Radiolucent Insertion Handle for TFN.
Part of the Titanium Trochanteric Fixation Nail (TFN) System.

- Increased visualization of femoral neck
- Facilitates positioning of blade/screw
- Improved handling
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Radiolucent Insertion Handle for TFN.
Part of the Titanium Trochanteric Fixation Nail (TFN) System.

- Simplified Driving Cap for quick assembly
- Groove for guiding screwdriver to connecting screw recess and locking mechanism
- Guide wire hole to visualize head element trajectory prior to inserting wire into bone
- Short barrel for better neck visibility

Synthes Radiolucent Insertion Handle for TFN
Designed to improve intraoperative C-arm imaging and positioning of the head element of the TFN construct.

Geometry and material improve handling during all steps from incision to blade/screw insertion.

The radiolucent insertion handle is compatible with the Synthes TFN implants and instruments.

Light, radiolucent material for easier handling and improved visualization.

Radiopaque lines for facilitating nail alignment with femoral neck and head (when using a true lateral view).

Guide wire hole for locating instrumented end of nail.
Refer to the *Titanium Trochanteric Fixation Nail System Technique Guide* for complete instructions on how to implant the trochanteric fixation nail.

1

**Assemble insertion instruments**

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<th>Instruments</th>
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<tr>
<td>03.010.405 Radiolucent Insertion Handle</td>
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<tr>
<td>03.010.474 Connecting Screw for Radiolucent Insertion Handle</td>
<td></td>
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<tr>
<td>357.515 Ball Hexagonal Screwdriver, 8 mm</td>
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Assemble the radiolucent handle to the TFN nail, using the appropriate connecting screw and the ball hexagonal screwdriver.

2

**Attach driving cap**

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<tr>
<th>Instrument</th>
<th>Description</th>
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<tr>
<td>03.010.475 Driving Cap</td>
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Thread the one-piece driving cap securely into the insertion handle. A free hammer can be used for inserting the nail.
3
Confirm nail depth (optional)

Using an AP C-arm image, insert a 3.2 mm guide wire in the distal guide wire hole of the handle to confirm the proper depth of the nail in the intramedullary canal.

Remove the driving cap and guide wire once the nail has reached its proper depth.

4
Attach aiming arm

Instrument

| 03.019.030 | Aiming Arm Knob for 03.019.008 and for 03.010.405 |

Replace the standard knob on the aiming arm with the aiming arm knob. Fingertighten the knob to securely attach the aiming arm to the handle.
5
Insert guide wire for blade/screw

Position the C-arm in a true lateral view (alignment of the axis of the femoral neck is congruent with the axis of the femoral shaft).¹

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While maintaining true lateral imaging, adjust nail rotation until the nail appears between the two radiopaque guidelines.

Needs adjustment

Properly aligned
Alternative technique with guide wire
Insert a 3.2 mm guide wire in the proximal wire hole of the handle.
Adjust nail rotation until the nail appears between the two radiopaque guidelines and the guide wire appears to be central in the femoral neck.

**Note:** Depending on the amount of soft tissue, it may be necessary to back out the guide wire to make adjustments.

This guide wire demonstrates the trajectory of the head element upon insertion.

Once alignment has been achieved, insert a guide wire through the 11.0/3.2 mm wire guide.
6

Engage locking mechanism

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<th>Instrument</th>
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<tbody>
<tr>
<td>357.417</td>
<td>5.0 mm Flexible Hexagonal Screwdriver, coated</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>357.427</td>
<td>5.0 mm Hexagonal Screwdriver</td>
</tr>
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</table>

Utilize the handle’s groove to guide the screwdriver into the connecting screw recess and down to the locking mechanism.
Instruments

03.010.405  Radiolucent Insertion Handle for Trochanteric Fixation Nails

03.010.474  Connecting screw for Radiolucent Insertion Handle for TFN

03.010.475  Driving Cap

03.019.030  Aiming Arm Knob for 03.019.008 and 03.010.405