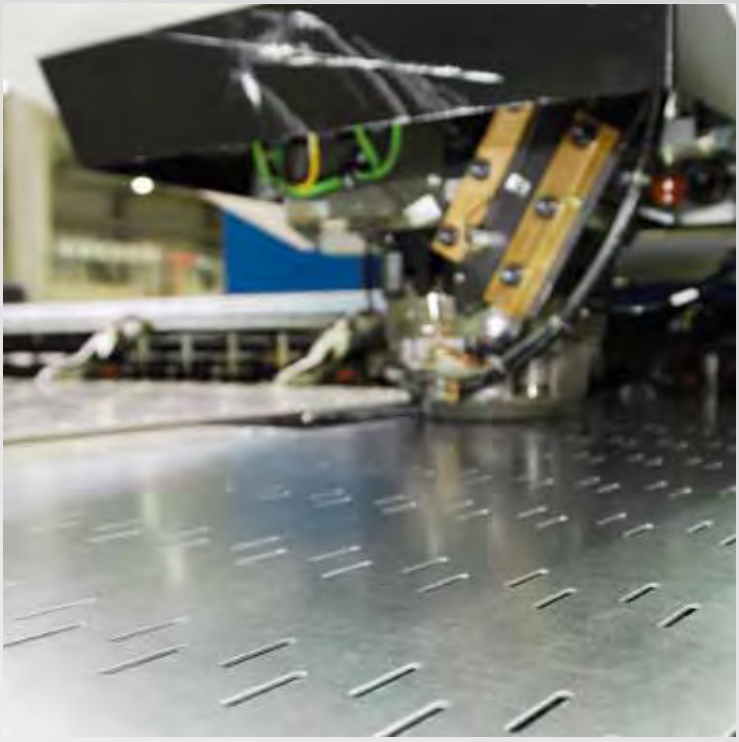
MVH GmbH

Innovation in
sheet metal forming
and drainage technology



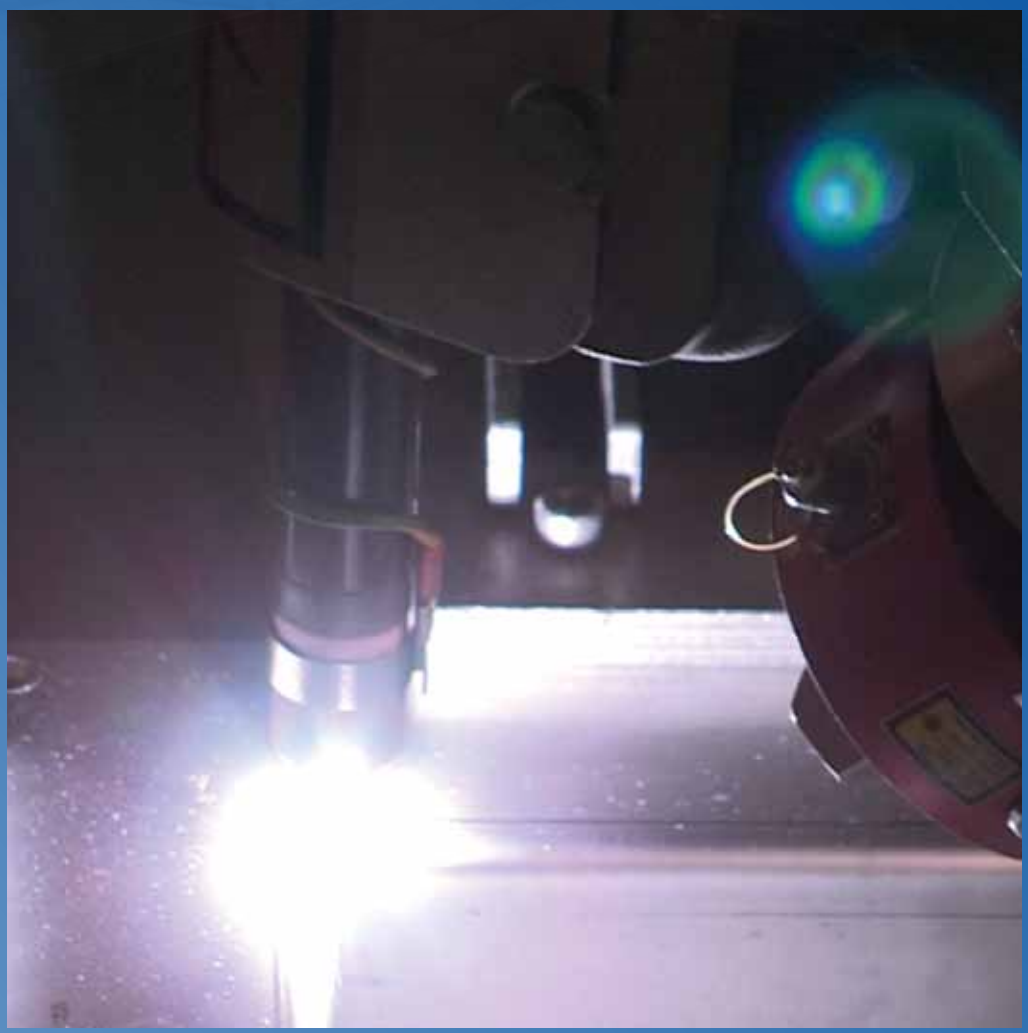
MVH GmbH

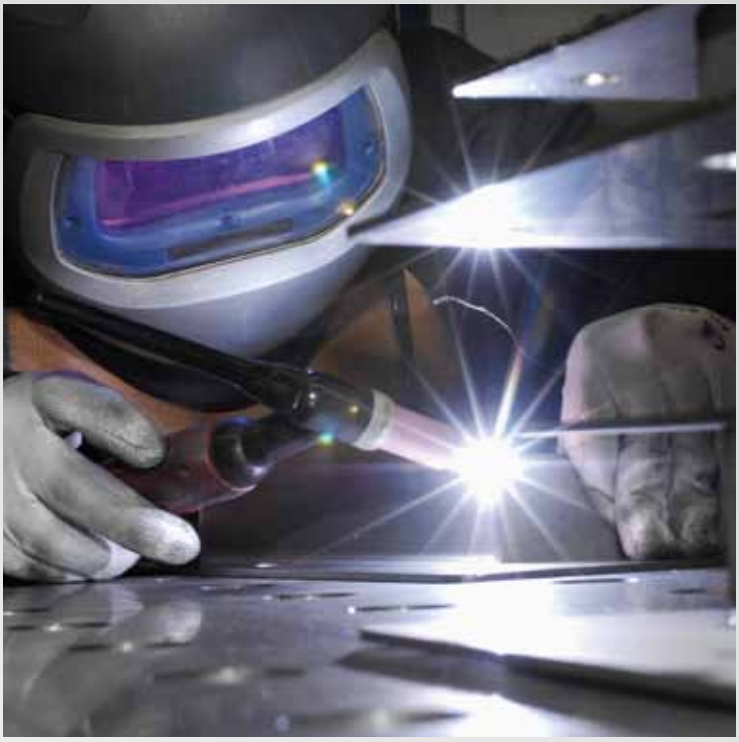
Innovation in sheet metal forming and drainage technology

Since it was founded, MVH GmbH has developed into a sought-after partner for industrial outsourcing. The most modern sheet metal forming technology, including CNC milling machines, presses and welding systems are located on more than 5,000 m² of production space.

With highly motivated employees and a constantly growing degree of automation, MVH GmbH is the first port of call for sheet metal forming, not just in the Main-Kinzig and Rhine-Main areas but also globally.

Welding Technology





Certified welding specialist

When load-bearing steel components need to be permanently joined together, welded connections are crucial for quality and functional safety. MVH guarantees this with its long-term experience, the most modern technology and proven employee competence. We are certified for all welding work involved in producing load-bearing steel components. We use MAG, MIG or TIG welding depending on which materials are to be permanently joined together. MIG welding is frequently used to join thin and coated materials. In addition, we offer further joining technology such as gluing or riveting. Gluing technology permits rational and thus cost-effective production and makes it possible to incorporate further properties into the component.

