WALTER INFO 4/2018

PRECISION CLAMPING EQUIPMENT µGrind

for HELITRONIC tool grinding machines
and HELICHECK measuring machines

The new dimension in precision

Key parameters

The quality of a produced tool depends on many factors – one of the most important of these, besides having a high-performance tool grinding or measuring machine itself, is the selection of the correct clamping equipment.

WALTER

µGrind series – the new dimension in precision

The µGrind series was developed by our cooperation partner GDS and is an innovation in the area of precision clamping equipment for tool grinding and measuring machines. Thanks to the adjustability of the axial concentricity error, in connection with the compensation for the wobble error, the µGrind series achieves a new dimension in precision.

The result is optimum geometries, unchanging surface quality on the workpiece and shape and dimensional accuracy on the tool cutting edge. The µ-exact alignment is carried out using two gauges in only a few minutes, with absolute repeatability, not only when changing blanks but also when changing collets.

Your benefits

- Reduced interfering contours for optimum interference between grinding wheel and toolholder
- Very high runout and repetition accuracy < 0.002 mm (shank)
- Wobble adjustment
- Adjustable runout
- Flexible clamping area through collets
- Very low clamping depth of the blank with unchanging holding force and runout accuracy
- Excellent dampening properties
- Very low wear on the grinding wheel
- Sustainable through inexpensive general overhaul and repair options

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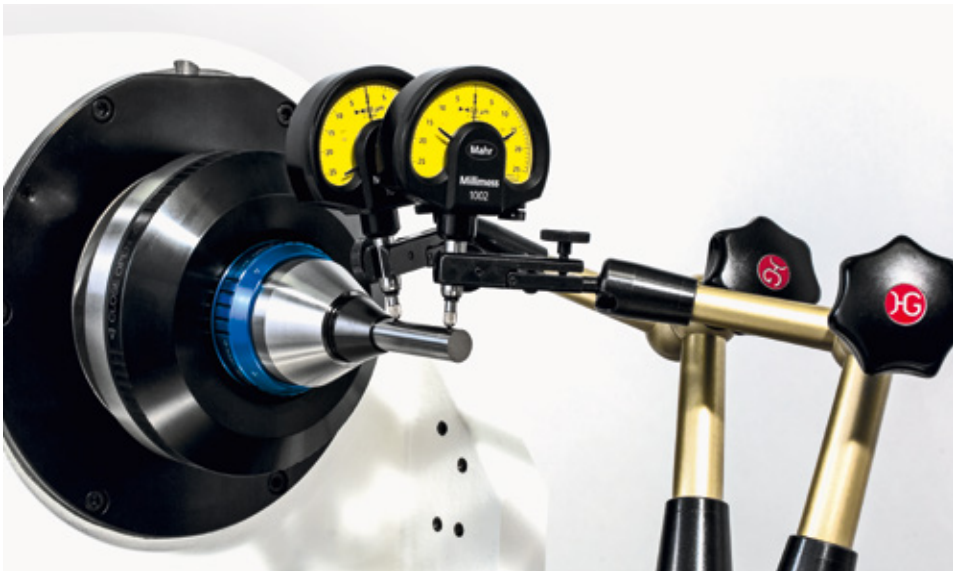
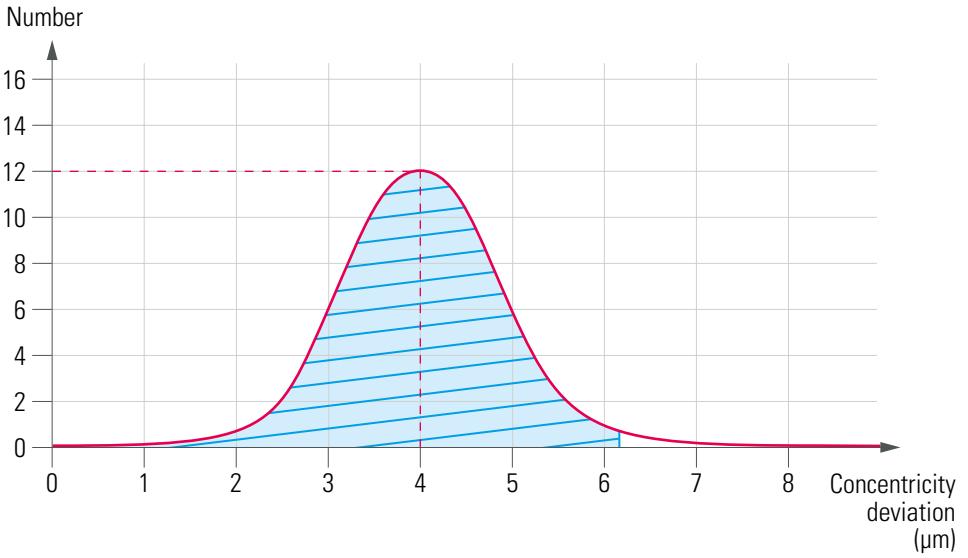




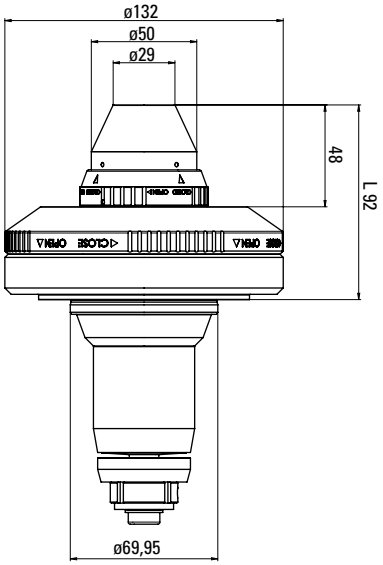
At WALTER, internal runout tests have been carried out on a HELITRONIC MINI AUTOMATION on tools with a diameter of 6 mm. The in-feed for this purpose was carried out not only via loading system but also manually (50x repetition of grinding). The runout was determined on the face of the tool.

