



Drilling and Trepanning Machine TPM

The TPM machine is used for drilling and trepanning of discs and rounds in glass, ceramics and other hard and brittle materials. Depending on the type of the spindle, holes of $\varnothing 1 - 100\text{mm}$ are possible.

The basic machine includes three linear axes (X, Y, Z) and a belt-driven spindle with internal cooling. An optional HSK spindle is available, which can also be connected with a tool changer. The machine guarding that separates the working area with the movement area is made of stainless steel and guarantees a long life, as well as an easy to clean environment.

The drilling process is controlled by a precise measurement system, which allows the machine to adjust the maximum possible drilling speed as well as to have 100% process control. This leads to higher productivity and quality.

The dialog interface allows easy programming; customers not familiar with CNC machines will be able to operate the machine with minimal training. The machine is also equipped with an interface for ISO programming and modern communication (LAN, USB) plus state of the art CAM support is also included.

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The TPM trepanning machine is based on the modular machine concept from dama technologies ag. A wide range of options, such as tool measurement device, coolant pressure monitoring system, optical working control system and fixation plate etc. guarantees to match perfectly the required specifications.

Technical data TPM

X-axis	Traversing path Digital display Speed	470 mm 0,001 mm 0 – 3'000 mm/min
Y-axis	Traversing path Digital display Speed	200 mm 0,001 mm 0 – 3'000 mm/min
Z-axis	Traversing path Digital display Speed	400 mm 0,001 mm 0 – 1'000 mm/min
B-axis (optionally)	Swivel range Digital display	+/- 60° 0,001°
Workpiece table	600 x 300mm with 50mm grid	
Spindle	2.2 kW, programmable from 500 – 5'000 rpm	
Force measuring system (optionally)	0 – 50 (500) Newton for feed control for Z-axis	
Control	for X, Y, und Z-axis movement B&R PP520 - Touch screen as operator interface - Force indication optionally - Spindle load indication - Emergency stop B&R CNC control - Logic unit for 3 axes and 1 spindle - hand wheel	
Splashing protection	doors with window, complete stainless steel enclosure	
Dimensions	Length Width Height Weight	ca. 2'000 mm ca. 1'800 mm ca. 2'400 mm ca. 3'100 kg
Electrical connection	3x400V / 50Hz, 3L+N+PE / max. 32A	
Compressed air connection	6bar	
Colour	RAL 7035 / 3003	
CE-conformity	The machine complies with the European directives of the CE regulation	



TECHNICAL ALTERATIONS SUBJECT TO CHANGE