

# PORTABLE ROUGHNESS GAUGE



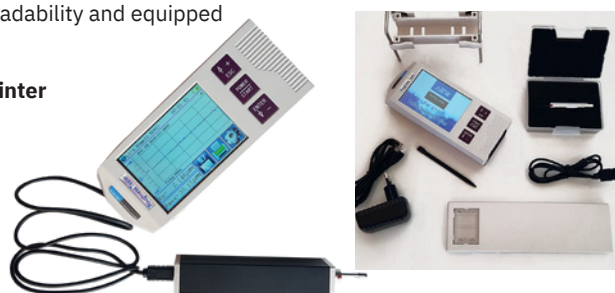
**ARW-BT300** [For order 220122857](#)

## ARW-BT300 Roughness Tester, Innovative separable translator group and Mobile APP connection

*The ARW-BT300 portable roughness tester is a high-precision instrument for measuring surface roughness. Its innovative construction features allow it to be used in various applications where other instruments fail to satisfy. It can be used on a variety of machining and surfaces, not only flat but also external conical, external cylinder, internal, curves, through holes, grooves and more. Numerous functions, including the large color graphic touch screen display and the innovative Bluetooth interface with APP connection, make it a practical, modern and reliable instrument.*



- Mechatronic and ergonomic design, small size, light weight, ease of use
- **Roughness feeler complete with translator unit that can be separated from the body** of the instrument can and be used separately for more flexible measurements in a smaller space. **Or connected directly to the main unit** creating a single instrument body for standard measurements. The hooking and uncoupling operation can be performed quickly and easily
- DSP chip control and data processing, high speed, low power consumption
- **As many as 22 roughness parameters: Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rz (JIS), Rs, Rsk, Rsm, Rku, Rmr, Ry (JIS), Rmax, RPc, Rk, Rpk, Rvk, Mr1, Mr2**
- High measuring range (320µm)
- 3.5-inch color graphic **TFT touch screen display**, wide viewing angle, excellent readability and equipped with backlighting to improve visibility in dark environments
- Commands accessible via keyboard and Touch screen display
- **Equipped with Bluetooth data interface for connection to APP and portable printer**
- Built-in Li-ion rechargeable battery with control circuit
- **Large data memory**, 100 values and curves (Graph) can be stored



### OPTIONAL ACCESSORIES

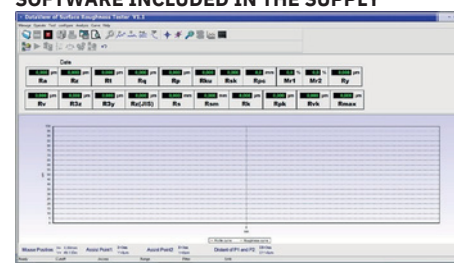
Code	Description
<b>220122879</b>	Portable printer

Parameters	Measuring range
Ra,Rq	0.005µm ~ 30µm
Rz,R3z,Ry,Rt,Rp,Rm	0.02µm ~ 320µm
Sk	0 ~ 100%
S, Sm	1mm
tp	0 ~ 100%

### TECHNICAL SPECIFICATIONS

Measuring range	Z axis (vertical)	±160 µm
Measuring range	X axis (transversal movement)	20mm
Specifications	Parameters	Ra,Rz,Rq,Rt,Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr,Ry(JIS),Rmax,RPc,Rk,Rpk,Rvk,Mr1,Mr2
Specifications	Standard	ISO,ANSI,DIN,JIS
Specifications	Graphic view	Bearing area curve, roughness profile, primary profile
Filter	RC,PC-RC,Gauss,D-P	
Sampling length (lr)	0.25, 0.8, 2.5mm	
Evaluation length(ln)	Ln=lr×n n=1~5	
Probe	feeler	Diamond, 90° angled cone, 5µmR
Probe	Force	<4mN
Power supply	internal rechargeable Lithium ion battery, Charger:	DC5V,800mA
Dimensions	instrument body: 64x53x160mm	Probe: 23x27x115mm
Weight (instrument body)	About 380g	
Operating conditions	Temperature: - 20°C ~ 40°C	Humidity: < 90% RH
Standard supply	instrument body - Probe with translation unit diamond feeler tip - roughness sample - adapter - power supply for recharging - software - USB cable - small stand - carrying case - user manual	

### SOFTWARE INCLUDED IN THE SUPPLY



### APP THAT CAN BE INSTALLED ON YOUR OWN DEVICE

