

Technical data μ Phase[®]

	μ Phase [®] PLANO DOWN	μ Phase [®] PLANO UP	μ Phase [®] SPHERO UP	μ Phase [®] ST/ ST+R	μ Phase [®] VERTICAL 3	μ Phase [®] VERTICAL PRO	μ Phase [®] UNIVERSAL
Utilization	Production	Production	Production	R&D, Production	R&D, Production	Production Measurement in batches	R&D
Sample type	Flat	Flat	Spherical	Flat Spherical	Flat Spherical Toric Aspheric	Spherical Toric Aspheric	Flat Spherical Toric Aspheric Cylindrical
Sample size (measurement range)	Different versions up to max. \varnothing 150 mm	Different versions up to max. \varnothing 150 mm	Sample size depending on measurement objective	Max. \varnothing 50 mm Sample size depending on version and test lens	Max. \varnothing 100 mm Sample size depending on measurement objective	Ideal for small diameters	Max. \varnothing 150 mm Sample size depending on version and test lens
Max. sample weight	5 kg	1.5 kg (depending on configuration)	1.5 kg (depending on configuration)	1.5 kg	1.5 kg	1.5 kg	1.5 kg
Alignment tools	Manual tilt	Manual tilt	Manual XY adjustment, tilt table and z-focusing (a few mm)	Manual XY adjustment, tilt table and Z-focusing	Manual tilt table Manual XY table Motorized, computer- controlled Z-axis	Motorized, computer- controlled X/Y/Z-axis	Manual tilt table Manual XY table Manual Z-axis
Test range radii measurement	Not available	Not available	Typically 10 mm ... 200 mm Relative radius measurement compared to a radius normal, range depends on test objective and holder	Approx. 220 mm Absolute radius measurement with gauge (analog or digital)	300 to 500 mm depending on test optics Integrated, automated absolute radius measurement	Max. 50 mm Integrated, automated absolute radius measurement	Up to 2 m, depending on test objective and length of the radii measuring rail Integrated absolute radius measurement especially for long radii
Accuracy radius measurement	-	-	Depends on the accuracy of the radius normal	Depends on gauge: 0.5 μ m ... 5 μ m	5 μ m overall 2 μ m in 10 mm With additional gauge up to 0.1 μ m	\pm 0.1 μ m	30 μ m

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Dimensions (h x w x d)	Base: S: 300 x 300 mm ² (free working distance 180 x 180 mm ²) L: 440 x 440 mm ² (free working distance 330 x 330 mm ²) Free working height: 110 mm / 155 mm / 200 mm	500 x 200 x 200 mm ³	500 x 200 x 200 mm ³	500 x 300 x 400 mm ³ moving range between 160 mm ... 300 mm (depends on configuration)	780 x 350 x 422 mm ³	350 x 530 x 750 mm ³	500 x 2500 x 400 mm ³ (width depends on length of the rail)
Weight	S: 25 kg L: 45 kg	5 kg ... 20 kg (depends on configuration)	5 kg ... 20 kg (depends on configuration)	20 kg	60 kg	100 kg	30 kg (depends on configuration)
Type	Table top device	Table top device	Table top device	Table top device	Table top device	Table top device	Table top device
Options	Transmission measurement				Via Add-ons eg. Multiple apertures, Waver, Tool offset transmission measurement		CGH bracket for measurements of aspheres, cylinder or toric surfaces Via Add-ons eg. Multiple apertures, Waver, Tool offset Transmission measurement