

Integra®

QWIX® Fixation Screw

SURGICAL TECHNIQUE



INTEGRA®
LIMIT UNCERTAINTY

Indications

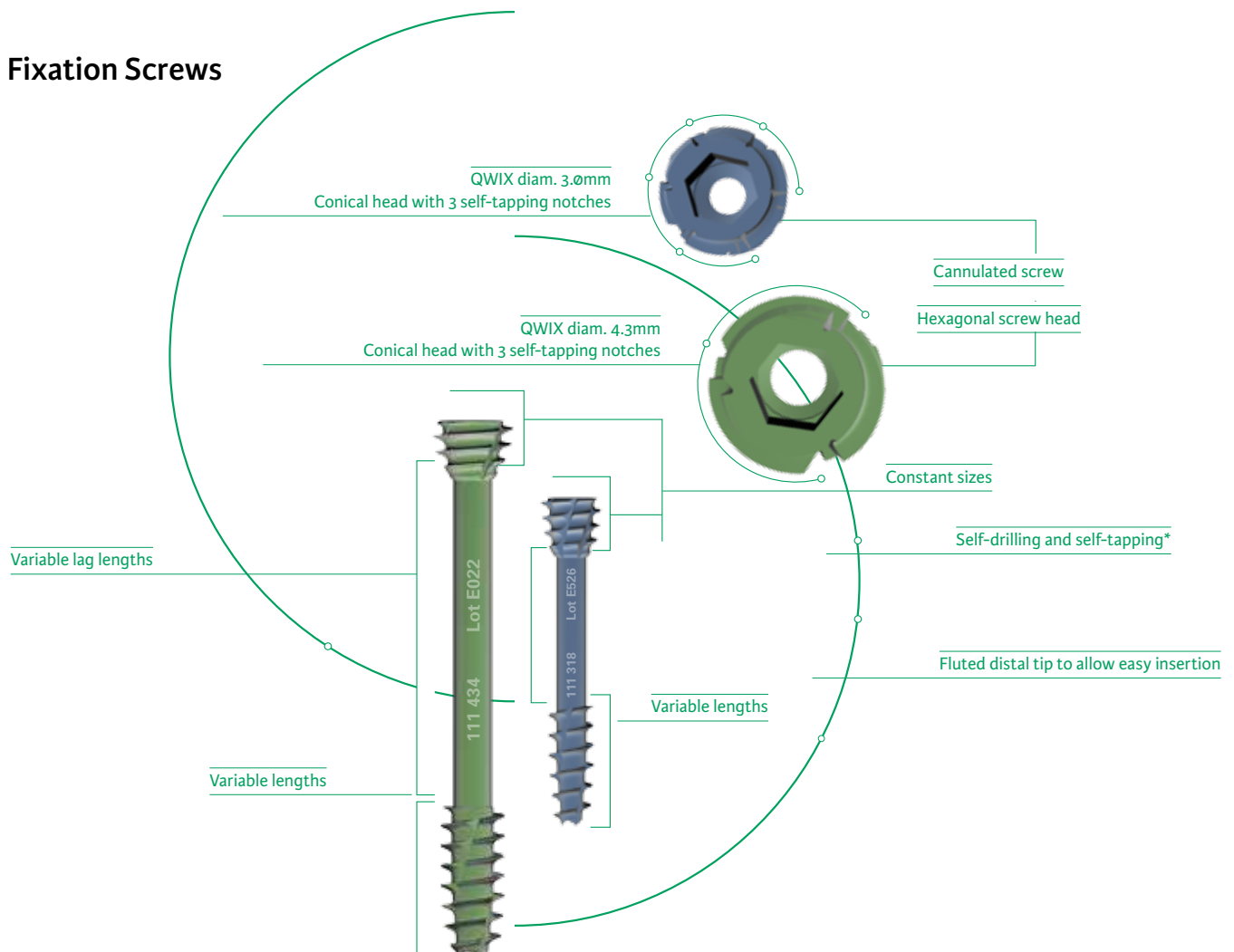
QWIX® diam. 3.0mm • QWIX diam. 4.3mm

These screws are indicated for fixation of bone fractures or for bone reconstruction:

- Mono-cortical or Bi-cortical osteotomies in the foot or the hand.
- Fracture management in the foot or the hand.
- Fixation of bone fragments in long bone or small bone fractures.
- Arthrodesis in foot, ankle surgery or hand surgery.