C 60 5000 N welding robot

With this system, MVH proceeds further along the route of technological innovation. Equipped with a laser arc and tactile sensors, the welding robot produces large quantities of complex components with many weld seams quickly, precisely and in consistently high quality. This compact system by Cloos, the specialist for welding systems and robots, works according to the MIG, MAG and tandem processes but also masters MIG soldering and TIG, plasma and powder plasma welding processes.

Welding processes:

- **MAG/MIG, TIG**
- **Plasma and powder plasma**

Materials:

- **Sheet steel**
- **Stainless steel**
- **Aluminium**
- **Special steels**

Complex Components

Chamfering

Regardless of whether solid or thin sheet steel, freely bending, swing-folding or three-point folding is required, MVH has various high-tech bending machines available. These include Weinbrenner folding machines for workpieces up to 6mm thick and up to twice 4.65 metres or 9.30 metres in length. A swing-folding machine folds sheet steel up to 8 metres in length. A Hämmerle machine processes lengths up to 4 metres using the three-point bending process. A machine is available for precision and small parts which can process workpieces up to 2 metres in length.

Precision work for large quantities: BendMaster TruBend 5320

The TruBend 5320 works precisely even with large quantities and unwieldy parts. With a bending length of up to 4.42 m and a pressing force of 320 tonnes, it is the largest bending machine in Trumpf's 5000 TruBend series.in addition to the high pressing force, its four-cylinder technology guarantees double precision due to the even pressure distribution across the entire length of the pressing bar. The bending machine processes steel sheets of almost any complexity and geometry. Thanks to Automatically Controlled Bending (ACB), the sheets receive their correct form right from the very first part. This reduces irksome downtimes and no scrap is produced when production is started up. The secret of ACB is up to eight angle measuring systems which monitor the workpiece. The machine automatically adjusts the bend in case of tolerance deviations.

Edge technology:
- Up to 6 mm thick
- Up to 9300 mm or
  Two times 4650 mm

BendMaster TruBend 5320:
- Bending lengths up to 4420 mm
- 320 t pressing force
- ACB

Optimum Solutions

The most productive punching machine in the world: TruPunch 5000

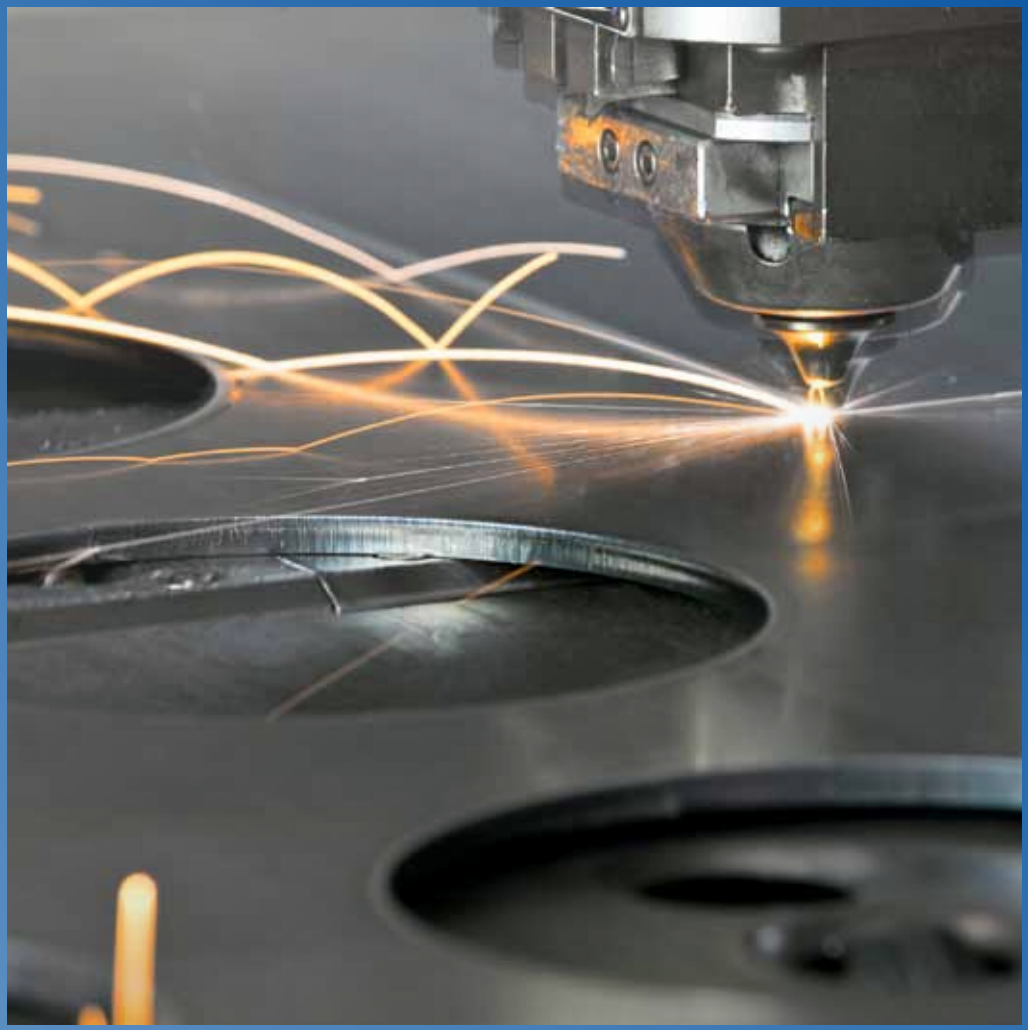
Designed for workpieces of up to 1500 x 300 millimetres, it is the acceleration figures which make the TruPunch 5000 so effective. The X axis accelerates with double the Earth's speed of gravity up to a maximum speed of 100 km/h. A further special feature is the y axis gantry drive: two separate motors are controlled synchronously without any mechanical connection and thus ensure rapid acceleration and precision. The TruPunch 5000 presses with a stroke sequence of up to 1200 strokes/min.

