High Torque Indicating Ratchet Wrenches

1. **Accuracy**
   - Indicates forward and reverse insertion torque levels for implant insertion from 50 to 90 Ncm.

2. **Simplicity**
   - Disassembles and reassembles easily for cleaning, sterilization and use. No lubrication or calibration needed.

3. **Versatility**
   - Two distinct wrench designs are now available to enable placement of additional Zimmer Biomet Implants with a High Torque Indicating Ratchet Wrench.

**Dynamic Torque Feedback**
Zimmer Biomet now offers two High Torque Ratchet Wrenches, allowing placement of additional dental implants with dynamic torque feedback. The two ratchet wrenches are visually distinct to differentiate and facilitate accurate selection for the implant being placed.

**H-TIRW**

H-TIRW is utilized with T3® and Osseotite® Implants and features a black head and insert. Insertion torque during placement of these implants with the H-TIRW is not to exceed 90 Ncm.

**ZTIRW**

ZTIRW is compatible with placement of Trabecular Metal™, TSV®, Eztetic®, and Tapered SwissPlus® Implants, and all three of the tool components are silver in color. Additional visual distinction from the H-TIRW includes a laser line on the head of the tool and the part number [ZTIRW] etched on the shank.

NOTE: If high insertion torque during implant placement is anticipated, dense bone preparation and tapping are required to reduce insertion torque to 90 Ncm or below when using ZTIRW for torque indication. Do not exceed 90 Ncm when pulling on the torque-indicating arm. Utilize the ZTIRW body, without pulling on torque-indicating arm, as a traditional ratchet wrench, for torques up to 110 Ncm.

---

**Ordering Information**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-TIRW</td>
<td>High Torque Indicating Ratchet Wrench for T3 and Osseotite Implants (Compatible drivers include IRE100U, IRE200U for Implants with the Certain® connection and RE100, RE200 for implants with an External Hex)</td>
</tr>
</tbody>
</table>

---

Contact us at 1-800-342-5454 or visit zimmerbiometdental.com

Unless otherwise indicated, as referenced herein, all trademarks are the property of Zimmer Biomet, and all products are manufactured by one or more of the dental subsidiaries of Zimmer Biomet Holdings, Inc. and marketed and distributed by Zimmer Biomet Dental and its authorized marketing partners. H-TIRW and Z-TIRW High Torque Indicating Ratchet Wrenches are manufactured by Elos Medtech Pinol A/S. For additional product information, please refer to the individual product labeling or instructions for use. Product clearance and availability may be limited to certain countries/regions. This material is intended for clinicians only and does not comprise medical advice or recommendations. Distribution to any other recipient is prohibited. This material may not be copied or reprinted without the express written consent of Zimmer Biomet Dental. ZBINST0064 REV A 07/20 ©2020 Zimmer Biomet. All rights reserved.