

TruLaser 7040 NEW:

Unrivalled  
Productivity



Machine/Power Tools  
Laser Technology/Electronics  
Medical Technology

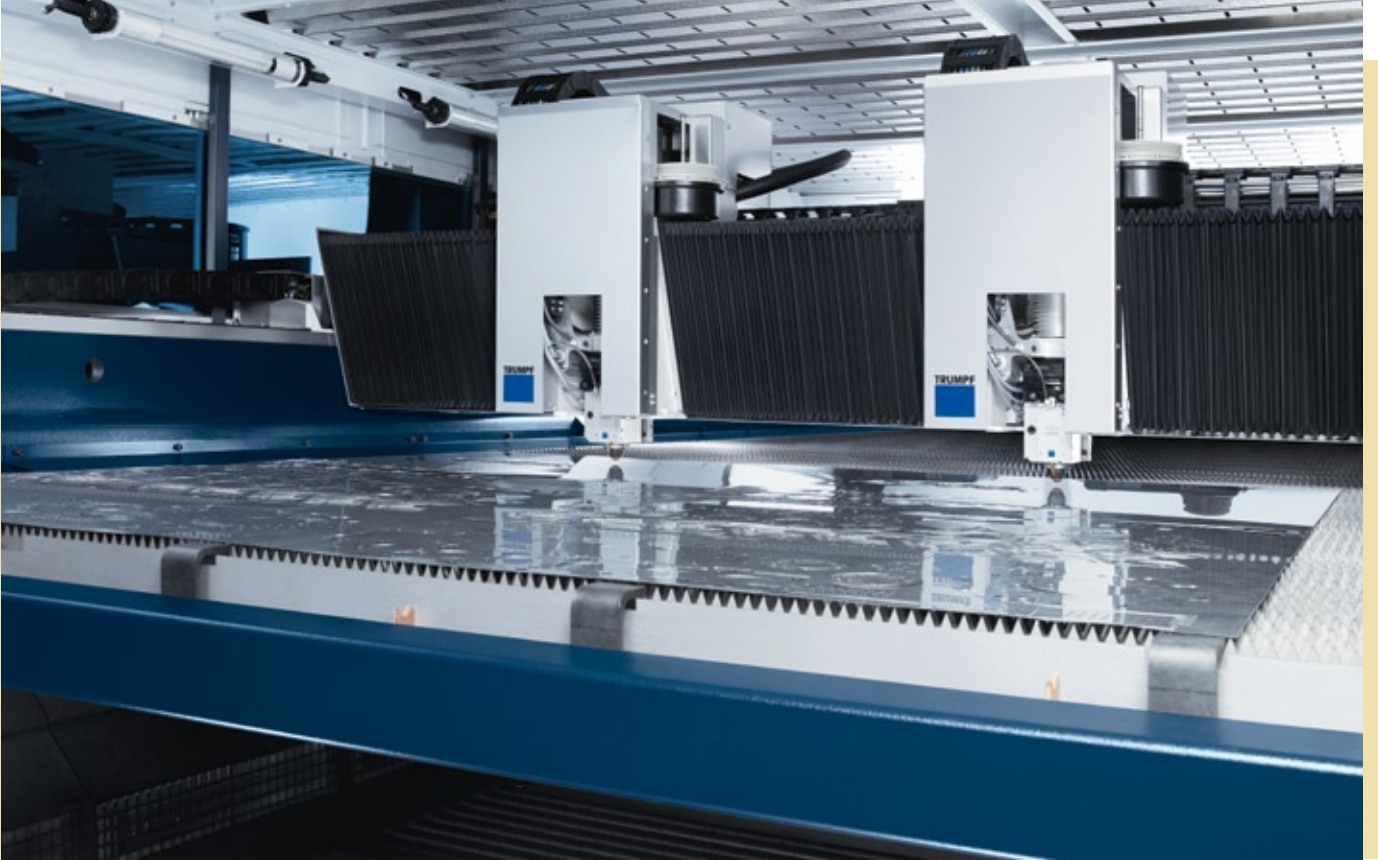


# Highest speed in any direction.

The TruLaser 7040 NEW is the most productive laser machine in the world thanks to its two cutting heads that process two parts simultaneously. It is ideal for producing large batch sizes. All machine drives are frictionless linear drives. We have increased the acceleration of the X and the Y axis by an additional 25 percent over the previous model. However, the increased values of the X and Y axis can only be fully

and reliably utilized if the Z axis, which places the laser head at the correct cutting height, can keep up with their speed. With the TruLaser 7040 NEW, customers do not have to think twice about it. With unrivalled speed, the Z axis adapts to any variations in the sheet and its reliable processes enable high feed rates.





## Stable and light.

Our engineers constructed the machine's cross member out of light, but stable carbon fibers that are also successfully used in the racing industry. Only with this material is the combination of impressive dynamics and unrivalled precision possible. In addition, the machine body has a very stiff construction – an absolute must for perfect contours.



