HELITRONIC MINI AUTOMATION

High volume production of tools with diameters from 1 mm up to 16 mm

Key parameters

The 5-axis CNC HELITRONIC MINI AUTOMATION tool grinding machine is the first choice in the HELITRONIC family when it comes to the highest productivity and quality expectations in volume production. For rotationally symmetrical tools and production components with maximum flexibility.
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Technical data

- Linear axes X, Y, Z with ball screw
- Rotational axis A with torque motor
- Rotational axis C with worm drive
- Continuously variable grinding spindle drive
- Max. peak power: 9 kW
- Speed adjustable: 0 – 10,500 rpm
- Grinding spindle diameter: 70 mm
- Max. grinding wheel diameter: 150 mm
- Torque motor: 750 rpm
- Tape filter unit: 350 l

Tool data

1) The maximum tool dimensions depend on the type of tool and its geometry, as well as the type of machining.
2) From the theoretical taper diameter of the workpiece holder.

Application

Especially developed for the high volume production of milling cutters, drills, stepped drill bits, multi-step tools, wood-machining tools, profile tools, etc. with a diameter of 1 mm up to 16 mm, made out of carbide, HSS, ceramic, cermet or CBN.

Options

- Various clamping systems based on spring tensioning system
- Manual and automatic support steady
- Manual and automatic tailstock
- Extension for robot loader for four additional pallets for up to 2,000 tools (= total of 3,500 tools)
- Pallets, fire extinguishing system, vapour separator, silencer, etc.

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