

Frame Solid welded steel construction designed using elemental analysis tools guarantees the highest stability for punching sheets up to 12,7 mm thick.



tioning accuracy and

1 3 5 



Open and easily surveyed panel includes digital control, cooling fan, transformers and control.

Industrial CPU with RS232 and Modem connection. As an option also available with expanded memory and USB or wireless LAN. U E



Control panel 10,5" TFT colour screen, ergonomically designed, it is adjustable and mounted on casters. Floppy disk drive, dual palm buttons, tool change position button, emergency-off. The powerful graphic and conversational software guarantees simple and fast programming. It is also available in a PC version.





Punching head rotation Index equipment and also stripper height adjustement



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-TRI-

Trumpf® standard tooling - easy handling - low cost - punch assembly mounts directly in the punch head without an adapter - long tool life long regrind length



PU stripper

### **Technical Data**

### Working area

TWIN / TRI	500x1000	560 x 1000 mm
TWIN / TRI	750x1500	810 x 1500 mm
TWIN / TRI	1000x2000	1060 x 2000 mm
TWIN / TRI	1250x2500	1310 x 2500 mm
TWIN / TRI	1500x3000	1560 x 3000 mm
TWIN / TRI	1250x2500	1310 x 2500 mm

#### Performance Max. sheet thickness

12,7 mm clamp opening/ Revotool 6 mm1 Max. sheet length 9999 mm by repositioning Max. hydraulic punching power 280 kN Max, workpiece weight 200 ka

### Speeds

Max. positioning speed X- axes 60 m/min Max. positioning speed Y- axes 30 m/min 67 m/min 250 strokes/min Simultaneous X & Y Max. strokes standard hydr. Max. strokes fast hydr. 800 strokes/min

## Toolings Trumpf® tooling system

Max. punching diameter Revotool Time of tool changing

105 mm or any shape within 105 mm 4 / 6 / 7 & 8 stations 2-4 sec. Revotool

15 sec. manual

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. / fast hydr.

### Axes accuracy during punching process

Positioning difference + - 0,05 mm + - 0.03 mm Repeatability

### Space requirement and weights<sup>2</sup>

TWIN / TRI weight	500x1000	4480 x 4088 x 2100 mm 7500 kg
TWIN / TRI weight	750x1500	5100 x 4713 x 2100 mm 11500 kg
TWIN / TRI weight	1000x2000	6100 x 5338 x 2100 mm 12500 kg
TWIN / TRI weight	1250x2500	7060 x 5963 x 2100 mm 14000 kg
TWIN / TRI weight	1500x3000	8060 x 6588 x 2100 mm 15800 kg

Electrical Values	standard hydr. / fas	
Electrical connecting value	20 / 25 kVA	
Hydraulic motor	4,8 / 11 kW	
Electrical consumption 2 mm sheet thickness		
continuous operation	4,9 / 7,7 kW/h	
Electrical consumption 4 mm sheet thickness		
continuous operation	5,4 / 8,75 kW/h	
Required fuse	3 x 25 A / 3 x 35 A	

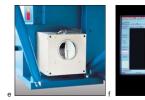
Pneumatic connecting value min. 4 bar Hydraulic oil 115 / 160 Liter

<sup>1</sup> Mild steel St 40/mm<sup>2</sup> <sup>2</sup> The exact values can b a can be found in each specific installation plan

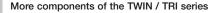












- a An L-sheet is provided with all machines for working very small pieces and pre-bent parts. (Standard)
- b The automatic tool lubrication serves to increase tool life when nibbling stainless steel (VA) and decreases edge burrs in aluminium

c Repositioning up to 10 meters and clamp movement without contacting the sheet. 2 robust clamps for sheets up to 200 kg (expandable to 4 clamps). Standard capacitiy up to 7 mm or 12,7 mm when required. (Standard)

d Sandblasted corrosion resistant surface as standard Balls in the table for heavier sheets and easy handling, brushes in the table for thin or scratch sensitive sheets are also available.

### e Vacuum slug removal

- f CNC/CAD software to import DXF-files into machine language, calculated punch time, graphic simulation
- g Nibbling up to 800 strokes / min with integrated oil cooling
- Programmable repositioning of the clamps for faster set up of the machine.
- i Tapping and drilling attachment for threads M3 up to M12 and smaller drilled holes in thicker sheets.
- j Marking apparatus for marking parts in 10 different fonts.
- k Punching power 400 kN







BOSCHERT 79523 Lörrach, Postfach 7042 Germany Telefon +49 7621 9593-0



# TWIN / TRI



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**Punching** Nibbling Forming Marking **Tapping** 







