



THETA TTS
PRECISION METAL FORMING

TRANSFER STAMPING

Theta TTS has provided transfer stamping as a cost-effective alternative to casting and forging for the past three decades. Transfer stamping is ideal for deep drawn parts and high volume production, using material economically and eliminating secondary processes. Our tooling expertise has allowed Theta TTS to produce parts with highly complex geometries and exceptionally tight tolerances.

Our design expertise, in tandem with over five decades of precision tooling experience, allows us to build accurate prototypes for testing before production begins. Careful prototyping allows us to evaluate a part's mechanical properties, verify its design for production and ensure that it works perfectly in an assembly.

MODERNIZE YOUR MANUFACTURING

Reduce part numbers and streamline your supplier chain with Theta TTS. Revolutionize your manufacturing and invest in advanced transfer tooling and process design to reduce your materials and manufacturing costs.

PROCESS ENGINEERING AT ITS BEST

This engine vibration mount component used to be produced as a welded assembly. Starting out as a round blank, the part moves through 14 transfer stations, transforming it into this complex geometry. This innovation led to big savings for the customer and allowed them to amortize the tooling cost in a short time.



A PASSION FOR PRECISION

- Press size 400-600 tonnes
- Material thickness up to 5 mm
- Higher flexibility within the tool
- Lower material usage when compared to progressive stamping
- Complex part geometries
- Tight tolerance
- Elimination of secondary processes
- Option of shared tooling for part families



MANUFACTURING SKILLS THAT DELIVER

A transfer stamping press automatically transports each separate piece through a series of stations. The metal blank is drawn and reshaped until it emerges as a finished part. The filler head (second from left) is deep drawn from stainless steel in a transfer process, eliminating a steel tube that required several layers of coating to prevent corrosion. Although stainless steel is generally not well suited for deep drawing, the process we developed made it possible.



ABS motor housing



Filler head for fuel line



Spring shell
for torque filter assembly



Base plate for parking
brake assembly

INNOVATIVE DESIGN SOLUTIONS

We engineer complex transfer stampings by breaking down the process into single steps. Many of our customers come to us with a concept, but need design and development support to turn it into a manufacturable part. We are able to

achieve this because we design and build our own dies, test them, refine them and perfect them. This results in production savings that in some cases have offset the initial tooling costs within the first 12 months.



MEET THETA TTS

Since 1962, we have been committed to our customers' and employees' success. This, combined with our continuous drive for innovation, has allowed us to grow steadily with new capabilities and new customers. Today Theta TTS has

a 9,500 square metre manufacturing plant. Most of the more than 100 million parts we produce annually are destined for the auto industry located in the U.S., Europe, China, Mexico, Brazil and Canada.

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