

Surftest SJ-310

Series 178 - Surftest SJ-310

- Portable surface roughness tester with touch-sensitive operation panel and integrated printer.
- The large 5.7" color LCD makes it easy to navigate through measurement conditions, results and analysis graphs.
- Easy & intuitive menu navigation.
- Complies with many industry standards like DIN EN ISO, VDA, ANSI, JIS as well as customized settings.
- 10 different measuring conditions can be stored inside the SJ-310. Up to 500 with optional SD card.
- Statistic functions and colored tolerance judgement.
- 2 different evaluation conditions within 1 measurement.
- Each function separately protectable by password.
- 16 languages supported.



Metric

No.	Description	Detector measuring force	Stylus Tip angle	Stylus Tip radius
178-570-01D	SJ-310	0.75mN	60°	2 µm
178-572-01D	SJ-310R model	0.75mN	60°	2 µm
178-574-01D*	SJ-310S model	0.75mN	60°	2 µm

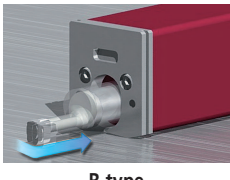
Inch/Metric

UK only

No.	Description	Detector measuring force	Stylus Tip angle	Stylus Tip radius
178-571-01E	SJ-310 model	0.75mN	60°	2 µm
178-571-02E*	SJ-310 model	4mN	90°	5 µm
178-573-02E	SJ-310R model	4mN	90°	5 µm
178-575-02E*	SJ-310S model	4mN	90°	5 µm



Standard



R-type



S-type

Specifications

Drive unit	
Measuring Speed	0,25 mm/s; 0,5 mm/s; 0,75 mm/s
Traverse	17,5 mm
Detector	
Measuring method	Differential inductive
Measuring range	350 µm (-200 µm to +150 µm)
Stylus	Diamond Tip
Skid radius	40 mm
Display unit	
Profiles	Roughness Profile (R), R-Motif, DF-Profile and more
Roughness Parameters	Ra, Rq, Rz, Ry, Rp, Rv, Rt, R3z, Rsk, Rku, Rc, RPc, RSm, Rmax, Rz1max, S, HSC, RzJIS, Rppi, RΔa, RΔq, Rlr, Rmr, Rmr(c), Rδc, Rk, Rpk, Rvk, Mr1, A1, A2, Vo, λa, λq, Lo, Rpm, tp, Htp, R, Rx, AR, W, AW, Wx, Wte
Analysis graphs	BAC, ADC
Roughness standards	DIN EN ISO, VDA, JIS, ANSI and customize setting
Sampling length (L)	0,08 mm, 0,25 mm, 0,8 mm, 2,5 mm, 8 mm
No. of sampling length (L)	1 - 10
Digital Filter	Gauss, 2CR75, PC75
Cut-off length	λc : 0,08 mm, 0,25 mm, 0,8 mm, 2,5 mm, 8 mm, λs : 2,5 µm, 8 µm
Printer	Thermal Printer
Calibration	Ra calibration, Average method up to 12 measurements available
Statistics	Max/Min, Average value, Standard deviation (s), Pass Rate, Histogram
Tolerance	Colored upper/lower limit
Interface	USB, Digimatic, RS-232C, Footswitch
Measurement conditions storage	10 sets of measuring conditions internally (optional SD card available)
Mass	1,7 kg