Motorized Durometer Stand

Consistent Hardness Testing of Rubber and Plastics
Model: YMS-L and YMS-H

- OLED display is visible in dark environments
- Simple operation: Press the MEASURE button
- Modes: Peak, Timer Hold and Manual
- Timer Hold: Auto mode features timer hold (0.5 to 99 sec) to enable durometers with timed measurement capability to record the tendency of hardness readings to decrease from the peak over time.
- Digital Speed Control: 0.5 – 20.0 mm/second
- Auto height adjustment achieves uniform measuring height automatically
- Fast Approach and slow to measuring speed to minimize overshoot
- External Control: Use ASCII commands to start, stop and output data.

Setup Menu
Mode: Auto
Speed 3.2 mm/sec
Clearance 20 mm
Fast Apprch Yes 8 mm

OLED screen and controls

Optional Auto Contact adapter

Durometer (not included)

YMS motorized durometer stands are designed for consistent hardness testing of rubber and plastics using constant load, speed and time controls to meet ASTM D2240 standards. Auto height adjustment achieves uniform measuring height automatically. Test multiple scales using the appropriate durometer and weight.

Operation
YMS motorized stands are easily programmed using push-buttons and highly visible OLED menu screens. Selectable Auto or Manual modes with timer hold and digital speed control up to 20mm/sec. Fast Approach starts tests at maximum speed and slows to the preset measuring speed at the selected clearance to avoid overshoot.
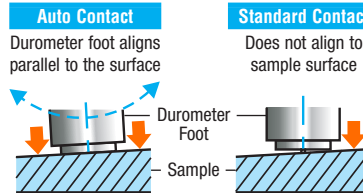
Mount other brands of durometers
Brands other than Hoto® can be mounted using special mounting adapters.

External Control
ASCII commands start, stop or output data. The open collector contact signal starts and stops.

Optional Auto Contact Adapter
The Auto Contact adapter automatically aligns the durometer foot parallel to the sample surface to comply with ASTM D2240 requirements, eliminating the need for user verification before testing.

Auto Contact
Durometer foot aligns parallel to the surface

Standard Contact
Does not align to sample surface
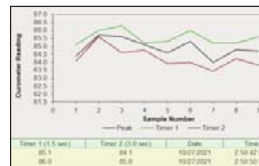
Durometer Foot

Sample
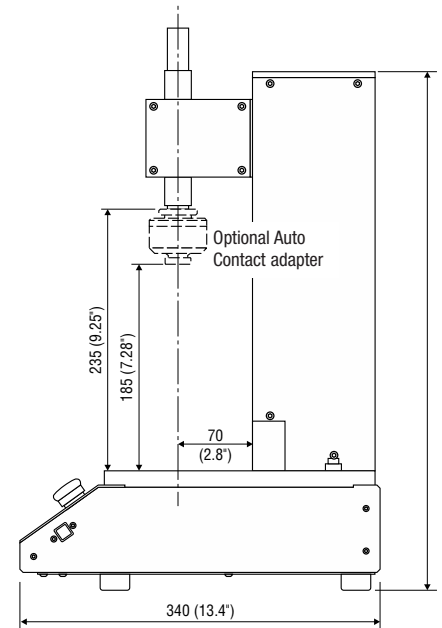
Optional TKD Digital Durometer
- Program with simple menus and push-button operation
- Controls Mode function of YMS stand
- Records peak and timer data
- Wireless output available with TKX durometer
- Optional data acquisition software
  SW-1-TK is a highly customized Excel spreadsheet that captures and analyzes data from TK digital durometers. The spreadsheet provides a running log of peak and timer measurements along with a profile graph and statistics. Start or stop testing by using buttons in the software.

SW-1-TK Data Acquisition Software

Optional Auto Contact adapter

235 (9.25")
185 (7.28")
70 (2.8")
340 (13.4")

Specifications

Model	For Durometer Scale
YMS-L	Shore A, B, E, O and Asker C
YMS-H	Shore C, D, DO

Item	Description
Modes	Peak, Timer Hold and Manual
Speed	0.5 - 20.0 mm/sec
Units	Selectable mm or inches
Timer Hold	0.5 – 99 seconds
Clearance	235mm 185mm with optional Auto Contact adapter
Throat	70mm

Specifications subject to change without notice.