









MULTIPUNCH 4020 Punching Nibbling Forming Marking





Multipunch 4020 tool changer

Special features

- Sheet size up to super format 2000 x 4000 m
- Tools up to Trumpf size 3 (Ø 105mm)
- Flexible forming from above and below (active die)
- · Stable "O" frame
- · 12-way auto tool changer
- Punching machine part chute up to 400 x 2000 mm

- · Fiber Laser cutting system up to 4KW can be combined



The new CNC punching machine **BOSCHERT** MultiPunch 4020 completes the proven MultiPunch series and is specially designed for the processing of sheets in the so-called super format of 2.000 x 4.000 millimeters.

With its universal punching head, the MP 4020 enables the user a flexibility and double-sided forming of sheet metal up to a sheet thickness of 6 mm. Up to 28 tons of punching force are available for this.

The newly developed O-frame gives it the necessary stability. The **BOSCHERT** MultiPunch 4020 is equipped with a quick twelve-station tool changer that reduces idle times. The machine can be expanded in many ways. For example, the

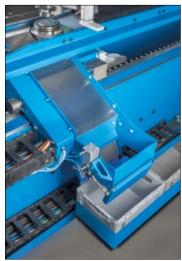
BOSCHERT MultiPunch 4020 can be equipped with a thread cutting unit or with a fiber laser with a maximum output of 4 kilowatts. This gives the user numerous other options for sheet metal processing.

Axis guiding x-axis



Servo geared motor with precision rack and pinion drive.

Part chute



Movable disposal for small parts with sorting function for 5 stacking trays.

O-Frame/Part chute



Solid welded steel construction guarantees the highest stability for punching sheets up to 12,7 mm thickness.

Part chute on the left up to part size 400 x 2000 mm.

A conveyor belt move the parts to the operator side

Electrical cabinet



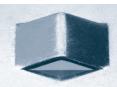
Open and easily surveyed panel includes digital control, cooling fan, transformers and control.

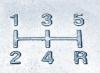
Industrial CPU



Control with internal memory, USB port and LAN RJ 45 for network connection. Possible remote maintenance by internet.









Rotation Index

360 degree stepless Rotation of all tools (incl. Revotool) up to a diameter of maximum 105 mm with 2 servo motors and pneumatic indexing.

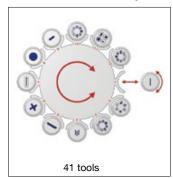


12 Tool stations with cassettes for automatic tool change with easy exchangeable cassettes for punch, stripper and die.

Tool change



Possible tool setup



The MultiPunch 4020 could change tools in 3-5 seconds. In combination with Revotool are also less than 3 seconds possible.

Trumpf® **Standard Tools**

All Trumpf standard tools up to size 3 can be used and also all **BOSCHERT** Revotools. Therefore the Multipunch could handle up to maximum 96 tools.



adjustment rings



Pu stripper punch

die size 1

· easy handling

- low cost
- · long tool life
- · long regrind length



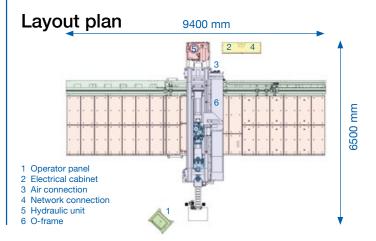




8-station up to max. Ø 16mm

Technical Data

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Working area	
Multipunch 4020	
Performance	
Max. sheet thickness	Choose material thickness clamps for either 7 mm (1/4") or 12,7 mm (1/2")
Revotool: 4 mm (5/32")	Max. sheet lenghts 9999 mm
	by repositioning
Max. hydraulic punching power	280 kN
Max. workpiece weight	400 Kg
Speeds	
Max. positioning speed	
X-axis	60 m/min
Max. positioning speed	
Y-axis	60 m/min
Simulaneous X & Y	85 m/min
Max. strokes HDE hydraulic	800 strokes/min
Tooling	
Trumpf tooling system	
Max. punching diameter	105 mm or any shape within 105 mm
Revotool	4/6/8 stations, shapes fitting
	within 25/20/16 mm
Time of tool changing	1-5 sec.
Axes accuracy during punching	ng process
Positioning difference	+ - 0,10 mm
Repeatability	+ - 0,03 mm
Space requirement and weigh	ts 1
Multipunch 4020	9.400 x 6.500 x 2.600 mm
Weight	18000 kg
Electrical values	
Electrical connection value	25 kVA
Hydraulic motor	15 kW
Electrical consumption 2 mn	n sheet thickness
Continuous operation	7,7 kW/h
Electrical consumption 4 mm	n sheet thickness
Continuous operation	8,75 kW/h
Required fuse	3 x 35 A
Pneumatic connection value	min. 4 bar
The exect values can be found in as -t	



The exact values can be found in each specific layout plan.













Option Fiber Laser

- Machine could be equipped with Laser as a CombiLaser machine
- Independent drive of Y-axis
- · Laser safety through safety cover
- 1 kW, 2 kW and 4 kW available
- Including suction unit





BG-Cut

BG-Cut produce depending on automatic or manual selection the processing contours with the required tools. After the machine program for the punching or laser machine has been created, a setup and processing report can be created.

BG-Cut:

- Direktimport von BG-Bend
- 2D Import and drawings
- Machine selection punch or laser
- Automatische sowie manuelle Werkzeug- oder Laserauswahl
- · Special tools
- · Manual nesting
- Automatic nesting (option Auto Nest)
- 2D simulation
- · Online capability
- Setup reports

BG-Cut Auto Nest: (Option)

Offers optimal material utilization with AutoNest - CNC automatic nesting module. AutoNest is a powerful True Shape nesting tool offering versatile methods for automatic and manual nesting to achieve the best possible nesting solutions.

1 BG-Soft enhanced your productivity:

- Faster design-to-production times with automated features
- · Offline programming means minimal machine down-time
- Collision-less bend sequences mean reduced stock wastage
- · Tool libraries are compatible to available tooling resulting in production-ready Setup reports
- · Technology report





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