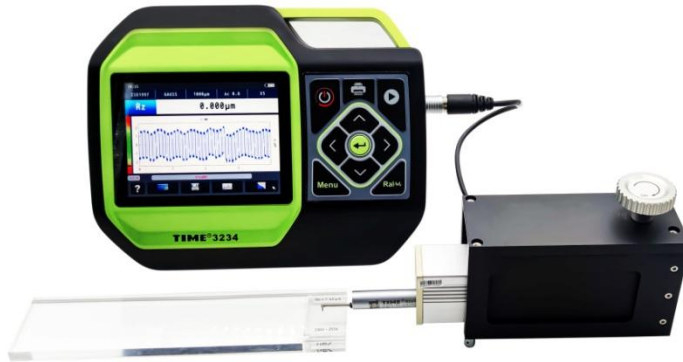


New Time 3234 Surface Waviness / Roughness Tester



TIME 3234 is a skid-less & skidded portable stylus surface waviness / roughness tester, suitable for testing in workshop, laboratory, metrology center and etc. It can measure roughness, waviness and primary profile. The test results can be displayed digitally and graphically on screen, or output to PC and profile analysis can be done by powerful software program.

- Using Linux operation system. High calculation accuracy, fast data processing speed and friendly user interface.
- Skid-less and skidded pick up stylus makes efficient to test curved surfaces roughness.
- detachable pick up stylus probe
- Unit is able to measure surface roughness and waviness together with primary profile.
- wide measuring range up to 1000µm and maximum tracing length is up to 50mm.
- 5.7inch TFT LCD screen to clearly display the evaluation curves.
- Touch screen for quickly setting the required parameters
- Mouse operation is allowed
- Store 10,000 groups of measuring conditions and data.
- Measurement data can be stored in U disk.
- Equipped with powerful analysis software
- Print measurement parameters and profile curves.
- Conforming to the roughness standards including ISO4287-1997, JIS 0601: 2001; ANSI; SEP1941-2012

Technical specifications:

Item	Description
Profile	R, W, P, R-Motif, W-Motif
Measuring parameters	See the Table 1 below
Filter	Gauss, 2RC
Cutoff I	0.08mm, 0.25mm, 0.8mm, 2.5mm, 5mm, 8mm, 10mm
Evaluation length l_n	(1-5)l or setting by requirement
Measuring range	Y-axis:1000 μ m (\pm 500 μ m) X-axis: 50mm
Max. resolution	0.0003 μ m
Tracing length	50mm
Repeatability	1.5%(Skid), 3%(Skidless)
Storage	10000 groups of measuring conditions and data
Interface	USB, RS232
Power	Built-in lithium-ion rechargeable batteries / External power adapter
Working temperature	0°C~40°C
Storage temperature	-25°C~60°C
Humidity	<90%
Main unit dimension	260mm×210mm×68mm
Main unit weight	1.5Kg
Driver dimension	195.5mm×60mm×122mm
Driver weight (with portable stand)	1.58Kg
Power adapter	Input: 100 V~240VAC, 50/60Hz; Output: 9V, 3A

Table 1: Available measuring parameters:

Standard	Profile Curves	Parameters
ISO1997	R	Ra, Rq, Rz, Rp, Rv, Rsk, Rku, Rc, R _{Pc} [*] , R _{Sm} , R _{Δq} , R _{mr} [*] , R _{mr(c)} [*] , R _{δc} [*] , Rt, R _{z1max} , R _k , R _{pk} , R _{vk} , Mr1, Mr2, A1, A2, Vo
	P	Pa, Pq, Pz, Pp, Pv, Psk, Pku, Pc, P _{Pc} [*] , P _{Sm} , P _{Δq} , P _{mr} [*] , P _{mr(c)} [*] , P _{δc} [*] , Pt, P _{z1max}
	W	Wa, Wq, Wz, Wp, Wv, Wsk, Wku, Wc, W _{Pc} ¹ , W _{Sm} , W _{Δq} , W _{mr} [*] , W _{mr(c)} [*] , W _{δc} [*] , Wt, W _{z1max}
JIS2001	R	Ra, Rq, Rz, Rp, Rv, Rsk, Rku, Rc, R _{Sm} , R _{JIS} , R _{Δq} , R _{mr} [*] , R _{mr(c)} [*] , R _{δc} [*] , Rt
	P	Pa, Pq, Pz, Pp, Pv, Psk, Pku, Pc, P _{Sm} , P _{JIS} , P _{Δq} , P _{mr} [*] , P _{mr(c)} [*] , P _{δc} [*] , Pt
	W	Wa, Wq, Wz, Wp, Wv, Wsk, Wku, Wc, W _{Sm} , W _{JIS} , W _{Δq} , W _{mr} [*] , W _{mr(c)} [*] , W _{δc} [*] , Wt
ANSI	R	Ra, Rq, Rz, Rp, Rv, Rsk, Rku, R _{Pc} [*] , R _{Sm} , R _{Δa} , R _{Δq} , H _{tp} [*] , t _p [*] , Rt, R _{max} , R _{pm}
	W	Wa, Wq, Wz, Wp, Wv, Wsk, Wku, W _{Pc} [*] , W _{Sm} , W _{Δa} , W _{Δq} , H _{tp} [*] , t _p [*] , Wt, W _{max} , W _{pm}

Standard Delivery

TIME 3234 main unit	1
Standard Pick up stylus probe	1
Probe driver	1
Calibration certificate	1
Portable stand (please see image below)	1
Software and USB cable	1
Standard plate	1
Battery charger	1
Instruction manual	1

Portable Stand in the standard package for adjusting the height of the probe stylus in order to level it with the surface of test piece:

