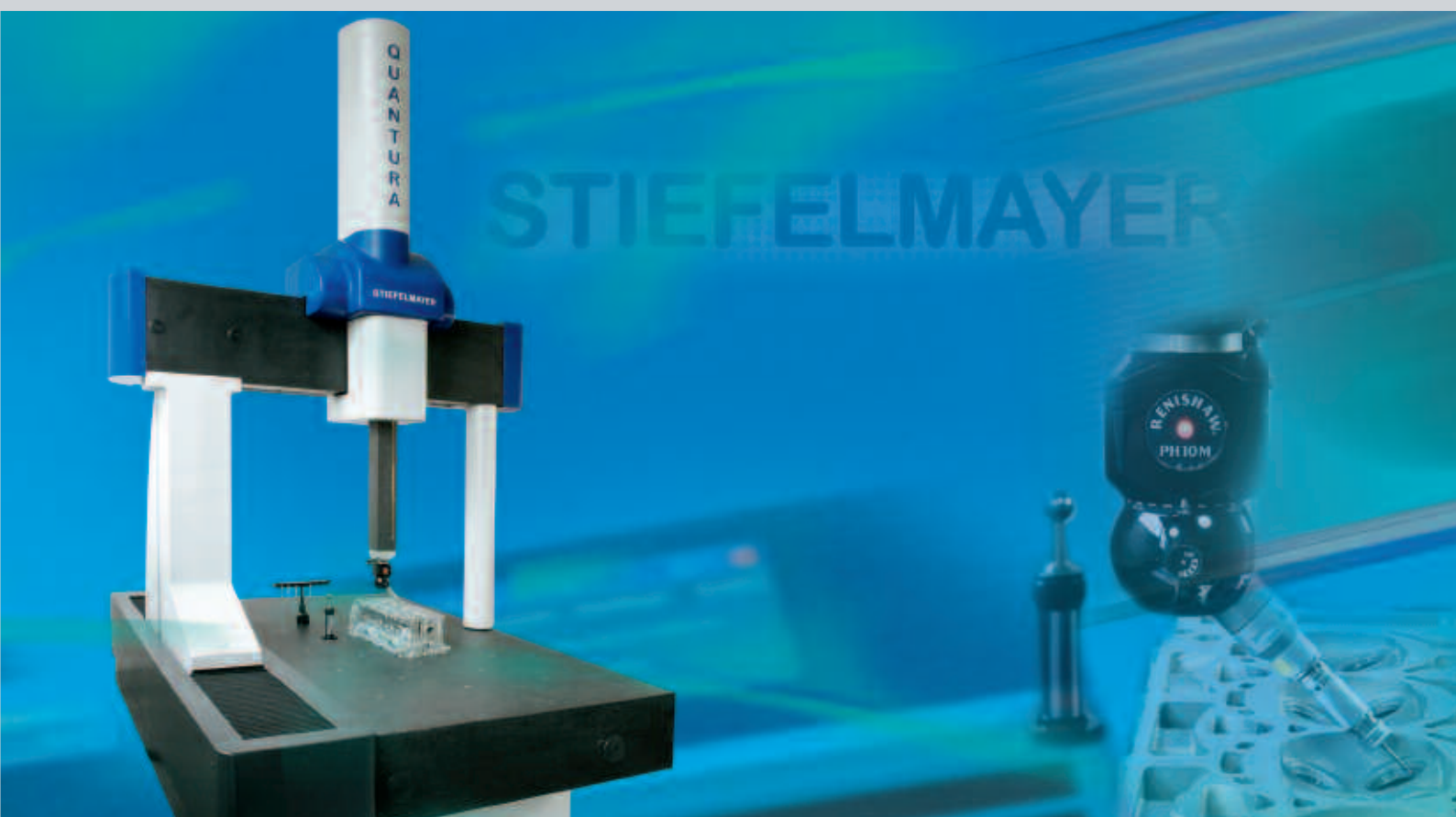


STIEFELMAYER

QUANTURA S/SEP



## QUANTURA

# QUANTURA – Universal Metrology

Stiefelmayer stands for competence, top quality and reliable service in 3D metrology. With around 8000 installations Stiefelmayer CMMs have gained the trust of users all over the world.

## Convincing Technologies

With the QUANTURA measuring machines Stiefelmayer is offering a range of portal equipment suitable for diverse applications. QUANTURA convinces with its combination of solid mechanical engineering, high-quality components and very user-friendly software.

Right and left:  
QUANTURA S



## QUANTURA CMM – long term stability and high dynamics

### Special Features

- CNC-operated bridge type measuring machine
- Precision-lapped granite guides in all axes

### Quality Features

- Constant expansion coefficient thanks to the use of the same materials in all coordinate axes
- Wear-free air bearings in all axes
- Highly dynamic belt drives
- planarity of the measuring table according to DIN 876/00

- Granite table with raster bores M8 for easy clamping of workpieces

### Technical Features

- High resolution incident-light measuring system
- Vector speed 500 mm/sec
- max. acceleration 1000 mm/s<sup>2</sup>

### Extensions

- Various equipment variants for probe systems and software
- Customised service packages

### Options:

- QUANTURA portal coordinate measuring machines are available in standard accuracy (QUANTURA S) or in enhanced precision (QUANTURA SEP).

For the models QUANTURA SEP multiwire cabling for scanning applications and optical measurements is included as a standard.