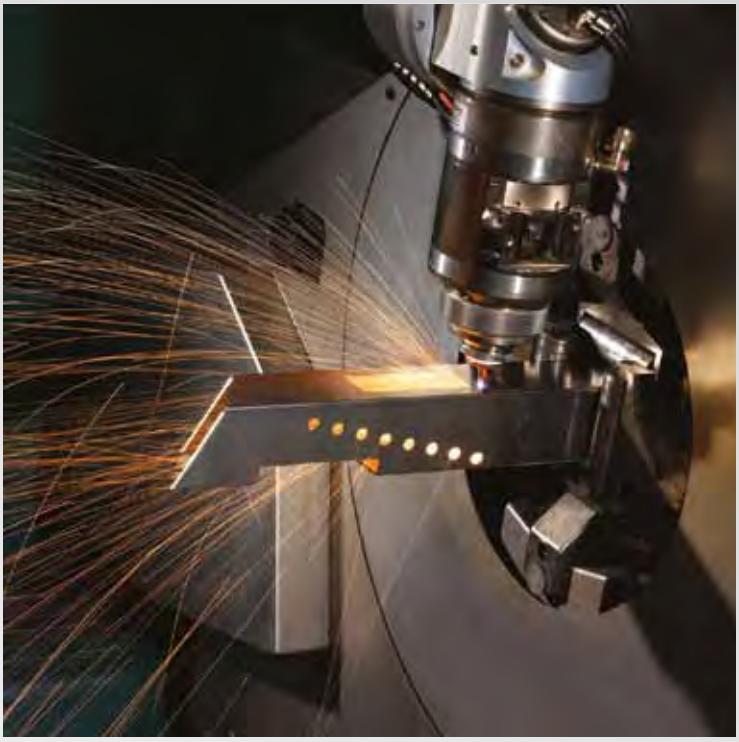
In addition to the pressing process, parts with threads and finishing plates can also be produced with the TruPunch 5000. Even deburring workpieces is no problem with this machine. All tools can be used flexibly due to the freely rotatable punching head. During tool changes the punch, stripper and template are monitored by sensors in order to guarantee process reliability. All tools can be moved into any position with 330 rpm. The TruPunch can change tools in 2.8 seconds. The MultiTool can do it in just 0.3 seconds.

