

# SURFCORDER

表面粗さ測定機 サーフコーダ  
SURFACE ROUGHNESS MEASURING INSTRUMENT

# SE300

- タッチパネルとボタンスイッチで簡単操作
  - 多様なパラメータに対応し、複数規格を同時解析/出力が可能
  - リアルタイムプロフィールを表示、記録
  - 縦/横の自動感度校正機能を採用
  - 多彩なレベルング機能を備え、R面測定、段差測定に有効
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- Easy Control with Touch panel and Push Button
  - Analysis: Many parameters of different standards in one measurement
  - Real time surface profile recording with screen display or direct printout
  - Automatic sensitivity calibration in vertical and horizontal
  - Various leveling functions, effective to measure the curved surface or step



*Distribuído no Brasil por:*

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## Specifications

Parameters	JIS B0601-2001 / ISO4287-1997 (Filter: Gaussian)	<i>Ra, Rz, Rp, Rv, Rq, RSm, Rmr (c), Rðc, Rt, Rsk, Rku, R</i> profile. BAC, ADC <i>Pa, Pz, Pp, Pv, Pq, PSm, Pmr (c), Pðc, Pt, Psk, Pku, P</i> profile. BAC, ADC <i>Wa, Wz, Wp, Wv, Wq, WSm, Wmr (c), Wðc, Wt, W</i> profile. BAC, ADC
	JIS B0601-1994(Filter: Gaussian)	<i>Ra, Ry, Rz, tp, Sm, S, R/P</i> profile. BAC, ADC
	JIS B0601-1982(Filter: 2RC)	<i>Ra, Rmax, Rz, Rp, Rv, RMS, tp, Sm, Rt, Pc, RmaxD, R3z, F/P</i> profile. BAC, ADC
	JIS B0601-1987(Filter: 2RC)	<i>WCA, WCM, F/W</i> profile
	ASME B46.1 1-1995(Filter: Gaussian/2RC) DIN4776 (Filter: Special Gaussian)	<i>Ra, Rq, Rt, tp, Sm, Rp, Rv, Rmax, Pc/HSC, Rsk, Rku, R/P</i> profile. BAC, ADC <i>Rk, Mr1, Mr2, Rpk, Rvk, A1, A2, R/P</i> profile. BAC, ADC
Measuring Range		Vertical Range : 800µm Horizontal Range : 25mm Vertical Resolution : 0.0064µm Pick-up updown stroke : 33mm
Magnification	Vertical	100, 200, 500, 1,000, 2,000, 5,000, 10,000, 20,000, 50,000, 100,000 & Auto
	Horizontal	1, 2, 5, 10, 20, 50, 100, 200, 500, 1,000, 25mm/λc, 50mm/λc
Cut-off	Roughness	JIS2001R/ISO97R, JIS94, JIS82, ASME95, DIN4776 λc : 0.08, 0.25, 0.8, 2.5, R+W (JIS82モード時のみ) (R + W can be selected only in JIS82) λs : JIS94, ISO97モード時, ISO3274 : 1996に準拠 λs : Complying with ISO3274 : 1996 in JIS94 or ISO97
	Waviness	ISO97W/JIS2001W, JIS87 λc-λf/λh-fl : 0.08-0.8, 0.25-2.5, 0.8-8.0mm
Filter	JIS2001/ISO97, JIS94, ASME95	Gauss型 (50%) フィルタ Gaussian
	DIN4776	特殊 Gauss型 フィルタ Special Gaussian
	JIS82, JIS87, ASME95	2RC型 (75%) フィルタ 2RC
	(Gaussian or 2RC can be selected in ASME95)	
Auto Leveling		Least squares method(all area, first half, second half), 2-point, Parabola, Shift, None
Evaluation Length		λc×1~×9 or Optional* *0.08 to 25.0 mm with R+W in JIS82, 0.08 to (λc × 9) mm (maximum 25mm) except for R+W in JIS82.
Measuring Length		<ul style="list-style-type: none"> <li>•JIS2001/ISO97, JIS94 : Extra length(Before &amp; After, λc/λf × 0.5 each) + Evaluation length</li> <li>•JIS82, JIS87 : Extra length(Before λc × 1) + Evaluation length</li> <li>•ASME95(Gaussian) : Extra length(Before &amp; After λc/λf × 0.5 each) + Evaluation length</li> <li>•ASME95(2RC) : Extra length(Before λc × 1) + Evaluation length</li> <li>•Measurements without extra length can be carried out.</li> </ul>
Measuring Speed		0.2, 0.5 mm/sec
Return Speed		0.2, 0.5, 1.0 mm/sec and Off(auto return function)
Display		320×240 dot, Color LCD, Touch Panel
Printer		8 dots/mm, printing paper 58 mm width, thermal line-dot type
Memory		USB Memory : Storage capacity 8GB or less Connector : USB-A Format : FAT16/FAT32
Other Functions		Inverted profile display; Unit(mm/inch) switch; Measuring condition memory with 5 kinds; Calculation of average, maximum, minimum, and standard deviation values for up to 99 data; RS-232C output(KOSAKA standard output/CSV format output), Comment input/output
Pick-up		<ol style="list-style-type: none"> <li>1) Detection system : Differential transformer, stylus changeable.</li> <li>2) Stylus(standard) : Tip radius 2 µm, Tip material diamond, Tip Angle : 60 deg</li> <li>3) Skid(standard) : Radius 40 mm, Material Sapphire 4) Measuring force 0.75mN or less</li> </ol>
Straightness		0.5µm/25mm or less (KOSAKA standard)
Power Supply		AC adapter, Input : Single-phase 90 to 264 V AC, 50/60 Hz, Output : 9 V DC, 4 A
Dimensions		Drive Unit : W163×D66×H102 (Max) mm, Approx 0.7kg, Amplifier : W160×D235×H85mm, Approx 2kg

## Standard combination

Model	SE300
Pick-up	PU-A6
Stylus arm	AA2-60
Nose piece	ANA
Drive unit	DR-25X11
Amplifier	AS-300
AC adapter	
Recording paper	No.2817150
Calibration specimen	SS-N

## Option

Stylus arms	A Series
Nose pieces	A Series
Bed with column	SP-94
Drive unit table	FT-15C
Attachment for roll measurement	FT-22
Extention cable	SE-17182 Cable length :2m
RS-232C Cross cable	SE-17180 Cable length :1.5m
Battery	SE-19234
Carrying case	SE-19235

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