Manufacturing Technologies Focused on Customer Needs

This 200-ton unit is one of many punch presses spread among KMC's multiple manufacturing facilities.

As a leader in the metal-forming industry for nearly 100 years, KMC has consistently invested in its manufacturing operations to provide increased quality, flexibility and responsiveness while controlling costs and eliminating the need for customers to find and qualify multiple suppliers. Today, our manufacturing scope includes a wide range of press sizes and configurations, complemented by slide forming machines and laser technology.

PUNCH PRESSES

At KMC, we've honed press stamping to a fine art, applying automation such as electronic feed, hydraulic clamping and in-die sensing systems to this most basic of manufacturing processes. The result is continually improved quality and efficiency, with ongoing cost control.

Here is a partial list of our punch press capabilities and major equipment:

- Short and long runs
- Infinite feed length
- Width to 24 in. (609.6 mm)
- Thickness to .280 in. (7.112 mm)

60 ton Bruderer high-speed press
110 to 300 ton Komatsu presses
60 to 200 ton Minster presses
200 ton Amada press

FOURSLIDE/MULTI-SLIDE/VERTICAL FORMING

Where applicable, KMC's slide forming technologies can offer lower tooling costs, faster run speeds and reduced scrap compared with punch press stamping. Slide forming may also make design changes easier.

- Ribbon parts produced from stock or custom tooling
- Feed length to 15 in. (381 mm)
- Width to 3.75 in. (95.25 mm)
- Thickness to .120 in. (3.05 mm)
- Welding, tapping, chamfering, stitching in primary operations can eliminate secondary processes
- Part acts as own carrying strip in horizontal processes, reducing scrap

Fourslide: Nilson S3, S2F, S3F, S4F
Multi-Slide: Baird 00, 28, 33, 35, 3-24
Vertical Forming: Nilson 1100, Finzer 360

KMC®
Metal Stamping • Laser Cutting • Fabricating

Prototype Through Production

MANUFACTURING

Where applicable, slide forming can be a cost-saving alternative to punch press stamping.

KMC's laser forming technology is an ideal choice for many shorter run jobs.

LASER FORMING

In 1988, KMC was one of the first companies to adopt laser turret press technology, with the establishment of KMC LaserForm as a dedicated design and manufacturing operation. Today, KMC LaserForm has been fully integrated into our overall operation and includes not only state-of-the-art laser equipment, but also a range of secondary operations.

With nearly two decades of laser experience, KMC engineers have refined the process for maximum effectiveness in meeting short-run and quick-turnaround requirements.

- Precision laser cutting combined with punching
- Stamping-like quality without expensive tooling
- Minimum production lead time
- Sheet size up to 60 in. x 120 in. (1,524 x 3,048 mm)
- Carbon steel to .75 in. (19.05 mm) thick
- Thermoplastic composites to .50 in. (12.7 mm)
- Stainless steel to .625 in. (15.9 mm)
- Aluminum to .375 in. (9.5 mm)
- Laser etching

Trumpf 3530 Laser
Trumpf Trumatic 600L Laser Press
Trumpf L2503E LaserCat fabricating systems
CNC 6-axis forming center
Numerex CMM

OUR QUALITY COMMITMENT

The KMC quality system ensures adherence to customer specifications through contract review, advanced quality planning, production part approval processes, and a comprehensive inspection and test program. An active continuous improvement philosophy drives refinement of our products and processes, and improves service to our customers.

Evidence of KMC's commitment to quality is our certification to ISO/TS 16949 and ISO 9001:2000 quality standards. While ISO/TS is specific to customers in the automotive industry, this certification signifies to all customers that KMC is committed to the highest quality in product, engineering and manufacturing processes, and customer service.

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