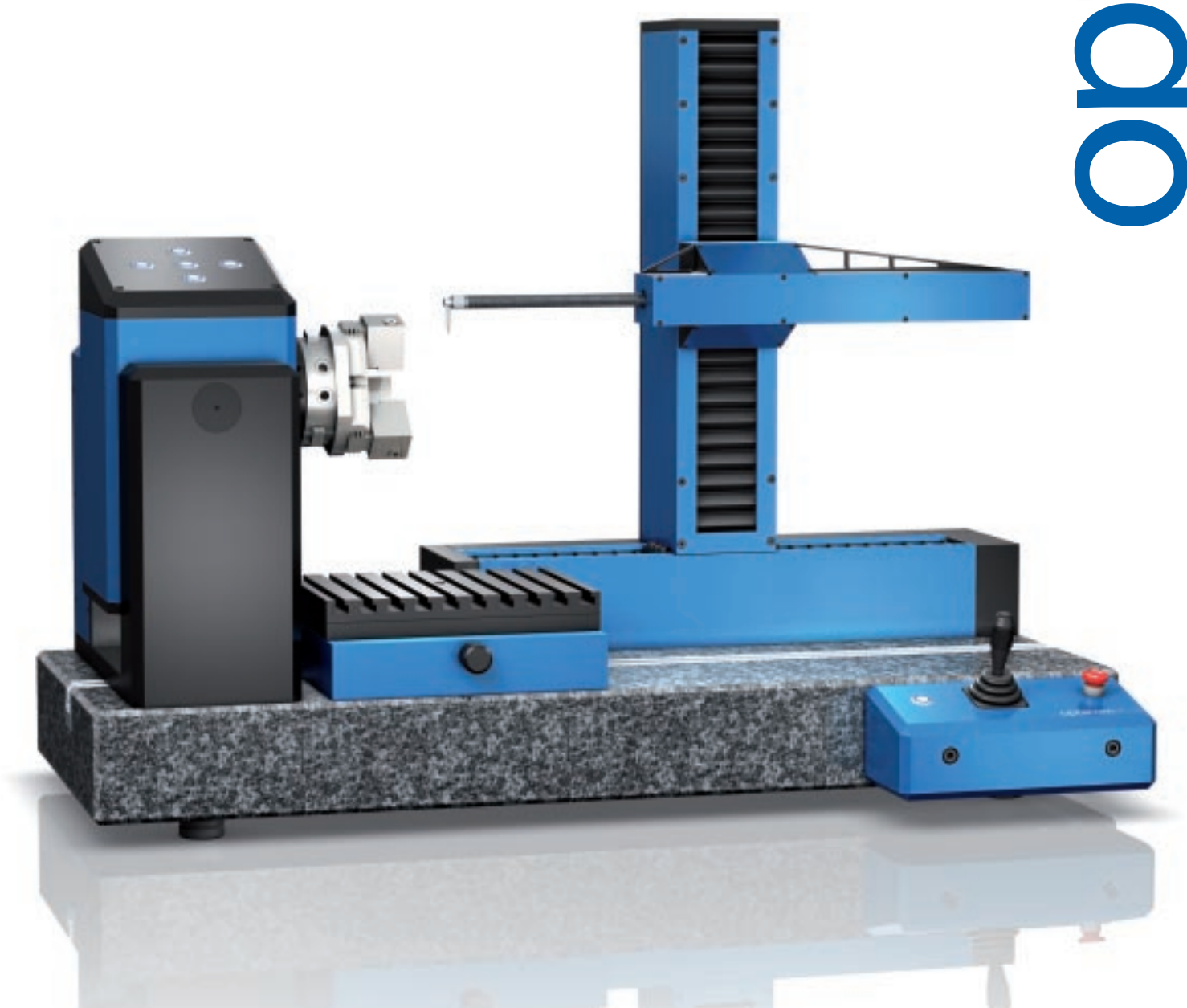
VC-10

Contour measuring:Made in Germany

optacom



The benchmark in measurement technology: Our allrounder for high precision-measurement

Are you looking for an allround system that can cope with the diversity of contour measurement tasks with impressive precision?

If so, the optacom VC-10 is just what you need. You can make contour measurements or additional roughness measurements* with the same perfection as roundness and composite measurements* (e.g. with the new circular swivel table). This means that even complicated measurements of complex objects are as easy as pie.

You will find the VC-10 is not only simple to operate, but also outstandingly precise. The resolution on the probe tip is less than 3 mm for the whole measuring range – and that is the real measured value, not only a mathematical best fit approximation. You can extend this range by another 100 mm with an axis extension for measuring larger objects.

* optional

Technical data

Resolution X- and Z-axis	0.002 µm
Measuring range (Z-axis)	225 mm
Measuring range (X-axis)	225 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
Profile parameters DIN EN ISO 4287	Pp; Pv; Pz; Pa; Pt; Pq; Psk
Material parameters DIN EN ISO 13565	Rk; Rpk; Rvk; Mr1; Mr2
Roughness values JIS B-0601	Rz; Ra
Calibration setting block	is provided with instrument and certificate
Dimensions (W x D x H)	950 x 380 x 725 mm
Weight	150 kg