



METALTEK MetalTek Products
by CCSi

The MetalTek™ PR1 Portable Rockwell Hardness Tester is lightweight, portable easy to operate and accurate. The PR1 is designed as a convenient means by which to determine Rockwell Hardness readings in situations that do not lend themselves to bench testing.

The PR1 is secured to the workpiece by a quality clamping mechanism. It utilizes a mechanical mechanism to apply the major and minor loads. Since the PR1 employs no weights, it may be used in virtually any position.

The PR1 is ideal for testing stacked sheets, rod and tubing in racks and in areas where clearance is limited.

The PR1 employs major loads of 60, 100 and 150 kg and has a maximum height capacity of 110 mm (4.3 in) and a throat capacity of 55 mm (2.2 in).

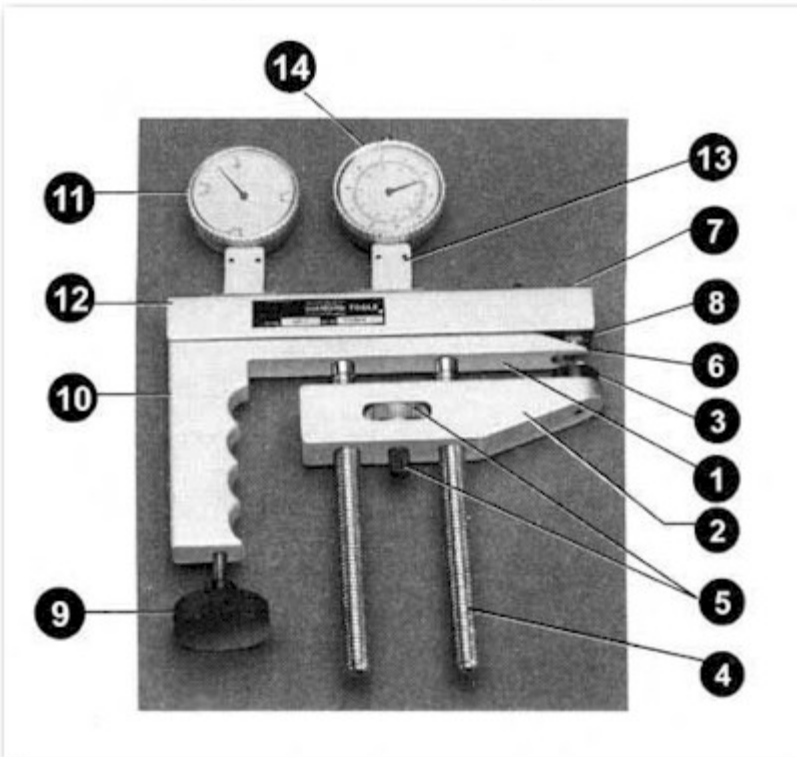
The PR1 features a “pistol grip” for ease of operation and speed in performing tests.

MetalTek™ Model PR1: Features

The PR1 Portable Model Features Include:

- Lightweight Cast Alloy Frame;
- Integral Dial Gauges;
- Integral Load Mechanism;
- Carrying Case;
- Instruction Manual;
- 2 Rockwell Test Blocks;
- Flat Anvil;
- “V” Anvil;
- 1/16 inch ball indenter;
- Diamond indenter.

MetalTek™ Model PR1: Description



- | | |
|--------------------------------|--|
| 1. Upper Clamp | 8. Weigh Bar |
| 2. Lower Clamp | 9. Loading Knob |
| 3. Support Anvil | 10. Pistol Grip Handle |
| 4. Adjusting Screws | 11. Minor Load Dial Indicator |
| 5. Clamping Knob | 12. Indicator Seat Support |
| 6. Penetrator w/ Indentor | 13. Indicator Seat |
| 7. Penetrator Tightening Screw | 14. Major Load / Penetration Indicator |

MetalTek™ Model PR1: Direction for Use

i Refer to above diagram for numerical references shown below in red.

- Select the appropriate Indenter [6];
- Select the appropriate Anvil [3];
- Place specimen between Clamp [1] and the Anvil [3];
- Secure specimen by rotating the Clamping Knob [5];
- Place specimen between Clamp [1] and the Anvil [3];
- Rotate bezel of Minor Load Indicator [11] to “zero”;
- Rotate Load Knob [9] to apply 10 kgf Minor Force;
- Rotate bezel of Major Load Indicator [14] to “zero”;
- Rotate Load Knob [9] to apply Major Force:
 - 150 kgf (Diamond Indenter) for HRC (black scale);
 - 100 kgf (1/16” Indenter) for HRB (red scale);
 - 60 kgf (Diamond Indenter) for HRA (black scale).
- Rotate Load Knob [9] to release Major Force;
- Read Hardness Value on Penetration Indicator [14];
- Rotate Load Knob [9] to release Minor Force;
- Remove the specimen.

MetalTek™ Model PR1: Specifications

Model	Part Number	Maximim Height Capacity		Maximim Throat Depth		Weight	
		in.	mm	in.	mm	lb.	kg
PR1	PR1	4.3	110	2.2	55	3.5	1.6
List Price:	Please Submit a Request for Quotation (RFQ)						

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