CLARK PORTABLE HARDNESS TESTER

MODEL "CPT" FOR ROCKWELL READINGS

OPERATING PROCEDURE

- 1. Select Penetrator (F) to be used.
 - —Use diamond penetrator for hardened or heat treated steel. (Read Black Numbers.)
 - Use ball penetrator for non-ferrous or materials softer than 20 HRC. (Read Red Numbers.)
- 2. Select proper anvil (C) for shape of part being tested.
- 3. Make sure loading knob (J) is backed off sufficiently so that the penetrator does not project beyond upper clamp (A).
- Clamp work firmly between upper clamp (A) and anvil (C) by rotating adjusting knob (E) DO NOT FORCE.
- 5. Check the setting of load indicator (L). Rotate bezel to bring pointer over small black dot for zero load.
- 6. Apply 10 Kg. minor load (Pointer to "set") by means of loading knob (J). Caution: Hold instrument steady to avoid twisting motion of penetrator on the work.
- 7. Check zero setting of hardness indicator (P). Rotate bezel to bring pointer to "0" on the Black scale.
- 8. Apply major load by rotating load knob (J) clockwise. Example:

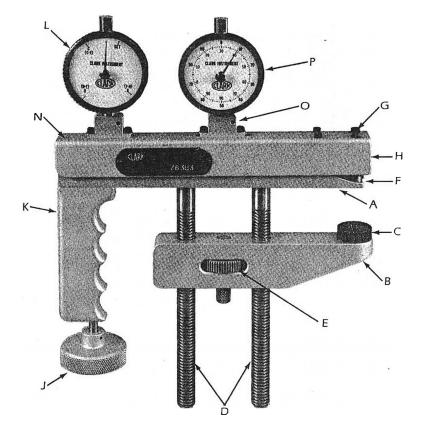
Rockwell Scale	Major Load	Penetrator	Hardness Indicator Color Nos. to Read	Remarks
C	150 Kg	Diamond	Black	For other Rockwell
Α	60 Kg	Diamond	Black	hardness scales see
В	100 Kg	1/16" Ball	Red	pocket chart enclosed.
F	60 Kg	1/16" Ball	Red	

- 9. Remove major load to "set" by rotating load knob (J) counter clockwise.
- 10. Hardness is indicated on hardness indicator (P).
 - —Read black figures when using diamond penetrator.
 - —Read red figures when using ball penetrator.
- 11. Release load completely by backing off load knob (J).
- 12. Rotate adjusting knob (E) to left to loosen lower clamp.

For more detailed information covering the use, operation and maintenance, see separate instruction folder supplied with this instrument.

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A—Upper Clamp
B—Lower Clamp
J—Load Knob
C—Anvil
K—Grip
D—Adjusting Screws
L—Load Indicator
E—Adjusting Knob
N—Indicator Support
F—Penetrator
O—Indicator Clamp Bracket



G—Penetrator Clamp Screw

Hardness Testing Specialist
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Rockwell • Portable • Micro • Brinell • Ductility

P — Hardness Indicator

