

Wiegel Tool Works Quality Exceeds Industry Standards

A commitment to investing in technical excellence has helped Wiegel Tool Works meet and surpass customer expectations for more than 65 years.

Founded in 1941, WTW offers a full range of manufacturing capabilities at its modern 50,000 square foot facility 15 miles north of Chicago. Beginning with design and prototyping capabilities, WTW's turnkey solutions include piece parts and fully integrated progressive dies specializing in terminals, sockets and other electronic parts utilizing a variety of specialized metals.

The latest technological investment at WTW is a Minster E2H-450 press equipped with the Infinitely Adjustable Stroke feature. And because supplying quality products to its



Minster E2H-450 press with Infinitely Adjustable Stroke at Wiegel Tool Works.

customers is so important to WTW, investing in quality machine tools is imperative.

"When we are purchasing a press, the first thing we take into consideration is reliability," said Martin Wiegel, President of Wiegel Tool Works. "When we began stamping operations in the mid 1990s, we met with some owners of older Minster presses and they basically told us the same thing, 'you have to pay your dues up front.'"

"It's a 'pay me now or pay me later' mentality," Martin continued. "You purchase a quality machine to start with or you get



Wiegel Tool Works facility located in Wood Dale, IL, just about 15 minutes north of downtown Chicago.

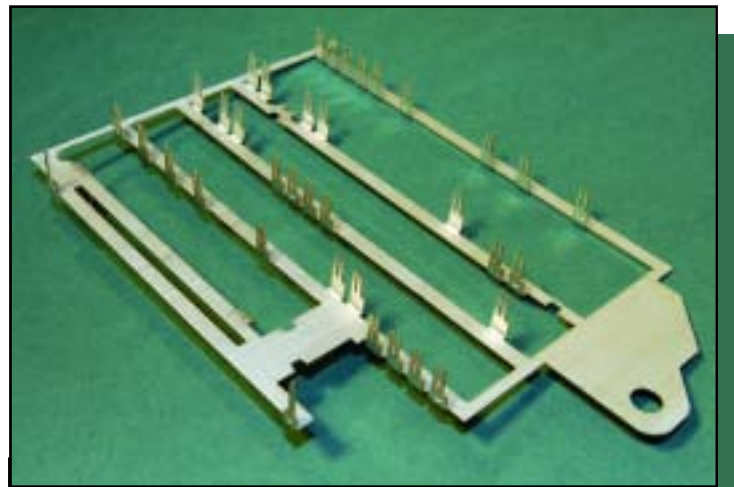
nicked and dined to death.”

WTW’s first Minster press was a P2-100 purchased at an auction.

“That press changed my whole way of thinking about a press.” Martin said. “We had a die running in a 60-ton OBI, and put it into a Minster straightside P2-100, and strokes between sharpening went from 150,000 to 1,500,000.”

The infinitely adjustable stroke feature on the E2H-450 provides another level of versatility for WTW. The patented stroke adjustment feature allows an infinite range of adjustments between a short and long stroke at the touch of a button.

Choosing the optimum stroke length for a particular die and application allows the user to take advantage of high production speeds, reduced punch forming velocity and lower impact forces, which result in reduced vibration levels, longer tool life and more consistent parts.



This fuse relay part is stamped from high tensile material and requires very tight tolerances. With the E2H-450, Wiegel Tool Works has been able to increase production speeds and improve part quality and die life.

“Having the adjustable stroke is a very powerful tool for us,” said Amarjit Sandhu, press operator at WTW. “We can adjust the stroke to fit the need of the tool and increase the production speed. Adjusting the stroke is done right from the control screen, making tool change-over very easy and efficient.”

“We have to be adaptable because we are a job shop,” Martin Wiegel added. “The adjustable

stroke feature gives us the opportunity to utilize the press for a variety of different applications."

And many of the stamping applications at WTW require sophisticated tooling and manufacturing techniques, which also make the Minster E2H-450 a good investment.

"We have a large fuse relay part that we are stamping out of extra hard material," WTW Vice President Aaron Wiegel said. "That part is the reason we needed the E2H-450. There are multiple small tuning forks on the part which serve as the contact points for the fuses, and these have very critical tolerances."

"The rigidity and repeatability of the press is extremely important in the production of these high quality parts," Aaron added.

"With the E2H we have been able to increase production speeds and we're seeing much longer runs between tool maintenance. We have not had the press very long, but I'm already seeing the benefits."

WTW Production Manager Al Nemec said another asset of Minster presses is dependable service backing up the product.

"It's never an issue," he said. "We need service people and they are



Wiegel builds complicated tooling in its state-of-the-art tool room.



E2H-450 integrated coil line, includes a Machine Concepts straightener.

here right away. We need parts and we get them. We need help on the phone and we get it."

The employees of Wiegel Tool Works are proud of the high quality tooling, stampings, assemblies and services they are able to provide to their customers.

"Quality and on-time delivery are things we take pride in," Aaron Wiegel said. "We provide our customers with a top notch product to begin with. We want them to know that they won't have to pay on the back end to make things right."