



TruMatic 7000:

The perfect combination



Fast and safe
for scratch-free
parts.



The laser can move in two directions on auxiliary axes.

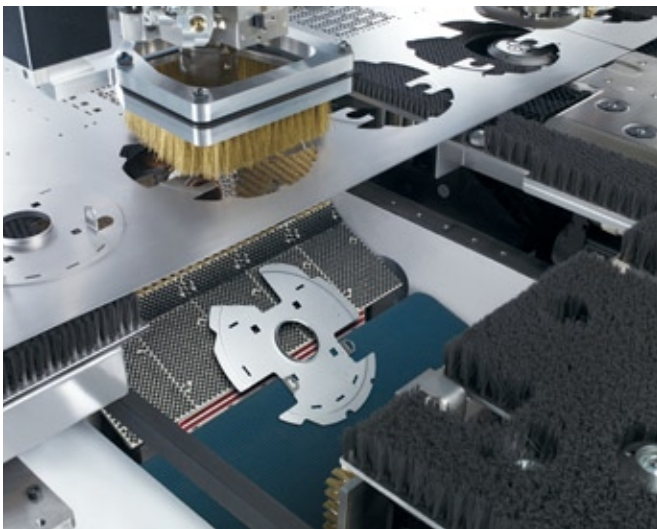
The TruMatic 7000 not only combines the advantages of punch and laser processing, but also achieves high processing speeds that produce perfect parts without scratches. As an ideal addition to your machine, we deliver you the new SheetMaster adapted to the high performance of the TruMatic 7000.

New axes for the laser.

With the help of additional axes, the laser beam of TruMatic 7000 can be positioned along the x and y axes. The movement of these additional dynamic axes can be combined with the other axes. The advantage is easy to see: improved productivity. It is now possible to cut highly detailed contours significantly faster. Cutting speeds are increased and since scrap pieces are cut up by the laser and disposed of by the laser die, scrap removal times are shortened. In addition, there are fewer jerky directional changes. The machine works smoothly and precisely.

Fast removal.

The fast laser flap, which removes parts up to 500 x 500 mm, was redesigned for the TruMatic 7000. It consists of two parts, and the removal now takes just one second. The laser cutting support is fitted with brushes and programmed to be elevated by 1 to 2 mm. This prevents the flat sheet from touching the laser die during the cutting process and scratching the bottom surface.



With the two-part laser flap, parts can be removed quickly and scratch-free.



One cutting head for everything.

Due to the newly designed beam guidance, the TruMatic 7000 can process sheet metal in a variety of thicknesses using the same cutting head. Head changing is no longer necessary. The automatic nozzle changer also takes care of exchanging the nozzle for you. Nonproductive auxiliary processing times can be reduced, and every material with varying type and thickness can be cut in any sequence – and all of this is done comfortably without the need for operator intervention.

More punching options.

The punch station of the TruMatic 7000 provides new options for your punching and forming processes. It can be fitted with the active die, which functions like a second upward punch head.

Avoid scratches.

The active die enables scratch-free punching and forming at an unrivaled speed. When you position the sheet metal, the die moves down so that it cannot touch the sheet. This is true for punching as well as for higher forming dies. It also prevents the risk of the sheet from getting caught in the die during the positioning process and during laser cutting which makes programming easier.

New forming options.

With the active die you expand the forming options of your TruMatic 7000. Higher upward forming can be actively performed in the sheet. In addition, the active die has room for larger tools and makes it possible to form closer to the clamps, because the sheet is always evenly supported. This results in higher material utilization and a reduced scrap.



**TruMatic 7000
Medium format**

**TruMatic 7000
Large format**

Working range (X x Y)¹

Combination of punch and laser operation	2,540 x 1,280 mm
Punch operation	2,540 x 1,370 mm
Laser operation	2,540 x 1,280 mm

2,540 x 1,570 mm
3,120 x 1,660 mm
3,120 x 1,570 mm

Services

Laser output	4 kW
Max. sheet thickness ²	8 mm
Max. punch force	220 kN
Active stripper (programmable in stages)	4.5 – 20 kN
Max. work piece weight	220 kg

4 kW
8 mm
220 kN
4.5 – 20 kN
280 kg

Speeds

X-axis	100 m/min
Y-axis	60 m/min
Simultaneous (X and Y)	116 m/min

100 m/min
60 m/min
116 m/min

Speeds

- C-axis punching
- C-axis tapped threads
- Max. stroke rate punching (E = 1 mm)
- Max. stroke rate engraving

Tools

- Linear magazine
- Quantity with the use of the MultiTool
- MultiTool

Tool exchange time

Accuracy³

- Positioning deviation Pa
- Average repeatability Ps

TRUMPF CNC control



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330 1/min
330 1/min
1,200 1/min
2,800 1/min

330 1/min
330 1/min
1,000 1/min
2,800 1/min

22 tools
with 3 clamps

21 tools
with 4 clamps

21 – 210
5-/10-fold
0.3 - 2.8 s

22 – 220
5-/10-fold
0.3 - 2.8 s

± 0.10 mm
± 0.03 mm

± 0.10 mm
± 0.03 mm

Rexroth IndraMotion
MTX

Rexroth IndraMotion
MTX

Programmable chute

Max. size of punch and laser parts 500 x 500 mm

500 x 500 mm

Dimensions and weight⁴

Required space 7,950 x 6,700 mm
Height 2,500 mm
Weight 23,000 kg

8,070 x 7,650 mm
2,500 mm
23,000 kg

Power intake

Medium power intake 16 – 70 kW
Standby operation ca. 1 kW

16 – 70 kW
ca. 1 kW

¹ Without repositioning.

² Different data applies for brush tables.

³ The level of precision achieved on the work piece depends, among other things, on type of work piece, its pre-treatment, plate size and position in the work area. In accordance with VDI/DGQ 3441, gauge 1 m.

⁴ Approximate values. The exact data can be found in the valid installation plan.

Intelligent automation.

The SheetMaster for the TruMatic 7000 is not only just as dynamic as the one we used on the TruPunch 5000, but it is significantly more flexible. All suction cups are monitored individually to ensure an absolutely safe processes.

Simultaneous removal of up to four parts.

The SheetMaster together with the additional laser axes allows you to simultaneously cut and remove up to four parts safely. To accomplish this, it suctions the parts even before they are separated from the sheet skeleton. It is equipped with four movable suction bars, each one consisting of up to 80 monitored suction cups in groups of six or ten. Thus, it is possible to remove even the smallest, detailed parts.





More flexible loading.

Due to the newly constructed suction frame, flexible positioning of the suction cups is possible and the SheetMaster can be expanded by adding additional support suction cups. This makes the loading even more flexible. You can adapt the sheet thickness measuring device and the peeling system to the sheet format to capture and load different cuts.



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