

QZW1

Measuring Microscope



- Base plate made of natural granite
- Precision measuring stage
- Quick adjustment with friction drive
- Fixed lenses
- USB camera 1,3 mega pixels
- 4 segments LED ring light/surface light
- LED transmitted light
- Laser pointer for position finding



QZW1 Measuring Microscope

QZW1 Measuring Microscope

The HITEC QZW1 product line delivers high precision repeatable measurements of complex components of all materials. Based on various options like zoom lens, different z-axis measurement capability and different measuring table sizes, the QZW offers all possibilities to satisfy your measurement requirements. For automatic measurement of multiple complex components HITEC QZW1 is also available with CNC.

Software:

M3



Applications



Technical data

MEASURING RANGE X-Y AXES	100 x 100 mm	200 x 100 mm	250 x 170 mm	400 x 250 mm
LENGTH DEVIATION	1,9 µm + l/100 (l in mm)			4 µm + l/100 (l in mm)
MEASURING RANGE Z-AXIS	150 mm / optional 350 mm			
MEASURING SYSTEM Z-AXIS	optional			
CAMERA	USB 3.0 25 pictures/s 1,3 megapixels			
OBJECT LENS	Fixed lenses / optional zoom lens 0,7x - 4,5x (manual/motorized)			
MAGNIFICATION	40x		35x - 225x	
FIELD OF VIEW	8 mm		9 mm - 1,5 mm	
SURFACE LIGHT	4 segments LED ring light/surface light			
TRANSMITTED LIGHT	LED transmitted light			
POSITIONING	laser pointer			
TABLE LOAD CAPACITY	max. 20 kg			
DELIVERY CONTENT	23" touchscreen PC, keyboard, mouse, calibration certificate, operation manual			

QZW1 Accessories

Item no.	Description
601-1502	Surcharge dxf option for M3
601-1520	Additional option for M3 measuring thread
600-2010	Cover for measuring table 100x100 and 200x100mm
600-2020	Cover for measuring table 250x170mm
600-2030	Cover for measuring table 400x250mm
601-1500	Navitar Zoom lens incl. TV Adapter 1,0
660-8950	Navitar Zoom lens incl. Coaxial surface light (surcharge to fixed objective lens)
601-1506	Navitar Zoom motorized/surcharge to fixed zoom lens
660-8970	Navitar Zoom motorized incl. Coaxial surface light/surcharge to fixed zoom lens
600-1000	Measuring system z-axis (150 measuring range)
600-1200	Prolongation of the z-axis about 200mm (measuring range 350mm)
600-1100	Measuring system z-axis (350 measuring range)
660-8600	Telecentric bottom light
601-1000	Auxilliary lens 0,5
601-1600	Auxilliary lens 0,75
601-1100	Auxilliary lens 1,5
601-1200	Auxilliary lens 2,0
601-1300	TV-Adapter 0,67x
600-0800	Stop bar 30x120mm
600-0900	Angle stop 90° 200x150mm
600-1400	Prism set 3 parts
601-1700	Turnable glass plate Ø100mm (measuring table 200x100mm)
601-1800	Turnable glass plate Ø100mm (measuring table 250x170mm)
601-1901	Turnable glass plate Ø100mm (measuring table 400x250mm)
913-0000	Software GKB03 for data transfer in Excel
951-7000	Data transfer cable
600-1501	Pair of prisms 5-55 diam. (table 100x100 and 200x100mm)
600-1502	Pair of prisms 5-55 diam. (table 250x170mm)
600-1503	Pair of prisms 5-55 diam. (table 400x250mm)
600-1601	Center support (pair) 40mm height (table 100x100 and 200x100mm)
600-1602	Center support (pair) 40mm height (table)
600-1603	Center support pair 40mm height (table 400x250 mm)
600-1701	Center support, swivelling 50mm height/maximum width 130mm (table 100x100mm and 200x100mm)
600-1702	Center support, swivelling 50mm height/maximum width 130mm (table 250x170mm)
600-1703	Center support, swivelling 50mm height/maximum width 130mm (table 400x250mm)
600-9200	Calibration grid circles 50mm
600-9500	Calibration grid scale 50mm

