

DESIGNED FOR  
PRODUCTION-ORIENTED USE.

## ATORN easy 3D

3D coordinate measuring instrument



HAHN+KOLB  
GROUP



LET'S WORK TOGETHER.



easy3D

# DESIGNED FOR PRODUCTION-ORIENTED USE.

3D MEASUREMENT OF COMPONENTS WITH STANDARD GEOMETRIES.

## OVERVIEW OF ADVANTAGES

- Perfect for simple measurement of components with standard geometries
- Intuitive METLOGIX M3 software with finger gesture control
- Convenient and ergonomic operation via joystick
- Indexable RENISHAW MH-20i probe head for optimal workpiece accessibility
- High-quality RENISHAW measuring system
- No compressed air requirement, therefore can be deployed almost anywhere in the production area
- Forklift truck/pallet truck clearance, passive vibration-damped base frame

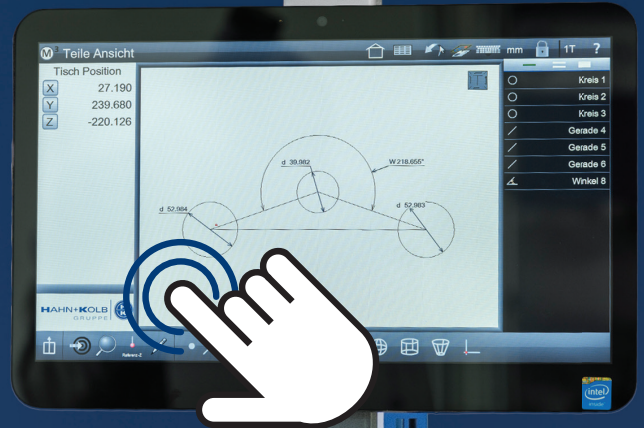




# MODERN SOFTWARE WITH GESTURE CONTROL

## Tap, swipe and spread

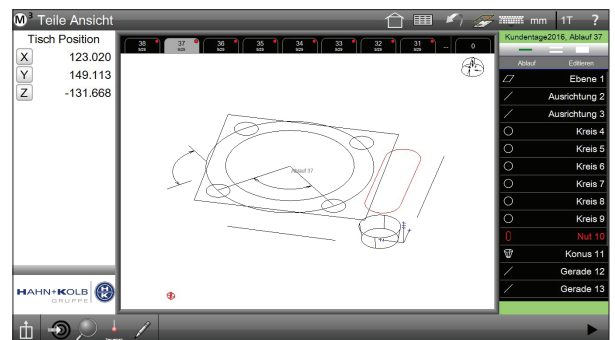
- All functions can be controlled comfortably via finger gestures
- Zoom and rotate the elements in the detail view
- Additional functions via extended tapping on windows and buttons
- Metlogix M3 software, familiar from optical measuring technology



# SIMPLE AND SMART MEASUREMENT

## MetLogix M3-taktil measurement and analysis software

- Fast measurement of standard geometries via joystick
- Simple measurement program creation in teach-in
- User-friendly, intuitive software interface
- Clearly designed geometry functions
- Palletising function for the measurement of several similar components
- Can be operated by touch as well as via keyboard and mouse
- Low training outlay and saves costs



# OPTIMAL PROBING

## Enormous time savings when probing elements

- Element is captured with low number of touch points required, for example with three touch points in the circuit element. The desired number of touch points can be freely defined using the function "Define number of touch points".
- The program calculates the optimal probe directions depending on the number of touch points
- Ideal for the detection of shape and positional tolerances such as the roundness of a hole, etc.



