



**TRUMPF at EMO 2007, September 17–22, Hanover,  
Hall 12, Booth C60/C72**

## **Big Stars in the Second Tier**

Sheet metal parts are the focus of the TRUMPF exhibit this time around – but there is also innovation in machines

TRUMPF GmbH + Co.KG  
P.O. Box 14 50  
71252 Ditzingen, Germany

**Anke Schmitt**  
**Phone +49 (0) 7156 303-428**  
**Fax +49 (0) 7156 303-6115**  
**Anke.Schmitt@de.trumpf.com**

Sept. 17, 2007, Page 1 of 5

### **TruLaser Cell: Precise variety**

Innovative, fast and highly flexible – the laser cutting and welding machine TruLaser Cell is all of these. It is well-suited for producing sample parts and prototypes as well as small and medium-scale series.

There are a lot of reasons why it works so precisely and why the deviations are less than 0.01 mm: For example, its solid construction in the form of a granite precision machine frame. Or the combination of linear axes with rotating and pivoting axes that allow high-precision material processing beyond the second dimension. Or the “FocusLine” function, an automatic focus adjustment employing specific distortion of the autofocus mirror. Or – what is completely new – TRUMPF Dynamic Diameter Control (DDC), which adjusts the laser beam and the focus diameter to the current processing task on the fly.

But the machine's precision primarily stems from the beam source: The TruLaser Cell features the fast lasers of the TruFlow series, which are axial flowing and modular with 700 W to 8 kW power as needed. They offer clean and efficient high frequency excitation in a compact, square structure. The maintenance-free, magnet-supported turbo radial fan ensures maximum efficiency and gas recirculation, which in turn produces optimal cooling and performance. The TruLaser Cell is equipped for all materials – aluminum, mild steel and stainless steel – and all requirements, whether it's cutting or welding.

## Big Stars in the Second Tier

TRUMPF GmbH + Co.KG  
P.O. Box 14 50  
71252 Ditzingen, Germany

**Anke Schmitt**  
**Phone +49 (0) 7156 303-428**  
**Fax +49 (0) 7156 303-6115**  
**Anke.Schmitt@de.trumpf.com**

Sept. 17, 2007, Page 2 of 5

### TruBend 5050: Programmed comfort

The TruBend 5050 is distinguished by very short cycle times. The machine operates at up to 220 mm/s, both forward and in reverse. As the name suggests, it has a press tonnage of 500 kN. The fold length is 1275 mm. Precise bending is quite easy with the TruBend 5050 as the angle sensor system ACB (Automatically Controlled Bending) with up to eight sensors ensures exact angles from the very start. Follow-up bending and time-consuming startup procedures are unnecessary.

The operator can read the bending result directly on the screen of the TASC 6000 control (TRUMPF Advanced Specialized Control). This touch screen control guides the operator through clear, interactive interfaces offering a variety of possibilities. These include user authorizations, management of tools, programs and material as well as set-up plans drawn in minutes and bending programs with 3 D simulations of the bending process.

Just like every other bending machine of the TruBend 5000 series, the TruBend 5050 can be automated with the BendMaster. Here the principle of universality applies: Both the machine and BendMaster are programmed offline using the same software.

### TruMark Station 7000: Permanent marker

With the 3-axis machine TruMark Station 7000, large and heavy parts can be marked just like palletted workpieces in large quantities.

## **Big Stars in the Second Tier**

TRUMPF GmbH + Co.KG  
P.O. Box 14 50  
71252 Ditzingen, Gemany

**Anke Schmitt**  
**Phone +49 (0) 7156 303-428**  
**Fax +49 (0) 7156 303-6115**  
**Anke.Schmitt@de.trumpf.com**

Sept. 17, 2007, Page 3 of 5

Combined with the reliable TruMark 6130 marking laser, a number of marking tasks and microprocessing applications on various metals, plastics and ceramics can be completed on the TruMark Station 7000.

The marking laser's range of parts and materials is almost infinite as are the reasons for its use: Whether a workpiece is to be identified or a process path is to be traced, or a product is to be protected from imitation or given a special use such as through a scale for example, anything can be done with the TruMark Station 7000 – permanently and securely, regardless of the workpiece type.

The TruMark Series 6000, new to the market, has up to 75 percent more power compared to previous models of VectorMark compact (VMc) in the infrared, green and ultraviolet ranges. That means shorter processing times and increased productivity. Familiar applications then require shorter marking times. The TruMark Series 6000 also offers more peak pulse power and higher pulse energy than the VMc series, which makes additional applications possible and opens up new uses for the markers – in the semiconductor field for instance.

### **TruMatic 6000: Perfect duo**

The TruMatic 6000 represents the current high-end generation of laser-punching combination machines from TRUMPF. The interaction of the two technologies – laser cutting and punching – allows

## Big Stars in the Second Tier

TRUMPF GmbH + Co.KG  
P.O. Box 14 50  
71252 Ditzingen, Gemany

**Anke Schmitt**  
**Phone +49 (0) 7156 303-428**  
**Fax +49 (0) 7156 303-6115**  
**Anke.Schmitt@de.trumpf.com**

Sept. 17, 2007, Page 4 of 5

the machine to perform complex tasks effectively and productively on its own.

Combined technology means complete processing: Workpieces are completely processed in one clamping operation using different methods. The punching head needs only one stroke to create standard contours such as rounded or rectangular holes in addition to threads or other formings. The laser cuts intricate inside and outside contours with smooth and burr-free edges.

The TruMatic 6000 has a maximum stroke rate of 900 strokes/min. The rate for engraving even reaches 2,800 strokes/min. The C axis rotates at 330 rpm. Sensors monitor the punch, stripper and die during the tool exchange, which makes the process as reliable as possible. With the TruMatic 6000, MultiTools can be used with up to ten punches as well as other special TRUMPF tools, from the Multi-Bend for bending tabs to roller technology that enables fast cutting, beading, and offsetting – for circles and rounded shapes, too.

The modular automation concept of the TruMatic 6000 allows the system to be expanded stepwise to the point of full automation, which translates to automatic loading of sheets as well as unloading, sorting and storage of processed parts. Innovative sensor technology ensures maximum process reliability.



# Press Release

TRUMPF



**TRUMPF Group**  
**Press and Public Relations**

## **Big Stars in the Second Tier**

TRUMPF GmbH + Co.KG  
P.O. Box 14 50  
71252 Ditzingen, Gemany

**Anke Schmitt**  
**Phone +49 (0) 7156 303-428**  
**Fax +49 (0) 7156 303-6115**  
**Anke.Schmitt@de.trumpf.com**

Sept. 17, 2007, Page 5 of 5

TRUMPF is a high-tech company that specializes in production and medical technology. For further information about the company, please visit [www.trumpf.com](http://www.trumpf.com)