QZW1 CNC

Measuring Microscope

- Base plate made of natural granite
- precision measuring stage
- 3-axes-CNC-control
- Fixed lenses
- USB camera 1,3 mega pixels
- 4 segments LED ring light
- Telecentric LED bottom light
- Laser pointer for position finding



New option:

Upgrade for the Z-axis with TP20 tactile measurement system for measuring 3D-geometries

QZW1 CNC Measuring Microscope

QZW1 CNC Measuring Microscope

The product line QZW1 CNC delivers high precision repeatable measurements of complex components of any material. The 3-axes-CNC-control is based on servomotors and joystick and can be used for extensive serial measurements. By various options like zoom lens and various sizes of measurement tables QZW1 CNC offers all possibilities for your part-specific requirements.

Software:

M3



Applications



Technical data

MEASURING RANGE X-Y AXES	200 x 100 mm	250 x 170 mm	400 x 250 mm
LENGTH DEVIATION	1,9 µm + L/100 (L in mm)		4 µm + L/100 (L in mm)
MEASURING RANGE Z-AXIS	200 mm		
CAMERA	USB 3.0 25 pictures/s 1,3 megapixels		
OBJECT LENS	Optional zoom lens 0,7x - 4,5x motorized		
MAGNIFICATION	35x - 225x		
FIELD OF VIEW	9 mm - 1,5 mm		
SURFACE LIGHT	4 segments LED-ring light (coaxial surface light optionally)		
TRANSMITTED LIGHT	LED (telecentric optionally)		
POSITIONING	laser pointer		
MAX. TABLE LOAD CAPACITY	max. 20 kg		
DELIVERY CONTENT	23" touchscreen PC, keyboard, mouse, calibration certificate, operation manual		

QZW1 CNC Accessories

Item no.	Description
601-1502	Surcharge to dxf option for M3
601-1520	Additional option for M3 measuring thread
600-2010	Cover for measuring table 100x100/200x100 mm (500/500/500 mm)
600-2020	Cover for measuring table 250x170 mm (700/600/550 mm)
600-2030	Cover for measuring table 400x250 mm (1000/1000/1000 mm)
660-898	Navitar zoom motorized with coaxial surface light
660-8600	Telecentric bottom light 5V LED
601-1000	Auxilliary lens 0,5 x Navitar
601-1600	Auxilliary lens 0,75x Navitar
601-1100	Auxilliary lens 1,5x Navitar
601-1200	Auxilliary lens 2,0x Navitar
601-1300	TV Adapter 0,67x
600-0800	Stop bar 30x120mm
600-0900	Angle stop 90° 200x150mm
600-1400	Prism set 3-parts
601-1700	Turnable glass plate Ø100 mm (measuring table 200x100 mm)
601-1800	Turnable glass plate Ø100 mm (measuring table 250x170 mm)
601-1901	Turnable glass plate Ø100 mm (measuring table 400x250 mm)
913-0000	Software GKB03 for data transfer in Excel
951-7000	Data transfer cable
600-1501	Pair of prisms 5-55 mm diameter (table 100x100 / 200x100 mm)
600-1502	Pair of prisms 5-55mm diameter (table 250x170 mm)
600-1503	Pair of prisms 5-55 mm diameter (table 400x250 mm)
600-1601	Center support (pair) 40mm height (table 100x100 / 200x100 mm)
600-1602	Center support (pair) 40mm height (table 250x170 mm)
600-1603	Center support (pair) 40 mm height (table 400x250 mm)
600-1701	Center support swivelling 50mm height / maximum width 130mm (table 100x100 / 200x100 mm)
600-1702	Center support swivelling 50mm height / maximum width 130mm (table 250x170 mm)
600-1703	Center support swivelling 50mm height / maximum width 130mm (table 400x250 mm)
600-9200	Calibration grid circles 50mm
600-9500	Calibration grid scale 50mm
604-T100	NEW OPTION: Upgrade for the Z-axis with TP20 tactile measurement