# QUANTURA – The Models at a Glance

QUANTURA S / SEP	565	775	7105	7107	10127	10157	10207	101210	101510	102010	121510
Model S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP
<b>Measuring ranges</b>											
<b>X</b> (mm)	500	700	700	700	1000	1000	1000	1000	1000	1000	1200
<b>Y</b> (mm)	600	700	1000	1000	1200	1500	2000	1200	1500	2000	1500
<b>Z</b> (mm)	500	500	500	700	700	700	700	1000	1000	1000	1000
<b>Measuring accuracy * Standard accuracy S</b>											
MPE <sub>E</sub>	3.0+ L/300	3.0+ L/300	3.0+ L/300	3.5+ L/275	4.0+ L/220	4.0+ L/220	4.0+ L/220	4.5+ L/220	4.5+ L/220	4.5+ L/220	5.0+ L/200
MPE <sub>P</sub>	3.1	3.1	3.1	3.6	4.1	4.1	4.1	4.1	4.1	4.1	4.4
<b>Measuring accuracy * Extended accuracy SEP</b>											
MPE <sub>E</sub>	2.5+ L/450	2.5+ L/450	2.5+ L/450	2.5+ L/400	2.9+ L/350	2.9+ L/350	2.9+ L/350	3.1+ L/300	3.1+ L/300	3.1+ L/300	3.5+ L/275
MPE <sub>P</sub>	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.3	3.3	3.3	3.5
<b>Machine dimensions</b>											
<b>L</b> (mm)	1430	1945	2245	2245	2445	2745	3245	2445	2745	3245	2940
<b>W</b> (mm)	1370	1750	1750	1750	2020	2020	2020	2020	2020	2020	2175
<b>H</b> (mm)	2765	2670	2670	3070	3070	3070	3070	3670	3670	3670	3670
<b>Max. workpiece load</b> (kg)	850	1675	1950	1950	3350	3350	4500	3350	3350	4500	4000
<b>Machine weight</b> (kg)	1130	1850	2050	2070	3000	3940	4370	3020	3970	4400	5570
QUANTURA S / SEP											
Model S/SEP	122010	122510	123010	152010	152510	153010	152012	152512	153012	153512	
S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	S/SEP	
<b>Machine dimensions</b>											
<b>X</b> (mm)	1200	1200	1200	1500	1500	1500	1500	1500	1500	1500	
<b>Y</b> (mm)	2000	2500	3000	2000	2500	3000	2000	2500	3000	3500	
<b>Z</b> (mm)	1000	1000	1000	1000	1000	1000	1200	1200	1200	1200	
<b>Measuring accuracy * Standard accuracy S</b>											
MPE <sub>E</sub>	5.0+ L/200	5.0+ L/200	5.0+ L/200	5.0+ L/200	5.0+ L/200	5.0+ L/200	5.5+ L/200	5.5+ L/200	5.5+ L/200	5.5+ L/200	
MPE <sub>P</sub>	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
<b>Measuring accuracy * Extended accuracy SEP</b>											
MPE <sub>E</sub>	3.5+ L/275	3.5+ L/275	3.5+ L/275	3.5+ L/275	3.5+ L/275	3.5+ L/275	3.7+ L/250	3.7+ L/250	3.7+ L/250	3.7+ L/250	
MPE <sub>P</sub>	3.5	3.5	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
<b>Machine dimensions</b>											
<b>L</b> (mm)	3440	3940	4440	3560	4060	4560	3560	4060	4560	5060	
<b>W</b> (mm)	2175	2175	2175	2545	2545	2545	2545	2545	2545	2545	
<b>H</b> (mm)	3670	3720	3720	3835	3835	3835	4235	4235	4235	4235	
<b>Max. workpiece load</b> (kg)	4500	5300	5800	4500	5150	5800	4500	5150	5800	6450	
<b>Machine weight</b> (kg)	6410	7580	8560	8970	9190	10790	8980	9200	10800	12020	

# QUANTURA – High Performance and User-Friendly

## Control Unit UCC with user panel MCU1

### Special Features

- latest generation of CNC path control
- including compact cabinet
- I++ interface

### Handling

- multi-functional hand user panel
- ergonomically styled enclosure, suitable for both right and left handed operation
- continuously adjustable speed for all coordinate axes
- complete CMM control using the joystick and function buttons
- emergency stop function



Bottom right:  
**user panel MCU1**

Bottom left:  
**compact cabinet**

## STIEFELMAYER Metrology – the product range:

### Horizontal arm measuring machines

- FUTURA manual · motorised · CNC version
- VENTURA manual · motorised · CNC version
- ACTURA manual · motorised version

### Bridge type measuring machines

- QUANTURA CNC  
Series S/SEP, L

### Modernisations / Upgrades

- Measuring counter MZ 2000 for manual machines
- Controller modernisations
- Upgrades manual to motorised/ CNC version

### Accessories

- Probe tools
- Auxiliary equipment
- Marking-out tools
- Centering tools
- 3D probe accessories
- Threaded styli
- Extensions
- Scanning sensors

### Measuring software

### Service

- Calibrations
- Repairs
- Installations
- Machine moving

### Second hand machines



## Stiefelmayer – The Company Group at a Glance

Stiefelmayer-Reicherter | 3D coordinate metrology | Hardness testing | Spring testing

Stiefelmayer-Laser Technology | Laser hardening | Laser welding | Laser cutting

Stiefelmayer-Clamping Tools | Special chucks | Special mandrels

Stiefelmayer-Production | Job job production | Precision parts



Stiefelmayer-Reicherter GmbH & Co. KG  
Boschstraße 10  
D-73734 Esslingen

Phone: ++49 (0)711/490 4690-0  
Fax: ++49 (0)711/490 4690-13  
E-mail: reicherter@stiefelmayer.de  
www.stiefelmayer.de