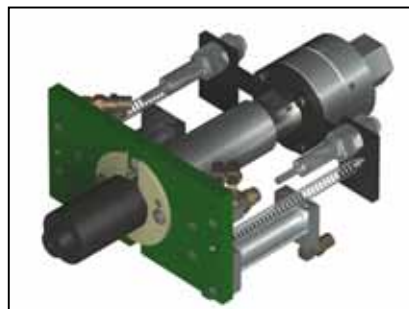
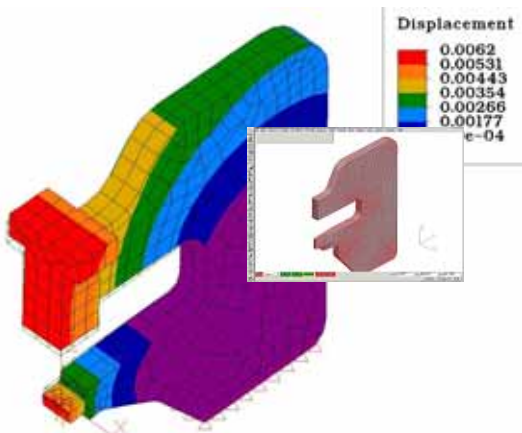
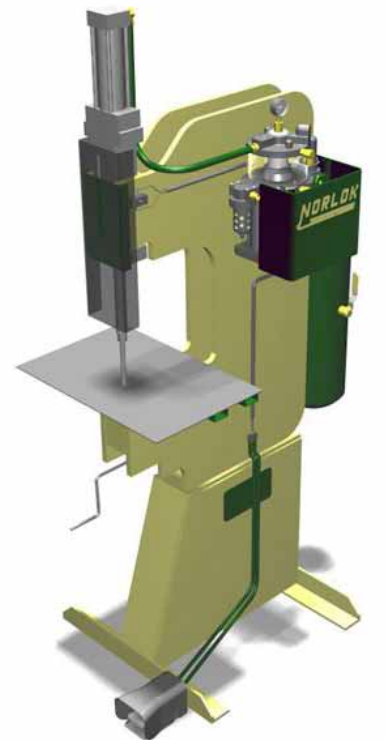


Norlok prides itself on its ability to assess special applications, from the largest multi-purpose machines to the simplest designs, and to provide cost-effective, practical solutions according to the customer's specifications.

Our Engineering Department is on the leading edge of technology and innovation, and is committed to designing the most suitable machine for every application.

Once overall dimensions are determined, the 3D CAD models can be loaded into our finite element analysis software, where simulated loads are applied. This ensures that the machine is designed to the highest possible standards.

Once this requirement is met, the model can be placed back into our CAD software, and the design finalized, before finally generating machining drawings for our modern production facility.



SPECIFICATIONS – Custom 4-Hit Machine For the Heating Industry

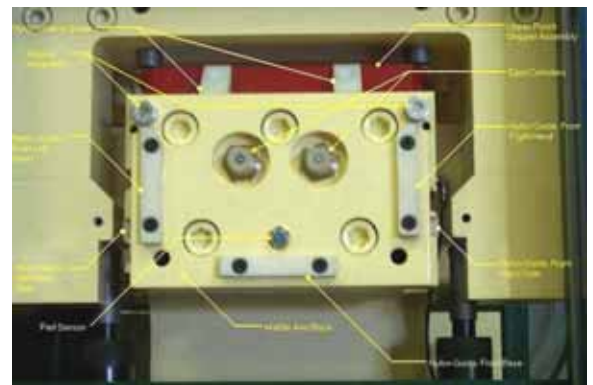
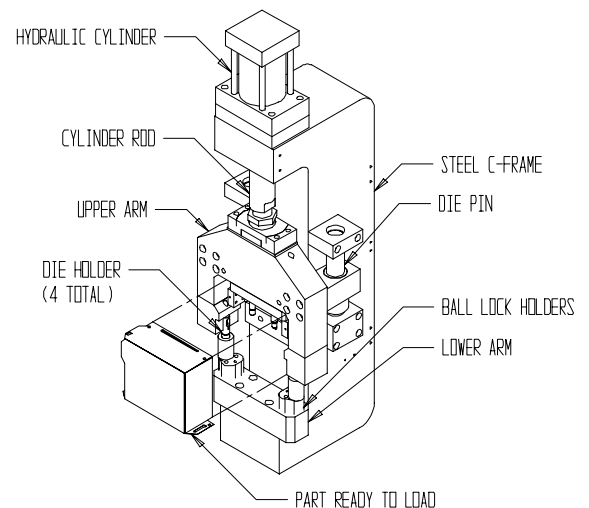
Press Design:	Single steel "C" frame.
Features:	10 hp hydraulic unit. 4-1/2" Dia. Hydraulic Cylinder Full safety guarding, light curtain. 4-punch, single stroke design Two hand anti-tie down operation
Stroke:	3"
Throat:	2"
Work Height:	45"
Upper Tooling:	Inverted dies. Replaceable die inserts.
Lower Tooling:	Inverted punch stripper assemblies. Replaceable punches.
Capacity:	MAX: Two ply 0.062 mild steel. MIN: Two ply 0.012 mild steel.

