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.
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
- Top loader: Up to 500 3) tools from diameter 1 mm to 16 mm

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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.
3) Depending on tool diameter.

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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