





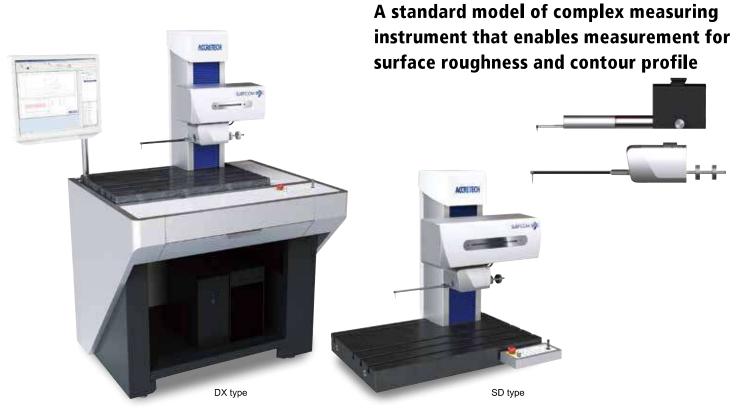






Dedicated catalog is available.

 $\overline{0}31 DX2/SD2$



NEX 031 is a complex model capable of surface roughness and contour profile measurement. (Necessary to replace detector)

*Tracing driver tilting device is optional. Please refer to page 22 to 23 for surface roughness measurement and page 18 to 21 for contour profile measurement.

Measurement unit

Model					SURFCOM NEX (DX2/SD2)						
Item				12	13	14	15	22	23	24	25
Tracing driver	X-axis	Sensing method	Sensing method			Linear scale					
		Straightness accuracy	with General-p contour detec		0.8 μm/100 mm 2.0 μm/200 μm			200 µm			
		(When standard styli are used)	with Roughne	ss pickup	(0.05+1.0L/1000) µm (L: Measuring length mm)						
		V aiva indication	X-aixs indication accuracy: horizontal ^{*1}			±(0.8+1.0L/100) µm (L: Measuring length mm) *Contour measurement with 100 mm driver					
		A-aixs indication				±(0.8+3.0L/200) µm (L: Measuring length mm) *Contour measurement with 200 mm driver					
		Resolution	Resolution			0.016 μm					
		Speed	Travel speed		0.03 to 100 mm/s						
		Speed	Measuring speed		0.03 to 30 mm/s						
		Tilt angle	Tilt angle			±15 ° (Optional tilting device)					
Measuring stand	Column	Coood	Travel speed	CNC	Max. 50 mm/s						
		Speed		Joystick	Max. 35 mm/s						
	Base	Material			Gabbro						

Detector

Dottootoi								
General-purpose contour detector	Measuring range	Z-axis: vertical		60 mm				
	Contour	Sensing method		High accuracy scale				
		Resolution		0.04 μm (Full range)				
		Indication accuracy: vertical		±(1.2+ 2H /100) µm (H: Measuring height mm) *at 20±2 °C				
	Stylus	for Contour	Model	±(1.5+ 2H /100) μm (H: Measuring height mm) *at 20±5 °C				
			Measuring force	DM45505 (Standard accessory for NEX *3*)				
			Tip material	10 to 30 mN (Manually adjustable)				
			Tip shape	Cemented carbide				
	Function			Rtip 25 μm/24° cone				
Roughness pickup	Measuring range	Z-axis: vertical		1000 μm				
	Roughness	Sensing method		Differential inductance				
		Measuring range		6.4 to 1000 µm				
		Resolution		0.1 to 20 nm				
	Stylus	for Roughness	Model	DM43801 (Standard accessory for NEX **1)				
			Measuring force	0.75 mN				
			Tip material	Diamond				
			Tip shape	Rtip 2 µm/60° cone				
	Function			Down/upward measurements / Upper limit detection safety mechanism				