



Surtronic 25

This new edition of the long-standing Surtronic range brings a large display with the simplest of menu structures and the most up-to-date parameters. Its mechanical rigidity and styli have a firm reputation for giving reliable and repeatable surface finish measurements across a wide range of applications.

The Surtronic 25 is battery powered and offers total portability. The instrument can be used either freestanding (on horizontal, vertical or even inverted surfaces) or bench mounted with fixturing for batch measurement and laboratory applications.

This accurate and reliable instrument offers complete flexibility and simplicity:

- Parameter Options to suit your application
- Fast Measurement Cycle
- Intuitive Menu Structure
- Unique Stylus Lift Mechanism for total flexibility
- Long Traverse Length and extended Pick-up reach
- Comprehensive Range of Accessory & Pick-up options
- Powerful software option
- Worldwide technical support



All measured parameters are displayed simultaneously on the large LCD screen

Parameter Options to suit your application

The Surtronic 25 can calculate up to 10 parameters according to your measurement application:

Amplitude Parameters (measures the vertical characteristics of the surface deviations):

- Ra (Arithmetic Mean Deviation)
- Rsk (Skewness)
- Rz (Average peak to valley height)
- Rt (Total height of profile)
- Rp (Max profile peak height)
- Rz1max (Max peak to valley height)

Spacing Parameters (measures the horizontal characteristics of the surface deviations):

- RPc (Peak count)
- RSm (Mean width of profile elements)

Hybrid Parameters (combinations of spacing and amplitude parameters):

- Rmr (Material Ratio)
- Rda - R Delta a (Arithmetic Mean Slope)

The above parameters cover the most common requirements to check lubrication, feed rates, stresses, friction and wear properties. Additional parameters can be analysed with the addition of Talyprofile software (see page 4).

Fast Measurement Cycle

The Surtronic 25 incorporates the latest electronics for very fast analysis - results are calculated and displayed even before the traverse unit returns. This fast processing, combined with intuitive menu buttons, greatly reduces measurement cycles.

Intuitive Menu Structure

The Surtronic 25 incorporates a large LCD screen which allows full menu and measurement results to be displayed. Using only two buttons the user can scroll through the menus and make selections intuitively before pressing the MEASURE key.

All selections become the default for future measurements and are saved even if the instrument is powered down or "sleeping" to conserve power. The selection criteria and the measurement results are displayed clearly on the large LCD screen, ready to print or export to a PC.

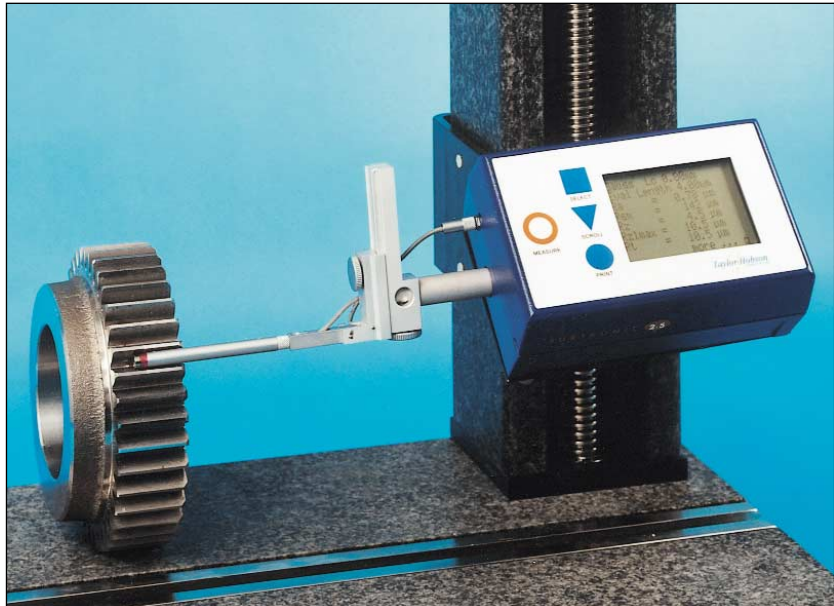
Unique Stylus Lift Mechanism

The Surtronic 25 has a uniquely engineered stylus lift mechanism which **allows a vertical adjustment of 50mm and rotation of the pick-up to different measuring positions, including right angle or inverted measurements.** These adjustments to the height and position of the gauge allow areas and features of a part to be easily measured without additional complex fixturing. This feature saves the operator a huge amount of set up time and allows total flexibility. Typical applications where the stylus lift is invaluable include the measurement of steps, bores, grooves and lands.



Long traverse length and extended Pick-up reach

The Surtronic 25 can traverse up to 25mm (or as little as 0.25mm) depending on your component. In addition, the stylus length and pick-up configuration give a long reach, making it **an ideal instrument for features such as large and narrow bores.** Optional extension rods extend the pick-up further (see accessories page).



