



## **AMITY INC. gets extreme parts accuracy on short run stamping with Minster Die-Namic Process.**

The growing demand for critically accurate, very thin stamped parts has resulted in a rapid expansion of plant capacity, both short run and high speed production machines and talent at Amity Inc., Santa Fe Springs, California. Amity die designers and production people have met severe challenges posed by requirements for parts made of thin aluminum, beryllium, copper, titanium and stainless steel. Exacting tolerances under  $\pm .002''$  are the order of the day in producing parts for the aerospace and electronics industries which make up a large part of Amity's volume.

Minster Die-Namic presses, with their quick die change feature, have been very helpful to Amity in making short runs of these parts; many are repeat orders for quantities from 100 to 1000 pieces. The ability to quickly change dies allows a number of short runs to be completed in a normal working day. An important

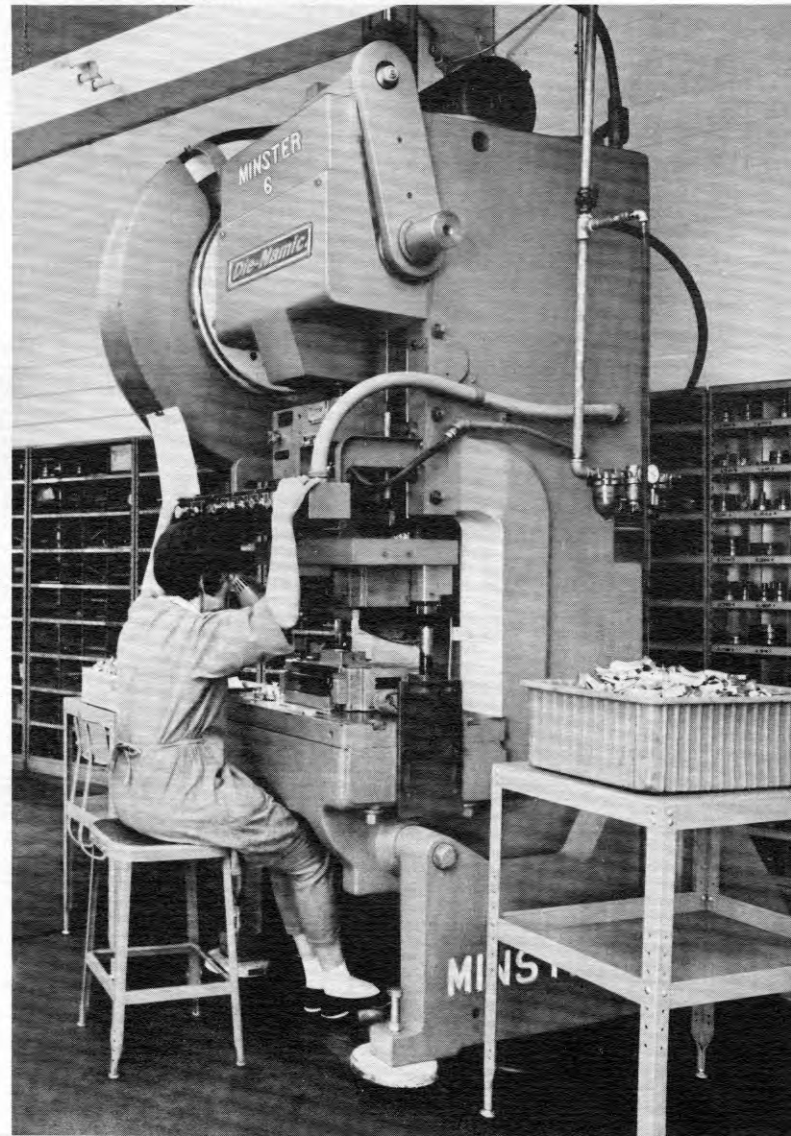
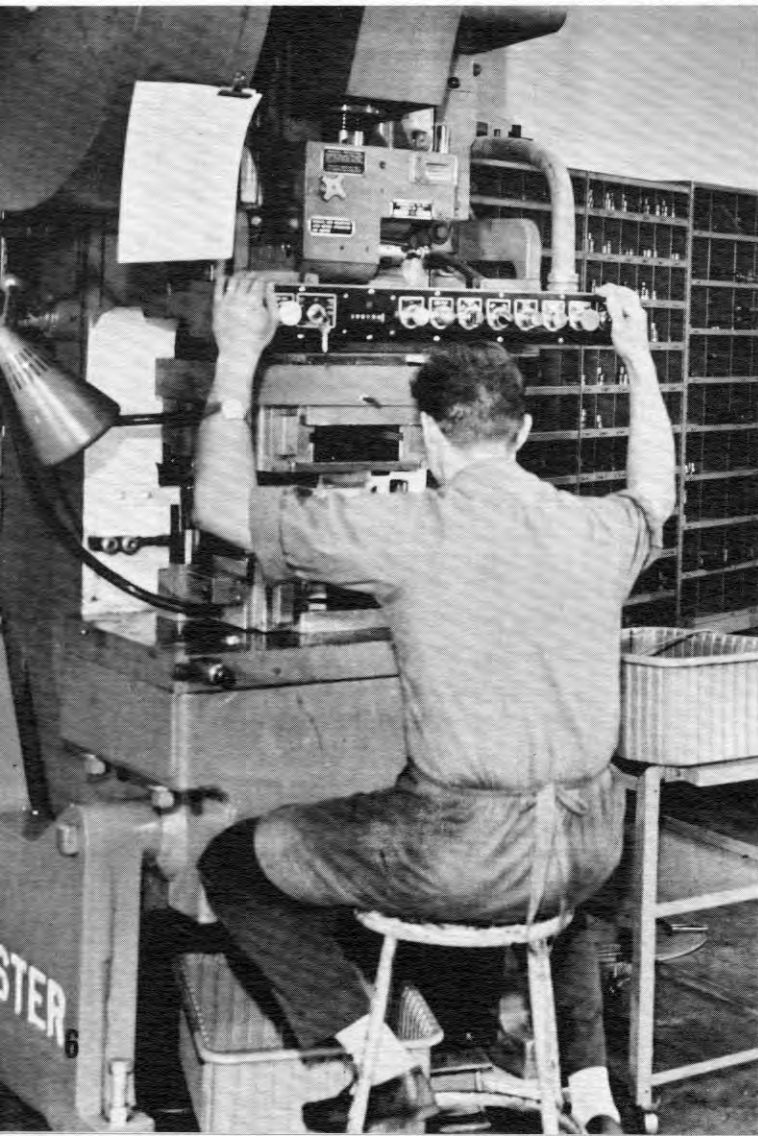
factor is that the Die-Namic presses also provide the accuracy requirements which are so stringent.

