
WALTER
HELITRONIC G 200

WALTER HELITRONIC G 200

CONTENT

WALTER

HELITRONIC G 200 – KEY FEATURES

The HELITRONIC G 200 enables the grinding and re-sharpening of small and medium diameter tools for the metal and wood industries in a single clamping.

It is suitable for the production and regrinding of rotary tools with diameters ranging from 1 to 125 mm. Tools up to 235 mm in length and weighing up to 12 kg per piece can be machined.

The ergonomic design and the integrated, swing-out multifunction touchpad with 21.5" screen simplify operation. The low-vibration bed made of mineral castings guarantees excellent grinding accuracy.

The HELITRONIC G 200 impresses with its grinding quality and its footprint of less than 2.3 m^2. It is the ideal machine choice when space is limited.

HELITRONIC G 200 – KEY FEATURES

Mineral cast machine bed

The excellent dampening behavior of the machine base ensures outstanding surface quality of the ground parts. The service life of the grinding wheel is also increased, leading to reduced downtime.

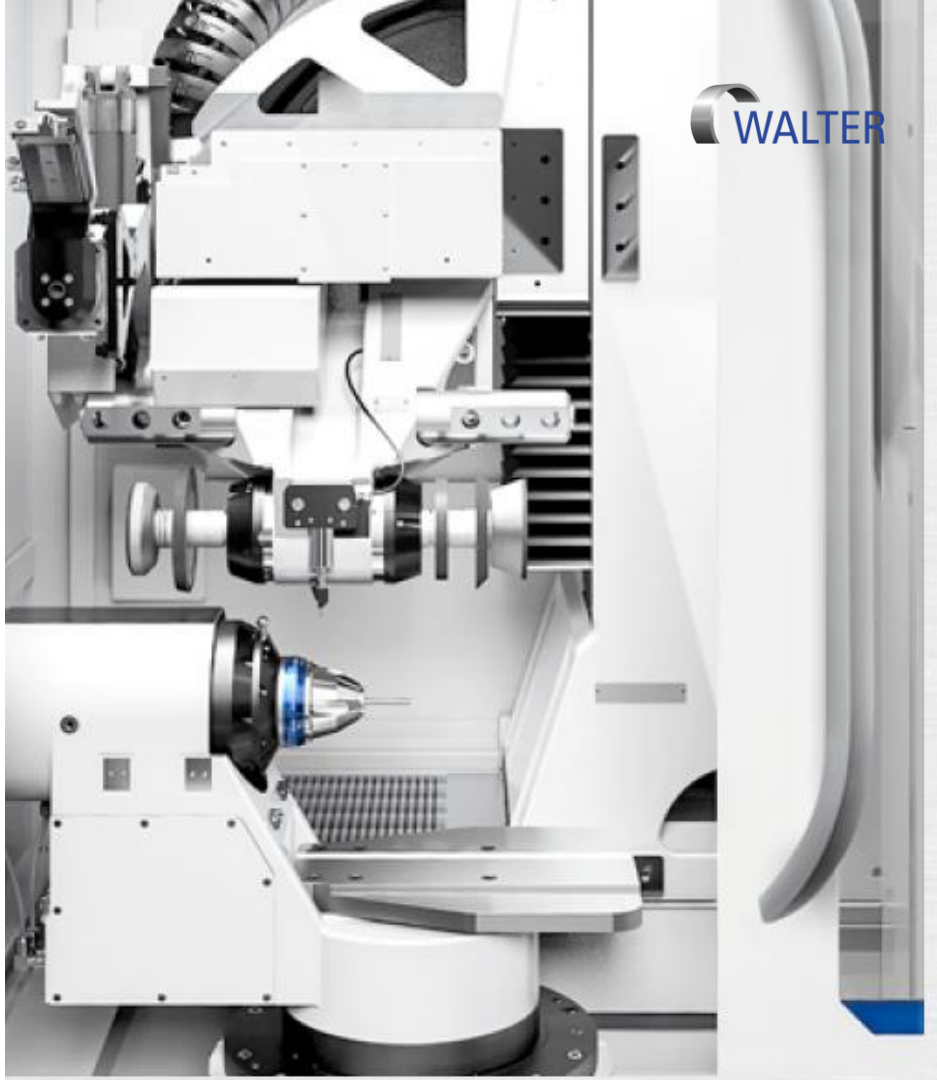
Temporary temperature fluctuations are extensively compensated by the favorable thermal behavior of mineral cast. This provides high stability throughout the day.

HELITRONIC G 200 – KEY FEATURES

Mineral cast C-Frame

The mineral casting column design with its high weight and extreme rigidity converts the high dynamics of the digital drives into grinding precision with low vibration.

Temporary temperature fluctuations are extensively compensated by the favorable thermal behavior of mineral cast.



