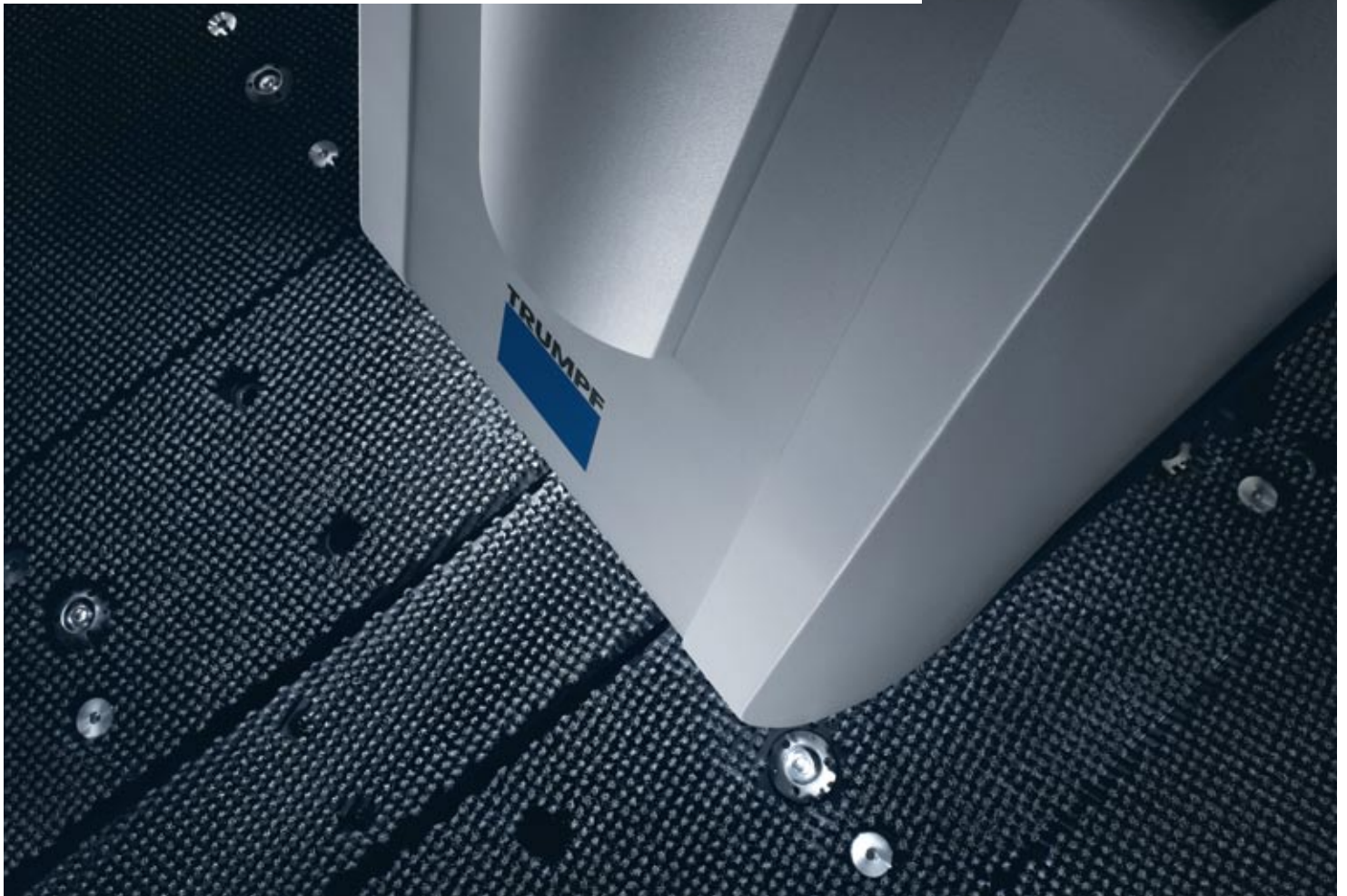




TruPunch 3000:

Punching
without limits.



Unrivalled efficiency.

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TruPunch 3000 is the resource-efficient universal machine from TRUMPF. Its intelligent handling of small parts enables you to process sheets up to 6.4 mm thick virtually scratch-free. An additional advantage: the compact machine is available with extensive automation.

TRUMPF is the world's first manufacturer to offer a punching machine which does not produce a scrap skeleton. This innovation makes processes more reliable, increases material efficiency and is extremely operator-friendly.

TruPunch 3000: Benefits at a glance.

- 1 High resource efficiency.
- 2 Skeleton-free processing.
- 3 Scratch-free material handling.
- 4 Extensive automation.
- 5 Small machine footprint.

