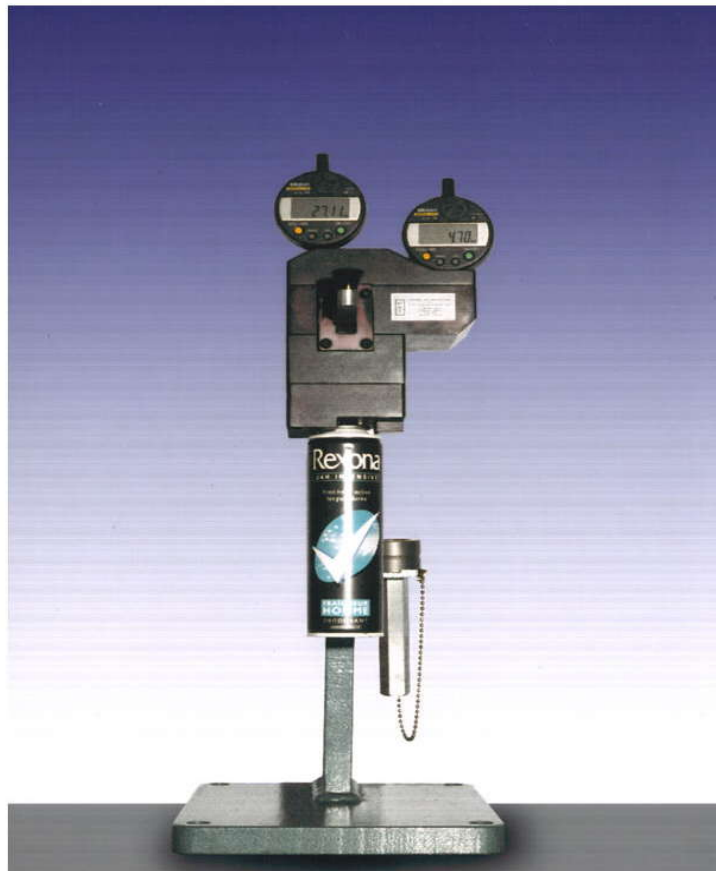




Product Specification

For The Award Winning

STT Aerosol Crimp Depth & Diameter Gauge





Specialist Tooling Technologies Ltd

DESIGN AND MANUFACTURE

Toolmakers, Gauge makers, Multi-point Gauging Specialists
Special Purpose Machines



Fm 23693
BS EN ISO9001: 2000

The STT Depth & Diameter Gauge is designed around 5 key principles

1. Ease of use

A simple lever operation enables operators to quickly set up and operate the gauge.

2. Consistency of readings

Readings are taken 'hands free', this produces consistent results when used by different operators.

3. Accuracy

Measurements are taken radially by three centralised probe arms. This gives a more accurate reading than two point hand held gauges.

4. Rugged Construction

Designed to withstand the demanding conditions of a production line environment. Cannot be dropped or lost as hand held gauges are.

Rigorous testing has produced a gauge that has a high level of reliability and is virtually maintenance free.

If free from accidental damage, this gauge will never need replacing, giving a huge return on initial investment.

5. SPC Capability

The gauge can be linked to a computer for data logging and SPC analysis, using our 'EasyLog' data logging software or alternatively to a GageChek readout as shown above. This provides an option to display the results as a in several formats such as a bar graph or as a simple display. It also has considerable computing capability, which enables in process SPC techniques to be used to constantly monitor process capability.

The GageChek can be interfaced with either digital indicators as shown or with electronic transducers in place of the indicators.

