



Portable Hardness Tester

This tester is excellent for identifying the minimum hardness of raw stock.

The simplicity of the Fowler Tester enables it to be used in almost any direction, preferably vertically, without affecting accuracy. Grips depressed by using palms of hands. Hardness value read off scale directly. No need for microscopic measurement of the indentation or reference to conversion tables. Operators cannot overload instrument or influence reading by varying applied hand pressure. Reading obtained is completely dependent on the specially designed preloaded springs in the tester. Repeatability is excellent; calibration can be checked against reference test block supplied with instrument. If necessary, the indenter adjusting bush can easily reset to give the exact test block reading.



Features:

- Suitable for use on ferrous and nonferrous metals from small diameter rods to large surfaces.
- Special bases available for use on small diameters or large radii.
- Stand accepts tester in a firm clamp, and table in stand is raised vertically to meet diamond indenter by means of pressure on a simple lever device.
- Special "V" base on each stand checks the hardness of round parts.
- Overall dimensions of 3" x 6" (75mm x 150mm).
- Mechanical tester uses special preloaded springs, providing a load of about 14.3 lbs. (6.5 kg) for the 53-760-001, 002 and 005 to the diamond.
- For 53-760-006 the load is 8.8 lbs. (4 kg). For 53-760-007, load is 35.2 lbs. (16 kg).
- When taking hardness reading, springs operating against diamond assembly are balanced against hardness of specimen, i.e., the harder the part being tested, the more movement is affected between diamond point and datum face of unit.
- Movement is transmitted through a direct mechanical linkage to the gage head where a movement of .0001" (.0025mm) at the diamond is amplified to approximately .250" (6.35mm) of rotary movement at the tip of the pointer. Maximum penetration of diamond into specimen is .005" (.125mm).
- Price includes operating instructions, a test block, adjusting wrenches and hardwood case.

Part Number	Description	Scales
53-760-002	Portable Hardness Tester. American SAE 1949 w/Rockwell C Test Block	Rockwell C 20-70, Rockwell A 40-85 Rockwell B 50-100
53-760-005	Portable Hardness Tester. Low range Steel w/Vickers Pyramid Test Block	Vickers Pyramid 40-300 Brinell 40-300
53-760-006	Portable Hardness Tester. Low range Non-ferrous w/Vickers Pyramid Test Block	Brinell 40-300 Vickers Pyramid 40-300

Accessories:

53-760-020	Portable Bench Stand (not for use with 53-760-007)
53-760-025	Magnetic Holder
53-760-035	Replacement Diamond Indenter for 53-760-001, 002, 005 & 006
53-760-040	Replacement Indenter Bushing for 53-760-001, 002, 005 & 006
53-760-045	Replacement Diamond Indenter for 53-760-007 only
53-760-050	Replacement Indenter Bushing for 53-760-007 only
53-760-060	Test Block for Steel-High Range. (Included with 53-760-001 and 002 for Rockwell C)
53-760-065	Test Block for Steel-High Range. (Included with 53-760-005 for Vickers or Brinell)
53-760-070	Test Block for Non-ferrous. (Included with 53-760-006 for Vickers or Brinell)
53-760-075	Test Block for Cast Iron. (Included with 53-760-007 for Brinell)
53-760-080	Replacement base for all models
53-760-085	160 degree base for internal radii over 6"
53-760-090	Double "V" base for diameters larger than .08"