VariAx® 2

SpeedGuide

Operative Technique
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Product Overview

Introduction
The VariAx 2 SpeedGuide is a 3-in-1 instrument that combines the separate components of a drill, drill guide, and depth gauge into a single device.

Single-Handed Drilling
The VariAx 2 SpeedGuide enables single-handed drilling since the drill guide is integrated with the drill, as shown in Figure 1. The surgeon’s non-drilling hand is free to help aid in the fracture reduction.

Drilling with Integrated Depth Measuring
A spring-loaded depth marker is attached to the drill and moves relative to the sleeve as drilling is performed. This allows the user the ability to drill and measure in an integrated step.
Intended Use Statement

Intended Use

The Stryker VariAx 2 Instruments are exclusively intended for use in combination with the VariAx and VariAx 2 Plating Systems and VariAx 2 Screws. The Stryker VariAx 2 Instruments are only to be used by a physician with special skill in traumatology and reconstructive surgery in a sterile operating room environment in hospitals or specially equipped offices. Stryker medical devices must be used sterile.

This publication sets forth detailed recommended procedures for using Stryker Osteosynthesis devices and instruments.

It offers guidance that you should heed, but as with any such technical guide, each surgeon must consider the particular needs of each patient and make appropriate adjustments when and as required.

A workshop training is recommended prior to first surgery.

All non-sterile devices must be cleaned and sterilized before use. Follow the appropriate instructions for use (IFU). For additional information please refer to the instructions in our reprocessing guide (L24002000). Multi-component instruments must be disassembled for cleaning.

Please refer to the corresponding assembly/disassembly instructions.

See package insert (V15011) for a complete list of potential adverse effects, contraindications, warnings and precautions. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.
Assembly / Disassembly

The VariAx 2 SpeedGuide should be disassembled before cleaning. Start disassembly by removing the cap from the drill sleeve. The inner sleeve and spring (connected) may then be removed. Place all items in a cleaning box. Ensure that bone material is removed from the cannula of the drill sleeve before cleaning.

After cleaning, the SpeedGuide can be reassembled. Slide the spring and the inner sleeve into the drill sleeve. Ensure that the notches on the inner sleeve are engaged in the drill sleeve. For final positioning the Inner Sleeve has to be advanced and locked with the Cap.

Note:
Ensure that the cap is fully tightened to ensure that it does not loosen during drilling.

Note:
Ensure that the correct spring size is chosen. In the event a wrong spring was assembled, the spring will be either too long or too short when fully inserted.
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## SpeedGuide Selection

Select the appropriate SpeedGuide using the compatibility table below:

<table>
<thead>
<tr>
<th>Interface/Drill Length</th>
<th>Screw Size</th>
<th>Drill Hole Diameter</th>
<th>SpeedGuide</th>
</tr>
</thead>
<tbody>
<tr>
<td>T8</td>
<td>2.7mm, 2.4mm,</td>
<td>2.0mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.0mm peg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T10</td>
<td>2.7mm</td>
<td>2.0mm</td>
<td></td>
</tr>
<tr>
<td>T10</td>
<td>3.5mm</td>
<td>2.6mm</td>
<td></td>
</tr>
<tr>
<td>T10</td>
<td>2.7mm</td>
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<td></td>
</tr>
<tr>
<td>T10</td>
<td>3.5mm</td>
<td>2.6mm</td>
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</table>

*Note:* Despite similarity in appearance, there are 2 separate SpeedGuides for T8 and T10 screw platforms.
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SpeedGuide Locking

Ensure that the drill is in the locked position on the SpeedGuide outer sleeve before engaging the SpeedGuide to the plate hole.

The locked position prevents the drill from moving axially inside the sleeve and facilitates correct engagement of the SpeedGuide in the plate hole.

The locked position can be attained by spinning the outer drill sleeve clockwise with respect to the drill. The locked position can also be attained by holding the outer drill sleeve and reversing the drill using the power tool for a single revolution. The marker will align with the word “LOCK” on the outer drill sleeve when the drill is in the locked position as shown in Figure 3.

SpeedGuide Position

While in the locked mode, bring the SpeedGuide into the drill position by placing the tip of the instrument into the conical hole of the plate. Ensure that the SpeedGuide remains within a 15° cone relative to the perpendicular axis of the plate. When correctly placed, the SpeedGuide will engage the plate.

Caution:

The SpeedGuide must remain engaged in the seated position throughout the drilling and measuring process. Spinning of the SpeedGuide sleeve should be avoided.
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SpeedGuide Position in Conjunction with an Aiming Block

The T8 SpeedGuide may be used in conjunction with the VariAx Distal Radius Aiming Block for drilling a 2.0mm diameter pilot hole. The T8 SpeedGuide is marked with an arrow to indicate that it is fully seated in the Aiming Block.

Likewise, T10 SpeedGuides can be used in conjunction with the VariAx Clavicle Aiming Block to drill a 2.0 or 2.6mm pilot hole. Bring the SpeedGuide into the drill position by placing the tip of the instrument into the selected aiming block hole. When correctly placed, SpeedGuide will engage the plate.

Caution:
• The SpeedGuide must remain engaged in the seated position throughout the drilling and measuring process.
• Ensure that the SpeedGuide is in the locked position when engaging the plate hole.
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Drilling & Depth Measuring

Drill according to the desired screw trajectory. The drill depth can be measured as drilling is performed. The drill sleeve may start to spin with the drill, especially when it becomes congested with debris. The drill should be cleaned to prevent this. Sleeve spinning may be avoided by applying light pressure to the side of the sleeve. If spinning occurs, ensure proper soft tissue protection by utilizing standard retraction instrumentation.

Note:
Ensure proper soft tissue protection by utilizing standard retraction instrumentation, especially if spinning of the outer sleeve occurs.

Note:
When the drill is in the locked position within the sleeve, the drill tip does not rest on bone. Therefore, at the start of drilling, be aware that there may be an initial gap between the drill tip and the bone. As the drill moves from the locked to the unlocked position, an initial forward movement of the drill can be felt.

A suggested method of obtaining a depth reading and screw selection is as follows:
1. Drill until the far cortex is touched
2. Take a depth reading from the SpeedGuide
3. Add the appropriate length of the far cortex to obtain the desired length and proper fixation of the screw
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