CCHS OFFERS SURGEONS UNCOMPROMISED PRECISION THROUGH

Innovative cutting edge for improved cutting efficiency1-3

CoCr Guide Wire for less deflection2

Most comprehensive portfolio on the market to address a wide range of surgical needs1

**CCHS INSTRUMENTATION AND IMPLANT OVERVIEW**

<table>
<thead>
<tr>
<th>Screw Diameter (mm)</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
<th>3.5</th>
<th>4.0</th>
<th>4.5</th>
<th>5.5</th>
<th>6.5</th>
<th>7.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threaded Length</td>
<td>0-20</td>
<td>0-30</td>
<td>0-40</td>
<td>0-50</td>
<td>0-60</td>
<td>0-70</td>
<td>0-80</td>
<td>0-90</td>
<td>0-100</td>
</tr>
<tr>
<td>Threading Length</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
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</tr>
</tbody>
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**INSTRUMENTATION AND IMPLANT OVERVIEW**

CCHS INSTRUMENTATION AND IMPLANT OVERVIEW

Small Set (2.0-4.0 Instruments and Implants)

- Instrument and implant set - Fine hand (20-105.333.001)
- Upgrade implant set - Standard (01.333.101)
- Instrument and implant set - Fine hand (01.333.100)

Large Set (4.5-7.5 Instruments and Implants)

- Instrument and implant set - Fine Large (01.333.002)
- Upgrade implant set - Large (01.333.003)
- Instrument and implant set - Fine Large (01.333.102)

**THE CUTTING EDGE IN SCREW TECHNOLOGY**

FOR UNCOMPROMISED PRECISION

DePuy Synthes Cannulated Compression Headless Screw (CCHS) System

Titanium alloy

Partially threaded

Self-drilling/ Self-tapping

Reverse cutting flutes

Differential thread pitch

References:
2. DePuy Synthes: CCHS Screw Cutting Performance Test 0000288513, 2019. Bench testing may not be indicative of clinical performance. Axial load of 15 samples of small screw types and 6 samples of large screw types were measured. Percentage comparisons between CCHS and competitive screws are based upon observed mean axial loads from testing. Superiority is based on a 99% observed confidence.
5. DePuy Synthes Market Analysis 0000286547, 2019. Research was performed (June 2019) comparing cannulated headless screw offerings among all main competitors who offer this product line. Main competitors were defined based on market report Medtech 360 Trauma Devices Market Analysis US (2018).

Most comprehensive is defined as the widest range of portfolio of available cannulated headless screw diameters currently marketed.

Please also refer to the package insert(s) or other labeling associated with the devices identified in this brochure for additional information.

CAUTION: Federal Law restricts these devices to sale by or on the order of a physician.

Some devices listed in this brochure may not have been licensed in accordance with Canadian law and may not be for sale in Canada.

Please contact your sales consultant for items approved for sale in Canada.

Not all products may currently be available in all markets.

**Screw Diameter (mm)**

<table>
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<th>2.0</th>
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<th>5.5</th>
<th>6.5</th>
<th>7.5</th>
</tr>
</thead>
</table>

**Guide Wire (Ø/L)**

<table>
<thead>
<tr>
<th>0.8/L</th>
<th>100 mm</th>
<th>1.1/L</th>
<th>150 mm</th>
<th>1.4/L</th>
<th>150 mm</th>
<th>1.6/L</th>
<th>220 mm</th>
<th>2.8/L</th>
<th>220 mm</th>
</tr>
</thead>
</table>

**Cannulated Drill Bit Ø**

<table>
<thead>
<tr>
<th>1.6 mm</th>
<th>2.0 mm</th>
<th>2.7 mm</th>
<th>3.0 mm</th>
<th>5.0 mm</th>
</tr>
</thead>
</table>

**Cannulated Drill Guide Ø**

<table>
<thead>
<tr>
<th>0.8/1.6 mm</th>
<th>1.1/2.0 mm</th>
<th>1.4/2.7 mm</th>
<th>1.6/3.0 mm</th>
<th>2.8/5.0 mm</th>
</tr>
</thead>
</table>

**Cannulated Screwdriver**

<table>
<thead>
<tr>
<th>T6</th>
<th>T8</th>
<th>T15</th>
<th>T30</th>
</tr>
</thead>
</table>

**Handle**

- Small Handle With Jewelers Cap (Standard AO)
- Large Ratcheting Handle (Standard AO)
- Large Ratcheting Handle (Large Quick Coupling)

**Screw Length**

- 10-30 mm (2 mm increments)
- 10-40 mm (2 mm increments)
- 14-50 mm (2 mm increments)
- 14-60 mm (2 mm increments)
- 20-50 mm (2 mm increments)
- 55-110 mm (5 mm increments)
- 30-130 mm (5 mm increments)
- 30-140 mm (5 mm increments)

**Thread Length**

- 4-8 mm
- 4-10 mm
- 4-13 mm
- 5-15 mm
- 8-28 mm
- 16 mm
- 8-12 mm
- 8-16 mm
- 10-20 mm
- 10-24 mm
- 12-44 mm
- 32 mm

**Instrument sets are designed to be modular for optimal flexibility2**
SUPERIOR CUTTING PERFORMANCE

DePuy Synthes Cannulated Compression Headless Screws offer a unique cutting tip designed to reduce the axial force required for the screw to self-tap compared to Stryker® Fixos/Fixos® 2® (Figs. 1 and 2) and Acumed® Acutrak 2® Micro (Fig. 1) Headless Screws.1,2

INNOVATIVE CUTTING EDGE3

- Three uniquely angled surfaces combine to form an innovative cutting edge designed to reduce insertion force and minimize the need for predrilling1,3

SCREW INSERTION FORCE COMPARISON OF HEADLESS SCREWS5

- Mean force (N): 2.5 DePuy Synthes CCHS 2.5 Stryker® Fixos® +68% Acumed® Acutrak 2® Micro +163%
- More insertion force required

RAKE SURFACE

DESIGN RATIONALE

CCHS POSITIVE RAKE ANGLE

- Positive rake angle cutting tip design offers a sharp cutting edge
- May require less force to insert1,3

CCHS CUTTING TIP

GENERIC NEUTRAL RAKE ANGLE

- By definition a neutral rake angle cutting tip design has less sharpness at the cutting edge
- May require more force to insert1,3

COMPETITIVE CUTTING TIP

- Self-drilling/self-tapping twist-off style screws offered in lengths 11 mm to 18 mm
- Unique Easy Loader Screwdriver designed to prevent premature post breakage of the screws5

2.0MM QUICK INSERTION SCREWS

- Widest Range of Screw Diameters (mm): 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.5, 6.5, 7.5 and lengths (10-140)5
- Color-coded titanium alloy indicates the diameter and corresponding instrumentation
- Partially threaded short and long screw designs
- 2.0 mm Quick Insertion Screws

CUTTING PERFORMANCE

29% higher bending stiffness compared to Stainless Steel guide wire4

- Stiffer guide wire results in less deflection during screw insertion to maintain intended trajectory4

MOST COMPREHENSIVE PORTFOLIO TO ADDRESS A WIDE RANGE OF SURGICAL NEEDS5

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