The size of the chosen screw should be adapted to the specific indication.

Fixation Screws



*QWIX 3.0 and 4.3

*QWIX 3.0 and 4.3 are designed with self-drilling flutes, but bone hardness can greatly vary by patient and anatomic area. The surgeon is responsible for assessing this hardness before using the self-drilling feature of the QWIX screws. Pre-drilling is advisable for dense or hard bone.

Features and Benefits

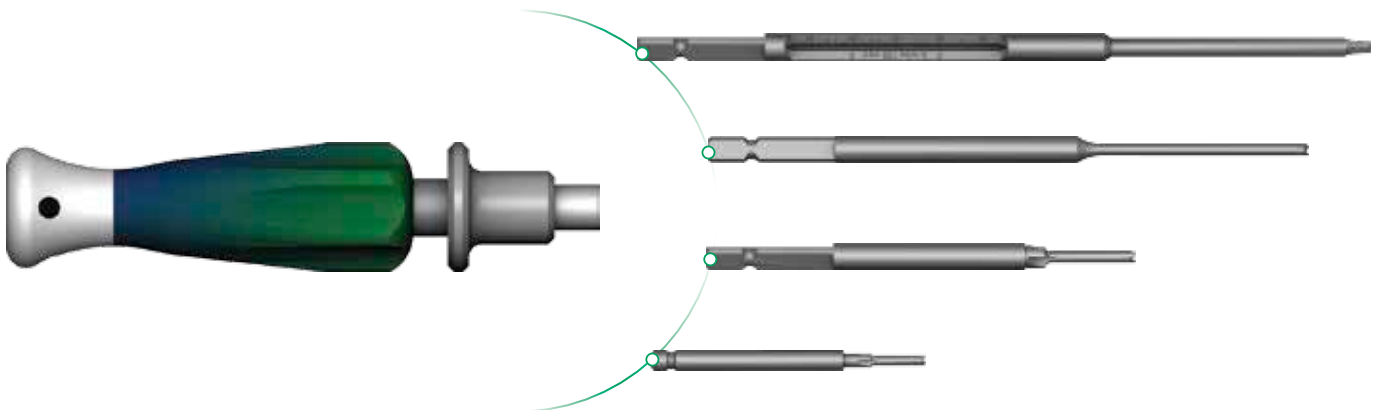
The QWIX fixation screws are designed to provide speed and precision for challenging surgical situations.

The QWIX screws' unique design allows:

- Self-drilling and self-tapping* insertion.
- Reproducible compression in various osteotomies and various fracture management sites.
- Variable lags to ensure compression across the osteotomy or fracture site.
- Accurate insertion with minimal soft tissue dissection.
- Precise percutaneous placement over a K-Wire.
- Two diameters (3.0mm and 4.3mm) to address multiple fixation and osteotomy sites.

Instruments

Modular handle with AO attachment.



Description

Titanium screw diameters 3.0mm and 4.3mm.

- Self-drilling and self-tapping.*
- Totally intra-osseous fixation.
- Large range of screw lengths.
- Variable lags designed specifically for extremity fixation.
- K-wire guided drilling and insertion.
- Manufactured from Titanium alloy: Ti-6Al-4V, ISO 5832-3 ASTM F136.
- Sterilely packaged.

