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

Profile graph
Detailed graph shows measured area to help identify problem areas

USB 2.0 type A
attach a portable printer or USB storage device

USB 2.0 mini
for charging (with any standard USB charger) and / or connection to a PC for data transfer

Orientation
Rotate the display to any of 4 orientations – perfect for awkward measurements

Features
Any surface, any height
The inclusion of a 50 mm stylus lift with right-angle attachment and more than 70 mm 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.

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Best capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roughness standards (Ra)</td>
<td>±(2% + 0.004 µm)</td>
</tr>
<tr>
<td>Workpiece or component surface texture (Ra)</td>
<td>±3% of measured value per trace</td>
</tr>
</tbody>
</table>

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.
Tough, fast and reliable handheld roughness testers...
Durable roughness testers for shop floor, industrial & inspection room applications

Fast and reliable
Simply press the measurement button and in a few seconds a full set of traceable measurement results including a detailed profile graph will be displayed or printed automatically, printer optional.

Built to last, by design...
Impact resistant rubberised mouldings surround a recessed, Mylar protected high durability touch screen and a solid stainless steel drive mechanism with anti-wear gears and bearings. System power is provided by a 3000 mAh heavy duty Li-Poly battery that can provide up to 2000 measurements from a single charge.

InstantOn
By utilising InstantOn technology these instruments are ready to measure in less than 1 second from standby and fully charged can remain in standby for more than 5000 hours!

In situ measurements
Monitor wear and roughness changes in situ during product’s life. Eg. Monitoring changes in turbine blade roughness as an early warning sign for defects and efficiency losses.

User-friendly, not user-hostile!
The Surtronic S-100 series systems are as easy to use as any SatNav (GPS) or SmartPhone with a 4.3” daylight readable industrial touch screen display. Results are displayed with up to 7 parameters per page as well as measurement settings and system information.

<table>
<thead>
<tr>
<th>Process control</th>
<th>Automotive</th>
<th>Heavy industry</th>
<th>Aerospace</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding, turning, milling, honing, polishing, extrusion</td>
<td>Gears, con rods, cylinders, blocks, crankshafts</td>
<td>Shipbuilding, pipelines, sheet steel</td>
<td>Turbine blades, turbine shafts, wing composites</td>
<td>Print rollers, flooring, bonding</td>
</tr>
</tbody>
</table>
Fully integrated measurement solution

By selecting a Surtronic S-100 series stand and printer (see ‘Accessories’ page) a fully integrated roughness measurement station can be realised. Roughness measurements can be easily made on multiple parts, results stored internally or on a standard USB memory device and printed to accompany the part to its next stage of manufacture or end user.
Advanced surface finish analysis

TalyProfile is a dedicated PC based software package designed for use with Surtronic S-100 series instruments. Three versions are available. TalyProfile “Lite” has all functions typically used for a shopfloor inspection, TalyProfile “Silver” has enhanced features for R&W parameters, a statistics module and full report printing and TalyProfile “Gold” has complete laboratory analysis functions.

Outstanding graphics

The software is visually advanced and provides clear on screen profile images. TalyProfile allows the user to take a basic measurement and create a full measurement report using the software’s detailed analysis options and desktop publishing function (see screen displays opposite for examples).

Advanced time-saving analysis templates

A ‘template’ can be created whereby a sequence of analysis functions can be saved and applied to future measurements, turning detailed reporting tasks into routine documents.

Desktop publishing facility

TalyProfile offers a comprehensive desktop publishing function which allows clear presentation of measurements, results and profiles. Graphs, profiles and results can be arranged from within the TalyProfile software or copied into other wordprocessing documents giving complete flexibility in reporting.

In depth analysis

Profiles can be levelled and zoomed to remove unwanted features or defects from the analysis. Distance measurement between features of a profile are easily achieved and the information can be displayed graphically and numerically. Step height and the area of a valley or peak can also be calculated.

Full compatibility

Surface finish results from other Taylor Hobson surface roughness instruments can be imported to TalyProfile software, allowing a uniform report style to be used throughout your workshop or laboratory.