TruPunch 5000:

- **Up to 1500 x 3000 mm**
- **1200 strokes/min**
- **Threads and lugs**
- **Deburring**

Laser Technology





Laser machining

We machine sheet metal in formats up to 4000 x 2000 mm and steel up to 25 mm, aluminium up to 12 mm and stainless steel up to 15 mm thick on flat-bed, pipe and punch laser machines. A combined laser-punching machine can process workpieces up to 9000 x 2000 mm.

Precise, fast and effective – Pipe machining made by MVH

Precise cuts for complex connections, effective material use and the greatest flexibility – that briefly sums up the outstanding properties of the LT 8 pipe laser machine. It permits output beyond classical metalworking. Designs for both the automotive and the furniture industries demand effectiveness in addition to the highest precision. Material consumption is always an economically significant factor, especially where large quantities are concerned. Thanks to an efficient automatic loading device and a unique unloading solution, the LT 8's productivity is unparalleled. It runs almost loss-free thanks to an intelligent material handling system. The pipe laser machine processes pipes from 12 to 200 mm in diameter and rods up to 35kg/m in weight. Maximum quality and precision are guaranteed whatever the cross-section. The inclinable processing head with 3D tilt axes cuts both open profiles and special cross-sections with concave or convex geometries or complex connection profiles variably whilst making optimum use of material. A flexible cutting head which is equipped with tilting axes (3D) also permits processing of welding bevels. This simplifies subsequent processing steps such as the clamping and welding of pipes with medium-sized or large cross-sections such as U-sections and angles.

Further performance features of the LT 8:

- **Arranges the production of workpieces according to type and the outlet**
- **Processes pipes with different cross-sections simultaneously**
- **Can interrupt jobs to realise other orders and then work through the interrupted job immediately.**

Services

Advice and measurements

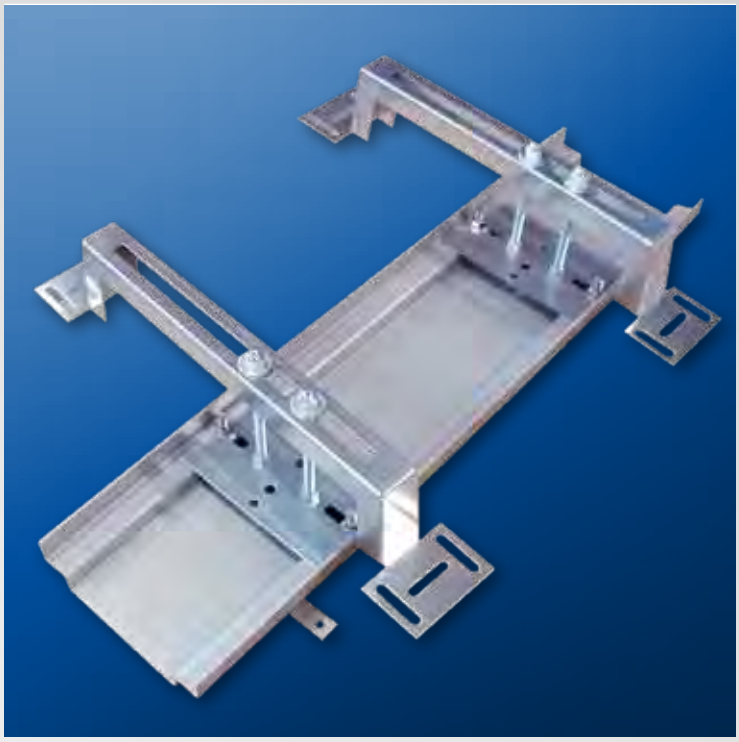
We are your competent partner for planning and dimensioning drainage systems.

We would be pleased to support you in measuring up on the construction site. In collaboration with your staff on-site, we collect the necessary data quickly, reliably and precisely.

Design

Customer-specific adaptation of drainage systems with modern CAD systems in our design department.

Services



Assembly

If required, our partner companies will assemble our drainage systems. Experienced fitters who know our drainage systems well complete this task for you whilst you can attend to other things. Our field sales team co-ordinates assembly. Talk to us!

MVH GmbH

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