PfB 40S: A NEW 5-AXIS CNC Brushing Machine

Efficient and reliable polishing and honing

A New Generation of CNC Brushing Equipment
- Highest productivity and reliability
- Automated measurement of tool geometry
- Tools up to 400mm long and 32mm diameter
- Very quick and easy tool change
- Easy brush exchange
- Fully automated
- Plug 'n play
- Very low running cost

Increase your Competitiveness!

Custom Brushing machines, special brushes (e.g. diamond) available. Machine with auto loader available shortly. We manufacture custom solutions and provide turnkey operations.
CNC Brushing is the most efficient and most reliable technology for tool polishing.

5-Axis CNC Brushing Machine
- Vertical axis for different tool lengths
- Horizontal axis for different tool diameters and pressure on the brushes
- Turning axis for different angle of the flute
- Rotating tools for consistent brushing results
- Indexing tool holder plate for 40 tools in one cycle
- Variable brushing speed in a wide adjustment range from 200 up to 2500 rpm, due to a servo motor with constant high torque

Process variables
- Tool Diameter 3 - 32 mm
- Tool lengths up to 400 mm
- Cycle time 20 sec / tool, 10-15 min per batch, about 800 -1000 tools per shift
- Automatic tool measurement system for diameter and length
- All axis including speed control and multi-turn encoder
- Live time control of the brushes
- Simple and fast loading and unloading of the machine
- 15’ touch screen for an easy operation
- Integrated dust extraction
- Automatic safety system
- Pre-loaded with standard recipes for drills, end mills, and reamers
- Minimal maintenance required
- Silent
- CE and UL conform
- Electrical connection 32 A / 3P 380 – 500 V

Polishing
- Improve the surface roughness by removing coating droplets
- Polish carbide tools prior to finish grinding
- Avoid build-up edge for machining of soft materials
- Achieve improved chip formation and chip flow

PerformCoat offers brushes for any application

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