

Surface Roughness Tester

"Surftest SJ-201 P" "Surftest SJ-301"

Series 178

Specifications

Model	SJ-201 P	SJ-301
No.	178-930-2D	178-952-3D
Measuring Range		
Z-Axis	350 μm	
X-Axis	12,5 mm	
Drive Unit		
Speed	Measuring: 0,25 mm/s; 0,5 mm/s Returning: 0,8 mm/s	Measuring: 0,25 mm/s; 0,5 mm/s Returning: 1,0 mm/s
Cable Length	1 m	
Mass	190 g	
Standard Probe (178-395)		
Measuring Method	Induction method	
Measuring Range	350 μm	
Stylus	Diamond Tip	
Radius	2 μm	
Radius Nosepiece	40 mm	
Measuring Force	0,75 mN	
Mass	18 g	
Display Unit		
Profiles	Primary Profile (P), Roughness Profile (R), DIN 4776	Primary Profile (P), Roughness Profile (R), DIN 4776, MOTIF
Parameters	Ra, Ry, Rz, Rt, Rp, Sm, S, Pc, R3z, mr A1, A2, Rq, Rk, Rpk, Rvk, Mr 1, Mr 2, Vo	Ra, Ry, Rz, Rt, Rp, Rq, Rv, Sm, S, Pc, R3z, mr, Rpk, Rvk, δ_c , Rk, Mr 1, Mr 2, Lo, Ppi, R, AR, Rx, A1, A2
Analysis Graphs	-	BAC 1, BAC 2, ADC
Roughness Standards	DIN, ISO, ANSI, ISO	DIN, ISO, ANSI, JIS
Measuring Length (L)	0,25 mm, 0,8 mm, 2,5 mm	0,08 mm, 0,25 mm, 0,8 mm, 2,5 mm, 8 mm oder Eingabe
Cut-off-Length	λ_c : 0,25 mm, 0,8 mm, 2,5 mm λ_s : 2,5 μm , 8 μm	λ_c : 0,08 mm, 0,25 mm, 0,8 mm, 2,5 mm, 8 mm λ_s : 2,5 μm , 8 μm , 25 μm
Sampling Length	x1, x3, x5, xL	
Filter	2CR-75%, 2CR-75% (phase corrected), Gauß	2RC-75%, 2RC-75% (phase corrected), Gauß-50%
Display Range	Ra, Rq: 0,01 μm ~ 100 μm Ry, Rz, Rt, R3z, Rvk, Rpk, Rk, Rp: 0,02 μm ~ 350 μm Vo: 0,000 ~ 10,00 (mm^3/cm^2) S, Sm: 2 μm ~ 4000 μm Pc: 2,5/cm ~ 5000/cm Mr 1, Mr 2: 0 ~ 100% mr: 1 ~ 100%	Ra, Rq: 0,01 μm ~ 100 μm Ry, Rz, Rt, Rv, R3z, Rk, Rpk, Rvk, R, Rp, Rx, AR, W Wx, Wte: 0,02 μm ~ 350 μm S, Sm: 2 μm ~ 4000 μm HSC, Pc: 2,5/cm ~ 5000/cm; Ppi: 6,35 ~ 12700/inch δ_c : - 350 μm ~ + 350 μm Lo: 0,1 mm ~ 99,999 mm mr, Mr 1, Mr 2: 0 ~ 100% A1, A2: 0 ~ 15000
Display/Magnification		
Vertical:	-	10x, 20x, 50x, 100x, 200x, 500x, 1000x, 2000x, 5000x, 10000x, 20000x, 50000x, 100000x, AUTO
Horizontal:	-	1x, 2x, 5x, 10x, 20x, 50x, 100x, 200x, 500x, 1000x, AUTO
Printer	Optional	Thermal Printer (Printing width: 48 mm)
Statistics	-	Max/Min, Mean Value, Standard Deviation (σ), Pass Ratio, Frequency Distribution Table
Tolerance judgement	Upper/lower limit values	Upper/lower limit values for three parameters
Meas. Condition Storage	-	5 sets of measuring conditions
Auto-sleep (turing off)	Automatically after 30 seconds without operation	Automatically after 5 minutes without operation
Calibrator	Automatic calibration entering the values and measuring of roughness specimen	
Power Supply	Via AC adapter (DC 7,5 V 1,5 W) built-in or rechargeable battery	
Rechargeable Battery	Charging time: 12 hours (for 500 measurements)	Charging time: 15 hours (for 600 measurements without printing)
Data input/output	RS-232 C interface for input/output, DIGIMATIC output	RS-232 C interface for input/output, DIGIMATIC output, Compact flash card
Mass	approx. 290 g	approx. 1200 g

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Series 178 Special Probes

