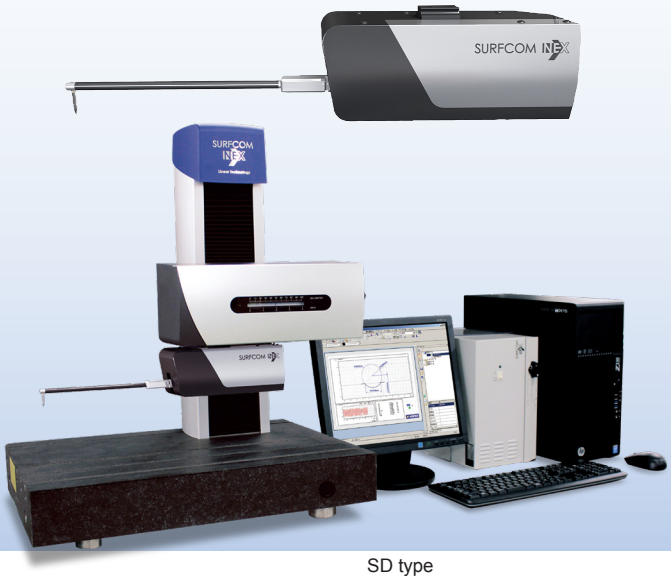
NEX Series

SURFCOM NEX 040 DX/SD

Dedicated catalog is available.

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

DX type



SD type

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

Measurement unit

Model				SURFCOM NEX							
				12	13	14	15	22	23	24	25
Tracing Driver	X-axis (L: Measuring length mm)	Sensing method		Linear scale							
		Straightness accuracy	HIgh accuracy detector for contour measurement (μm/mm)	1.0/100				2.0/200			
		X-axis indication accuracy (μm): Horizontal direction		±(1.0 + 1.0L/100) *100 mm tracing driver contour measurement							
		Resolution (μm)		0.016							
		Speed (mm/s)	Travel speed	0.03 to 60							
			Measuring speed	0.03 to 20							
		Tilt angle (°)	HIgh accuracy detector for contour measurement	±15 (optional tilting device)							
Measuring table	Column	Speed (mm/s)	Travel speed	Max. 10							
	Base	Material		Gabbro							

Detector

High precision detector for contour measurement (E-DT-CH19B)	Measuring range	Z-axis (mm): Vertical direction		60.0
	Contour measurement (H: Measuring height mm)	Sensing method		Laser optical diffraction scale
		Measuring range (mm)		60.0
		Measuring resolution (μm)		0.02 (Full range)
		Indication accuracy (μm): Vertical direction		±(0.8 + |2H|/100)
		Functions		Up/downward measurement, Safety stop function by contact, Retract function
	Stylus	Contour	Model	DM45505
			Replace method	Replaceable
			Measuring force (mN)	2 to 30 (Set up by ACCTee)
			Stylus material	Cemented carbide
			Stylus form	Rtip 25 μm/24°Cone

Dedicated catalog is available.

NEX Series

SURFCOM NEX 030 DX/SD

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

DX type

SD type

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

Measurement unit

Model				SURFCOM NEX							
				12	13	14	15	22	23	24	25
Tracing Driver	X-axis (L: Measuring length mm)	Sensing method		Linear scale							
		Straightness accuracy	General purpose detector for contour measurement (μm/mm)	1.0/100				2.0/200			
		X-axis indication accuracy (μm): Horizontal direction		±(1.0 + 1.0L/100) *100 mm tracing driver contour measurement							
		Resolution (μm)		0.016							
		Speed (mm/s)	Travel speed	0.03 to 60							
			Measuring speed	0.03 to 20							
		Tilt angle (°)	General purpose detector for contour measurement	±15 (optional tilting device)							
Measuring table	Column	Speed (mm/s)	Travel speed	Max. 10							
	Base	Material		Gabbro							

Detector

General purpose detector for contour measurement (E-DT-CH18B)	Measuring range	Z-axis (mm): Vertical direction		60.0
	Contour measurement (H: Measuring height mm)	Sensing method		High accuracy scale
		Measuring range (mm)		60.0
		Measuring resolution (μm)		0.04 (Full range)
		Indication accuracy (μm): Vertical direction		±(1.5 + |2H|/100)
		Functions		Up/downward measurement, Safety stop function by contact, Retract function
	Stylus	Contour	Model	DM45505
			Replace method	Replaceable
			Measuring force (mN)	10 to 30 (Manual adjustment)
			Stylus material	Cemented carbide
			Stylus form	Rtip 25 μm/24°Cone