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CTH|one



SONIX
ultrasonic precision

CTH|one



Description

son-x offers tool holders for machine tools and industrial robots in order to automate finishing processes like grinding, lapping and polishing which were conventionally performed manually. These processes can be integrated and implemented in available milling machines without additional effort.

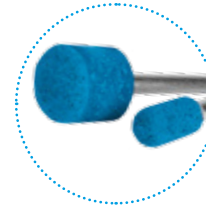


Designed, manufactured and assembled
in Germany

The sensitive, flexible suspension produces a constant, adjustable tool contact force. The flexibility compensates for referencing errors, thereby avoiding air cuts or excessive material removal. Hence reproducible manufacture according to the desired surface quality is realized.



HSK-
interface



individual
finishing process



defined
pressure

TECHNICAL SPECIFICATION

Spindle interface	HSK-A32 to 100, more on request
Force adjustment	Option 1: Air pressure (1-4 bar), Option 2: Pressure springs
Contact force	10-40 N
Recommended maximum speed	18.000 min ⁻¹
Maximum stroke	5 mm
Recommended strategy	Lead/Tilt +/- 0°...45°
Collet	3-6 mm

Application

The tool holder permits surfaces with tribological, fine mechanical and optical functions to be produced on complex tools and molds as well as functional surfaces on e.g. turbo-machine components. Milling marks and machining grooves can be eliminated in a reproducible way.

The range of applications extends from rough grinding to high-gloss polishing. Deburring, grinding, lapping and polishing tools are used.

Advantages

- Plug & Play solution for grinding and polishing on conventional milling machines
- Machine independent
- Easy and flexible contact force adjustment
- Programming with milling CAM software
- Technical advice and possible job shop by son-x