

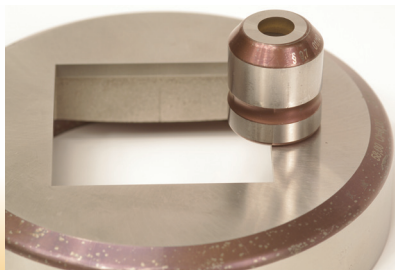


for impressive
performances



HACO Semi-automatic grinder

HACO TGQ - 1, 2





for impressive
performances

HACO Semi-automatic grinder TGQ - 1

HACO TGQ - 1 and 2 are used for sharpening Trumpf and thick turret style punch tooling. The design of semiautomatic grinder combines the advantages of automatic and manual grinders.

Advantages:

- grinding can be carried out immediately by the operator of the punching machine
- grinding in automatic mode eliminates influence of the human factor on the final quality
- effective internal cooling
- high quality grinding of the surface
- the usage of CN B wheels with long lifetime and without alignment
- compact performance
- minimum operating costs



HACO Semi-automatic grinder TGQ - 2

Advantages:

- grinding can be carried out immediately by the operator of the punching machine
- grinding in automatic mode eliminates influence of the human factor on the final quality
- effective internal cooling
- high quality grinding of the surface
- the usage of CN B wheels with long lifetime and without alignment
- compact performance
- minimum operating costs
- the speed of grinding is automatically driven by the size of the tool



The main benefits of timely grinding:

- lower wear and tear parts of punching machine
- lower costs for removing burr- deburring
- extending lifetime of tools- saving costs

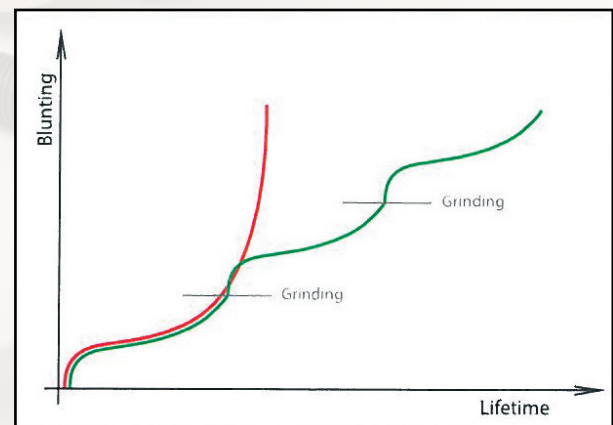


Technical parameters:

Machine type	HACO TGQ - 1		HACO TGQ - 2	
Dimensions:	Length	470 mm	Length	550 mm
	Width	450 mm	Width	500 mm
	Height	840 mm	Height	1010 mm
Weight		110 kg		115 kg
Nominal voltage	3/N/PE AC 400/230V		3/N/PE AC 400/230V	
Nominal frequency	50 Hz (60Hz)		50 Hz (60Hz)	
Nominal current	max. 2,2 A		max. 2,2 A	
Shielding degree	min. IP 54		min. IP 54	
Spindle speed	4 200/ min		4 200/ min	
Automatic cut size setting scale increments (approx.)	0,01 mm-per scale division		0,01 mm-per scale division	
Max die diameter	125 mm		152 mm	
Max die diameter	118 mm		208 mm	

The speed of the blunting of a particular tool depends on many factors (properties of materials, geometry and adjustment of tools etc.). The course of blunting tool is irregular and is shown in the chart (red curve).

After the first deburring of the edge, the tool lasts a long time with minimal blunting. However after exceeding the radius (about 0.5 to 1.0 mm) - the speed of blunting rapidly increases. Timely grinding can avoid this final phase of lunting and achieve an increased lifetime of tools, as shown in the chart (green curve).



TOOL GRINDING VIDEO

