Quick Reference Guide

Getting Started: 3 Simple Steps

1. Loading
   Slide loading tube back and forth to power on and load the device.

2. Positioning
   Place support ring firmly on the surface of the sample.

3. Measuring
   Slide the loading tube a short distance downwards to trigger an impact.

Averaging a Series of Measurements

1. Press \( \text{ } \) to initiate series.
2. Start measuring: After each impact, display will indicate number of impacts done (max. 99).
3. Use \( \text{ } \) to cancel current measurement (counter will decrement).
4. After last measurement, press \( \text{ } \) as follows:
   \( \text{ } \) average value.
5. For another series, continue testing otherwise press \( \text{ } \) twice to exit series mode.

Choosing a Material Group and Conversion Scale

<table>
<thead>
<tr>
<th>Material Group</th>
<th>HV</th>
<th>HB</th>
<th>HRC</th>
<th>HRB</th>
<th>HS</th>
<th>Rm*</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{RG} \ 1 ) Steel and cast steel</td>
<td>D / DL</td>
<td>D / DL</td>
<td>D / DL</td>
<td>D / DL</td>
<td>D / DL</td>
<td>D / DL</td>
</tr>
<tr>
<td>( \text{RG} \ 2 ) Cold work tool steel</td>
<td>D / DL</td>
<td>D / DL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 3 ) Stainless steel</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 4 ) Cast iron lamellar graphite GG</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 5 ) Cast iron nodular graphite GGG</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 6 ) Cast aluminum alloys</td>
<td>D / DL</td>
<td>D / DL</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 7 ) Copper/zinc alloys (brass)</td>
<td>D</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 8 ) CuAl/CuSn alloys (bronze)</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{RG} \ 9 ) Wrought copper alloys, low alloyed</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Applies to Piccolo 2 only
Programming the Material Group and Conversion Scale

**Impact Level**

Use [key to start / end measurement series

Use [key to cancel current reading

Menu key gets you to next lower level

**Conversion Level**

When entering conversion level by mistake, just trigger next impact. Old selection remains.

Scroll to proper conversion using [keys

Confirm by pressing [key

**Selection Level**

Selection Level

**Display**

L 160 L 160 T91 L 591 L 8569 R 546 R 998 R 723 R 1988 E 566

Applies to Piccolo 2 only

/** with impact body DL: [**

Programming Advanced Settings

Press simultaneously for at least 2 seconds

**Menu**

Scroll using [keys

Scroll using [keys

Confirm by pressing [key

**Return to previous view**

**Applies to Piccolo 2 only**

Impact body

Conversion standard

Lock / unlock

Impact number fixed

/** with impact body DL: **

HLD / HLDL uncorrected

HLD / HLDL corrected for impact direction

Tensile strength

Custom curve

**Material Select Level**

Material group

**HLD / HLDL uncorrected**

**HLD / HLDL corrected for impact direction**

**Hardness Leeb without correction of direction**

**Hardness Leeb with correction of direction**

**Material group**

**Hardness scale HLD (D front section)**

**Hardness scale HLDL (DL front section)**