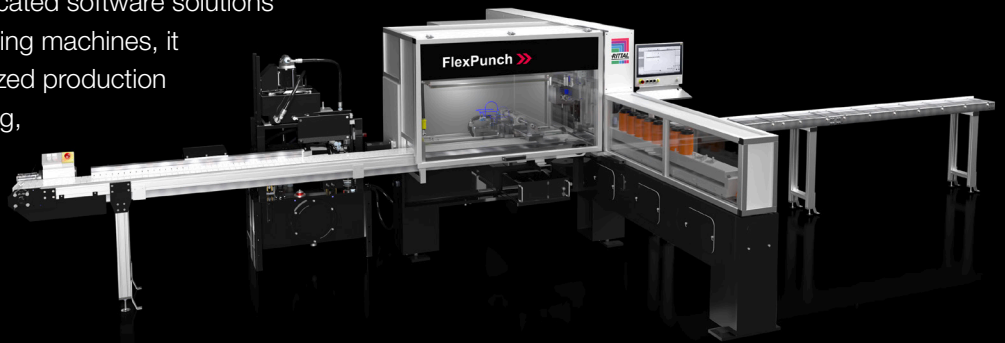


# Rittal – The System.

Faster – better – everywhere.

## FlexPunch Busbar Punching Machine

Featuring a modular design and three CNC-controlled axes, the Rittal Automation Systems (RAS) FlexPunch machine offers precise and efficient busbar punching capabilities, saving time and labor costs. Enhanced by dedicated software solutions and seamless integration with bending machines, it ensures a streamlined and customized production process. Functions include punching, countersinking, marking, thread forming, and cutting.



### What Can the FlexPunch Provide for You?

- **Precise, efficient, in-house busbar modification**, including punching, countersinking, marking, thread forming, and cutting with three CNC-controlled axes
- **Excellent time and labor savings** with automated component options for feeding and removal
- **Completely flexible, modular design** adaptable to specific customer requirements
- **Seamless integration** with bending machines for a streamlined workflow
- **Customized and smooth production flow** thanks to dedicated, user-friendly software
- **Minimal setup times** with quick and easy tool changes



See it in  
action here\*:

\*Note: EHRT and its machines are owned by Rittal and sold under Rittal Automation Systems.

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# FlexPunch Busbar Punching Machine

FlexPunch		
Weight, standard version	3800 kg / 8377.57 lbs	
Weight, accelerated version	4300 kg / 9479.88 lbs	
Length (incl. 4 m infeed roller table and belt conveyor)	7635 mm / 300.6 inch	
Width	4550 mm / 179.1 inch	
Height	1850 mm / 72.8 inch	
Environmental conditions		
Temperature	15 – 35°C / 59° – 95°F (without air condition)	
Max. relative humidity	60%	
Tool specifications		
Number of tool stations	10	
Tools	Punch tool:	SingleTool, MultiTool MT3x
	Tapping:	SingleTap
Shank diameter	Singletool:	32 mm / 1.26 inch
	MultiTool:	20 mm / 0.79 inch
Length of separating punch	Standard:	32 mm / 1.26 inch
	Special:	64 mm / 2.52 inch (for max. 10 mm / 0.4 inch material thickness)
Max. number of punch	28 (9 x MultiTool + sep. punch)	
Max. number of tapping tools	2	
Punch drive	Hydraulic	
Hydraulic oil	160 / 250 l	
Punch force	340 kN	
Max. punch pressure	280 bar	
Axis speed		
X (Gripper)	1333 mm/s / 51.5 inch/s	
Y (Tool station)	666 mm/s / 26.22 inch/s	
Z (Hydraulic cylinder)	666 mm/s / 26.22 inch/s	
Work piece dimensions		
Thickness	3 – 16 mm / 0.12 – 0.63 inch	
Width	15 – 200 mm / 0.59 – 7.87 inch	
Min. material length	Depending on the machine version:	
	Stop in the tool bar:	140 mm/5.5 inch
	Pneumatic stop, standard:	140 / 237 mm 5.5 / 9.3 inch
	Pneum. stop, hood over clamping table:	405 / 500 mm 15.9 / 19.7 inch
	Pneum. stop with sensor, hood over clamping table:	405 / 550 mm 15.9 / 21.7 inch
	Smaller values for stop in the tool bar with manually fed material (from PowerCut 3.8)	
Min. part length	20 mm / 0.79 inch	
Min. rest piece length	Standard:	50 mm / 1.97 inch
	Pneumatic downholder:	75 mm / 3 inch (E.g. with AML or gantry)

# FlexPunch Busbar Punching Machine

Machine control	
Control	Beckhoff TwinCAT
Machine PC	Beckhoff CX-5130
Processor	Intel Atom E3827, 1,75 GHz
Memory	RAM: 4 GB DDR3, HDD: 40 GB CFAST FLASH
Interfaces	2 x RJ45 10/100/1000 Mbit/s, 4 x USB 2.0, 1 x DVI-I
Operating system	Windows 10 IoT
Operating software	EHRT PowerCut
Electrical connection	
	<b>UL</b>
Voltage	460 V AC $\pm$ 10%
Frequency	60 Hz $\pm$ 1%
Electrical fuse protection	60 A
Electrical supply	3 phases, GND
Pneumatic connection	
Operating pressure	6 bar
Min. compressed air requirement	120 l/min
Quality class (ISO 8573-1)	class 5
Connecting hose	¼ inch
Operation	
Noise emission	< 82 dB(A)
Operating time	Continuous operation

# FlexPunch >>

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with Eplan ProPanel  
for the fastest results!

You can find the contact details of all  
Rittal companies throughout the world here.



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