CZW3 CNC

Measuring Microscope

Measuring range 430 x 420 x 100 mm



- Solid bridge construction
- 3D-sensor optionally
- Motorized zoom lens
- 4 segments LED-ring light
- LED-transmitted light
- Incl. PC-container



Measuring range 300 x 300 x 200 mm

Measuring range 600 x 600 x 200 mm



CZW3 CNC Measuring Microscope

CZW3 CNC Measuring Microscope

Our product line CZW3 CNC supports you with motor for highly accurate, repeatable measurements of complex components no matter which material. From manual 2-axis-system up to 3-axis-system with automatic edge detection CZW3 delivers various configurations of software and hardware for your specific measurement requirements. Measuring microscope CZW3 CNC is available in three versions.

Software:

M3



Applications



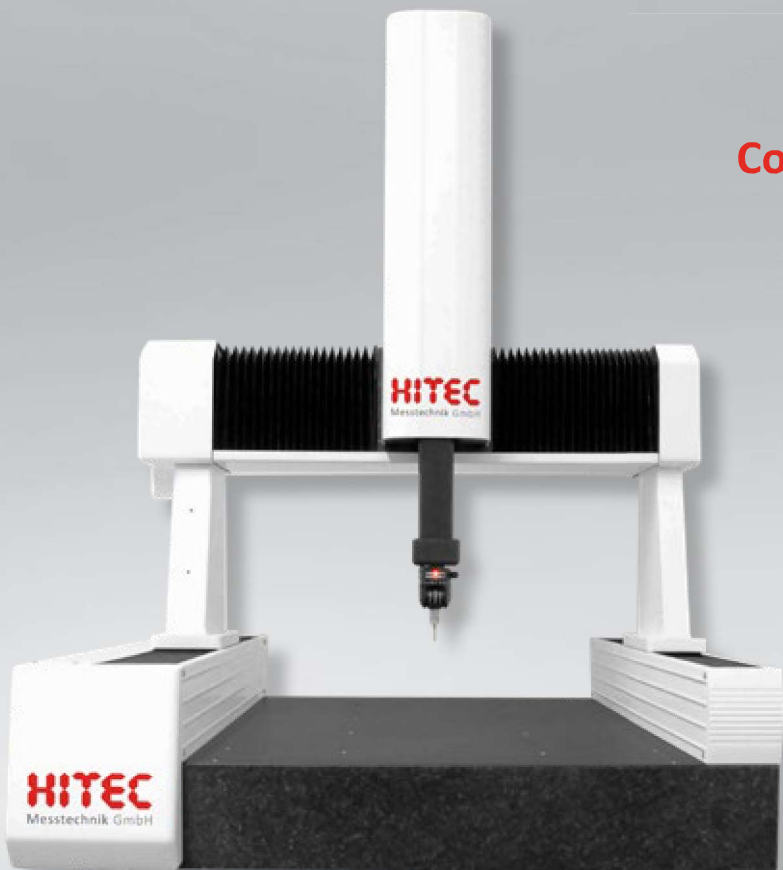
Technical Data

MEASURING RANGE X-Y-Z-AXIS	300 x 300 x 200 mm	430 x 420 x 100 mm	600 x 600 x 200 mm
RESOLUTION	1 µm		
CAMERA SYSTEM	USB 3.0 1,3 megapixel 25 Pictures/s		
OBJECT LENS	Motorized zoom lens 0,7x - 4,5x		
SURFACE LIGHT	4 segments LED ring light		
TRANSMITTED LIGHT	LED transmitted light		
LENGTH DEVIATION	2+L/100 (L in mm)	3,5+L/100 (L in mm)	4,0+L/100 (L in mm)
INSTRUMENT DIMENSIONS (LXWXH)	770 x 1000 x 930 mm	1100 x 1000 x 1950 mm	1300 x 1700 x 1700 mm
WEIGHT	350 kg	580 kg	1380kg
DELIVERY CONTENT	23" touchscreen PC, keyboard, mouse, calibration certificate, operation manual		

