

# Surtronic S-100 series

Robust and portable surface roughness testers



## Durable roughness testers for shop floor, industrial & inspection room applications

Working closely with manufacturers across a wide range of industries including precision bearings, automotive and aerospace engineering, Taylor Hobson have focussed on the key attributes that are most important for quality control in today's precision industries.

The new Surtronic S-100 series of instruments offer a versatile solution for all your roughness requirements with a variety of systems and application specific accessories along with fixtures that can be tailored to your specific need.

## USB Connectivity

Through its industry standard Type A USB port and mini USB port the S-100 series instruments provide extensive connectivity options to many standard devices.

### USB type A

The Type A USB port can be used to attach a portable printer (ESC/POS compatible), see 'Accessories' page or a standard USB storage device for recording results, raw data or screen images.

### USB mini

The mini USB port can be used for charging (with any standard USB charger) and / or connection to a PC to provide further analysis and reporting functionality.



# Surtronic® S-100 series

A range of roughness testers robust enough for the shop floor and flexible enough for any inspection room.

### Measure

Tactile measurement button, great when device is being used overhead or inside pipes

### Lift/lower

Supplied as standard providing 50 mm height adjustment, right angle measurement and 70 mm reach into bores

### Anti-slip feet

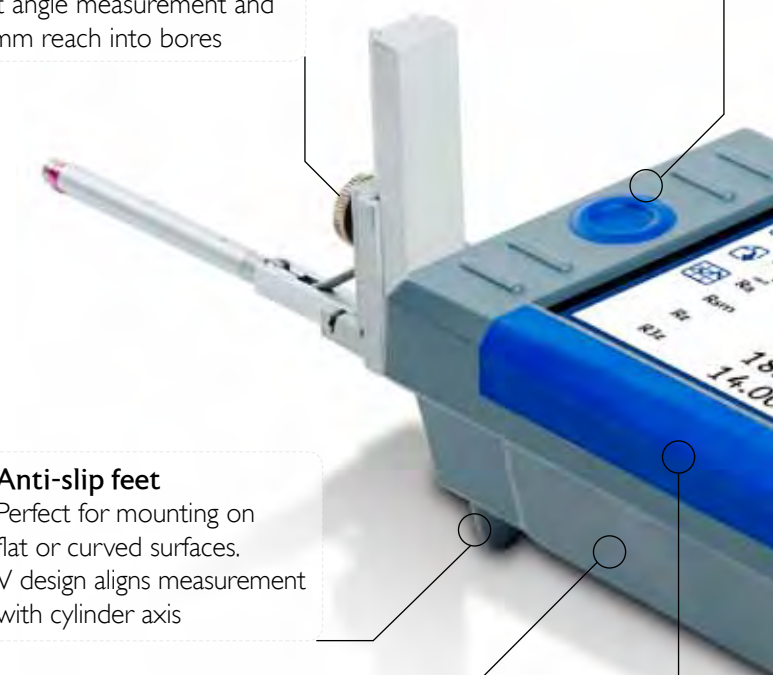
Perfect for mounting on flat or curved surfaces. V design aligns measurement with cylinder axis

### Comfort grip

Sits comfortably in the hand when reviewing results or changing settings

### Rubberised moulding

Added protection and better grip in the hand invaluable in shop floor environments



- ✓ Improve throughput
- ✓ Reduce part scrappage
- ✓ Monitor tool wear
- ✓ Ensure traceability

#### Profile graph

Detailed graph shows measured area to help identify problem areas

#### Simple set up

Shortcuts provided for all the key settings to give instant access with just a single touch

#### USB mini

for charging (with any standard USB charger) and / or connection to a PC for data transfer

#### USB type A

attach a portable printer or USB storage device

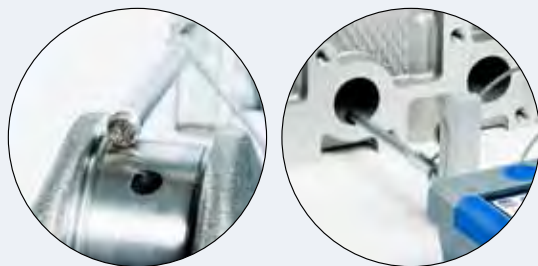
#### Orientation

Fix the display in 1 of 4 orientations perfect for awkward measurements

## Features

### Any surface, any height

The inclusion of a 50mm stylus lift with right-angle attachment and more than 70mm stylus reach means that even the most challenging surfaces can be measured without the need for expensive riser blocks, stands or fixtures. The anti-slip V-feet also mean the system can be used on flat or curved surfaces. The stylus can even measure upside down!



### Standards and traceability

The reference standard supplied can be used both to calibrate the instrument and check for stylus wear to ensure the most accurate results are always being achieved.

Measurement	Best capability
Roughness standards (Ra)	$\pm(2\% + 0.004\mu\text{m})$
Workpiece or component surface texture (Ra)	$\pm 3\%$ of measured value per track

### UKAS Calibration and Testing

Taylor Hobson provides full certification for artefacts and instruments in our purpose built ISO graded clean room UKAS facility. Our UKAS laboratory is able to measure all of the parameters associated with surface texture, including French, German, USA and Japanese derivatives.



TAYLOR HOBSON  
A8248 ISO9001

## Serving a global market

Taylor Hobson is world renowned as a manufacturer of precision measuring instruments used for inspection in research and production facilities. Our equipment performs at nanometric levels of resolution and accuracy.

To complement our precision manufacturing capability we also offer a host of metrology support services to provide our customers with complete solutions to their measuring needs and total confidence in their results.

Contracted Services from Taylor Hobson

- **Inspection services**  
measurement of your production parts by skilled technicians using industry leading instruments in accord with ISO standards
- **Metrology training**  
practical, hands-on training courses for roundness and surface finish conducted by experienced metrologists
- **Operator training**  
on-site instruction will lead to greater proficiency and higher productivity
- **UKAS Calibration and Testing**  
certification for artifacts or instruments in our laboratory or at customer's site

For the above services, contact our Center of Excellence:  
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- **Design engineering**  
special purpose, dedicated metrology systems for demanding applications
- **Precision manufacturing**  
contract machining services for high precision applications and industries
- **Preventative maintenance**  
protect your metrology investment with a Tallycare service cover plan

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