Press Release

TruBend Cell 5000 makes fully automated bending affordable for even the smallest batches

New bending cell based on the latest technology // Servo drive consumes up to 50 percent less energy // New software enables bending cell to be fully programmed in seconds

Ditzingen, August 21, 2020 – TRUMPF has launched a new generation of its TruBend Cell 5000 automated bending cell. The cell can be programmed using the TecZone Bend software. It takes just seconds to create bending programs, making it more affordable than ever to process small batch sizes.

Program the machine and robot in a matter of seconds

The TecZone Bend programming software that comes with TRUMPF's manual bending machines is now also included with the TruBend Cell 5000. It takes just seconds to program parts using the software. In most cases no manual intervention is necessary, and the software can even process multiple parts simultaneously where required. It provides fully automated calculations of the optimum bending sequence, the optimum combination of tools and the path to be followed by the robot. It also ensures collisions are avoided throughout the bending process. TecZone Bend can break down assemblies in just one click to show the individual parts. The programming system even generates suggestions on the best way to pick up the blanks and stack the finished parts, though users can manually adjust these suggested settings at any time. This rapid programming is one of the keys to making automated fabrication affordable for even the smallest batch sizes. Smart automated functions free up programmers from some of the most tedious and repetitive tasks, giving an added boost to quality.

Quiet, energy-saving, precise and highly productive

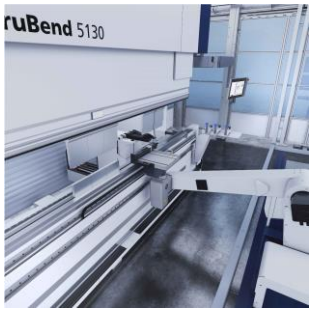
The new TruBend Cell 5000 is available with bending machines from the current TruBend Series 5000. It comes with a highly dynamic and precise drive that also offers extremely quiet and energy-efficient operation. Compared to a

conventional hydraulic drive, the drive in the TruBend Cell 5000 consumes up to 50 percent less energy while also increasing cell productivity. A backgauge system ensures blanks are in exactly the right position in the machine during the bending process. An angle measuring system uses a laser to automatically check the bending angle. It works regardless of which tool is currently in use and makes any adjustments that may become necessary during operation.

New generation includes tried-and-tested functions

The new generation of the TruBend Cell 5000 is equipped with numerous automation components. One example is the BendMaster, which handles bending operations. TRUMPF developed this robot specifically for automated bending. It is available with a maximum carrying capacity of 150 kilograms or 60 kilograms. The BendMaster can be automatically provided with various grippers that allow it to convey blanks of up to four meters in length from a stack to the machine. The robot uses a newly developed digital sensor to automatically identify parts, enabling it to pick up each sheet in the appropriate way. It uses either grippers or vacuum suction cups to pick up blanks depending on their size. The system also includes a double sheet detection feature that ensures only one sheet is removed from the stack at a time. If the bending cell is connected to a storage system, the BendMaster retrieves the raw material directly from the storage cart. Finished parts can be sorted into boxes or placed on pallets and conveyor belts.

TruBend Cell 5000
The new TruBend Cell 5000 is available with bending machines from the current TruBend Series 5000. The cell also comes with the rapid programming software TecZone Bend.



BendMaster
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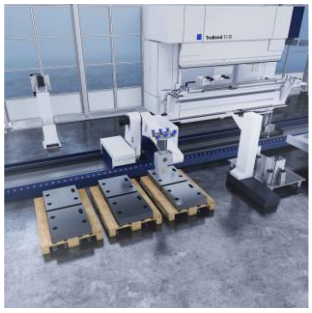
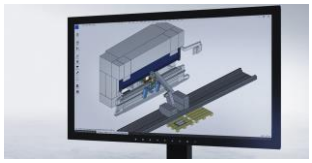


Sensors
The robot uses a new digital sensor to automatically identify parts, enabling it to pick up each sheet in the appropriate way.



TecZone Bend
Programming takes just seconds, making automation affordable for even the smallest batch sizes.

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About TRUMPF

TRUMPF is a high-tech company offering manufacturing solutions in the fields of machine tools and laser technology. The Company drives digital connectivity in manufacturing through consulting, platform products and software. TRUMPF is a technology and market leader in highly versatile machine tools for sheet metal processing and in the field of industrial lasers.
In 2019/20, the company employed some 14,300 people and generated sales of about 3.5 billion euros (preliminary figures). With over 70 subsidiaries, the TRUMPF Group is represented in nearly every European country as well as in North America, South America and Asia. The company has production facilities in Austria, China, the Czech Republic, France, Germany, Italy, Japan, Mexico, Poland, Switzerland, the United Kingdom and the United States.

Find out more about TRUMPF at www.trumpf.com

Press Release

Press contact:

Catharina Daum
Media Relations, Spokesperson Machine Tools
+49 7156 303-30428
Catharina.Daum@trumpf.com

TRUMPF GmbH + Co. KG, Johann-Maus-Straße 2, 71254 Ditzingen, Germany