

Precision measurement systems SM702 / SM703

Technical data sheet

Field of application:

Production, quality control, incoming goods inspection

Measuring principle:

Contactless working system on video optical basis for the fast and precise measuring of turned, stamped and transformed parts.

Data logging:

Fully automatic capturing, data logging and interpretation of the measured data.

Type	SM702	SM703
Number of video cameras	2	3
Measurement area sizes	See table „Optics“	
Maximum measurable length	340	340
Error in measurement	See table „Optics“	
Repeatability	See table „Optics“	
Size (WxHxD)	900 x 600 x 250	900 x 600 x 250
Weight	ca. 50	ca. 50
Ambient temperature	5 ... 40	
Relative Humidity	5 ... 95 non condensing	
Image acquisition	1/1.2" s/w CCD cameras 1632 x 1104 Pixel	
Workholding device	Three jaw chuck, Round magnet, vacuum holder	
Span width	30	
Calibration – fully automatic by	Certified calibration standard	
Display	24" TFT Monitor	
Resolution	1900 x 1200	
Data storage	Integrated database	
Subsequent data processing	Export over ASCII files to MS-Excel®, MS-Access®, Böhme & Weiss, SAP, qStat, QSYS and other	

Insertable lenses

Lens Type No.	Object field size (mm)	Magnification (24"-Monitor)	Accuracy (diameter) (µm)	Repeatability (diameter) (µm)	Accuracy in the object field (length)(µm)	Accuracy total (length) (µm)	Extra charge
TC23120	132 x 85	3,0	± 4,0	± 2,0	15	20	x
TC2396	106 x 68	4,0	± 3,0	± 2,0	10	15	x
TC2380	88 x 56	5,0	± 2,0	± 1,5	10	15	x
TC2364	70 x 46	6,0	± 2,0	± 1,5	10	12	
TC2356	62 x 39	7,0	± 1,5	± 1,5	8	12	
TC2348	46 x 33	8,0	± 1,5	± 1,0	8	10	
TC2336	37 x 26	10	± 1,0	± 1,0	5	8	
TC2M36	27 x 17	15	± 1,0	± 0,5	5	8	
TCLWD050	17 x 11,5	35	± 0,5	± 0,5	3	6	
TCLWD066	14 x 10	29	± 0,5	± 0,5	3	6	
TCLWD075	12 x 8,0	42	± 0,5	± 0,5	3	6	