



*We
put your
metal into shape ...*

KEMPF

Bending & Laser Technology
CNC Metal Stamping
Welding
Finishing

KEMPF

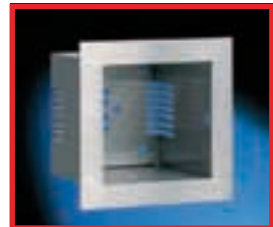
Bending & Laser Technology
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May we introduce ourselves? Kempf Sheet Metal Fabrication – a young and flexible company with a “full-service” range in sheet metal fabrication:

- Design
- Laser cutting
- Bending
- Welding
- Surface finishing Qualitätsmanagement
- Quality management/certification according to DIN EN ISO 9001:2000 as of 2008

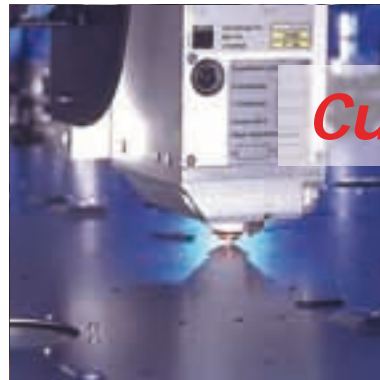
A well trained team loaded with experience and eager to serve you will fabricate your precision sheet metal parts from the sample up to regular production – according to your specifications, samples, drawings, or our own designs.

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your metal into shape ...***





Bending



Cutting



Welding

The right welding technique for any requirement:

- **Resistance welding**
- **Manual arc welding**
 - TIG (Tungsten Inert Gas)
 - MIG (Metal Inert Gas)
 - MAG (Metal Active Gas)

(Certified according to DIN 19900-7
"Kleiner Eignungsnachweis")



Design

Our experienced designers will implement your ideas – or assist you in developing new products.

Surface finishing

Of course our "full-service" range includes finishing work. Please select your preferred method:

- Glass bead blasting
- Electropolishing
- Powder coating
- Painting
- Galvanizing
- Widebelt sanding
- Barrel finishing



Laser processing

Highspeed Trumatic L3050

Working range x-axis..... 3000 mm
 y-axis.....1500 mm
 z-axis..... 115 mm

Max. workpiece weight.....900 kg

Max. speed	axially parallel.....	200	m/min
	simultaneous.....	300	m/min

Accuracy

- Smallest programmable distance..... 0.01 mm
- Position accuracy..... +/- 0.1 mm
- Position range (repeatability)..... +/- 0.03 mm

TrumpfTLF CO₂-Laser

Max. power	.....	6000	W
Wave length	.....	10.6	µm

Materials

Stainless steel up to	25	mm
Aluminium up to	15	mm
Structural steel up to	30	mm

The **Trumatic L3050** is a powerful, highly dynamic flatbed laser cutting machine that is based on the flying optic principle, where the metal plate to be processed remains stationary, while the laser beam is moved across the working area.

This means that high processing speeds can be achieved irrespective of the weight of the workpiece.



The L3050 is equipped with the TLF 6000, a latest-generation high-performance laser from Trumpf. In addition to enabling high-speed cutting of thin-gauge sheet metal, it is capable of cutting thicker materials, such as structural steel with a thickness of 30 mm.

- Quick cutting with nitrogen makes pinpoint use of the metal vapour plasma to increase processing speed.
- Monitoring of process reliability when cutting thick-gauge stainless steel.
- Oxide-free and burr-free cutting edges with stainless steel and aluminium alloys through high-pressure cutting.
- Edge processing: loopings, radiusing, or cooling in corners, depending on the material and requirement

Laser processing for tubes/pipes and profiles

Laser processing enables the fabrication of complex contours and cut-outs in tubes and pipes. Tubes and pipes can either be light-weight with thin walls or heavy-weight with thick walls. Cross-sections may be round, rectangular or oval.

