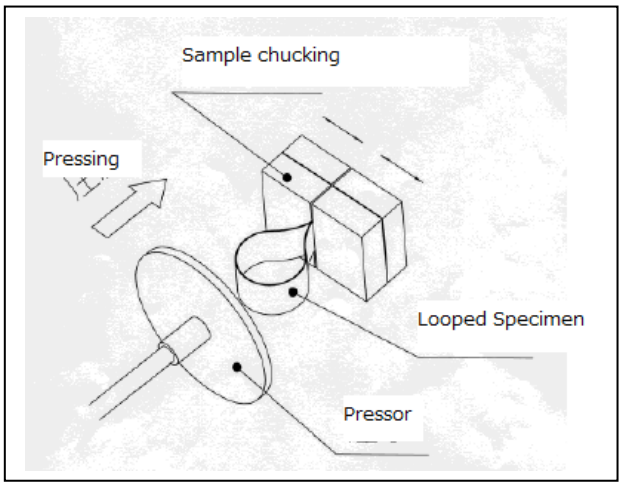
581 | Loop Stiffness Tester
Model DA

■APPLICATION

Many of conventional methods for evaluating stiffness of thin materials such as magnetic tape, plastic film, have drawbacks where specimen's own weight affects measurement that could prevent evaluation of minimum stiffness differences. Method of measuring stiffness employed in the **Loop Stiffness Tester** can minimize these problems. Specimen is bent into a loop, fixed in a direction where the loop is kept horizontal. Specimen's stiffness is evaluated by the load applied in horizontal direction to press and deform the loop. This way, specimen's sag will be kept minimum and more actual stiffness can be evaluated compared to conventional methods.



FEATURES

- Measurement preparation is simply by mounting sample in the chuck and press Start switch.
- One touch specimen installation
- One-touch Zero and Full adjustments of load
- Automatic return to start position after measurement
- Measuring time (compressing time) can be set in seconds (For auto return setting)
- Peak hold of measured value
- The chucking part is covered by windshield. Measurement start switch is interlocked to the cover.
- RS-232C output installed as standard spec which allows easy export of results to computer (Software is option accessory.)
- Error is alarmed by LED indicator

■SPECIFICATIONS

Model	DA
Dimensions of sample	● Length: 90 to 180mm ● Width: 6 to 25.4mm ● Thickness: 100 to 250µm
Loop length (Effective length)	50 to 120mm
Load range	● 5000mN (x1) ● 500mN (x10) ● 50mN (x100)
Compression rate	3.3mm/s
Result(force) reading	Real-time and Peak, switch by HOLD button
Interface	RS-232C
Power requirement	Single-phase, AC100V, 50/60Hz, 0.3kVA
Dimensions	W360 x D490 x H310mm
Weight	Approx. 25kg

■OPTIONS

Name	Model	Note
No.581 Loop Stiffness Tester with personal computer and data processing software	DA-PC	- Overwrite 8 tests in graph - Graph focus/enlarge - Print peak value
Variable compression speed option	DA-S	Compression speed: 2, 3.3, 5mm/s (3 steps)
Magnet chuck option	-----	For specimen thickness 10 to 100µm
Optional load cell, 200mN	-----	-----
Optional load cell, 500mN	-----	-----
Optional load cell, 1000mN	-----	-----
Optional load cell, 2000mN	-----	-----

Specifications are subject to change without notice.

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