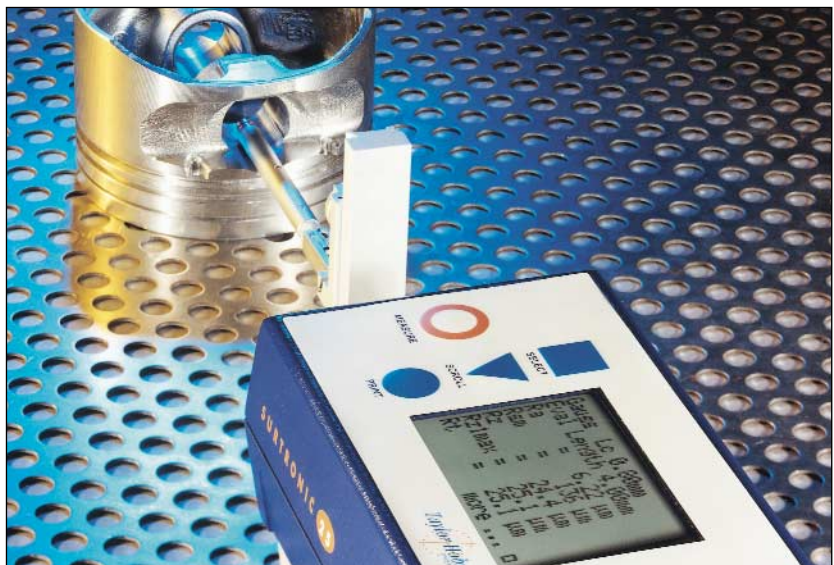
Comprehensive Range of Accessories & Pick-ups

Taylor Hobson has developed an extensive range of pick-ups and accessories to suit the varied measurement needs of our customers. In addition to the pick-ups shown on page 6 our applications department regularly designs and manufactures pick-ups and fixturing for specific requirements.

The dimensions of the Surtronic 25 and the pick-ups available are all **fully compatible with existing Surtronic 3, 3P and 3+ instruments.**

Powerful Software Options

The Surtronic 25 includes an RS232 multi-function port which allows connection of a printer or export of measurement results to a PC for further analysis using the optional Talyprofile software (see next page). By setting the Surtronic 25 to 'Data Dump' mode, measurements and setup can be instigated directly from the Talyprofile software.



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:

email: taylor-hobson.cofe@ametek.com
 or call: +44 116 276 3779

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For the above services, contact our Sales Department:

email: taylor-hobson.sales@ametek.com
 or call: +44 116 246 3034



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TAYLOR HOBSON
A8248 ISO9001

Taylor Hobson France

Rond Point de l'Epine Champs
 Batiment D, 78990 Elancourt, France
 Tel: +33 130 68 89 30 Fax: +33 130 68 89 39
taylor-hobson.france@ametek.com



Taylor Hobson Germany

Postfach 4827, Kreuzberger Ring 6
 65205 Wiesbaden, Germany
 Tel: +49 611 973040 Fax: +49 611 97304600
taylor-hobson.germany@ametek.com



Taylor Hobson Italy

Via De Barzi
 20087 Robecco sul Naviglio, Milan, Italy
 Tel: +39 02 946 93406 Fax: +39 02 946 93450
taylor-hobson.italy@ametek.com



Taylor Hobson Japan

Sankyo Meguro Building 4-5-37,
 Kamiosaki, Shinagawa-Ku, Tokyo 141-0021, Japan
 Tel: +81 33494 5110 Fax: +81 33494 5119
taylor-hobson.japan@ametek.com



Taylor Hobson Korea

#310, Gyeonggi R&DB Center, 906-5, Iui-dong
 Yeongtong-gu, Suwon, Gyeonggi, 443-766, Korea
 Tel: +82 31 888 5255 Fax: +82 31 888 5256
taylor-hobson.korea@ametek.com



Taylor Hobson China Beijing Office

Room 2305, CITIC Building #19
 Jianguomenwai Dajie, Beijing, 100004, China
 Tel: +86 10 8526 2111 Fax: +86 10 8526 2141
taylor-hobson.beijing@ametek.com



Taylor Hobson China Shanghai Office

Part A, 1st Floor, Waigaoqiao Free Trade Zone
 Shanghai, 200131, China
 Tel: +86 21 58685111-110 Fax: +86 21 58680969-110
taylor-hobson.shanghai@ametek.com



Taylor Hobson Singapore

AMETEK Singapore, 10 Ang Mo Kio Street 65
 No. 05-12 Techpoint, Singapore 569059
 Tel: +65 6484 2388 Ext 120 Fax: +65 6484 2388 Ext 120
taylor-hobson.singapore@ametek.com



Taylor Hobson USA

1725 Western Drive
 West Chicago, Illinois 60185, USA
 Tel: +1 630 621 3099 Fax: +1 630 231 1739
taylor-hobson.usa@ametek.com



Taylor Hobson UK

(Global Headquarters)
 PO Box 36, 2 New Star Road
 Leicester, LE4 9JQ, England
 Tel: +44 116 276 3771 Fax: +44 116 246 0579
 email: taylor-hobson.uk@ametek.com

