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Surface Roughness Tester

Surface Roughness Tester is widely used in production site to measure surface roughness of various machinery-processed parts, calculate corresponding and clearly display all measurement parameters.

Specifications			Ordering Information	
			BGD 930	BGD 931
Standard			ISO4287,DIN4768,JIS B,ANSI 146.1	
Measuring range		Ra	0.005～16μm/1.000～629.9μinch	0.050～10μm/1.000～400.0μinch
		Rq	0.005～16μm/1.000～629.9μinch	－－－－－
		Rz	0.020～160μm/0.780～6299μinch	0.020～100μm/0.780～400.0μinch
		Rt	0.020～160μm/0.780～6299μinch	－－－－－
Accuracy			≤±10%	
Resolution			0.001μm（reading＜10μm）	
			0.01μm（10μm≤reading＜100μm）	
			0.1μm（reading≥100μm）	
Fluctuation of display value			≤6%	
Profile digital filter		Filtered profile	RC,PC－RC,GAUSS	－－－－－
		Non- filtered profile	D－P	－－－－－
Sensor		Radius	5μm	10μm
		Material	Diamond	Diamond
		Measuring force	4mN（0.4gf）	16mN（1.6gf）
		Probe angle	90℃	90℃
		Vertical radius of guiding head	48mm	48mm
		Maximum driving stroke	17.5mm/0.75inch	
		Cutoff length	0.25mm,0.8mm,2.5mm	
Driving speed		Measuring	Sampling length = 0.25mm When Vt=0.135mm/s	
			Sampling length = 0.8mm When Vt=0.5mm/s	
			Sampling length = 2.5mm When Vt=1mm/s	
		Returning	Vt=1mm/s	
Evaluation length			1～5L selectable	
Metric/Imperial			Conversion	
Auto off			√	
Memory			7 Groups	－－－－－
Pc interface			RS－232C	－－－－－
Built in Li-ion battery			Rechargeable	
Operating condition		TEMP	0～50℃	
		Humidity	＜85%RH	
Dimension			140×52×48mm（5.5×2.2×1.9inch）	
Net weight			420g	

BGD 930

BGD 931

Optional accessories：
BGD 1290---RS-232 or USB cable
BGD 1291---Software
BGD 1292---Sensor for deep groove
BGD 1293---Sensor for curve surface
BGD 1294---Measuring stand