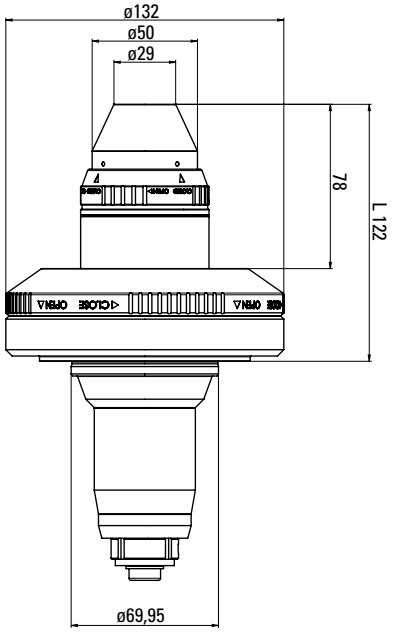
Based on these tests, it was found that an average run-out accuracy of 4 µm was achieved. The largest measured runout deviation was 6.2 µm.

1 Runout tests on a HELITRONIC MINI AUTOMATION on tools with a diameter of 6 mm

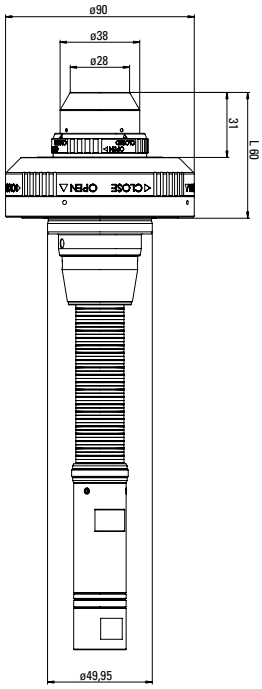
Clamping equipment and clamping sleeves of the µGrind series

Clamping equipment* µGrind HPS20 / HPS20 L for
HELITRONIC ESSENTIAL, HELITRONIC MINI POWER, HELITRONIC POWER, HELITRONIC VISION 400 L and the HELICHECK-series





Clamping equipment* µGrind HPS Mini for
HELITRONIC MINI AUTOMATION



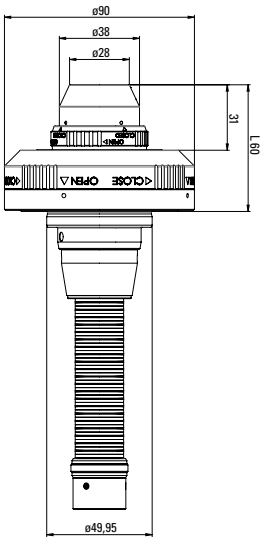
* Delivery including case with actuating pushrod, adjustment hammer, wrench, USB flash drive with instructions

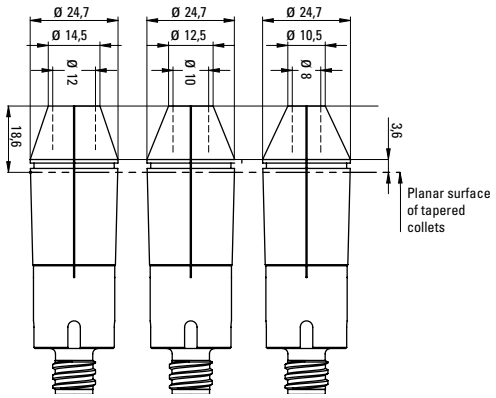
1 Clamping equipment µGrind HPS20

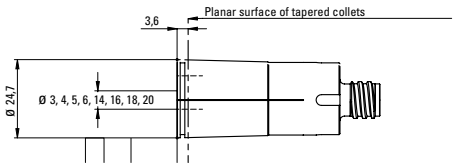
2 Clamping equipment µGrind HPS20 L

Clamping equipment*µGrind HPS Micro for
HELITRONIC MICRO

Clamping sleeves of the µGrind series for
all clamping equipment







Request a quote

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Fax +49 7071 9393-695
info@walter-machines.com

Please send me a non-binding offer for …

Clamping equipment µGrind

Name	D [mm]	L [mm]	Order no.	Number
µGrind HPS 20	69,95	92	30050374	
µGrind HPS 20 L	69,95	122	30050375	
µGrind HPS Mini	49,95	60	30052486	
µGrind HPS Micro	49,95	60	30052488	

Clamping sleeves µGrind

Name	D [mm]	Model	Order no.	Number
GDS Clamping sleeve 20	3	Flat	30050376	
GDS Clamping sleeve 20	4	Flat	30050377	
GDS Clamping sleeve 20	5	Flat	30050378	
GDS Clamping sleeve 20	6	Flat	30050379	
GDS Clamping sleeve 20K	8	Flat	30053150	
GDS Clamping sleeve 20K	8	Conical	30050390	
GDS Clamping sleeve 20K	10	Flat	30053151	
GDS Clamping sleeve 20K	10	Conical	30050391	
GDS Clamping sleeve 20K	12	Flat	30053152	
GDS Clamping sleeve 20K	12	Conical	30050393	
GDS Clamping sleeve 20	14	Flat	30050394	
GDS Clamping sleeve 20	16	Flat	30050395	
GDS Clamping sleeve 20	18	Flat	30050396	
GDS Clamping sleeve 20	20	Flat	30050398	

Your contact data

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Your message

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Alliance Member
Partner of the Engineering Industry Sustainability Initiative

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