*QWIX 3.0 and 4.3

*QWIX 3.0 and 4.3 are designed with self-drilling flutes, but bone hardness can greatly vary by patient and anatomic area. The surgeon is responsible for assessing this hardness before using the self-drilling feature of the QWIX screws. Pre-drilling is advisable for dense or hard bone.

Surgical Technique



As the manufacturer of this device, Integra does not practice medicine and does not recommend this or any other surgical technique for use on a specific patient. The surgeon who performs any implant procedure is responsible for determining and using the appropriate techniques for implanting the device in each patient.

Product Identification

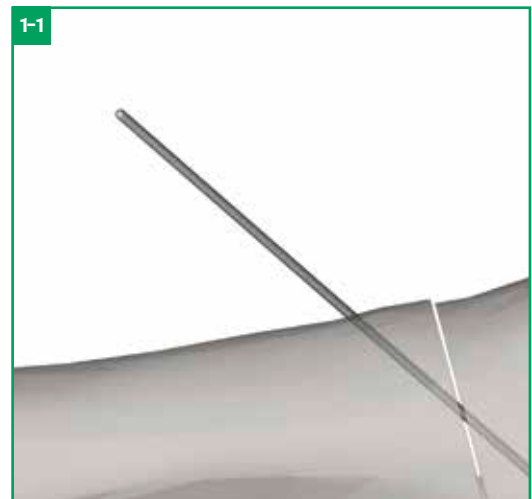
The QWIX screws and instrumentation are color coded:

—  Blue for 3.0mm screws —  Green for 4.3mm screws

Step 1 • K-Wire Insertion

1-1 Secure the bone fragments with a K-wire (115 070ND, 115 101ND or 115 116ND). The position should be checked under fluoroscopy (now and throughout the procedure).

This K-wire guides the screw. Due to the atraumatic aspects of the K-wire, it can be withdrawn and replaced until the desired position is achieved.



Step 2 • Measurement

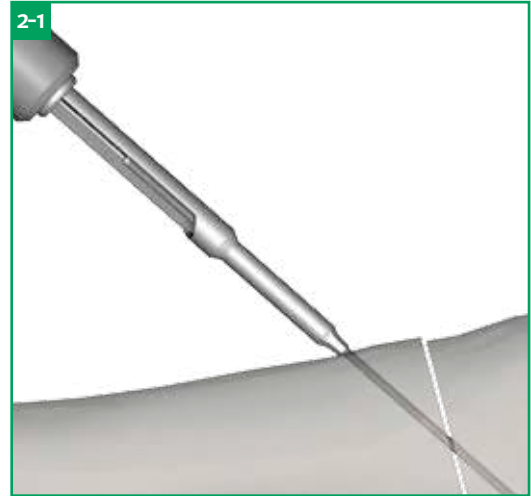
- 2-1** The length read on the cannulated screwdriver is equal to the length of the K-wire inserted in the bone plus 1.5mm (offset compensates for compression and Bi-cortical fixation).

Bi-cortical Fixation:

Insert the appropriate cannulated screwdriver (119 135ND or 119 104ND) on the K-wire (fig. 2-1), and read the indicated screw length directly from the scale (fig. 2-2).

Mono-cortical Fixation:

Follow the same procedure as above except subtract 1.5mm from the reading on the scale to determine appropriate screw length.
*See Step 4 for illustration of screw placement.



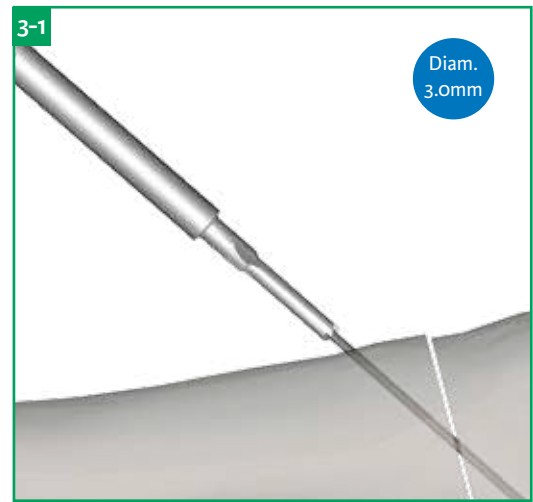
Step 3 • Optional

QWIX 3.0 and 4.3 are designed with self-drilling flutes, but bone hardness can greatly vary by patient and anatomic area. The surgeon is responsible for assessing this hardness before using the self-drilling feature of the QWIX screws.