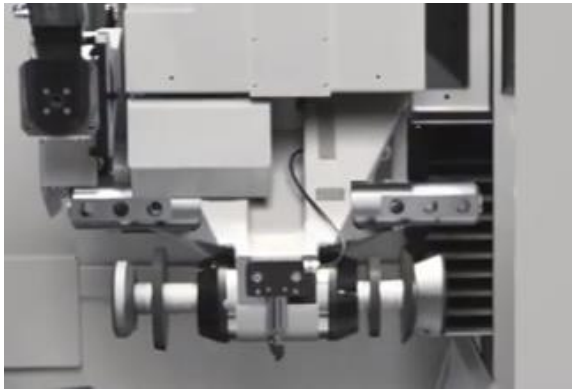
HELITRONIC G 200 – KEY FEATURES

X, Y, Z linear axes

- Preloaded ball screw
- Resolution 0.0001 mm
- Rapid traverse speed max. 15 m/min.

A, C rotary axes

- Hollow shaft motor
- Resolution 0.0001°
- A-axis speed range 0 – 750 rpm



Belt driven spindle

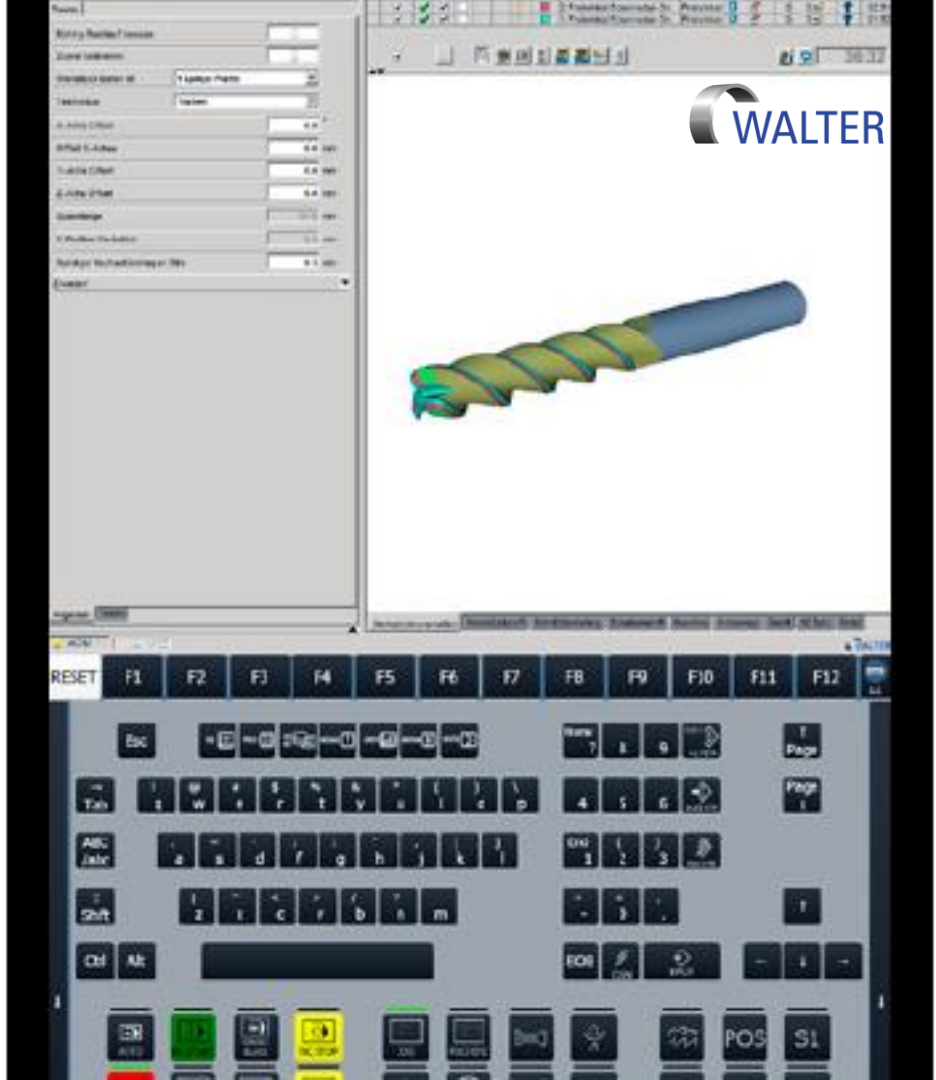
- 2 spindle ends
- Grinding wheel dia. 150mm max.
- Up to 6 grinding wheels

HELITRONIC G 200 – KEY FEATURES

HELITRONIC TOOL STUDIO is the WALTER way to the perfect tool. Using the method of “What you see is what you grind”, just a few mouse clicks are all that separate the user from producing the perfect precision tool: Design, programming, simulation and production.

The operator can quickly find the tool type, the parameters to be entered and the tool by using the assistant. WALTER provides program packages for all standard tool families, which makes handling significantly easier.

With the FANUC control unit, WALTER relies on a global standard of control technology. For the user, this means the highest degree of reliability, availability and operating comfort.



CONTENT

HELITRONIC G 200 – OPTIONS

Top loader automation for lights-out production

Space-saving and cost-effective automation solution is integrated directly into the machine housing.

