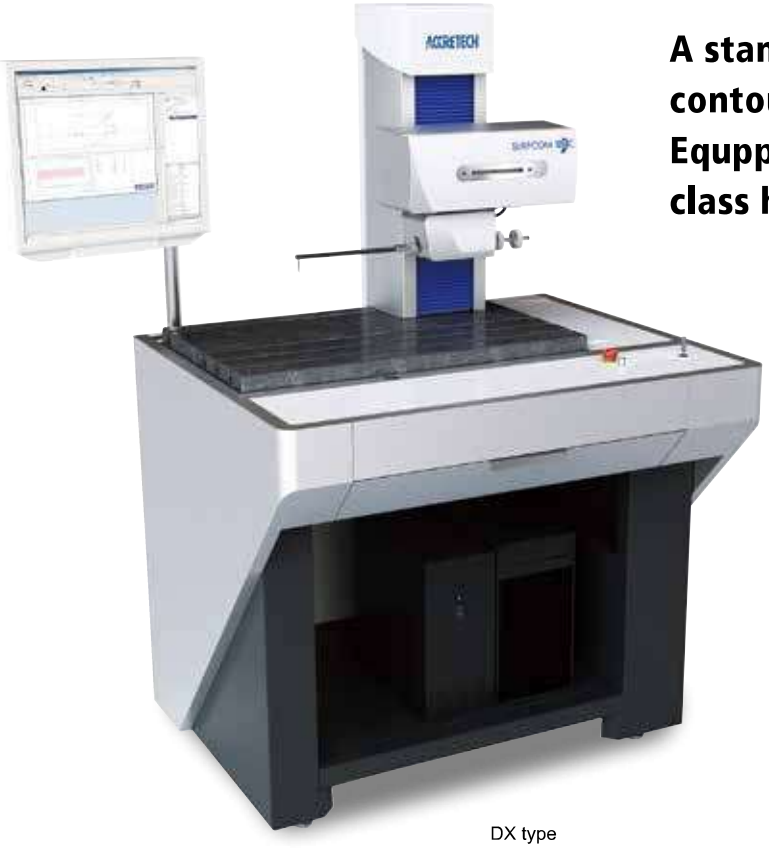
SURFCOM NEX (DX2/SD2) Series

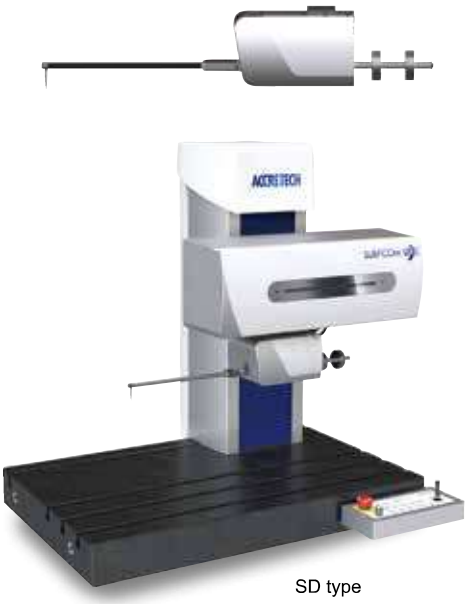
SURFCOM NEX 030 DX2/SD2

Dedicated catalog is available.

A standard measuring instrument for contour profile
Equpped with digital scale and achieved class highest accuracy



DX type



SD type

NEX 030 DX2/SD2 is a standard model designated for contour profile measurement. Please refer to page 18 to 21.

Measurement unit

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)	General purpose detector for contour measurement		0.8 µm/100 mm				2.0 µm/200 mm			
		X-axis indication accuracy: Horizontal direction			±(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 table	Column	Speed	Travel speed	CNC	Max. 50 mm/s							
				Joystick	Max. 35 mm/s							
	Base	Material			Gabbro							

Detector

General-purpose contour detector	Measuring range	Z-axis: Vertical direction		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
				±(1.5+|2H|/100) µm (H: Measuring height mm) *at 20±5 °C
	Stylus	for Contour	Model	DM45505 (Standard accessory for NEX *3*)
			Replace method	10 to 30 mN (Manually adjustable)
			Measuring force	Cemented carbide
			Stylus form	Rtip 25 µm/24° cone
	Function			Down/upward measurements / Collision detection safety function / Retract function