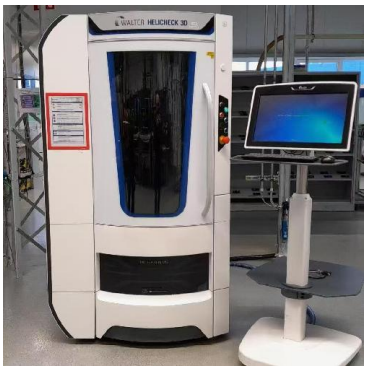
Machine Name : Vertical tool pre-alignment device

Brand : Walter

Machine Model : Helicheck 3D

Stock No. : 812345

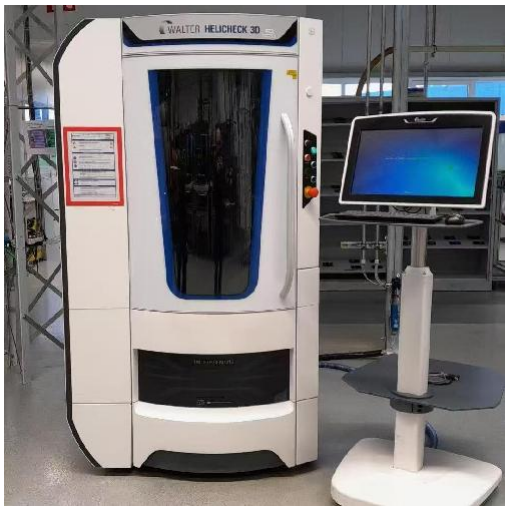
Ex-factory Date : 2018

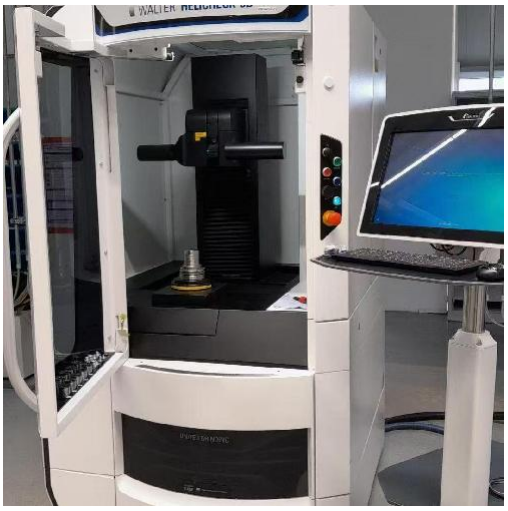


Main Technical Parameters:

Axis Travel
X-Axis: 270 mm
Y-Axis: 455 mm
Z-Axis: 325 mm
A-Axis: 360°
Accuracy
E1 Value: E1 = (1.8 + L/300) µm
Diameter Measurement / Length Measurement
Repeatability: ≤ 1.5 µm (HELICHECK ADVANCED only)
Linear Axis Position Resolution (Y, Z): 0.02 µm
Rotary Axis Position Resolution (A): approx. 1″ (HELICHECK ADVANCED only)
Measurement Resolution: 0.25 µm
Magnification
Backlit Camera: 50× (optional 100×) (HELICHECK ADVANCED only)
Front Light Camera: 100× (HELICHECK ADVANCED only)
Top Light Camera: 100× (HELICHECK ADVANCED only)
Other Parameters
Connected Load: 1.5 kVA
Power Consumption (230 V / 50 Hz): 1.5 kVA
Operating Voltage: 110–240 V (50 Hz / 60 Hz)
Weight
Net Weight (excluding optional items): approx. 1,200 kg
Tool Data
Maximum Diameter: 320 mm
Diameter (Caliper Principle): 100 mm (HELICHECK ADVANCED)
Maximum Length: 420 mm
Maximum Weight: 25 kg

PamtonSchnell





Technical data, dimensions

Axes

X axis	270 mm
Y axis	420 mm
Z axis	335 mm
C axis	360°

Accuracy

C value	E = (1.8 + L/200) µm
Diameter, moment, length measurement[1]	≤ 2 µm
Position accuracy (only with HELICHECK ADVANCED)		
Position resolution of all linear axes X, Z	0.01 µm
Position resolution of rotation axis C (only with HELICHECK ADVANCED)	as good as possible
Measurement uncertainty	0.5 µm

Magnification[1]

Axial light camera	50x
(only with CLOUD COX ADVANCED)	optional 100x
Front light camera	100x
(only with CLOUD COX ADVANCED)	
Top light camera	100x
(only with CLOUD COX ADVANCED)	

Others

Connected load

Power consumption at 230 V/50 Hz	3.5 kVA
Operating voltage	100 V – 240 V (50 Hz and 60 Hz)

Weight

Net weight (without options)	approx. 1,200 kg

Tool data

Max. diameter	320 mm
Diameter for gripper groove	
With HELICHECK ADVANCED	100 mm
Max. length[2]	220 mm
Max. weight	25 kg

Options for HELICHECK ADVANCED

- Fully automatic tool change with light camera and 100x magnification
- Work stations (monitor, keyboard) are included in the scope of supply of the machine
- Change optics
- Power supply 400 V
- Illuminated foldable 3D body clamping device for up to 100 mm
- Interfaces to HELITRONIC grinding machines: Wheel Data Connect, Tool Room Interface and other interfaces upon request

Options for HELICHECK 3D

- Work stations (monitor, keyboard) are included in the scope of supply of the machine
- Change optics
- Power supply 400 V
- Interfaces to HELITRONIC grinding machines: Wheel Data Connect, Tool Room Interface and other interfaces upon request