PC specification

<table>
<thead>
<tr>
<th>Recommended</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows 7*</td>
</tr>
<tr>
<td>Memory (RAM)</td>
<td>3 GB</td>
</tr>
<tr>
<td>CPU speed</td>
<td>2 GHz</td>
</tr>
<tr>
<td>Screen resolution</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>USB port</td>
<td>2.0</td>
</tr>
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</table>

TalyProfile parameters

<table>
<thead>
<tr>
<th>TalyProfile parameters</th>
<th>Lite</th>
<th>Silver</th>
<th>Gold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surtronic S-series acquisition</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Desktop publishing templates</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-language support</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>EN, FR, DE, ES, IT, PL, CN, KR</td>
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<tr>
<td>Levelling</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Symmetries</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Zoom</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>ISO 4287</td>
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<td>✓</td>
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</tr>
<tr>
<td>Material Ratio Curve</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Area of a hole/peak</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Profile parameters &amp; curves</td>
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<tr>
<td>Roughness &amp; waviness curves</td>
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<tr>
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<td>Multiple file format reports</td>
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<td>Report printing</td>
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<td>Form Talysurf data import</td>
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<td>Tolerance limits (pass/fail)</td>
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<td>Data file explorer</td>
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<td>ISO 13565 Automotive</td>
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<tr>
<td>Interactive MR curve</td>
<td>✓</td>
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<tr>
<td>Form removal</td>
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<tr>
<td>Filtering by FFT</td>
<td>✓</td>
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<tr>
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<td>✓</td>
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<td>Retouch profile point</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Rk parameters</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Rk Parameters curves</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>ISO 12085 R&amp;W motifs</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

ISO 4287

- Rz, Rp, Rv, Rz, Rt, Ra, Pq, Rk
- Rku, RSm, Rdq, Rmc, Rdc, Rtc
- Pp, Pp, Pp, Pp, Pp, Pp, Pp, Pp
- PSm, Ppd, Pmr, Pmr, Pmr
- Wp, Wv, Wv, Wv, Wv, Wv, Wv, Wv
- Wku, WSm, Wdq, Wmc, Wdc, WPc

ISO 13565

- R, AR, Rv, Pt, Kz, Nf, SR, SAR
- W, AW, Wf, Wf, Wf, NW, NW, SAW
- Trc, HTrc, Rke, Rpk, Rvk

ISO 12085

- R, AR, Rv, Pt, Kz, Nf, SR, SAR
- W, AW, Wf, Wf, Wf, NW, NW, SAW
- Trc, HTrc, Rke, Rpk, Rvk

Other 2D Parameters

- Plq, Pda, Plu, Plo, Plq, Plq, P3z
- Pmax, Ppm, Py, PH, PHSIC, PD, PS
- Pvo, Pvs, Ptp, Pnt, Ptd, Ppm
- Rlq, Rld, Rld, Rld, Rld, Rld
- Rmax, Rtm, Ry, RH, RHSC, RD, RS
- Rvo, Rvms, Rtp, Rhtp, Rtd, Rpm
- Wlq, Wd, Wlq, Wd, Wlq, Wlq, Wlq
- Wmax, Wm, Wj, Wj, Wj, Wj, Wj, Wj
- Wvo, Wms, Wtp, Whtp, Wtp, Wtp

Applicative Parameters

- PG, AF, CH
- ASME B46.1
- Rt, Rp, Rv, Rz, Rpm, Rmax, Ra
- Rq, Rsk, Rku, Rku, Htp, Pc, Rda, Rdq, RSm, Wt

Addon

- MaxHeight, AverageHeight, MinHeight, MaxArea, AverageArea, MinArea
Accessories

1. **USB Thermal Printer**
   Compact & highspeed 60 mm (24 in) / second. Includes USB lead and International Power Supply Outputs settings, results, and high resolution graph
   code PR-60

2. **Thermal Paper** – 79 mm width, type. A single unit of paper is 20 x 12.5 metre rolls
   code PR-61

3. **Column and Stand** – Granite base (400 x 250 mm) with manually operated column providing adjustment height of 260 mm
   code SA-80

