



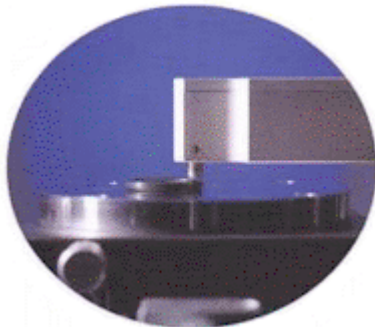
Ongoing advances in technology requires the miniaturization, micronization and “super-miniaturization” of many products and their constituent parts.



These same technological advancements have raised the requirements of quality assurance and quality control. The requirements of the instrumentation to meet these needs has been raised to new heights as well.

Asker® has met these challenges with the development of the MD-1 MicroHardness Digital Durometer! This precision instrument accurately and precisely determines the indentation hardness of elastomers, TPEs and similar materials as thin as 1 mm.

**Asker® MD-1 MicroDigital Durometer: Features**



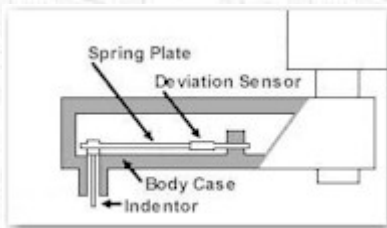
- 1–2–3 Automatic Testing Cycle:
- Position Sample on the stage;
  - Press [MEASURE], the test is made automatically and the result digitally displayed;
  - Press [PRINT] to generate a “hard-copy” of the test result.

- Operator Selectable Parameters:
- [NORMAL], Standard Test, 1s;
  - [PEAK HOLD] Maximum reading of standard test held, similar to a “maximum reading hand” on a typical analog durometer;
  - [TIMER HOLD] timer adjustable test result;
  - Adjustable UCL, LCL and Go–No–Go parameters.

**OPERATION SWITCHES**

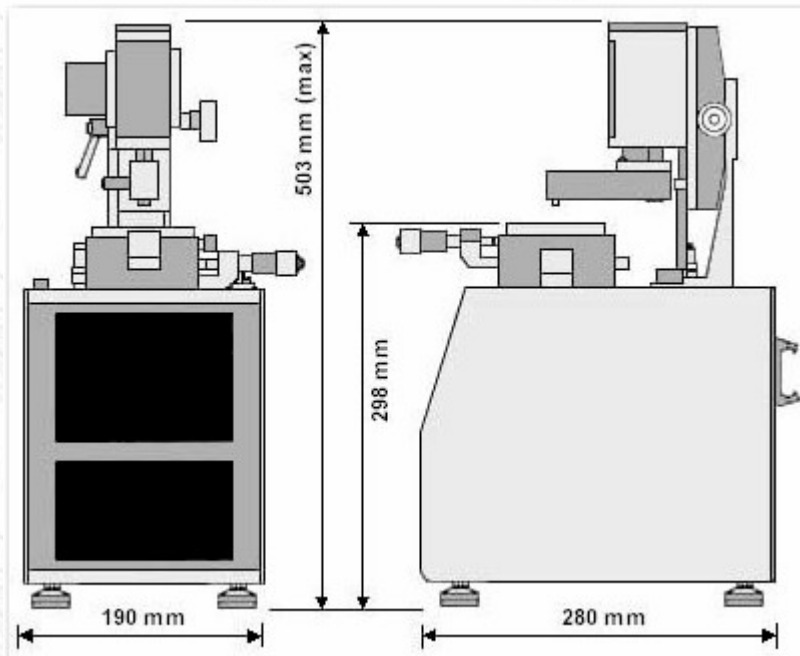
- ① MEASURE .....To start testing actions.
- ② PRINT .....Printing instruction of data etc.
- ③ RESET .....To be ready for test (sensor and indicator return to original position).
- ④ AUTO.....Switch for automatic printing and automatic resetting.

- Automated testing procedure virtually eliminates operator induced error;
- Precision X–Y stage, micrometer positioning adjustments in 0.01 mm increments, allowing for precise specimen placement and accurate single sample multiple determinations;
- Pneumatic dampening mechanism ensures precise control of the indenter’s rate-of–descent and applied force;
- Adjustable leveling feet and 190 x 280 mm (7.48 x 11.02 in.) footprint allow for stability;
- Simplicity of the mechanical design assures virtually maintenance–free operation;
- The cantilever–spring plate design eliminates “wear” items such as bearings, bushings, gears and pinions commonly employed by other durometer instruments.



## Asker® MD-1 MicroDigital Durometer: Specifications

Force Application:	Gravity, pneumatically dampened, cantilever–spring plate
Spring Force:	22 Nm (2.24 gf) at Zero 332 Nm (33.85 gf) at Full Scale
Indentor:	0.16 mm (0.0063 in.) Ø Cylinder
Scale:	0 – 100
Resolution:	00.0, in 00.1 increments
Maximum Daylight:	67 mm, adjustable to surface contact
X–Y Stage:	80 mm Ø, adjustable in 0.01 mm increments
Data Output:	BCD Parallel–TTL Level or RS–232C & Integral Printer
Power:	110 VAC
Weight:	20 kg (44.1 lb.)
List Price:	<a href="#">Please Submit a Request for Quotation (RFQ)</a>



Schematic of the MD-1 Physical Dimensions

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