When the customer approached us with a special application, we first analyzed the part to find optimal punch locations and part orientation. This is done in some of the most advanced CAD software and element analysis programs on the market (top, right).

After the part is analyzed, the best combination of tooling, power units, and safety features are chosen and design work begins. (middle, right).

Fabrication of the machine begins, and since machining and assembly are done here at Norlok, specifications and quality are monitored closely to ensure a machine built to the highest standards.

Once the machine is built, safety features and any necessary programming functions (lower left, center) are completed and thoroughly tested before being approved and shipped to the customer. A comprehensive manual with technical illustrations is included to ensure proper operation and maintenance of the machine (right).

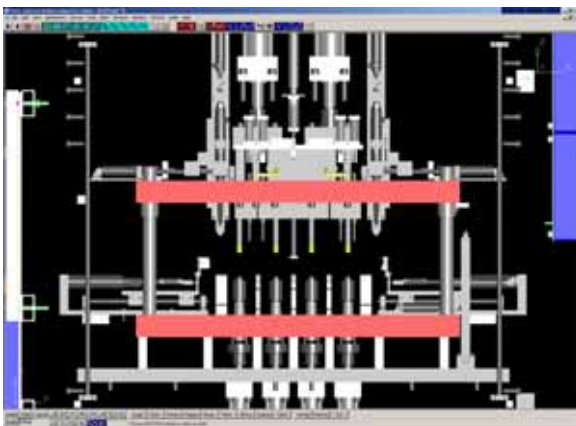
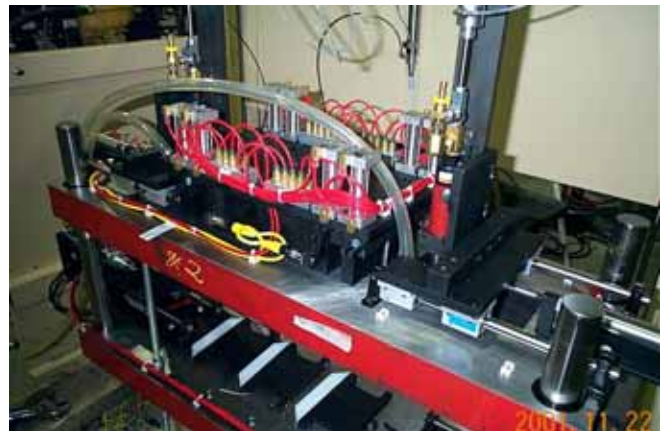
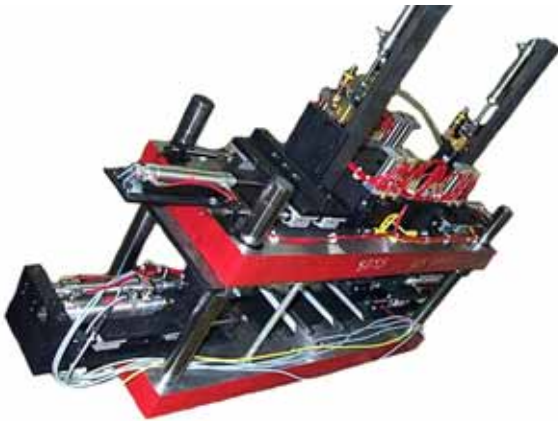


SPECIFICATIONS – Custom Automatic Machine For fastening garage door panels

Press Design:	Gantry type, multi-clinch, auto screw
Features:	4 clinch, double automatic screw system Part position sensing Full safety guarding Variable part width capability
Upper Tooling:	Reverse, replaceable die insert
Lower Tooling:	Inverted punch stripper assembly
Capacity:	MAX: Two ply 0.062 mild steel. MIN: Two ply 0.012 mild steel.

This machine is representative of just some of the capabilities of the Norlok design, manufacturing and programming teams.

These machines were designed with expandability and ease of operation & maintenance in mind. The part positioning systems, variable stroke die set, automatic screw feeding, and the part sensing were all designed with long life, high machine up time and ease of use in mind.





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