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Operation

1. To set up the gauge, depress the lever on the front of the gauge to retract the three probe arms, position the master over the probe arms and then releasing the lever. The master will be held in place by the gauge.
2. The digital indicators are then preset to the master size.
 - 2.1 No further re-setting is required. All crimp sizes are now within range of the gauge.
 - 2.2 The lever is pressed to retract the gauge arms and the master removed. The gauge is now ready for production use.
3. Measurements are taken by loading the can in the same way, as the master was loaded.
 - 3.1 The can should be rotated twice to ensure the probe arms avoid the crimp 'chives'.
 - 3.2 The operator releases the can and the readings are taken hands free.
4. The digital indicators display the depth and diameter of the can. (To 2 place decimal 00.01),
5. If the GageChek option is taken the results will be displayed on the screen and the SPC program. updated with the data.
6. The gauge locates the can by means of carbide buttons that fill the crimp radius.

WHEN PLACING AN ORDER IT IS ESSENTIAL THE CRIMP COLLET RADIUS IS SPECIFIED FOR THE LINE WHERE THE GAUGE IS TO BE USED.

Accuracy

1. Mechanical accuracy better than 0.005mm over range of 26.20mm – 27.80mm on diameter.
2. Mechanical accuracy better than 0.025mm over 2.00mm – 7.00mm range on depth.
3. Digital indicator accuracy is quoted at 0.02mm over 12.70mm range.
4. As crimp radii vary, the gauge probes will be manufactured to your requirements.

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Construction

1. The gauge head body is constructed from high quality aluminium, black anodised for environmental protection.
2. The internal mechanical parts are made from quality tool steel, hardened in key areas, with the probe arm contact points being tungsten carbide.
3. The support frame is of an epoxy powder coated, fabricated steel construction, which gives the gauge solid support and prevents accidental damage by being knocked over.
4. Clamp holes are provided to enable the gauge to be fixed to a bench if required.

Maintenance

1. The gauge has been designed to be virtually maintenance free, all parts are enclosed within the body of the gauge to minimise the risk of damage.
2. As with all instruments, the gauge should be kept in a clean condition and any expelled product should be removed immediately
3. The digital indicators and the master should be calibrated on a regular basis. We recommend the master be calibrated yearly and the indicators every six months.
4. If the gauge does not suffer from any accidental damage or miss-use, it will give many years service with minimum maintenance.

Calibration

1. Each Digital Indicator is supplied with a UKAS calibration Certificate
2. The setting master is supplied with a calibration Certificate

Digital Indicators

Features; -

- | | |
|-------------------------|---------------------------------|
| 1. Large LCD Display | 6. Absolute Feature |
| 2. Pre-Set Facility | 7. Tolerance Setting |
| 3. Direction Change | 8. Resolution = 0.01mm |
| 4. Zero Setting | 9. Range 0-12.7mm |
| 5. Data Output Facility | 10. Accuracy = 0.02 over 12.7mm |

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Optional Extras.

1. Centre boss check gauge & bracket to attach the centre boss gauge to the frame so checks can be carried out at the same gauge station.
2. EasyLog Package - data logging software for aerosol inspection..
 - 2.1 EasyLog is designed especially for aerosol inspection & will monitor crimp depth & diameter, centre boss & weigh check data. The software is being constantly updated so please enquire if you want to add more features.
 - 2.2 12.1" Touch Screen pc & Windows XP Professional with stand, interface unit and connecting cables.
- 3 SPC analysis package – gauge station monitoring over your network..
- 4 Additional operator training.
- 5 Software upgrades for compatibility or specialist applications.
- 6 Tamper proof shield to cover the indicators.
- 7 Additional masters.
- 8 Calibration & service contract – (This would be cost effective for UK customers only)

Zone 1 Compatibility

1. The standard gauge is not intended for use in a zone 1 area.

Warranties

1. 5 year warranty against faults in manufacture, excluding normal wear and tear and abuse
2. Modifications & adaptations should only be carried out by approved STT personnel.
3. The warranty only remains valid if there has been no modification to the gauge without prior consent from STT.
4. Manufacturers warranty on all proprietary parts incorporated in the gauge.
5. The warranty remains valid only if the gauge has been used for the purpose for which it was designed.

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