

WHAT DO YOU EXPECT FROM YOUR NEXT MEASURING MACHINE?

metrios
MEASURING MACHINES

intuitive

METRIOS

The natural evolution
of the profile projector.
Measuring area: 95x65 mm

stable

METRIOS HD

Optimised for
micromechanics.
Measuring area: 23x23 mm

fast

METRIOS CROSS

Place multiple parts
on the stage and press start.
Measuring area: 265x200 mm

complete

METRIOS HD CROSS

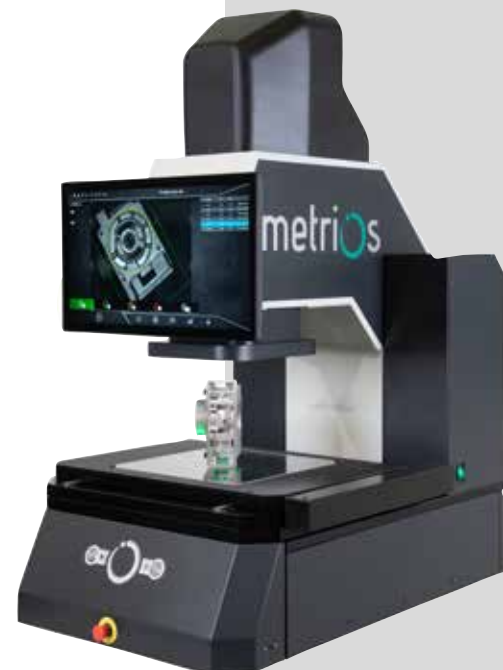
A large measuring area where even
the smallest details can be detected.
Measuring area: 200x100 mm
with Z axis



all-in-one

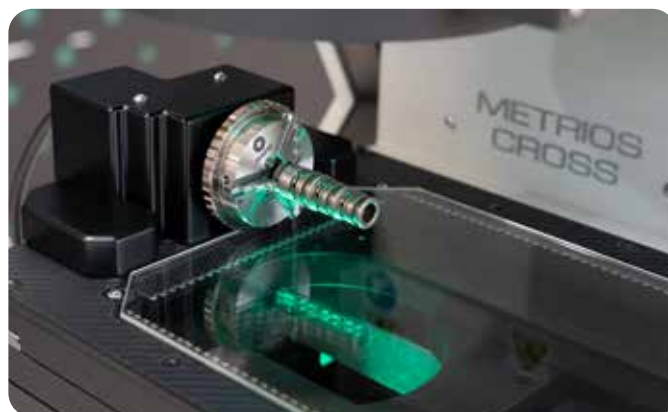
METRIOS 332

Everything you have ever
wanted in an optical shop-floor
measuring machine.
Measuring area:
300x300x200 mm with Z axis



MEASURE EACH SIDE OF THE PART IN A SINGLE CYCLE

- Automatic rotation of the part on each face
- Guided part orientation
- Two solutions in one: flat and cylindrical parts on the same system



TECHNICAL DATA

TECHNICAL DATA		Metrios	Metrios Cross	Metrios HD	Metrios HD Cross	Metrios 332	
						Main camera	Ultra HD sensor
Field of view size	Camera field of view	95x65 mm	95x65 mm	23x23 mm	23x23 mm	47x47 mm	3x2 mm
	Measuring area	95x65 mm	265x200 mm	23x23 mm	200x100	305x305 mm	235x235 mm covered by all sensors
Repeatability (2σ)	Inside camera's field of view	2 (μm)	2 (μm)	1,5 (μm)	1,5 (μm)	1 (μm)	0,2 (μm)
	In the entire stage (X/Y axis)	2 (μm)	3 (μm)	1,5 (μm)	2,5 (μm)	2,5 (μm)	2,5(μm)
Measurement accuracy (2σ) ^(*)	Inside camera's field of view	(5+0,01L[mm])(μm)	(5+0,01 L[mm])(μm)	(2,5+0,01L[mm])(μm)	(2,5+0,01L[mm])(μm)	(2,5+0,01L[mm])(μm)	(2,5+0,01L[mm])(μm)
	In the entire stage (X/Y axis)	(5+0,01L[mm])(μm)	(7+0,01 L[mm])(μm)	(2,5+0,01L[mm])(μm)	(3,5+0,01L[mm])(μm)	(3,5+0,01L[mm])(μm)	(3,5+0,01L[mm])(μm)
AF height measurement ^(*)	Repeatability	not available			3 (μm)		2 (μm)
Environmental resistance	Operating ambient temperature	+10 to 45°C					
	Back light	Telecentric green LED illumination					
	Top light	Green LED illumination inside the optic		White top illuminator		White and green top light	Secondary white and green top light
	Surface / incident / grazing light	Motorized adjustable ring light (Light Dome) covering the part from environmental lights					
	Nr of rings	2				1	
	Illumination system	Sectors for each ring					
		8 independent sectors following part orientation					
Max Loading capacity Z mm		100 mm	80 mm	100 mm	50 mm	200 mm	200 mm
Max Loading capacity Kg (Kg) ^(*)		5 kg	3 kg	5 kg	3 kg	20 kg	
Rotary axis function		Not available	Optional	Not available	Optional	Optional	
Resolution	X-Y-Z	0,0001 mm					
Machine Weight		110 Kg				250 kg	

(*)1) Data in accordance with ISO 10360-7, within room temperature of +20°C ±1°C / (*)2) Surface material/finishing may affect results.

(*)3) Load weight and/or unbalancing of the part may affect results

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