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.
HELITRONIC MINI AUTOMATION

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.

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

Diameter for regrinding Starting at 3 mm
Diameter for production 1 – 16 mm
Diameter during complete processing ≤ 100 mm
Max. complete processing tool length 185 mm
Max. peripheral grinding tool length 255 mm
Max. end face grinding tool length 185 mm

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.

Please contact us for further information:
Walter Maschinenbau GmbH
Jopestr. 5 · 72072 Tübingen, Germany
Tel. +49 7071 9393-0 · Fax +49 7071 9393-695
info@walter-machines.com