4. **Precision Vice** – High quality precision vice ideal for holding small components. Jaw width 63 mm, jaw depth 32 mm, jaw opening 85 mm
   code SA-31

5. **Hard Transport Case** – Air and water tight case that provides the Surtronic S100 with extra protection for safe storage and/or transportation.
   code SA-54

6. **Support Stand** – With 4 degrees of freedom. Max measuring height of 430 mm and a range of 115 mm at a horizontal reach of 305–420 mm.
   code SA-85

7. **Datum Support Stand** – Provides an independent straight datum requires pick-up to be fitted with the detachable skid, see below
   code SA-90

8. **Detachable Skid** – For use with Datum Support Stand, clamped to the pick up body, this accessory is required for use with the Datum Support Stand.
   code SA-91

9. **Pick-up Lift** – For controlled lifting and lowering of the pickup to aid measurement setup.
   code SA-20

10. **Portable Base** – Provides a support when used on machine tool applications.
    code SA-40

11. **S-series Mains Adaptor** – International USB charger 5V 1A 110-240VAC 50/60Hz
    Recharges S116 / S128 in 4 hours
    code SC-10

12. **Deep Bore Extension Rods**
    Provides extension to pick-up for measurements in deep holes.
    (100 mm extension) reach 160mm
    code SA-25
    (200 mm extension) reach 260mm
    code SA-28

13. **Calibration Standard** – Ra 6.0um (236 uin)
    code CS-10

14. **Dot Matrix Printer** – Robust, high speed, high performance, easy-to-use printer with USB connection.
    code PR-40

15. **Dot Matrix Paper** – 76 mm width.
    A single unit of paper is 10 x 46 metre rolls.
    code PR-41
### Surtronic S-series dimensions

![Surtronic S-series dimensions diagram](image)

<table>
<thead>
<tr>
<th>Technical</th>
<th>S-116</th>
<th>S-128</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Languages</strong></td>
<td>Basic</td>
<td>Extended, English, French, German, Italian, Spanish <strong>Asian</strong></td>
</tr>
<tr>
<td><strong>Data output</strong></td>
<td>On-screen up to 7 results per page, selectable on-screen graph with XZ axis</td>
<td>Printer</td>
</tr>
<tr>
<td><strong>Data storage</strong></td>
<td>Internal 100 measurement results, 1 raw profile</td>
<td>USB (4GB supplied) &gt;39,000 raw profiles, up to 100,000 results per batch (&gt;70 batches)</td>
</tr>
<tr>
<td><strong>SPC / stats</strong></td>
<td>Internal Optional Min, Max, Mean, StdDev of stored results</td>
<td>USB (4GB supplied) Optional ASCII export of all results for SPC</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Charger</td>
<td>USB 5v 1A 110-240VAC 50/60Hz</td>
</tr>
<tr>
<td><strong>Component capacity</strong></td>
<td></td>
<td><strong>S-116</strong></td>
</tr>
<tr>
<td><strong>Physical specifications</strong></td>
<td>Weight including pickup</td>
<td>0.5 Kg (1.1 lbs)</td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating conditions</strong></td>
<td>Temperature</td>
<td>5 - 40 °C (41 - 104 °F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>0 - 80 % non-condensing</td>
<td></td>
</tr>
<tr>
<td><strong>Storage conditions</strong></td>
<td>Temperature</td>
<td>0 - 50 °C (32 - 122 °F)</td>
</tr>
</tbody>
</table>
### Measurement capability

