

***Think big:
Our standard
for big dimensions***

The optacom VC-15 offers the same functions and the outstanding precision of the VC-10. In one point, however, it even surpasses it, as it can measure an impressive 490 mm vertically and horizontally. This makes it especially useful for all "bigger" tasks.

If this still doesn't meet your requirements, we are prepared to offer you custom-made solutions with measurement ranges of 1,000 mm and more.



Resolution X- and Z-axis	0.002 µm
Measuring range (Z-Achse)	490 mm
Measuring range (X-Achse)	490 mm
Measuring system	optical, incremental in all axes (X, Z, T)
Accuracy	+/- (0.5 + L/100) µm
Accuracy acc. to DIN ISO Standard	5 % class 1
Resolution of the stylus	< 3 nm
Maximal measuring force	150 mN
Measuring speed	0.1 – 2 mm/sec (automatically optimized)
Cut-off lengths [mm]	0.08/0.25/0.80/2.50/8.00 and user adjustable
Number of cut-offs	1 – 10 (arbitrary)
Filter	Gaussian; 2RC; λs-filter
Resolution	scale 1:1 bis 5000:1
Stylus tip radius	0.002 – 1 mm
Angle measurement	up gradient 78°; down gradient 87°
Roughness parameters DIN EN ISO 4287	Rz; Rzmax; Rp; Rv; Ra; Rt; Rq
Ripple parameters DIN EN ISO 4287	Wp; Wv; Wz; Wa; Wt; Wq
Roughness values DIN EN ISO 4287	Pp; Pv; Pz; Pa; Pt; Pq; Psk
Roughness values DIN EN ISO 13565	Rk; Rpk; Rvk; Mr1; Mr2
Material parameters JIS B-0601	Rz; Ra
Calibration setting block	is provided with instrument and certificate
Dimensions (WxDxH)	1525 x 600 x 1150 mm
Weight	600 kg

Technical data

At a glance

- ▶ Ideal for the whole range of measurement tasks with ranges up to 490 mm
- ▶ Contour and roughness in one measurement with the optional roughness module
- ▶ Roundness measurements and composite measurements with optional circular or circular swivel table
- ▶ High real resolution of < 3 nm at the tip of the stylus
- ▶ Axle guide and head made of one piece, integrated
- ▶ X-axis permanently fixed and connected with absolutely no play to the Z-axis
- ▶ High precision linear axes with integr. drive
- ▶ Body made of high-performance aircraft aluminum
- ▶ Contactless, linear incremental measuring systems, absolutely wear-free
- ▶ Machine calibration (including probe tip calibration) in less than 3 minutes
- ▶ Speedy probe tip change with the optacom quick-release device – no tools needed, no precision loss
- ▶ Fully equipped basic system including calibration setting block, PC, monitor, printer and the software module optacom contour

Package includes

- ▶ Measuring machine optacom VC-15
- ▶ PC with 19" flat screen monitor, mouse and keyboard
- ▶ Operating system Windows XP
- ▶ Inkjet printer
- ▶ Software optacom contour
- ▶ Calibration setting block

Options

- ▶ Software optacom rough (roughness module): This module allows for measuring contour and roughness in one pass. Roughness measurements up to Rz3 are possible with standard stylus according to optacom working standards
- ▶ Software optacom topdown (bidirectional measuring module): With this module you can measure a component in one operation in both directions and reassemble the measurements in absolute coordinates automatically and precisely to a multidimensional map
- ▶ Software optacom round (roundness module): This module allows you to measure contour, roundness and (if necessary) roughness in one pass
- ▶ Circular measuring table for determining roundness
- ▶ Circular swivel table for composite measurements
- ▶ Fully automated system for CNC measurements
- ▶ Y-table manual or motorized with material measure
- ▶ Maximum traverse length as needed

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optacom is certified

in accordance with DIN EN ISO 9001: 2000

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Subject to technical changes without prior notice.

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