Find out more about the TruPunch 3000 at www.punching-without-limits.com

Simply
impressive.

efficiency+

We strive to work cost-efficiently and responsibly through the sensible use of resources.

- Skeleton-free punching increases your sheet utilization by 10% on average and reduces material costs accordingly.
- Equipped with an electric punching head, the machine is very energy-efficient and has an average power input of just 5.9 kW.

[Find out more about efficiency+ at www.trumpf.com/en/efficiencyplus](http://www.trumpf.com/en/efficiencyplus)

► Scratch-free material handling

With the descending die, the positioning of sheets can be done without scratches. With a sorting unit small parts measuring up to 500 x 500 mm can be unloaded safely and carefully through the parts chute.

► Extensive automation

Automatic loading and unloading makes your machine more productive – for example, through automation for single, small and micro-joint parts, as well as for residual pieces of sheet metal. You can attain even greater flexibility through connection to a storage system.

► Small machine footprint

The electric punching head eliminates the need for a hydraulic unit. This saves space and also makes your machine much quieter. If you have very little space available, we can offer you a compact automation solution to fit your needs.



Energy-efficient electric punching head.



Scratch-free sheet positioning with the descending die.



Mild steel St37; 1 mm

Tools and technologies used: punching; roller deburring; forming: thread with upward and downward extrusion, upward thread punching, cup, clip and hinge, bridges, MultiBend, embossing.

Flexible without limits.

► Skeleton-free processing

The scrap skeleton that remains on the machine in a conventional production strategy is time-consuming to remove. In skeleton-free processing, however, the sheet is completely cut to pieces, not even a residual strip is left behind.

Process-reliable

- Finished parts can be unloaded reliably.
- Small parts are unloaded reliably even when the part chute is open.
- Residual pieces of sheet metal are automatically cut up and removed.

Material-efficient

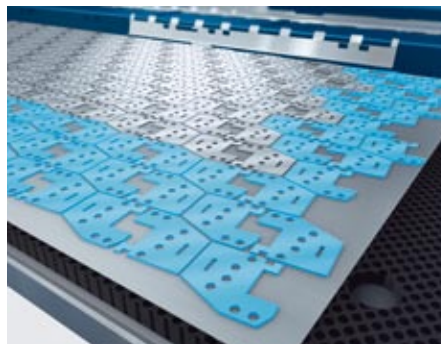
- Common cuts ensure optimal material usage.
- An average of 10% higher sheet utilization reduces material costs.
- Smaller bits of residual material simplify logistics and yield higher scrap prices.

Operator-friendly

- Working without a scrap skeleton increases safety.
- Residual pieces of sheet metal can be sorted by material.
- The sorter routes good parts and scrap to specific containers.



If necessary, the machine can turn your parts before unloading.



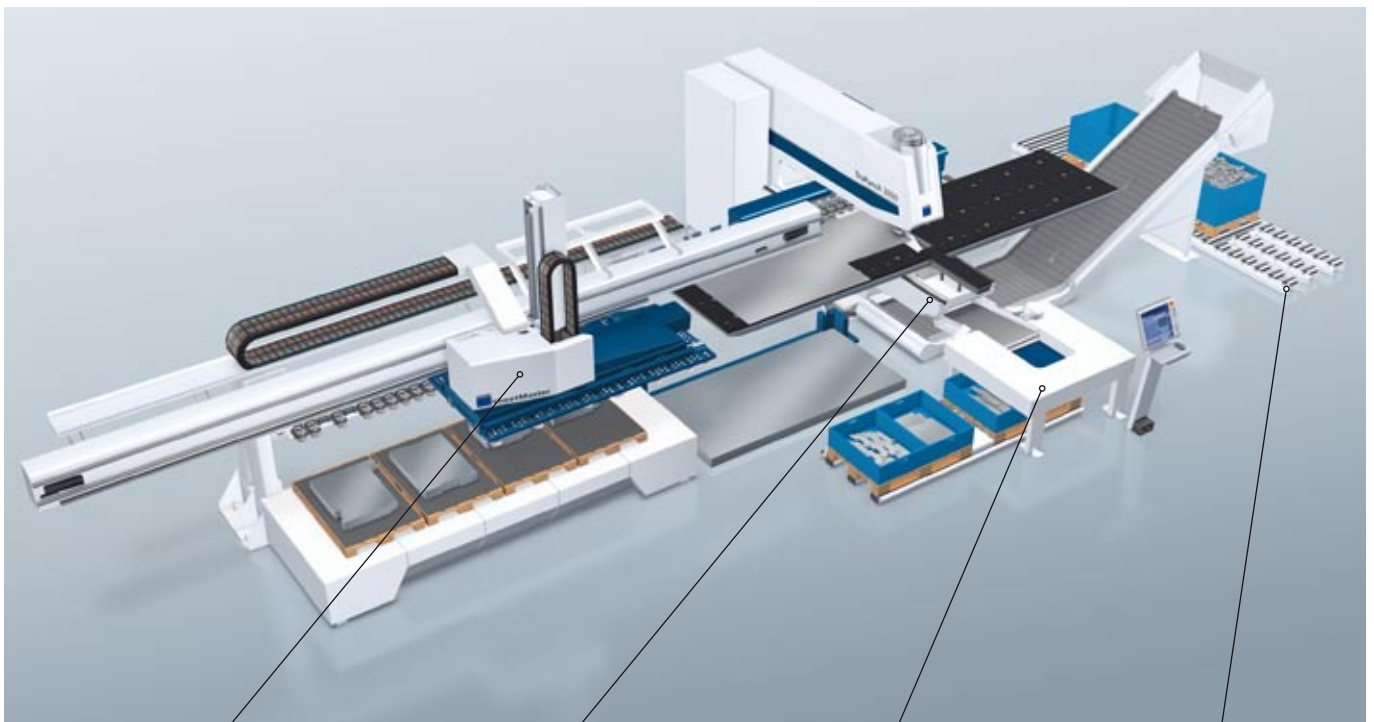
Material-efficient thanks to skeleton-free processing.



