

### **The TruLaser Cell Series 7000 offers numerous advantages**

- Due to its modular design, the TruLaser Cell Series 7000 can be adapted to various market requirements.
- High operating speed and axis acceleration reduce the unit costs.
- Sustained laser focus over the entire work area ensures a consistently high processing quality.
- With the magnetic clutch on the processing head, downtimes due to collisions are avoided.
- Programming and teaching are user-friendly.
- Various automation modules increase the productivity of the TruLaser Cell Series 7000.
- TRUMPF technology tables provide simple data support.
- Compact machine set-up: 4 m instead of the previous 3 m traverse path with the same space requirements.
- Machine, laser and application technology: TRUMPF provides it all from a single source.



Technical data	TruLaser Cell 7020	TruLaser Cell 7040
----------------	--------------------	--------------------

<b>Work area</b>		
X:	2,000 mm	4,000 mm
Y:	1,500 mm	1,500 mm
Z:	750 mm	750 mm
B:	± 120°	± 120°
C:	n x 360°	n x 360°

X:	2,000 mm	4,000 mm
Y:	1,500 mm	1,500 mm
Z:	750 mm	750 mm
B:	± 120°	± 120°
C:	n x 360°	n x 360°

<b>Speed</b>		
Simultaneous:	150 m/min	150 m/min
X:	100 m/min	100 m/min
Y:	80 m/min	80 m/min
Z:	80 m/min	80 m/min
B:	60 min <sup>-1</sup>	60 min <sup>-1</sup>
C:	60 min <sup>-1</sup>	60 min <sup>-1</sup>

Simultaneous:	150 m/min	150 m/min
X:	100 m/min	100 m/min
Y:	80 m/min	80 m/min
Z:	80 m/min	80 m/min
B:	60 min <sup>-1</sup>	60 min <sup>-1</sup>
C:	60 min <sup>-1</sup>	60 min <sup>-1</sup>

<b>TRUMPF Laser</b>		
Maximum output CO <sub>2</sub> -Laser:	15,000 W	15,000 W
Maximum output YAG-Laser:	6,000 W	6,000 W

Maximum output CO <sub>2</sub> -Laser:	15,000 W	15,000 W
Maximum output YAG-Laser:	6,000 W	6,000 W

<b>Accuracy<sup>1</sup></b>		
Smallest programmable measurement path:	0.001 mm	0.001 mm
Maximum repeatability		
– Linear axes X, Y, Z:	0.03 mm	0.03 mm
– Rotation axes B, C:	0.005°	0.005°
Maximum position deviation <sup>2</sup>		
– Linear axes X, Y, Z:	0.08 mm	0.08 mm
– Rotation axes B, C:	0.015°	0.015°

Smallest programmable measurement path:	0.001 mm	0.001 mm
---	----------	----------

Maximum repeatability		
– Linear axes X, Y, Z:	0.03 mm	0.03 mm
– Rotation axes B, C:	0.005°	0.005°

– Linear axes X, Y, Z:	0.03 mm	0.03 mm
– Rotation axes B, C:	0.005°	0.005°

Maximum position deviation <sup>2</sup>		
– Linear axes X, Y, Z:	0.08 mm	0.08 mm
– Rotation axes B, C:	0.015°	0.015°

– Linear axes X, Y, Z:	0.08 mm	0.08 mm
– Rotation axes B, C:	0.015°	0.015°

<sup>1</sup> The level of precision that can be achieved on the workpiece depends, among other things, on the type of workpiece, its pre-treatment, the table size, the material and the position in the work area. Depending on the modular program of the TruLaser Cell Series 7000, the technical data are based on the various component variations that result from the options selected.

<sup>2</sup> Pure mechanical precision without control compensation is measured across the entire axis operating length, according to VDI 3441.

**TRUMPF**



TRUMPF Laser- und  
Systemtechnik GmbH  
P.O. Box  
71252 Ditzingen · Germany

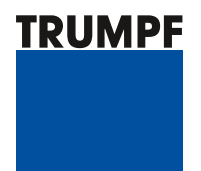
Tel.: +49 (0) 7156-303-862  
Fax: +49 (0) 7156-303-879  
E-Mail: [info@de.trumpf-laser.com](mailto:info@de.trumpf-laser.com)  
Internet: [www.trumpf-laser.com](http://www.trumpf-laser.com)

# TRUMPF 3-D Laser Processing Center



**TruLaser Cell Series 7000**

**One Machine. Many Possibilities.**



# Laser processing for job shops and mass production – TRUMPF makes it easy for you to get started

The TruLaser Cell Series 7000 opens up all laser processing possibilities to you. Whether cutting or welding, two or three dimensional workpieces, single part or mass production: with the TruLaser Cell Series 7000, you are perfectly equipped for any kind of job.

In job shops – where short set-up times, easy operation and fast learning count; and where today's stainless steel may become tomorrow's aluminum, structural or galvanized steel – the TruLaser Cell Series 7000 shines through thanks to its unique flexibility.

In classic mass production, for example in the automobile industry, the TruLaser Cell Series 7000 captivates due to its enormous productivity. It performs extremely fast and can also be retrofitted with various automation modules and be easily integrated into the most varied production lines.



# Multiply your options – TruLaser Cell Series 7000

The compact design of the TruLaser Cell 7040 offers you a traverse path up to 4 m with a footprint comparable to that of 3 m machines. The position of the cantilever at 2 m, a Z-axis with a low collision contour and the ergonomic table height ensure excellent accessibility. Axis speed up to 150 m/min enables very fast processing times. The TruLaser Cell Series 7000 can considerably reduce your unit costs.

Dual-station operation, linear changer, rotary changer – The TruLaser Cell Series 7000 provides for all your automation needs. It reduces processing times and increases the productivity of the machine. You don't have to forgo flexibility.



## Everything you need for automation



### Two machines in one: dual station the operation

A partition divides the work area of the TruLaser Cell 7040 into two large, separate stations allowing set-up and laser processing at the same time, in one machine. Each side provides you with a floor space of 2 m x 1.5 m. For large components, you can simply slide the partition back.



### Open to everything: the linear changer

In front, to the side, right or left – the open machine concept makes it possible to operate the work tables in many directions. The linear changer can be optimally integrated into any production facility with minimal effort – even later on.



### Production advantage: the rotary changer

The fast rotation changer with a maximum diameter of 4 m will give you decisive advantages. One load and unload position simplifies parts handling, either manually or automated with a robot.

TRUMPF

## TruLaser Cell 7040



### Well thought-out right down to the last detail: the optical path

Position and laser focus diameter are automatically adjusted and thus remain consistent over the entire work area. The protected optical path and the durable, patented bellows increase process reliability, which ensures long-term high quality cutting and welding results across the entire work area.



### 3-times the intelligence in the head: damage protection, recognition and dynamic height regulation

The magnetic clutch on the processing head comes loose if there is a head collision and prevents expensive downtimes. Through integrated head identification, the control system recognizes which processing head is mounted. The optional dynamic processing head reduces the positioning times and simultaneously increases process reliability because only the lenses and the nozzle keep the distance to the component's surface constant.



### Nimble, flexible, transparent operation

The super-easy teach panel defines new state-of-the-art technology. With its 6-D mouse, it is easy to operate the axes. The small design of the teach panel simplifies integration and teaching. The suspended control panel can be mounted onto the enclosure or relocated if desired. And if you work in the enclosure, then simply turn it in your direction.