



YASUDA
— TESTING THE LIMITS —

**plastic Strain tester | No.105-AUTO
AUTOMATIC WILLIAM TYPE
PLASTOMETER · No.184-A
MCBURNEY INDENTATION TESTER
| YASUDA SEIKI SEISAKUSHO LTD.
providing you the best material
testing equipment.**

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No.171 COMPRESSION SET TESTER



JIS-A5756, K6262, ASTM-D395, ISO-815

This tester measures the compression set of vulcanized rubber and thermoplastic rubber at room temperature, low temperature, and high temperature to acquire the settling of the test specimen. The compression ratio can be set by changing the spacer.

Specification

Test Method	Large Specimen	Small Specimen
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Test Method	$\phi 29.0 \pm 0.5$ mm T 12.5 ± 0.5 mm	$\phi 13.0 \pm 0.5$ mm T 6.3 ± 0.3 mm
Spacer	12 pcs, T9.3 to 9.4 mm(25 % Compression)	12 pcs, T4.7 to 4.8 mm(25 % Compression)
Dimensions/ Weight (Approx.)	W290 × D150 × H145 (20 × 3 Stages) mm, 20 kg	W290 × D150 × H145 (20 × 3 Stages) mm, 20 kg

No.105 WILLIAMS PLASTOMETER



JIS-K6249, ASTM-D926, ISO-7323

Placing the specimen on the parallel plate and after adding prescribed load for

a specific amount of time, the plastometer reads the thickness of the specimen

and multiplies the thickness 100 times to acquire the degree of plasticity.

Specification

Model	No.105 WILLIAMS PLASTOMETER
Specimen	Cylindrical shape, Volume $2 \pm 0.02 \text{ cm}^3$ ($\phi 16 \text{ mm}$, H10 mm)
Parallel Plate	Upper: $\phi 148 \text{ mm}$, T12 mm Lower: $\phi 148 \text{ mm}$, T13 mm
Test Load	Initial 24.5 N (2.5 kgf) to Max. $49 \pm 0.05 \text{ N}$ (5 kgf) (Standard $49 \pm 0.05 \text{ N}$)
Dial Gauge	Scale 1/100 mm, Stroke Max. 20 mm
Software	—
Accessories	Dial Gauge, Weight (4.9 N: 1 pc, 9.8 N: 2 pcs), Hexagon wrench, Set Up Disk (105-AUTO), Power Plug Adaptor (105-AUTO)
Option	—
Power Source	—
Dimensions/Weight (Approx.)	W175 × D175 × H330 mm, 10 kg *With Dial Gauge Attached.

No105-AUTO WILLIAMS PLASTOMETER (AUTOMATIC)



JIS-K6249, ASTM-D926, ISO-7323

The No.105-AUTO is the automated version of the No.105 WILLIAMS

PLASTOMETER. The tester can show the time series graph of the thickness on the computer screen.

Specification

Model	No.105-AUTO WILLIAMS PLASTOMETER (AUTOMATIC)
Specimen	Cylindrical shape, Volume 2 ± 0.02 cm ³ (ϕ 16 mm, H10 mm)
Parallel Plate	Upper: ϕ 148 mm, T12 mm Lower: ϕ 148 mm, T13 mm

Test Load	Initial 24.5 N (2.5 kgf) to Max. 49 ± 0.05 N (5 kgf) (Standard 49 ± 0.05 N)
Dial Gauge	Scale 1/100 mm, Stroke Max. 20 mm, Digital Display Ver.
Software	Windows Compatible
Accessories	Dial Gauge, Weight (4.9 N: 1 pc, 9.8 N: 2 pcs), Hexagon wrench, Set Up Disk (105-AUTO), Power Plug Adaptor (105-AUTO)
Option	Heating Plate Type, Safety Cover
Power Source	AC 100 V, 1-Phase, 5 A, 50/60 Hz
Dimensions/Weight (Approx.)	W365 × D250 × H500 mm, 15 kg

No.184-A MCBURNEY INDENTATION TESTER



JIS-A1454, A5705

This tester is to test the indentation of floor material. Adjusting the dial gauge to 0 within 5 seconds after setting an initial load of 9 N, the operator is then to add 133 N of load to the test specimen and read the indentation depth when 1 minute has past.

Specification

Weight Load	Initial 9 N, Total 133 ± 1 N
Indenter	Hemispherical shape, $\phi 6.35 \pm 0.01$ mm
Dial Gauge	Scale 1/100 mm, Stroke Max. 10 mm
Dimensions/ Weight (Approx.)	W180 × D180 × H360 mm, 18 kg

No.184-B RESIDUAL INDENTATION TESTER



JIS-A1454, A5705

This tester is to test the residual indentation of floor material. The operator is to apply 356 N of load to the test specimen for 10 minutes (if the test specimen is foamed material 222 N of load for 5 minutes). After the testing time has past, remove the load and read the indentation depth of the test specimen when 60 minutes has passed after the load has been removed.

Specification

Weight Load	356 ± 1 N, 222 ± 1N
Indenter	Standard: Flat shape, φ4.5 mm Famed Material: Hemispherical shape, φ19 mm

Dial Gauge	Scale 1/100 mm, Stroke Max. 10 mm
Option	Automatic Loading Device, Timer
Dimensions/ Weight (Approx.)	W350 × D350 × H800 mm, 65 kg