

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 heavyduty, open C-frame design allows turning of oversized sheets. The powerful software suggests options for automatic repositioning and turning/flipping of large parts.

With more than 60 years experience we can guarantee the Boschert quality users worldwide have come to expect.

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



construstion

Widely spaced ball screw and linear guides guarantee positioning accuracy and repeatability.



Electrical cabinet

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.



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.



Rotation Index

One of the heads in either series machine can be equipped with full 360 stepless rotation of all tools up to 105 mm 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 positions with a maximum diameter of 16 mm are accommodated.





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







Trumpf® standard tooling

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



















Index equipment and also stripper height adjustement

Punching head rotation









Tooling

Special 6-station to work on

7-station with 6x up to Ø 16 mm with cutting tool

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Working area

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

Speeds

Max. positioning speed

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

Trumpf® tooling system

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

Time of tool changing 2-4 sec. Revotool 15 sec. manual

Axes accuracy during punching process

Positioning difference + - 0,05 mm Repeatability + - 0,03 mm

Space requirement and weights²

TWIN / TRI 500x1000 4480 x 4088 x 2100 mm 7500 kg

5100 x 4713 x 2100 mm TWIN / TRI 750x1500

11500 kg weight

6100 x 5338 x 2100 mm TWIN / TRI 1000x2000

12500 kg weight

7060 x 5963 x 2100 mm TWIN / TRI 1250x2500

14000 kg weight

TWIN / TRI 1500x3000 8060 x 6588 x 2100 mm 15800 kg weight

Electrical Values standard hydr. / fast hydr.

Electrical connecting value 20 / 25 kVA 4.8 / 11 kW Hydraulic motor Electrical consumption 2 mm sheet thickness 4,9 / 7,7 kW/h continuous operation Electrical consumption 4 mm sheet thickness 5,4 / 8,75 kW/h continuous operation Required fuse 3 x 25 A / 3 x 35 A

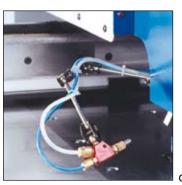
min. 4 bar Pneumatic connecting value Hydraulic oil 115 / 160 Liter

¹ Mild steel St 40/mm²

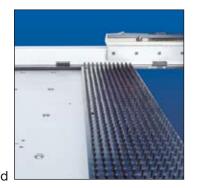
2 The exact values can be found in each specific installation plan

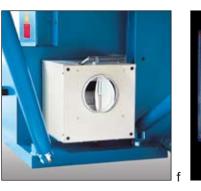












More components of the TWIN / TRI series

a An L-sheet is provided with all machines for working very

b The automatic tool lubrication serves to increase tool life

c Repositioning up to 10 meters and clamp movement wit-

hout contacting the sheet. 2 robust clamps for sheets

up to 7 mm or 12,7 mm when required. (Standard)

calculated punch time, graphic simulation

and smaller drilled holes in thicker sheets.

up to 200 kg (expandable to 4 clamps). Standard capacitiv

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.

f CNC/CAD software to import DXF-files into machine language,

g Nibbling up to 800 strokes / min with integrated oil cooling

i Tapping and drilling attachment for threads M3 up to M12

Marking apparatus for marking parts in 10 different fonts.

h Programmable repositioning of the clamps for faster set

when nibbling stainless steel (VA) and decreases

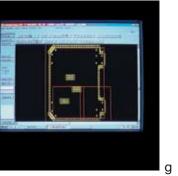
small pieces and pre-bent parts. (Standard)

edge burrs in aluminium

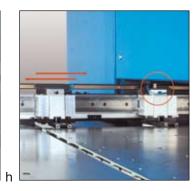
e Vacuum slug removal

up of the machine.

k Punching power 400 kN















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