Pre-drilling is advisable for dense or hard bone.

Depending on the selected screw, follow the appropriate procedures:

- fig. 3-1 is for diam. 3.0mm QWIX
- fig. 3-2a is for diam. 4.3mm QWIX



For Diameter 3.0mm Screws Only

- 3-1** In case of hard/sclerotic bone, it may be necessary to prepare the cortex by power or manually with the 3.0mm diameter drill (159 027SND).



For Diameter 4.3mm Screws Only

- 3-2a** The short drill (119 139ND) is used to prepare the cortex for insertion of the screw head.
- 3-2b** The long drill (119 516ND) is used to countersink the bone for insertion of the screw body. The drill is introduced over the K-wire and drilled to the desired depth.



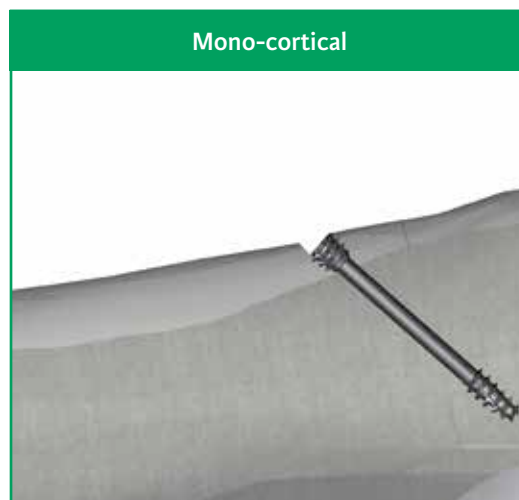
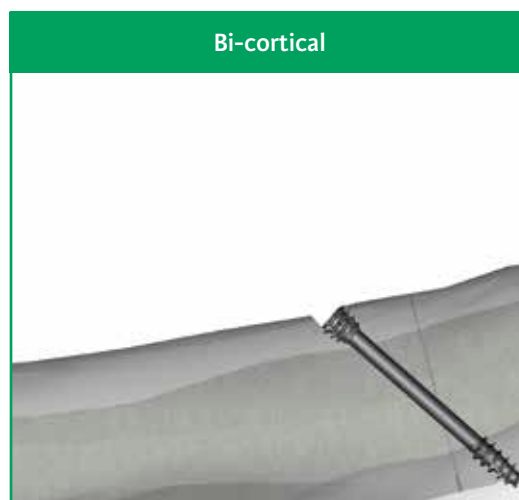
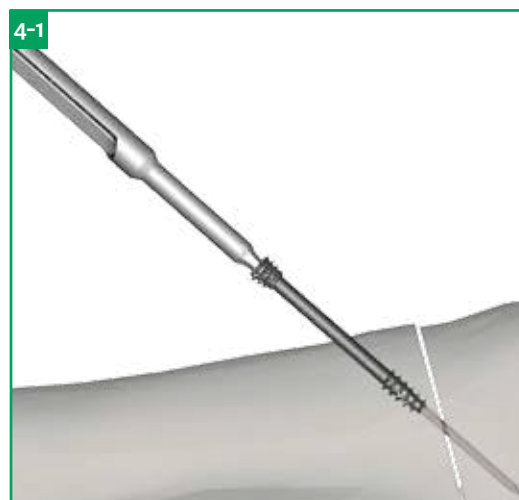
Step 4 • Screw Insertion

4-1 The screw is inserted with the cannulated screwdriver (119 135ND or 119 104ND).

