

WALTER INFO 5/2020

# HELITRONIC MINI AUTOMATION

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

**NEW**  
HELITRONIC MINI  
AUTOMATION for  
volume production



## 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

## HELITRONIC MINI AUTOMATION

- Machine base in solid grey cast iron, gantry type construction
- Double-ended grinding spindle, NCT cone with flat contact surface
- Up to three grinding wheels for each spindle end
- Robot loader for max. 1,500 tools (pallets not included)
- Automatic clamping cylinder
- Software: HELITRONIC TOOL STUDIO and WWM (P1, P2, P3)
- Workpiece carrier with torque motor and face contact (without ISO 50)

## 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 <sup>1)</sup>

Diameter for regrinding Starting at 3 mm

Diameter for production 1–16 mm

Diameter during complete processing ≤ 100 mm

Max. complete processing tool length <sup>2)</sup> 185 mm

Max. peripheral grinding tool length <sup>2)</sup> 255 mm

Max. end face grinding tool length <sup>2)</sup> 185 mm

<sup>1)</sup> The maximum tool dimensions depend on the type of tool and its geometry, as well as the type of machining.

<sup>2)</sup> 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.

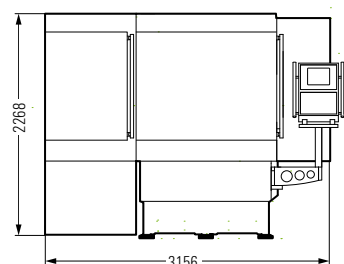
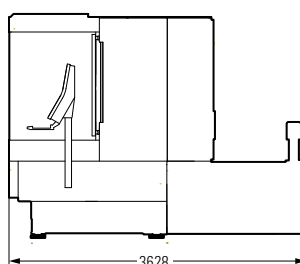
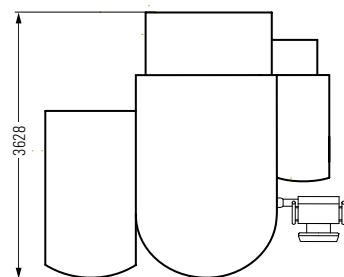
### Please contact us for further information:

Walter Maschinenbau GmbH

Jopestr. 5 · 72072 Tübingen, Germany

Tel. +49 7071 9393-0 · Fax +49 7071 9393-695

info@walter-machines.com



HELITRONIC MINI AUTOMATION (Dimensions in mm)