<table>
<thead>
<tr>
<th></th>
<th>S-116</th>
<th>S-128</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge Range (µm)</td>
<td>200 / 100 / 10</td>
<td>400 / 100 / 10</td>
</tr>
<tr>
<td>Resolution (nm)</td>
<td>100 / 20 / 10</td>
<td>50 / 10 / 5</td>
</tr>
<tr>
<td>Noise floor (Ra)</td>
<td>250 / 150 / 100</td>
<td>150 / 100 / 50</td>
</tr>
<tr>
<td>Repeatability (Ra)</td>
<td>1 % of value + noise</td>
<td>0.5 % of value + noise</td>
</tr>
<tr>
<td>Pickup type</td>
<td>Inductive</td>
<td></td>
</tr>
<tr>
<td>Gauge force</td>
<td>150-300 mg</td>
<td></td>
</tr>
<tr>
<td>Stylus tip radius</td>
<td>5 µm (200 µin) default / 2 µm (80 µin) or 10 µm (400 µin) optional</td>
<td></td>
</tr>
<tr>
<td>Measurement type</td>
<td>Skidded</td>
<td></td>
</tr>
<tr>
<td>Calibration Process</td>
<td>Automated software calibration routine</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>Able to calibrate to ISO 4287 roughness standards</td>
<td></td>
</tr>
<tr>
<td>Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter cut-off</td>
<td>0.25 mm / 0.8 mm / 2.5 mm</td>
<td></td>
</tr>
<tr>
<td>Filter type</td>
<td>2CR / Gaussian</td>
<td></td>
</tr>
<tr>
<td>Evaluation length</td>
<td>0.25 mm - 175 mm (0.01 in - 0.70 in)</td>
<td>0.25 mm - 25.0 mm (0.01 in - 1.00 in)</td>
</tr>
<tr>
<td>Max X axis range</td>
<td>17.5 mm</td>
<td>25.5 mm</td>
</tr>
<tr>
<td>Speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring speed</td>
<td>1 mm / sec (0.04 in / sec)</td>
<td></td>
</tr>
<tr>
<td>Returning speed</td>
<td>1.5 mm / sec (0.06 in / sec)</td>
<td></td>
</tr>
</tbody>
</table>

### Analysis capability (instrument)

<table>
<thead>
<tr>
<th></th>
<th>S-116</th>
<th>S-128</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>Standards</td>
<td>ISO 4287, ISO 13565-1, ISO 13565-2, ASME 46.1, JIS 0601, N31007</td>
</tr>
<tr>
<td></td>
<td>ISO basic</td>
<td>Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rmr, Rdq, Rdk, Rpm, RSm, Rz1max</td>
</tr>
<tr>
<td></td>
<td>ISO advanced</td>
<td>Optional Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td></td>
<td>ASME</td>
<td>Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rdq, RSm, Rdm, Rdq</td>
</tr>
<tr>
<td></td>
<td>JIS</td>
<td>Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rmr, Rdk, Rdk, RSm, RzJIS, Rz, Riku, Rdcd</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>R3z (Daimler Benz)</td>
</tr>
<tr>
<td></td>
<td>ISO Primary</td>
<td>Optional Pa, P4, P3, Pt, Pq, Psk, Pmr, Pdq, Pp, P5p, Pr, Pr1max</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>µm / µin</td>
</tr>
</tbody>
</table>

#### Standard Pick-up
For general surface roughness measurement.
- code PK-02 (5 µm tip radius)
- code PK-03 (10 µm tip radius)

#### Chisel Edge Pick-up
For measuring along sharp edges or wire. Not for use on flat surfaces.
- code PK-24

#### Small Bore Pick-up
For general use in small bores, grooves and on narrow surfaces. Ø 3.00 mm bore minimum.
- code PK-01

#### Side Skid Pick-up
For use on curved surfaces such as gear teeth.
- code PK-31

#### Narrow Gauge Stylus
For measuring in ‘O’ rings and narrow grooves up to a depth of 5.5 mm (0.22 in).
- code PK-07

#### Shoe Pick-up
For measuring rougher surfaces, particularly with the 2.5 mm (0.1 in) cut-off.
- code PK-99

#### Right Angle Pick-up
For measurement at right angles to the direction of traverse.
- code PK-05

#### Recess Pick-up
For measuring into deep recesses.
- code PK-06 recess 5.7 mm (0.23 in) with 5µm tip radius
- code PK-08 recess 25 mm (0.99 in) with 5µm tip radius
(Other depths and tip radii available)
Ra is the most common parameter of roughness. It is the arithmetic mean of the absolute departures from the mean line. 

Rq is the rms parameter corresponding to Ra.

Rv is the maximum depth of the profile below the mean line within the sampling length.

*Rp is the maximum height of the profile above the mean line within the sampling length.

Rz is the maximum peak to valley height of the profile in the assessment length.

