

CuProfi CuMaster CNC-WP by Stierli-Bieger

Punching Nibbling Forming Marking Tapping Bending



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BOSCHERT CuProfi

The CUProfi is a specially designed machine for punching copper, aluminum and steel bar. The CUProfi is capable of using eight tools to process highly efficient and complete copper bars in lengths up to 4000 mm or 6000 mm and in thicknesses from 2 to 15 mm (optionally 20 mm).

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Moreover, the machine has a separating tool station (60 x 8 mm), and with this, it is possible to accurately cut the copper bars to the desired length. The copper bars may be 12-200 mm wide. The material is fed by clamps gripping the bar from each side, resulting in flat and straight parts with nearly no waste.



Feed table with rollers



Optional threading from M3 to M16. Three Easy tool change thread diameters can be in operation simultaneously.



It is important that the copper bars are clamped both in front and behind the punch head to avoid twisting and bending of the material. Finished parts are pulled to an unload table by the feed mechanisim. Short and/or long parts require no intermediate handling.





10,5" TFT color screen, ergonomically designed, is adjustable and mounted on casters. USB, dual palm bottons, tool change position button, emergency-off are all within easy reach. The powerful graphic and conversational software guarantees simple and fast programming. It is also available as a remote PC version



Tools of CU Profi: Beta V2, lead screw, thread holders, cutting tool 60x8 mm.





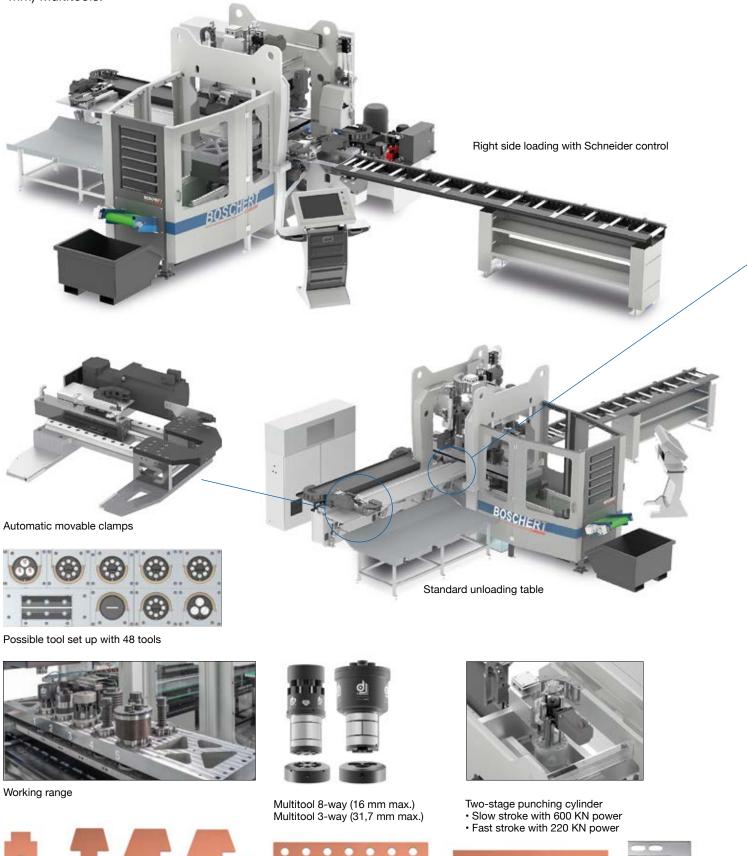






BOSCHERT CuMaster

With the CuMaster, **BOSCHERT** offers a universal solution for copper processing. This machine can punch copper up to 305mm wide and 20mm thick material. All 8 stations can be equipped with 8-way (D. 16 mm) or 3-way (D. 31.7 mm) Multitools. Additionally, the CuMaster could also have a 200x8 mm cutting station. The clamp width is automatically adjustable and can be moved on both sides in the X direction. This enables processing without a leftover piece.



Options



Unloading table with hinge conveyor and pusher



Small parts drop table

CUProfi and CuMaster marking unit: for labeling of finished parts



CUProfi and CuMaster loader. For automatic loading with pneumatic suction arms (4 oder 6 mm)



