

**FMC RT-620** portable roughness measuring instrument is a new product of FMC Ltd.

RT-620 is a high accuracy surface roughness measuring instrument. It is applicable to the workshop testing station, laboratory, and metrology room environmental detection. Measurement results can be shown on digital LCD display. The result can be also output to the printer.



### Function characteristics

- ✓ Electromechanical integration design, small volume, light weight, easy to use;
- ✓ Using DSP chip to control and data processing, high speed, low power consumption;
- ✓ Large range, parameters RX, Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr;
- ✓ 128 x 64 OLED dot matrix display, digital / graphic display; highlight no perspective;
- ✓ Display information rich, intuitive, can display all the parameters and graphics;
- ✓ Compatible with ISO, DIN, ANSI, JIS national standards;
- ✓ Built-in lithium rechargeable battery and a charging control circuit, high capacity without memory effect;
- ✓ Residual battery quantity indicator icon can reminder user to charge and understand the battery charging degree.
- ✓ Machine can work more than 20 hours continuously
- ✓ Large capacity data memory, can store 100 groups of original data and waveform.
- ✓ Real-time clock settings and display, convenient data recording and storage
- ✓ Low power consumption design.
- ✓ Reliable circuit and software design can avoid system halted.
- ✓ Measurement display, menu prompt information, incorrect information and switch machine information and other tips information; Technical parameter
- ✓ RT620 can be connected to a computer and printer;
- ✓ Various optional transducers, measuring platform, mini printer, extension rod and other accessories.
- ✓ Plastic shell, inspired by "TRANSFORMERS" stylish design, portable, high reliability.
- ✓ Optional bluetooth function.

## Technical parameters:

Item	Specification
Testing parameters	Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr, Rx;
Measuring range (um)	Ra: 0.005-16.000      Rz: 0.02-160.00
Sample length (mm)	0.25, 0.80, 2.50
Evaluation length(mm)	(1-5)L
Maximum drive stroke	17.5mm/0.7inch
Indication accuracy	0.001
Indication error	±(7-10)%
Variability	<6%
Data Storage	100 groups
Power	Rechargeable li-battery
Working temperature	-20°C ~ 40°C
Size	158mmx63.5mmx46mm
Weight of Host	0.3kg

## Standard Accessories:

Item	QTY
RT-620 Main Machine	1
Standard Transducer	1
Calibration Block	1
Adjusting Support	1
Power Adapter	1
USB charging cable	1
Carrying Box	1
Operation Manual	1
Product Certificate	1



## Optional Accessories:

	<p><b>FM55-Extension rod.</b> Used to extend length of sensor when testing deep hole (55mm)</p>
	<p><b>FM90 -Right angle</b> measuring mechanism.</p>
	<p><b>FM100 -standard sensor</b>, plane &amp; shaft &amp; inner surface of hole&gt;6mm, depth &lt;22mm</p>
	<p><b>FM120 -small hole sensor</b>, cylindrical&amp; plane &amp;inner surface of hole&gt;2 mm, depth &lt;9mm</p>
	<p><b>FM110 -sensor</b> for curved surface&amp; plane, cylindrical, curvature radius&gt;3 mm, work with platform KA620</p>
	<p><b>FM131 -sensor for deep groove</b>, cylindrical &amp; plane &amp; groove width&gt;3 mm, depth&lt;10mm work with platform KA620</p>
	<p><b>FM520 -Metal working platform</b>, elevating, convenient and stable for test process.</p>
	<p><b>AD620 -Marble substrate working platform</b>, elevating, V groove, high accuracy to test tiny work piece</p>
	<p><b>Roughness comparison block</b> High quality comparison block of surface roughness Strict anti-rust treatment process 30 comparison block/set</p>
	<p><b>Mini Pinter</b> External printer for RT620</p>