Our special laser cutting machine for cost-efficient tube and profile processing guarantees precise, burr-free cutting. We have the capability to perform all conventional processes such as marking, centre punching, drilling and deburring in a single process step, using laser equipment, at much higher levels of accuracy and precision than conventional techniques.



Technical data:

Max. raw material length.....	6000 mm
Max. tube/pipe diameter.....	370 mm
Max. wall thickness.....	10 mm
Max. tube/pipe weight	200 kg
Max. fabrication length	3000 mm

Additional processing capabilities:

- Tube fittings/inserts
- Tubular constructions
- Cowls
- Spigot joints
- Elbow joints
- Joining/connecting of various tubing profiles
and much more ...



**Laser cutting
Punching
Forming**

One for all:

Trumatic 6000L

Working range

Combined punching/ laser mode	.....2585 x 1280	mm
Punching operation	.....2585 x 1370	mm
Laser operation	.....2585 x 1280	mm

Performance

Laser power	.....3200	W
Max. sheet thickness	.....8	mm
Max. punching force	.....220	kN
Max. workpiece weight	.....200	kg

Speeds

X-axis	.....90	m/min
Y-axis	.....60	m/min
Simultaneous (X and Y)	.....108	m/min
C-axis (punching)	.....60	U/min
C-axis (tapping)	.....330	U/min

Accuracy

Position accuracy	..... +/- 0.10	mm
Repeatability	..... +/- 0.03	mm

TRUMPF CNC control

based on Siemens Sinumerik 840D

TRUMPF Laser TLF 2000

Max. power	.....3200	W
Wave length	.....10.6	µm



The **Trumatic 6000 Laserpress** combines cutting and laser technology in a single machine. It uses the most advanced laser technology available and has a punching head that achieves a stroke rate of 900 strokes per minute during punching and 2800 strokes per minute during marking.

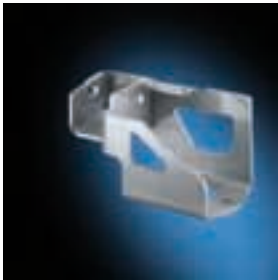
In addition, it has other capabilities such as contouring with tapping, creation of rim holes, or performing small bends.

Complete machining of a workpiece in one set-up:

- Punching of standard contours
- Laser cutting of filigree inner and outer contours (e.g. round or rectangular holes) in a single stroke
- Diverse tapping and forming (e.g. beading, penetrations)
- Indelible identification using the embossing and marking tools



Hydraulic CNC press brakes bend or emboss true-to-size components – economically and flexibly:



- Minimised set-up times due to freely programmable X- and R-axis and quick-change tool system.
- Downstroking concept with two cylinders Y1/Y2
- Electrohydraulic ram drive using proportional valve technology
- Multiple axis CNC back gauge in X and R
- Self-centering upper tool holder
- Hardened lower tool holder
- Generous bend space, longer stroke and large effective tool height enable a wide product range
- Minimal handling and down times, even with Z bending jobs, as there is no need for turning over the workpiece
- High repeat accuracy due to CNC crowning
- Laser-hardened bending tools

