

Specimen Preparation

Digital Bench Thickness Gauge

The Wallace Digital Bench Thickness Gauge accurately measures the thickness of rubber and similar soft materials using a constant pressure foot. The gauge conforms to international test standards and is widely used when testing rubber for tensile strength and compression.

The product is available with a 10 micron resolution gauge or a 1 micron resolution gauge. Both gauges are battery operated.

Features

- **Constant foot pressure**
- **Easy Height adjustment**
- **Digital-resolution of 0.01mm (S4/14) or 0.001mm (S4/15)**
- **Adapts easily to various ISO standards (a range of different feet and weights are available)**
- **Includes 5mm verification slip gauge**

Accessories

- Various diameter feet complying to a wide range of specifications can easily be attached to the dial gauge spindle.
- A range of additive weights can be placed in the carrier at the upper end of the spindle, which creates the specified foot pressure on the test piece.

Other Offers

Many other material standards available, ie. ISO815-1, etc.
25mm Indicator Travel available upon request for WAS4/15
Contact Wallace to discuss your requirements.

Principle of Operation

The 150mm diameter base provides a smooth flat surface upon which the test piece is placed. It is easy to exchange different feet and weights to comply with different standards.

Throughout the dial gauge travel, a constant force on the spindle ensures the foot pressure on the test piece is continuous.

A lifting lever attached to the indicator raises the spindle and foot, allowing easy location of the test piece.



Digital Bench Thickness Gauge

Specifications

Digital Bench Thickness Gauge		
	Model S4/14	Model S4/15
Part Number	WAS4/14	WAS4/15
Dimensions (mm)	200 (h) x 150 (w) x 150 (d)	200 (h) x 150 (w) x 150 (d)
Weight	3kg	3kg
Power	Battery (1 x SR44; 1.5v Cell)	Battery (1 x SR44; 1.5v Cell)
Indicator Travel	25mm	12.5mm
Resolution	0.01mm	0.001mm
Accuracy	± 0.05 mm	± 0.005 mm
Feet Diameter	3.7mm and 5.5mm Standard ** Special feet available on request	
Additive Mass (weight)	30g Standard * Various weights available on request	
Operating Temperature	10 to 40°C; Altitude 2000m maximum	
Humidity Range	10 to 80% RH non-condensing	

Additional Information Applicable to S4/14 and S4/15								
Foot			Additive Mass		Pressure Result		Standards	
Part Number	Foot Dia	Mass	Part Number	Mass	Pressure	Tolerance		
WAS4/12/3	3.7mm	24g	—	N/A	22.0kPa	±5.0kPa	ISO 23529	ASTM D3767
WAS4/12/2	5.5mm	24g	—	N/A	10.0kPa	±2.0kPa	ISO 23529	ASTM D3767
WAS4/12/2	5.5mm	24g	WAS4/12/4	30g	22.0kPa	±5.0kPa	ISO 23529	ASTM D3767

Standards

Sample Prep: ISO 23529, ASTM D3767