Up to 3 embossing cylinder with 60 KN power





	CuProfi	CuMaster		
Maximum dimensions of work pie	ce			
Length	4000 mm / 150"	4000 mm / 150"		
	(Option 6000 m	m / 240")		
Width	15-200 mm	15-305 mm		
	0.6-8"	0.6-12"		
Thickness	3-20 mm	3-20 mm		
	0.125-0.8"	0,125"-0,8"		
Punching force	1 x 400 KN	600 KN (60 ton)		
	(40 ton)	220 KN (22 ton)		
Speeds				
Max. axis	100 m/min	100 m/min		
Max. stroke per minute	100	120 (22 ton) 58 (60 ton)		
at 3 mm copper with 0,5 mm pitch				
Tooling	2 (2)	2		
Number of tool stations	8 (9)	8		
Max. Number of punching tools	8 (9)	64		
Tapping unit	yes	yes		
System Amada special				
Max. Diameter	31,7 mm (B) / 1.25" 50,8 mm (C) / 2.0"	88,9 mm / 3.5"		
Multitool 3-Stations with				
3 x 31,7 mm	no	yes		
Multitool 8-Stations with				
8 x 16 mm	no	yes		
Parting tool	60x8 mm	200x8 mm (opt.)		
LAN + USB	yes	yes		
Online Support	yes	yes		
Axes accuracy during punching p				
Positioning Accuracy	+ - 0,10 mm	+ - 0,10 mm		
	+ - 0.004"	+ - 0.004"		
Repeatability	+ - 0,05 mm	+ - 0,05 mm		
	+ - 0.002"	+ - 0.002"		
Space requirement and weights ¹				
Length	7000 mm / 24' 6" (9000 mm) / (29' 6")	8190 mm / 34' (10190 mm)		
W/idth	, , , ,	()		
Width	3000 mm / 10'	4775 mm		
Height	2100 mm / 7'	2364 mm		
Weight	4000 kg 13.200 lbs	12.000 kg 26400 lbs		
Electrical values				
Electrical connecting value	25 kVA	30 kVA		
Hydraulic motor	11 kW / 15 HP	11 kW / 15 HP		
Required fuse	3 x 35 A	3 x 35 A		
	35 Amp 3 phase	35 Amp 3 phase		
Pneumatic connecting value	4 bar / 60 psi	4 bar / 60 psi		
Hydraulic oil	160 Liter / 42 gal	160 Liter / 42 gal		
' The exact values can be found in each specific installat	ion plan.			





Stierli-Bieger Universal Bending Center

The Stierli-Bieger horizontal bender is a modern and powerful solution for the efficient fabrication of busbar.

The integrated angle correction automatically compensates for any spring back and differences in material, thus achieving extremely high precision and reliability. In addition to the measuring tools, many other tools including those for edgewise bending, offset bending and twist bending can be quickly and economically added.

Programming can be done at the machine with the simple yet powerful graphic control or by off-line systems used in conjunction with the Boschert punching systems.



YBRID Technology



Measuring vee-block with automatic angle correction and bending without marks.



Modern graphic touch-screen control with conversational programming and integrated library of common shapes.



Technical data

Working force: Tooling height: Bending capacity: CNC-length stop:

Measuring vee-block: Punch insert: Offset bending tools: Edgewise bending: Twist bending: Narrow section punch:

Programming:

Control features:

Connection/ Backup:

Hydraulic:

220 CNC-WP

420 CNC-WP

220 kN 150 mm 150 x 16 mm 1 m / 2m / 3m 420 kN 200 mm (250 mm) 200 x 16 (20) 1 m / 2m / 3m

up to thickness 20 mm up to thickness 20 mm up to thickness 25 mm up to thickness 30 mm 2 different systems available

60 x 10 mm100 x 10 mm60 x 10 mm100 x 10 mmHeight 150 mmHeight 200 mmSupport system upwards or rearwards

At the machine through graphic, conversation control or by programming system. 3D interfaces available for 3D EPLAN, Solidworks, AutoCad Inventor, etc.

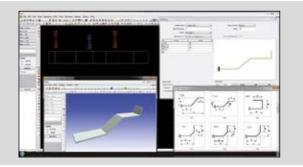
Graphic bending simulation, predefined shape library, material library, tool library, automatic calculation of length, automatic calculation of bending and length stop positions.

Ethernet interface + USB port

Most modern hybrid hydraulic reduces noise emissions and energy requirements.

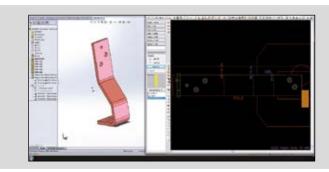


CNC / CAD Software



It is very easy to quickly program the Labod control on both the Boschert and Stierli machines.

Alternatively Boschert/Stierli offers CNC/CAD programming software from various different suppliers.



With these systems both the punching and bending machines can easily be programmed automatically from CAD files. Savings in time and material are significant.



Hydraulic Copper Shear CS

For the cutting of copper bars with no waste, the Boschert copper shears are perfect machines. Hold downs above and below the bar, minimal cutting angle and minimal clearance all add up to nearperfect cuts.

Cutting capacity:	7.875" x ½"; 200 mm x 12 mm Copper 6" x 0.59"; 150 mm x 15 mm Copper
Back Gauge Lengths:	0 – 40"; 0 – 1000 mm



BOSCHERT CU TWIST 120 NC

For production twisting of copper bars to exacting standards. The controlled rotation ensures high repeatability.

max. width:	4 ¾"; 120 mm
max. thickness:	1⁄2"; 12 mm
max. Length:	variable mm
min. twist length:	ca. 2 x material width
possible twist angle:	0 - 110°





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