*Rr = Rp + Rv and is the maximum peak to valley height of the profile within a sampling length.

Rz1max is the largest of the individual peak to valleys from each sample length.

Material Ratio Rmr (c) is the length of bearing surface (expressed as a percentage of the evaluation length at a depth c below the highest peak.

Material ratio curve above, shows how the ratio varies with level.

Rsk – Skewness – is the measure of the symmetry of the profile about the mean line. It will distinguish between asymmetrical profiles of the same Ra or Rq.

Rku – Kurtosis – is a measure of the sharpness of the surface profile.

Rz (JIS) also known as the ISO 10 point height in ISO 4287/1-1984, it is the average height difference between the five highest peaks and the five lowest valleys within the sampling length.

Rpk Reduced Peak Height is the top portion of the surface which will quickly be worn away when the engine begins to run.

Rk Kernel Roughness Depth is the long term running surface which will influence the performance and life of the cylinder.

Rvk Trough Depth is the oil retaining capability of the deep troughs which have been machined into the surface.

Mr1 is Material ratio corresponding to the upper limit of the roughness.

Mr2 is Material ratio corresponding to the lower limit of the roughness.

R3z is the vertical mean from the third highest peak to the third lowest valley in a sample length over the assessment length. DB N31007 (1983)

R3y = R3y1 + R3y2 + ... + R3yN = \sum_{i=1}^{N} i \frac{\sum_{i=1}^{N} z_{p1}}{z_{v1}}

R3z is the rms slope of the profile within the sampling length. \theta is the slope of the profile at any given point.
Surtronic® product range

**Surtronic® Duo** measures surface roughness at the touch of a button and shows the result on a large colour screen. Cycle time is 5 seconds and the result is saved until another measurement is taken.

- Ready to use out of the box
- Battery life more than 10,000 measurements

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ra:</td>
<td>40 µm (1600 µin)</td>
<td>0.01 µm (0.4 µin)</td>
</tr>
<tr>
<td>Rz, Rv, Rp, Rt:</td>
<td>199 µm (7800 µin)</td>
<td>0.1 µm (4 µin)</td>
</tr>
</tbody>
</table>

**IntraTouch** measures roughness, waviness and contour: A low cost, portable system for high level surface texture analysis on the shop floor.

- 50mm (1.97in) traverse with straightness datum
- Automatic calibration over a sphere ensures that radius and form measurements are correct

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge range / resolution</td>
<td>16nm @ 1mm range (0.063µin @ 0.001in) / 3nm @ 0.2mm range (0.12µin @ 0.008in)</td>
</tr>
<tr>
<td>Straightness accuracy</td>
<td>0.2 µm over any 20 mm (0.008 in over any 0.78 in)</td>
</tr>
</tbody>
</table>

**The Surtronic® R-80** is robust enough for the shop floor but accurate for any inspection area, giving a flexible solution for all roundness and form measurements.

- Patented gauge orientation
- Robust enough for 24/7 operation
- Easy-to-use touchscreen software

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge resolution</td>
<td>30 nm (1.18 µin)</td>
</tr>
<tr>
<td>Spindle accuracy</td>
<td>±25 nm (0.98 µin)</td>
</tr>
</tbody>
</table>

**Surtronic® R-100 Series** builds on the robustness and ease-of-use of the R-80, offering a higher throughput and improved feature set that includes advanced harmonic analyses and a higher gauge resolution.

- Robust, fast and easy-to-use
- Includes Rapid Centre™ *
- Throughput 3 parts / minute including set-up

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Gauge resolution</td>
<td>6 nm (0.24 µin)</td>
</tr>
<tr>
<td>Spindle accuracy</td>
<td>±25 nm (0.98 µin)</td>
</tr>
</tbody>
</table>

* Centering attachment is supplied as standard with R-120/125 models, or available to purchase as an accessory on other models.
The Metrology Experts
Established in 1886, Taylor Hobson is the world leader in surface and form metrology and developed the first roundness and surface finish measuring instruments.
www.taylor-hobson.com

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• UKAS calibration and testing – certification for artifacts or instruments in our laboratory or at customer’s site.

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