

# SURFACE ROUGHNESS TESTER

## SADT ROUGHSCAN

**S**ADT 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. ●

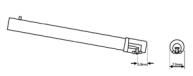
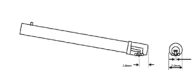
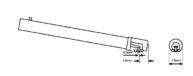
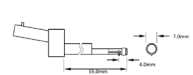
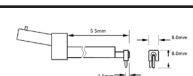


### Specifications

SADT RoughScan			
Measuring Range	Ra: 0.03 $\mu$ m~6.3 $\mu$ m/1 $\mu$ "~250 $\mu$ " Rz: 0.2 $\mu$ m~50.0 $\mu$ m/8 $\mu$ "~999 $\mu$ " Ry/Rmax: 0.2 $\mu$ m~25 $\mu$ m/8 $\mu$ "~999 $\mu$ "	Readout Error	$\pm 10\%$
		Stability	$\leq 6\%$
		Sensor Type	Piezoelectric
Resolution	0.01 $\mu$ m/1 $\mu$ "	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	
<b>General purpose probe SFP-2001/ SFP-2002</b>	For most surface roughness applications. SFP-2001 has a 90° conical diamond stylus, .0004"/10 $\mu$ m radius per ISO standards. SFP-2002 has a 90° conical diamond stylus, .0002"/5 $\mu$ m radius per DIN standards.	
<b>Transverse chisel probe SFP-2003</b>	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"/10 $\mu$ m radius.	
<b>Parallel chisel probe SFP-2004</b>	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"/10 $\mu$ m radius.	
<b>Small bore probe SFP-2005/SFP-2006</b>	For measuring small bores (min. inside diameter of 5.0mm, up to a depth of 15.0mm). 90° conical diamond stylus, .0004"/10 $\mu$ m radius for SFP-2005; 90° conical diamond stylus, .0002"/5 $\mu$ m radius for SFP-2006	
<b>Groove bottom probe</b>	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"/10 $\mu$ m radius.	

### Surface Roughness Tester

#### 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