QWIX screws may be inserted under power or by hand. The head of the screw must be completely embedded in the cortex to obtain optimal compression. Complete insertion is also recommended to prevent soft tissue irritation particularly on the dorsal aspect of the foot.

Tip

The screw insertion should be checked under flouroscopy.



3.0mm QWIX Fixation Screw (Sterile)

Reference	Length
111 312 SND	12mm
111 314 SND	14mm
111 316 SND	16mm
111 318 SND	18mm
111 320 SND	20mm
111 322 SND	22mm
111 324 SND	24mm
111 326 SND	26mm
111 328 SND	28mm
111 330 SND	30mm
111 332 SND	32mm
111 334 SND	34mm

4.3mm QWIX Fixation Screw (Sterile)

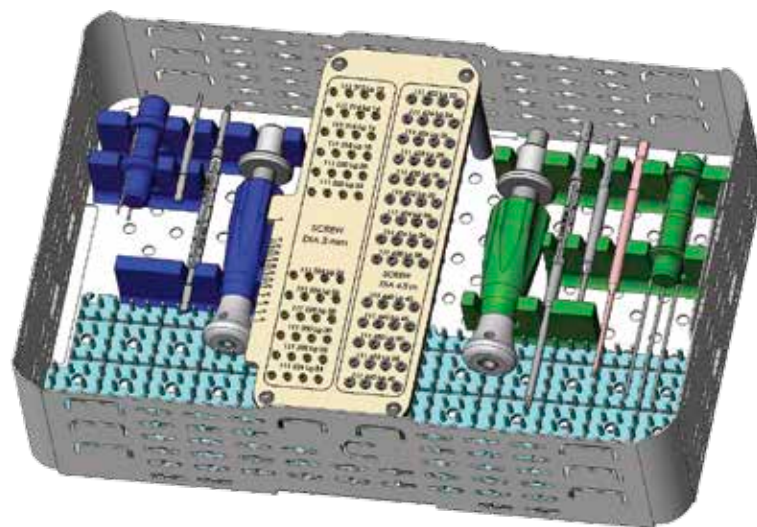
Reference	Length
111 422 SND	22mm
111 424 SND	24mm
111 426 SND	26mm
111 428 SND	28mm
111 430 SND	30mm
111 432 SND	32mm
111 434 SND	34mm
111 436 SND	36mm
111 438 SND	38mm
111 440 SND	40mm
111 445 SND	45mm
111 450 SND	50mm
111 455 SND	55mm
111 460 SND	60mm

3.0mm QWIX Instrumentation

Reference	Description
119 133ND	Handle with AO Attachment Diam. 3.0mm
119 135ND	Diam. 3.0mm Screwdriver Axis
159 027SND	Drill with AO Attachment LG 65mm Diam. 2.2mm
115 070ND	K-Wire Diam. 1.0mm LG 70mm
115 101ND	K-Wire Diam. 1.0mm LG 100mm – one blunt tip
119 934ND	Cylinder for Screw Diam. 3.0mm

4.3mm QWIX Instrumentation

Reference	Description
119 138ND	Handle with AO Attachment Diam. 4.3mm
119 104ND	Diam. 4.3mm Screwdriver Axis
119 139ND	Short Drill for 4.3mm
119 516ND	Long Drill for 4.3mm
115 116ND	K-Wire Diam. 1.6mm LG 150mm
119 937ND	Cylinder for Screw Diam. 4.3mm



For more information or to place an order, please contact:

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- Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.
- Warning: Applicable laws restrict these products to sale by or on the order of a physician.

Additional information for EMEA Customers only:

Products mentioned in this document are CE class I, IIa, IIb or III devices. Contact Integra should you need any additional information on devices classification. All the medical devices mentioned on this document are CE marked according to European council directive 93/42/EEC on medical devices and its relatives, unless specifically identified as "NOT CE MARKED".