Bending with the TrumaBend Series

TrumaBend V230

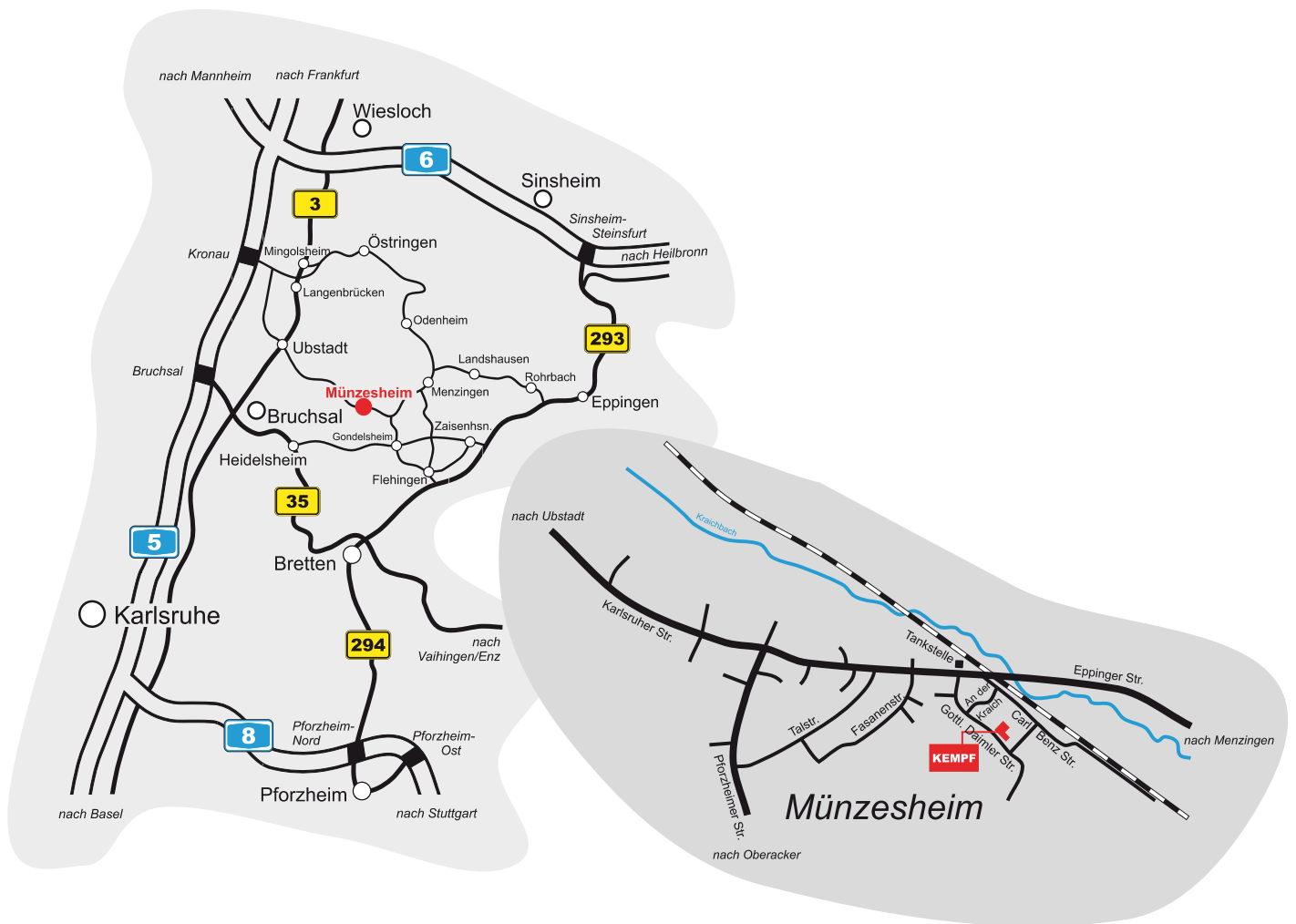
Press force	2300 kN
Inclination of press bea	10 mm
Bending length	3060 mm
Distance between side frames	2690 mm
Throat	410 mm
Travel in X-axis	600 mm
Travel in R-axis	250 mm

TrumaBend V130

Press force	1300 kN
Inclination of press bea	10 mm
Bending length	3060 mm
Distance between side frames	2690 mm
Throat	410 mm
Travel in X-axis	600 mm
Travel in R-axis	250 mm

TrumaBend V500

Press force	500 kN
Inclination of press bea	10 mm
Bending length	1275 mm
Distance between side frames	1040 mm
Throat	420 mm
Travel in R-axis	600 mm
Verfahrweg R-Achse	250 mm



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