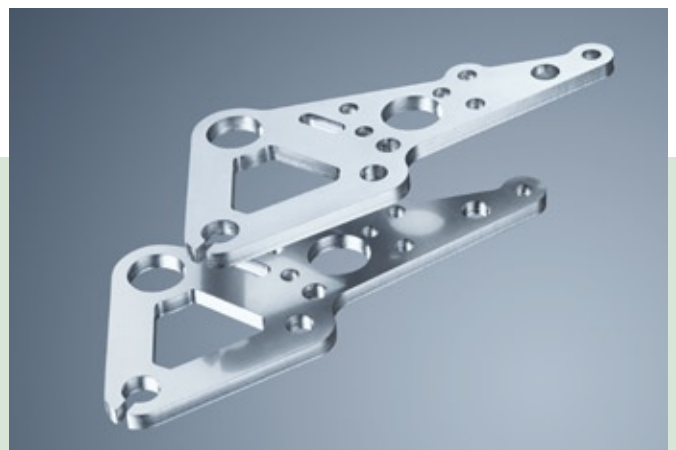
# Intelligent production.

With the TruLaser 7040 NEW, two laser heads cut simultaneously. A 6,000 watt strong TruDisk disk laser supplies the necessary power. Each head works with 3,000 watts. However, you can focus the laser output on one cutting head and then to cut sheet metal up to 20 mm thick. The beam is guided by a fiberglass cable from the resonator to the cutting head. This is uncomplicated and completely maintenance free.

## Energy efficient production.

TRUMPF produces a wide variety of laser sources and selects the right laser for each task. We launched the first laser machine equipped with solid-state lasers back in 1995, and have the necessary experience for bringing out the best to get the most out of these types of lasers.

The way in which energy from the TruDisk 6001 is applied to the material is simply ideal for cutting thin sheet metal – and

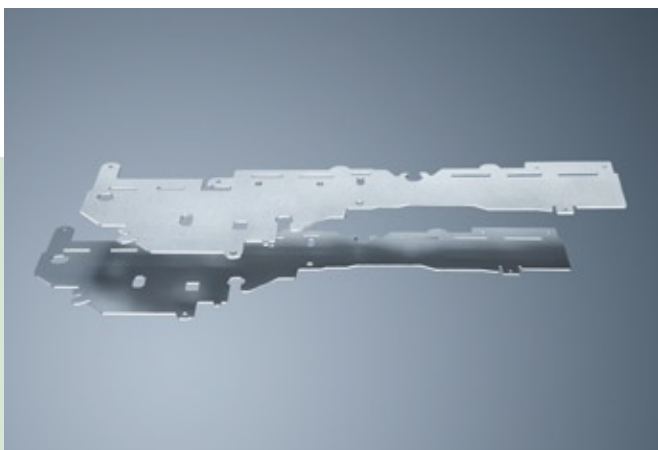




at extraordinarily high cutting speeds. That is why it is the perfect match for the machine concept of the TruLaser 7040 NEW. The TruDisk 6001 is also extremely energy efficient. When it is not cutting, it operates in standby mode which requires almost no power because no gas has to be circulated. When it comes to energy consumption per meter cut, the TruLaser 7040 NEW is absolutely world class.

### Process for optimal results.

Whether FocusLine, ControllLine or PlasmaLine – the TruLaser 7040 NEW has all of the processing features you are familiar with from the earlier model. In addition, you can connect the TruLaser 7040 NEW to all conventional TRUMPF automation solutions to further increase your productivity. All machines in the TruLaser Series 7000 are of course also available with CO<sub>2</sub> lasers.





#### Working range

X axis	2,500 mm
Y axis	4,000 mm
Z axis	100 mm <sup>1</sup>

#### Workpiece

Maximum weight	1,600 kg
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#### Maximum speeds

Parallel axis	215 m/min
Simultaneous, approx.	304 m/min

<b>TRUMPF CNC control</b>	Siemens Sinumerik 840D
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#### Precision<sup>2</sup>

Smallest programmable measurement path	0.001 mm
Position deviation Pa	± 0.05 mm
Average position range Ps	± 0.02 mm

#### Dimensions<sup>3</sup> and Weight

Length	16,800 mm
Width	8,100 mm
Height	3,500 mm
Weight	15,000 kg



#### Laser data

Maximum power

Power range, adjustable in 1% steps

Wavelength

Laser gases

#### TruDisk 6001

6,000 W

60 – 6,000 W

1.03  $\mu\text{m}$

none

#### Maximum sheet thickness

Mild steel

25 mm

Stainless steel

20 mm

Aluminum

20 mm

Electrical power consumption of entire system<sup>4</sup> 11 – 33 kW

<sup>1</sup> The working range in the Z direction is reduced by 25 mm on machines with automation.

<sup>2</sup> The level of precision achieved on the workpiece depends on a number of factors including the type of workpiece, its pre-treatment, the sheet size and the position in the work area. In accordance with VDI/DGQ 344, gauge 1 m.

<sup>3</sup> Approximate values. The exact data can be found in each of the valid installation plans.

<sup>4</sup> Including suction unit, control, HF generator, and chiller, depending on the processing program. Power consumption in standby mode and during production.

TRUMPF is certified according to DIN EN ISO 9001 and VDA 6.4