

WALTER INFO 6/2014

HELITRONIC ESSENTIAL

Economic tool grinding from 1 – 100 mm Ø
and up to a total length of 255 mm



Key parameters

The 5-axis CNC tool grinding machine HELITRONIC ESSENTIAL is the first choice in the HELITRONIC family when it comes to the flexible regrinding and production of rotationally symmetrical tools and production components in the above-mentioned dimension range. Its productivity is unrivalled here.

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Technical data

Machine bed in solid grey cast iron, gantry type construction	
Ball screw in X, Y, Z	
Worm drives in A, C	
Absolute encoder, no limit switch on the axes	
Continuously variable grinding spindle drive with digital AC servomotor:	
Max. peak power	9 kW
Speed adjustable	0–10,500 rpm
Grinding head:	
Double-ended grinding spindle, NCT cone with flat contact surface; up to three grinding wheels for each spindle end	
Grinding spindle diameter	70 mm
Max. grinding wheel diameter	150 mm

Tool data ¹⁾

Diameter for regrinding	≥ 3 mm
Diameter for production	≥ 1 mm
Diameter during complete processing	≤ 100 mm
Max. complete processing tool length ²⁾	185 mm
Max. peripheral grinding tool length ²⁾	255 mm
Max. end face grinding tool length ²⁾	185 mm

Options

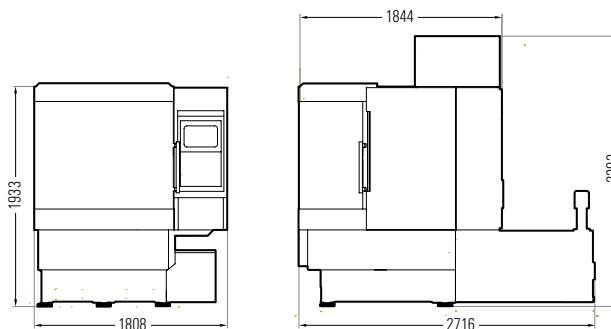
- Automatic clamping cylinder with clamping device for tools with ISO50 cone DIN 69871 und pull stud DIN 69872
- Manual tool supports such as steady rest and tailstock for precise grinding of long tools

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:

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HELITRONIC ESSENTIAL (Dimensions in mm)