The Die-Namic presses have become so important to their operation that Amity has over 450 Die-Namic dies. They build all their own tooling. Mr. Herb Wolf, a true believer in the value of Die-Namic says, "We realize a 40% savings on Die-Namic die costs as compared to conventional dies." They use EDM in making a lot of their Die-Namic dies.

At Amity the delicate parts, run on the Die-Namic presses, preclude use of air blow-offs which could cause part damage. Thus, both Model 6-D presses are set vertical at all times. Part removal is handled according to the type of material being run.

Amity Inc., also uses Minster P2 Piece-Maker presses for their highly accurate parts which involve long runs of high volume.

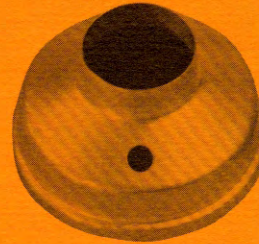
*Two 6-D Die-Namic presses at Amity Inc. Note convenient die storage racks behind presses.*



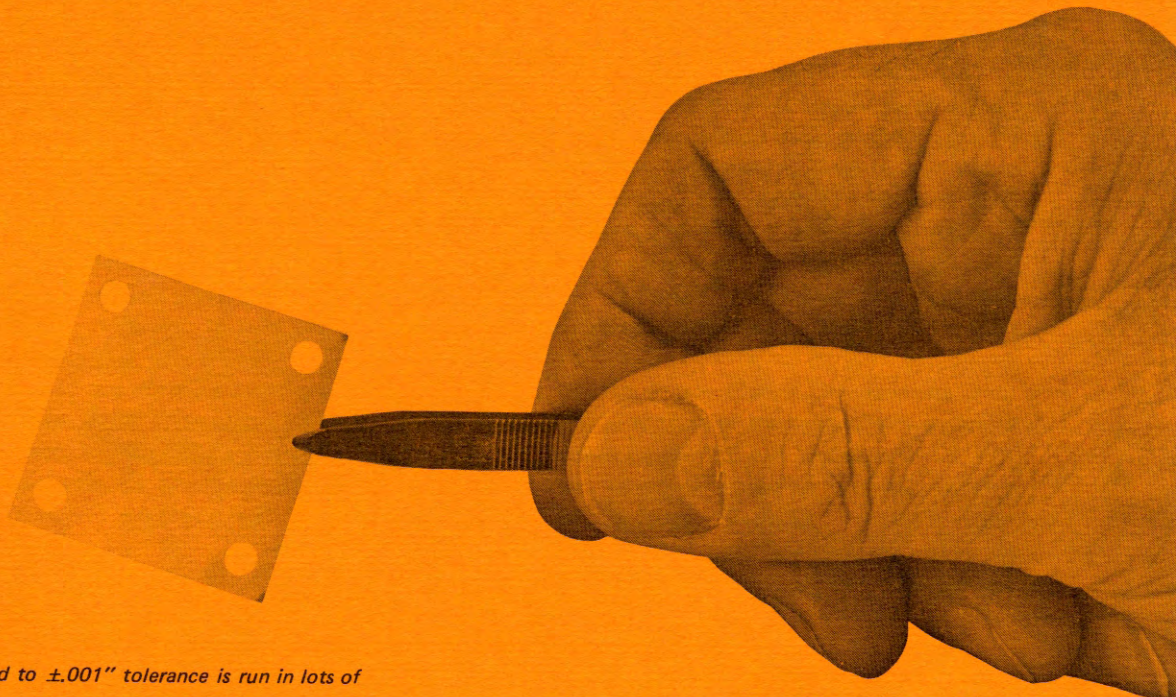


*Pin and seal housing from .025" Aluminum in 4 operations with  $\pm 0.002$  tolerance. Usually run in 5000 quantity on Die-Namic press.*

*A 7 operation part of .015 Brass . . . .002" tolerance in 500, 1000, and 2000 runs for repeat orders.*



*100 to 1000 of this part are run for repeat orders. .010" aluminum to  $\pm 0.002$ " tolerance.*



*.002" Aluminum part held to  $\pm 0.001$ " tolerance is run in lots of 100 to 5000.*