

SURFACE ROUGHNESS TESTER

SADT ROUGHSCAN

SADT RoughScan tester is a portable, battery-powered instrument for checking surface roughness with the measured values displayed on a digital readout. The instrument can be used in the laboratory, an inspection area, in the shop, or wherever on-site surface roughness testing is required. ●



Specifications

SADT RoughScan			
Measuring Range	Ra: 0.03μm~6.3μm/1μ"~250μ" Rz: 0.2μm~50.0μm/8μ"~999μ" Ry/Rmax: 0.2μm~25μm/8μ"~999μ"	Readout Error	±10%
		Stability	≤6%
		Sensor Type	Piezoelectric
Resolution	0.01μm/1μ"	Maximum stylus force	15.0mN/1500mgf
Cut-off	0.8mm/0.30", ANSI 2RC Filter	Working Environment	10°C~45°C
Display	3-digit LCD	Storage Temperature	0°C~60°C

Traverse length	Evaluation length	Numbers of cutoff
0.5mm	0.25mm	1
1.2mm	0.8mm	
5.5mm	5.0mm	
1.25mm	0.75mm	3
3.0mm	2.4mm	
5.5mm	5.0mm	
1.75mm	1.25mm	5
4.5mm	4.0mm	
5.5mm	5.0mm	

Optional Probes

Probe	Application	
General purpose probe SFP-2001/ SFP-2002	For most surface roughness applications. SFP-2001 has a 90° conical diamond stylus, .0004"/10μm radius per ISO standards. SFP-2002 has a 90° conical diamond stylus, .0002"/5μm radius per DIN standards.	
Transverse chisel probe SFP-2003	For gaging sharp edges or small O.D.'s where probe is aligned with (in 180° or closed position) to axis of traverse. 90° diamond chisel stylus, .0004"/10μm radius.	
Parallel chisel probe SFP-2004	For gaging sharp edges or small O.D.'s where probe is perpendicular (in 90° or 270° position) to axis of traverse. 90° diamond chisel stylus, .0004"/10μm radius.	
Small bore probe SFP-2005/SFP-2006	For measuring small bores (min. inside diameter of 5.0mm, up to a depth of 15.0mm). 90° conical diamond stylus, .0004"/10μm radius for SFP-2005; 90° conical diamond stylus, .0002"/5μm radius for SFP-2006	
Groove bottom probe	For measuring the bottoms of "O" ring grooves, recesses and holes to depth of 6.0mm. Also used for short lands and shoulders. 90° conical diamond stylus, .0004"/10μm radius.	

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Standard package - RoughScan

RoughScan main unit	1
Standard probe	1
Calibrate plate with the reference specimen	1
9-volt alkaline battery	1
Screw driver	1
Operation manual	1
Carrying case	1

Optional accessories

- General Purpose Probe SFP-2001
- General Purpose Probe SFP-2002
- Transverse Chisel Probe SFP-2003
- Parallel Chisel Probe SFP-2004
- Small Bore Probe SFP-2005
- Small Bore Probe SFP-2006
- Groove bottom probe SFP-2007
- Height Stand
- Standard test block