# INFORMATION-RICH MEASUREMENT LOG CREATION

## Individual and clear

- Individual measurement log creation with dimensioned component view
- Clear display of measured values with trend display
- Tolerance test according to DIN/ ISO
- Various statistical functions for selection
- Data export to CSV, TXT and DXF format

Nr.	Element	Koef.	Substanz	Wert	Tol.	Tol.	Abw.	Tendenz
0	Ebene 1	Ø		0.000°				
0	Ausrichtung 2	X		0.163				
0	Ausrichtung 2	Y		62.925				
0	Ausrichtung 2	W		88.933°				
0	Ausrichtung 2	X		57.542				
0	Ausrichtung 2	Y		0.000				
0	Ausrichtung 2	W		0.000°				
0	Kreis 4	X	60.344	60.344	0.100	0.100	0.044	→
0	Kreis 4	R	32.173	32.173				
0	Kreis 4	d	64.346	64.346	0.100	0.100	0.046	→
0	Kreis 5	X	88.875	88.875				
0	Kreis 5	Y	43.145	43.145				
0	Kreis 5	R	6.018	6.018				
0	Kreis 5	d	12.036	12.036				

## SERVICE AND MAINTENANCE

### Worldwide guarantee

- Installation, commissioning and acceptance by L&W Gesellschaft für Fertigungsmesstechnik und Qualitätssicherung mbH
- DAkkS Calibration Laboratory D-K-17059-01-00 and D-K-17059-02-00
- On-site instruction and training by qualified personnel
- Partner for maintenance contracts



## JOYSTICK

### Simple and convenient operation

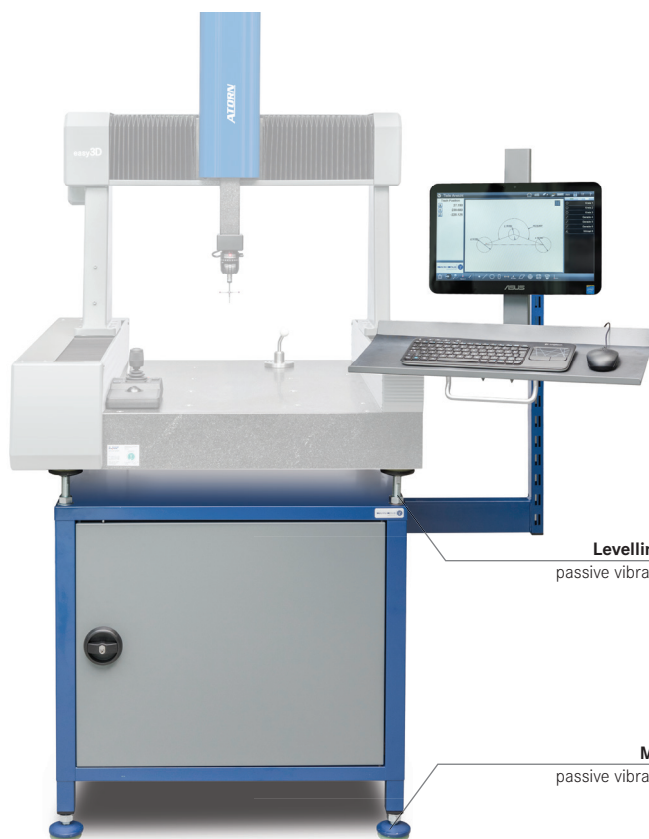
- Two travel speeds selectable
- Key assignment preconfigured
- Lightweight and robust design
- Palm rest for greater comfort
- Perfect for the manual probing of characteristics



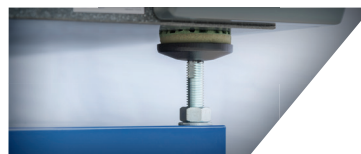
## FLOOR UNIT WITH ARTICULATED SWIVEL ARM

### Passive vibration damping

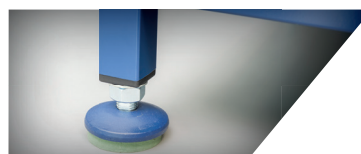
- Passive vibration damper, reduces ambient vibrations
- Articulated swivel arm including keyboard and mouse support
- Floor unit with hinged doors for storage of accessories such as printers, buttons, etc.
- Forklift truck clearance, for custom use in production



**Levelling elements**  
passive vibration damping



**Machine feet**  
passive vibration damping



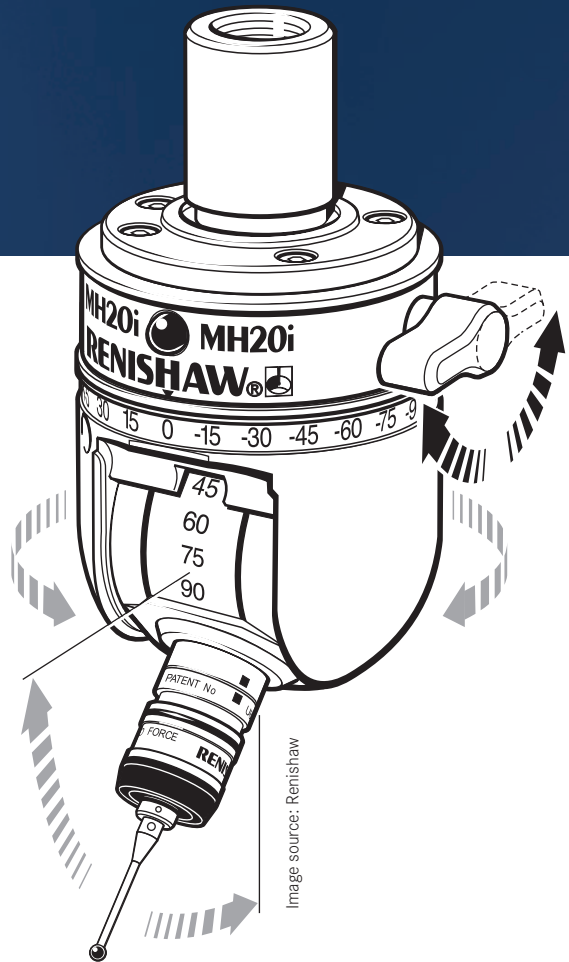
# PROBE MOUNT AND PROBE MODULE TP20

## For rapid probe replacement

- With magnetic coupling for rapid probe replacement
- Reproducible without time-consuming recalibration
- Probe modules with different probing forces available
- Can be extended with the help of optional extensions

## OPTIMUM WORKPIECE W OWING TO INDEXABLE PROBE HEAD MH-20I FROM RENISHAW

- With a reproducible rotating and swivel joint
- Cuts out time-consuming recalibration when changing position
- Allows 168 positions in 15° increments
- Compatible with all TP20 probe modules



## PROBE MODULE TP20

Faster reproducible probe replacement





# LINEAR GUIDES, DC SERVO MOTORS

Equipped with a premium  
measuring system from RENISHAW

- No compressed air required,  
meaning the products can be used in practically all production-related applications
- Precise, high-quality linear guides
- DC servo motors for a high level of positioning accuracy



**ATORN®**

## easy3D coordinate measuring instrument INCLUDING FLOOR UNIT

### Design:

- 16" all-in-one PC with Windows operating system
- Renishaw MH20i indexable probe head incl. TP20 SF probe module
- User-friendly MetLogix M3-taktil software
- Linear guides X,Y and Z are equipped with DC servo motors, meaning no compressed air is required
- Renishaw measuring system
- Hard stone base with M10 thread inserts
- Robust floor unit with hinged doors; passively absorbs vibration
- Robust swivel arm with monitor bracket and keyboard mount
- M2 probe insert set (standard probe, HM Ø 1, 2, 3 and 4 mm, 10, 20 and 30 mm extensions, star probe, 5 directions)
- Reference ball Ø 20 mm, height 100 mm

Probe head type		MH20i
Probe head design		Indexable in 15° steps
Probe mount and probe module		TP 20, magnetic
Measuring range X x Y x Z	mm	400 x 450 x 350
Measurement uncertainty in accordance with ISO 10360-2 E XYZ	µm	3 + 4L/1000 (L in mm)
External dimensions of the machine	mm	920 x 970 x 1.300
External dimensions incl. floor unit	mm	1.600 x 970 x 2.260
Dimensions of granite surface (W x D)	mm	590 x 840
Weight of machine	kg	400
Max. weight load	kg	120
<b>35177</b>	<b>Bez.-Nr.</b>	<b>330</b>
<b>Price</b>		<b>On request</b>
Floor unit with hinged doors and articulated swivel arm		
<b>35177</b>	<b>Bez.-Nr.</b>	<b>400</b>
<b>Price</b>		<b>On request</b>

# LET'S WORK TOGETHER.



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