The sorter separates scrap from good parts.

Automation that pays off.

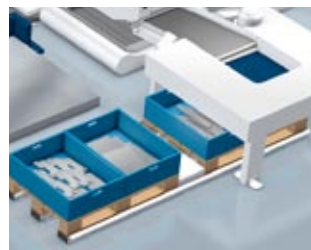
Your machine will be even more productive with these practical automation options from TRUMPF:



SheetMaster:
Performs speedy and process-reliable loading and unloading, stacking and sorting. Optional tool changer and space for additional tools.



Sorter:
Separates good parts from scrap.



SortMaster Box Linear with part slider:
Ensures virtually scratch-free sorting of good parts into containers, moving in a linear direction.



DisposeMaster:
Sorts sheet metal scrap, including slugs, according to material type.



Technical data:		
	TruPunch 3000 medium format	TruPunch 3000 large format^[4]
Work area (X x Y)	2500 x 1250 mm	3000 x 1500 mm ^[4]
Capacity		
Max. sheet thickness	6.4 mm	6.4 mm
Max. punching force	180 kN	180 kN
Max. clamping force	20 kN	20 kN
Max. workpiece weight	160 kg	230 kg
Speeds		
X axis	90 m/min	90 m/min
Y axis	60 m/min	60 m/min
Simultaneous (X and Y)	108 m/min	108 m/min
C axis	330 rpm	330 rpm
Max. stroke rate when punching (E = 1 mm)	1000 1/min	900 1/min
Max. stroke rate when marking	2500 1/min	2500 1/min
Max. acceleration^[1]		
X axis	12 m/s ²	12 m/s ²
Y axis	6 m/s ²	5 m/s ²
C axis	350 1/s ²	350 1/s ²
Tools		
Linear magazine	18 tools with 2 clamps	17 tools with 3 clamps
No. when using MultiTool	18 – 180	17 – 170
MultiTool	5/10 stations	5/10 stations
Tool change time		
Single tool	3.0 s	3.0 s
MultiTool	0.3 s	0.3 s
Accuracy^[2]		
Positioning accuracy Pa	± 0.1 mm	± 0.1 mm
Repeatability Ps	± 0.03 mm	± 0.03 mm
TRUMPF CNC control	Bosch Rexroth MTX CMP70	Bosch Rexroth MTX CMP70
Programmable parts chute		
Max. part size	500 x 500 mm	500 x 500 mm
Space requirements^[3]		
Including safety barriers	5000 x 6500 mm	5800 x 7300 mm
Power consumption		
Average power consumption	5.9 kW	5.9 kW
Punching head	Electric	Electric

^[1] Up to 100 kg sheet weight.

^[2] Achievable workpiece accuracy depends on various factors, including workpiece type, its pretreatment, sheet size and position in the work area. In accordance with VDI/DGQ 3441. Measuring length 1 m.

^[3] Approximate values. Exact specifications can be found in the most recent installation plan.

^[4] With repositioning.

TRUMPF is certified according to ISO 9001:2008
(for additional information see www.trumpf.com/en/quality)

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