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No. 826 Digital Gurley type Stiffness Tester Model **GS-3**



■ APPLICATION

The **Gurley type Digital Stiffness Tester** compliant with JIS L1085, L1913 and JAPAN TAPPI No. 40. The operation is simple. When the user enters the specimen length, the mass and the position of the weight through the touch-screen LCD, the movable arm automatically moves to the position easy to mount the test specimen. After mounting the test specimen, press the "TEST" button, and the front and back of the specimen are automatically measured. The machine repeats the measuring operation the specified times and shows the resulting "stiffness", the calculated individual data and the average, on the screen. The testing results also can be loaded on a PC using the standard accessory program and printed out by an optional portable printer.

■ FEATURES


- Conventional testers only allow visual measurement by the resolution scale calibrated on the order of 1.2° . The tester enables measurements of higher precision through automatic acquisition by an encoder with resolution of 0.1° .
- Conventional testers use an unstable pivot bearing for the pendulum. The tester uses a miniature bearing, which enables a more sensitive measurement with better reproducibility.
- The tester measures the front and back sides of the test specimen automatically. The brake mechanism automatically stops the swing of the pendulum every time one side has been measured. This mechanism enables a continuous measurement without any additional operation. In addition to the testing methods compliant with the standards, this function provides a testing method where one test specimen can be measured continuously up to five reciprocating times.
- The touch-screen LCD allows the user to enter the testing conditions only by selecting a desired one on the screen. Various calculating results including stiffness and scale $RG (10\sin\theta$ in the conventional memory) can be checked easily on the screen.
- Up to 150 testing data items can be stored automatically in the machine. If number of data items exceeds 150, existing data is overwritten sequentially the oldest the first. In addition, up to 10 testing condition setting sheets can be registered which facilitate the operation of the machine.

■ SPECIFICATIONS

	GS-3
Measuring range	0.01 to 5000mN (Pendulum angle 0.3° to 55°)
Length of sample (Based on JAPAN TAPPI No.40)	<ul style="list-style-type: none"> ■ 25.4mm ■ 38.1mm ■ 63.5mm ■ 88.9mm ■ 114.3mm
Width of sample (Based on JAPAN TAPPI No.40)	<ul style="list-style-type: none"> ■ 12.7mm ■ 25.4mm ■ 50.8mm
Weight	<ul style="list-style-type: none"> ■ 5g ■ 25g ■ 50g ■ 200g
Weight installation distance (Based on JAPAN TAPPI No.40)	<ul style="list-style-type: none"> ■ 25.4mm ■ 50.8mm ■ 101.6mm
Driving motor	Stepper motor
Arm speed	2 rpm
Angle measurement	Unloaded type encoder (Resolution 0.1°)
Interface	RS-232C x 1
Operating panel	LCD touch-screen
Power requirement	Single-phase, AC100 to 240V, 50/60Hz, 0.2kVA
Dimensions	W300 x D300 x H550mm
Weight	Approx. 15kg
Related standards	JIS L 1085, L 1096, L 1913 JAPAN TAPPI No.40 TAPPI T 543

■ STANDARD FUNCTIONS / ACCESSORIES & OPTIONS

● Standard ○ Option

	Name	Model (Part No.)	Photo	GS-3
1	Weight, 5g	----	----	●
2	Weight, 25g	----	----	●
3	Weight, 50g	----	----	●
4	Weight, 200g	----	----	●
5	Sample mounting jig	----		●
6	Zero position adjusting jig	----	----	●
7	Mini thermal printer	GS3-P	----	○
8	Data acquisition software for spreadsheet application <i>Note: Spreadsheet application is not provided.</i>	EX	----	○

Specifications are subject to change without notice.

TOYOSEIKI

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