CZW3 CNC Accessories

Item no.	Description
601-1502	Surcharge to dxf option for M3
601-1520	Additional option for M3 measuring thread
660-898	Navitar zoom motorized with coaxial surface light
601-1000	Auxilliary lens 0,5 x Navitar
601-1600	Auxilliary lens 0,75x Navitar
601-1100	Auxilliary lens 1,5x Navitar
601-1200	Auxilliary lens 2,0x Navitar
601-1300	TV Adapter 0,67x
600-1400	Prism set 3-parts
913-0000	Software GKB03 for data transfer in Excel
951-7000	Data transfer cable
600-9200	Calibration grid circles 50mm
600-9500	Calibration grid scale 50mm

Discover the new
**Coordinate Measuring Systems
 2018**
 from HITEC Messtechnik!



QCM

Measuring Microscope

- Solid metal casing
- Measuring table with height adjustment
- Telecentric fixed lens
- USB 3.0 camera 5,0 megapixel
- LED ring light
- Telecentric LED bottom light



QCM Measuring Microscope

QCM Measuring Microscope

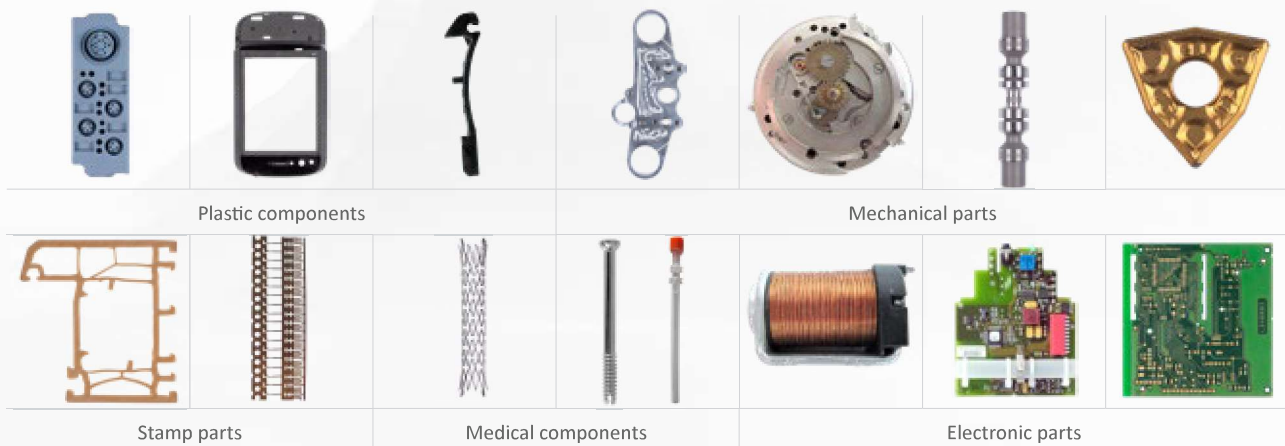
The product line QCM delivers highly accurate repeatable measurements of complex components no matter which material. By use of telecentric lenses QCM offers the option to adjust the selectable scale to your parts specific requirements. The automatic parts program detection helps the user to select and allocate the measured parts.

Software:

M3



Applications



Technical Data

MODEL	QCM320	QCM570	QCM950
MEASURING RANGE / FIELD OF VIEW	32 X 24 mm	57 x 42 mm	95 x 72 mm
LENGTH MEASUREMENT TOLERANCE (E2)	4+L/50 (L in mm)	4,5+L/50 (L in mm)	7,5+L/50 (L in mm)
CAMERA SYSTEM	5 megapixel USB3		
SURFACE LIGHT	LED ring light		
TRANSMITTED LIGHT	LED telecentric		
HEIGHT ADJUSTMENT	30 MM		
INSTRUMENT DIMENSIONS (LXWXH)	330 x 230 x 580 mm	330 x 240 x 720 mm	340 x 250 x 820 mm