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).

4. 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:

<table>
<thead>
<tr>
<th>Rockwell Scale</th>
<th>Major Load</th>
<th>Penetrator</th>
<th>Hardness Indicator Color Nos. to Read</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>150 Kg</td>
<td>Diamond</td>
<td>Black</td>
<td>For other Rockwell hardness scales see pocket chart enclosed.</td>
</tr>
<tr>
<td>A</td>
<td>60 Kg</td>
<td>Diamond</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>100 Kg</td>
<td>1/16” Ball</td>
<td>Red</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>60 Kg</td>
<td>1/16” Ball</td>
<td>Red</td>
<td></td>
</tr>
</tbody>
</table>

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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