

Technical Requirements			
Tender Enquiry. 250240039/TE/B/21 dated 22.09.14			Vendor's confirmation/ Remarks
Sr. No.	Description	Requirement	
1	Measuring Range X axis	69" (17.5mm)	
2	Measuring Range Z axis	14200 μ in (-7900 μ in~+6300 μ in) / 360 μ m (-200 μ m ~ +160 μ m)	
3	Detector Range Resolution	14170 μ in / .8 μ in (360 μ m / 0.02 μ m), 4000 μ in / .2 μ in (100 μ m / 0.006 μ m), 1000 μ in / .08 μ in (25 μ m / 0.002 μ m)	
4	Measuring speed	Measuring: 0.01, 0.02, 0.03 in/s (0.25mm/s, 0.5mm/s, 0.75mm/s) Returning: 1mm/s	
5	Measuring force / Stylus tip	0.75mN type: 0.75mN / 2 μ mR 60°, 4mN type: 4mN / 5 μ mR 90°	
6	Skid force	Less than 400mN	
7	Applicable standards	JIS '82 / JIS '94 / JIS '01 / ISO '97 / ANSI / VDA	
8	Assessed profiles	Primary profile / Roughness profile / DF profile / Roughness profile-Motif	
9	Evaluation parameters	Ra, Rc, Ry, Rz, Rq, Rt, Rmax, Rp, Rv, R3z, Rsk, Rku, RPc, Rsm, Rmax, Rz1max, S, HSC, RzJIS, Rppi, R Δ a, R Δ q, Rlr, Rmr, Rmr(c), R δ c, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rpm, tp, Htp, R, Rx, AR, Possible Customize	
10	Analysis graphs	Bearing area curve / Amplitude distribution curve	
11	Filters	Gaussian, 2CR75, PC75	
12	Cut off length	λ c 0.003, 0.01, 0.03, 0.1" (0.08 , 0.25 , 0.8 , 2.5mm) λ s 100, 300 μ in (2.5 , 8 μ m) or none	
13	Sampling length	0.003, 0.01, 0.03, .1 " (0.08 , 0.25 , 0.8 , 2.5mm)	
14	Number of Sampling lengths (xn)	x1,x2,x3,x4,x5,x6,x7,x8,x9,x10, Arbitrary 0.01~.63" (.0001"interval) [(0.3~16.0mm: 0.01mm interval)]	
15	LCD dimensions	1.45 x 1.93" (36.7x48.9 mm)	
16	Display languages	English	

17	Calculation result display	Vertical display: 1 parameter / 3 parameter / trace to measurements, Horizontal display: 1 parameter / 4 parameter / trace to measurements (Horizontal display is invertable)	
18	Printing function	Measurement conditions / Calculation results / Calculation results for each sampling length / Assessed profile / Bearing area curve / Amplitude distribution curve / Environment setting information	
19	External I /O	USB I / F, Digimatic Output, Printer Output, RS-232C I / F, Foot SW I / F	
20	Storage	Internal memory: Measurement condition (10 sets), Measured profile (1 set) Memory card (Option): 500 measurement conditions, 10000 measured profiles, 500 display images Text file (Measurement conditions / Measured profile / Assessed profile / Bearing area curve / Amplitude distribution curve)	
21	Calibration	Saves last inputted nominal value of specimen / Average calibration with multiple measurement (Max.5 times) is available	
22	Power supply	Two-way power supply: battery (rechargeable Ni-MH battery) and AC adapter *Charging time: about 4 hours (may vary due to ambient temperature) *Endurance: about 1000 measurements (differs slightly due to use conditions / environment)	
23	Display Unit Size	2.05 x 2.6" x 6.3" (52.1x65.8x160mm)	
24	Drive Unit Size	4.5 x .9 x 1.02" (115x23x26mm)	
25	Wt.	500 Grams	
26	Standard Accessories	Roughness specimen (Ra 3.00μm) Carrying case Calibration stage Protective sheets for display AC Adapter Operation manual Quick reference manual Warranty Card	