Featuring an automatic teaching capability, setup times are reduced to a minimum.

Capacity examples

– diameter 3 mm: 500 tools

– diameter 10 mm: 99 tools

– diameter 16 mm: 42 tools

HELITRONIC G 200 – OPTIONS

Clamping system (without ISO 50 cone)

High-precision automatic clamping system W15 Ø1mm –Ø12,7mm

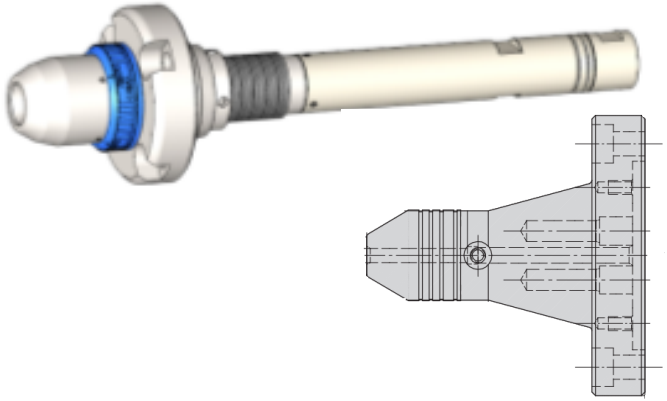
High-precision automatic clamping system W20 Ø1mm –Ø16mm

Adjustable chuck Viper S

Manual Hydraulic Chuck with flat matching surface

D20 - Ø3 mm to Ø20 mm

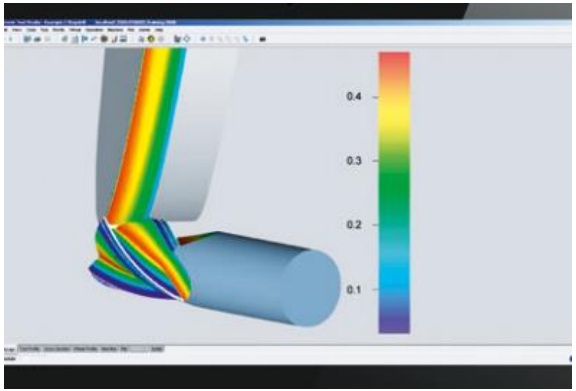
D32 – Ø6mm – Ø32mm



HELITRONIC G 200 – OPTIONS

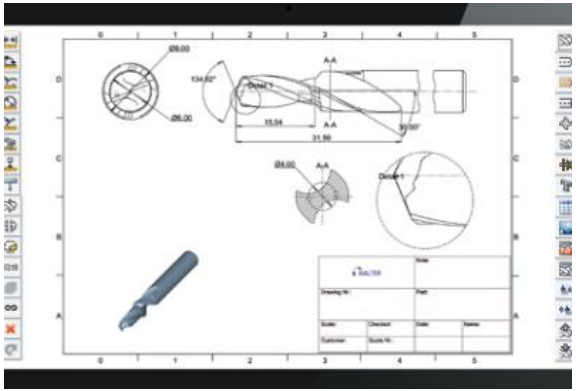
AEMDM

- Maximum precision of measurement results
- Significant time savings
- Eliminates errors



Feed rate optimizer

- Up to 30 % time saved
- Optimum feed rate
- Optimize existing IDNs



Sketcher

- High ease of operation and time saving with minimal training requirements
- Import or export of DXF files

CONTENT

HELITRONIC G 200 – TECHNICAL DATA

Mechanical axes

X axis	305 mm
Y axis	218 mm
Z axis	475 mm
Rapid traverse speed X, Y, Z	max. 15 m/min
C axis	+ 200°/- 110°
A axis	∞
Linear resolution	0.0001 mm
Radial resolution	0.0001°

Grinding spindle drive

Max. grinding wheel diameter	150 mm
Grinding spindle speed	0 – 10,500 min^{-1}

HELITRONIC G 200 with belt-driven spindle

Spindle ends	2
Tool holder	HSK 50
Peak power	9 kW
Diameter of spindle	80 mm

Others

Weight of machine including coolant system	approx. 4,200 kg
Connected value at 400 V/50 Hz	approx. 20 kVA

Tool data[1)]

Min. tool diameter for production/regrinding	1 mm/3 mm
Max. tool diameter for production/regrinding	16 mm/125 mm
Max. workpiece length of peripheral grinding[2)]	235 mm
Max. workpiece length of face grinding[2)]	195 mm
Max. workpiece weight	12 kg

Options

Automation options

Top loader

Coolant system

On request – several types are possible

Others

Software, various clamping systems based on a spring tension system, fire-extinguishing units, mist and vapour separator, automatic, electrical measurement of the machine reference, etc.

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 work piece holder.

CONTENT

WALTER

CONTACT

United Grinding GmbH

India Branch Office & Technology Center
487, D1 & D2A, 4th Phase - KIADB Main Road
Peenya Industrial area - 560 058 - Bangalore – India

Tel. +91 63665 75730

dhanalakshmi.h@grinding.ch

www.grinding.ch