SURFCOM NEX (DX2/SD2) Series

SURFCOM NEX

Dedicated catalog is available.

040 DX2/SD2

High accuracy contour profile measuring instrument equipped with high optical resolution laser diffraction scale and auto balance mechanism

DX type

SD type

NEX 040 DX2/SD2 is a high precision model designated for contour profile measurement. Please refer to page 18 to 21.

Measuring Unit

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

Detector

High-accuracy contour detector	Measuring range	Z-axis: vertical		60 mm
	Contour	Sensing method		Laser optical diffraction scale
		Resolution		0.02 µm (Full range)
		Indication accuracy: vertical		±(0.8+|2H|/100) µm (H: Measuring height mm)
	Stylus	for Contour	Model	DM45505 (Standard accessory for *4*)
			Measuring force	2 to 30 mN (Adjustable on measuring/analysis integrated software "ACCTee")
			Tip material	Cemented carbide
			Tip shape	Rtip 25 µm/24° cone
	Function			Down/upward measurements / Collision detection safety function / Retract function