BOSCHERT



TWIN / TRI

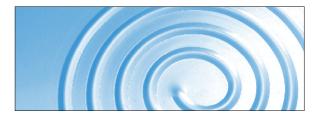
























TWIN / TRI



The TWIN/TRI series machines are equipped, respectively with two or three independent punch heads.

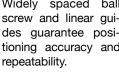
Either series can be equipped with Revotool, Boschert's multi-tool solution. Up to 16 tools in the TWIN series and up to 24 tools in the TRI series allow the working of complex parts without tool change.

A distinct advantage of all Boschert CNC punching machines is the user-friendly software. The heavy-duty, open C-frame design allows turning of oversized sheets. The powerful software suggests op-tions for automatic repositioning and turning/flipping of large parts



Solid welded steel construction designed using elemtental analysis tools guarantees the highest stability for punching sheets up to 12.7mm thick.

Robust construstion Widely spaced ball screw and linear guides guarantee positioning accuracy and







Electrical cabinet

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







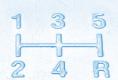


Control panel

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.











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Rotation Index

One of the heads in either series machine can be equipped with full 360 stepless rotation of all tools up to 105mm in diameter. Designed especially for rotation machines, a 7-position Revotool includes a 5mm x 30mm

parting tool thus allowing contouring, shaker parts, etc. In addition to the slitting tool, 6 posi-tions with a maximum diameter of 16 mm are accommodated.



Solid construction of the punch heads with DC motor and measuring system



Punching head rotation Index equipment and also stripper height adjustement





- easy handling
- low cos

Matritze Gr. 1

PU strippe

- punch assembly mounts directly in the punch head without an adapte
- long tool life
- long regrind length

Technical Data

Working area		
TWIN / TRI	500x1000	560x1000 mm
TWIN / TRI	750x1000	810x1500 mm
TWIN / TRI	1000x2000	1060x2000 mm
TWIN / TRI	1250x2000	1310x2500 mm

1500x3000

TWIN / TRI Performance

Max. sheet thickness	6,4 mm clamp opening /	
	4 mm Revotool ¹	
Max. sheet length	9999 mm by repositioning	
Max. hydraulic punching power	280kN	
Max. workpiece weight	200Ka	

1560x3000 mm

Speeds

Max. positioning speed

Time of tool changing

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

Toolings

Trumpf® tooling system	
Max. punching diameter	105 mm or any shape within 105 mm
Revotool	4 / 6 / 7 & 8 stations

2-4 sec. Revotool 15 sec. manual

standard hydr. / fast hydr.

Axes accuracy during punching process Positioning difference + - 0,05 mm Repeatability + - 0,03 mm

Space requirement and weights 2

		•
TWIN / TRI	500x1000	4480 x 4088 x 2100 mm
weight		7500 kg
TWIN / TRI	750x1500	5100 x 4713 x 2100 mm
weight		11500 kg

TWIN / TRI 1000x2000 6100 x 5338 x 2100 mm weight 12500 kg
TWIN / TRI 1250x2500 7060 x 5963 x 2100 mm

weight 14000 kg
TWIN / TRI 1500x3000 8060 x 6588 x 2100 mm

weightt 15800 kg

Electrical connecting value	20 / 25 kVA	
Hydraulic motor	4,8 / 11 kW	
Electrical consumption 2 mm sheet thicknes		

continuous operation 4,9 / 7,7 kW/h

Electrical consumption 4 mm sheet thicknes

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

Electrical Values









8-station up to max. Ø 16 mm

Special 6-station to work on copper bar up to 10 mm

¹ Mild steel St 40/mm²

² The exact values can be found in each specific installation plan

Weitere Komponenten der TWIN / TRI



An L-sheet is provided with all machines for working very small pieces and pre-bent parts. (Standard))



Nibbling up to 800 strokes / min with integrated oil cooling



Programmable repositioning of the Vacuum slug removal clamps for faster set up of the machine.





Tapping and drilling attachment for threads M3 up to M12 and smaller drilled holes in thicker sheet



The automatic tool lubrication serves to increase tool life when nibbling stainless steel (VA) and decreases edge burrs in aluminium



CNC/CAD software to import DXF-files into machine language, calculated punch time, graphic simulation



Marking apparatus for marking parts in 10 different fonts.





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Repositioning up to 10 meters and clamp movement wit-hout 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)rd)



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.