

# Integra®

BOLD® 2.5 mm - 3.0 mm - 3.7 mm  
Compression screw

QWIX® 3.0 mm  
Fixation screw

## SURGICAL TECHNIQUE



INTEGRA®  
LIMIT UNCERTAINTY

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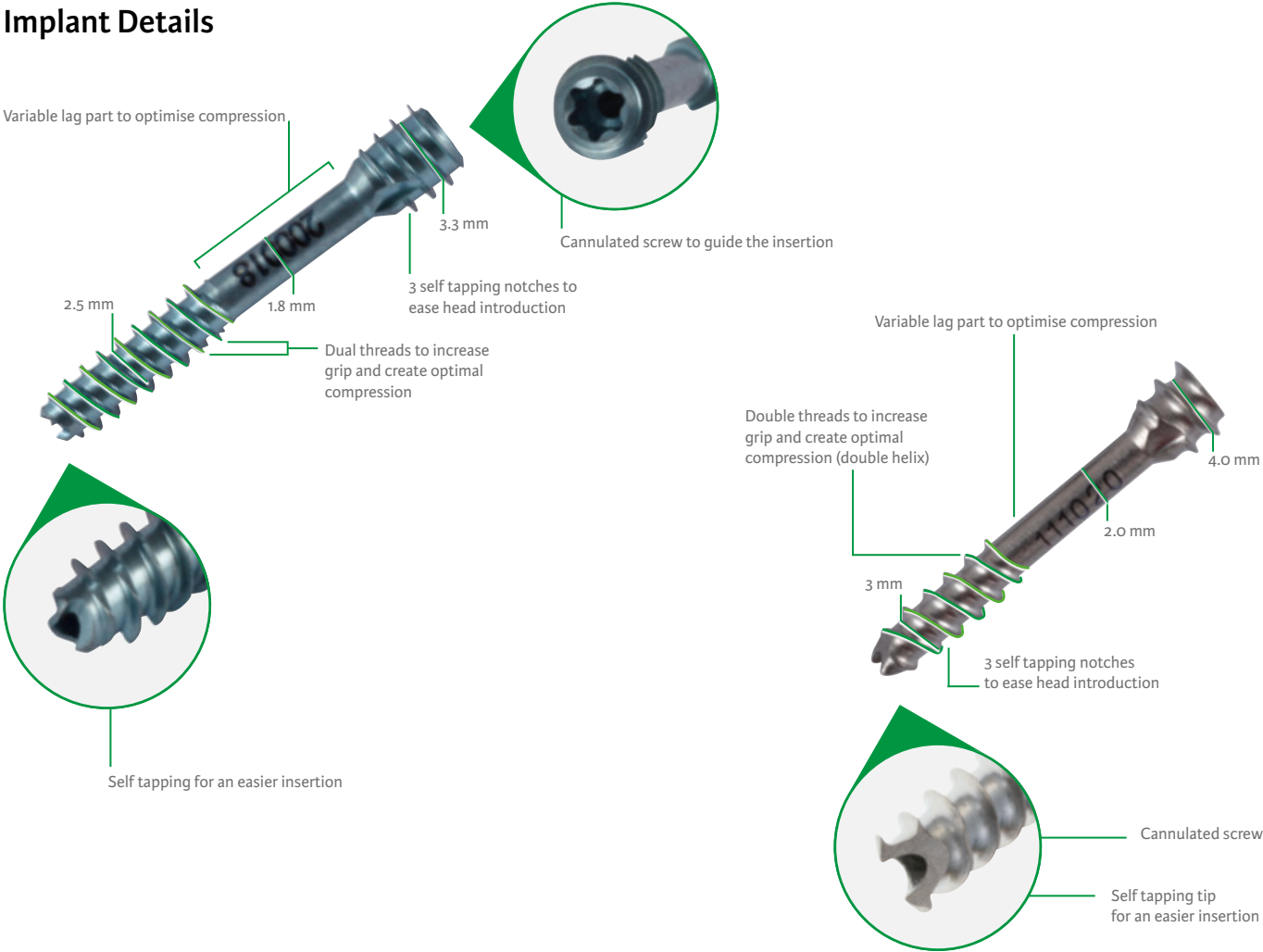
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Implant Details

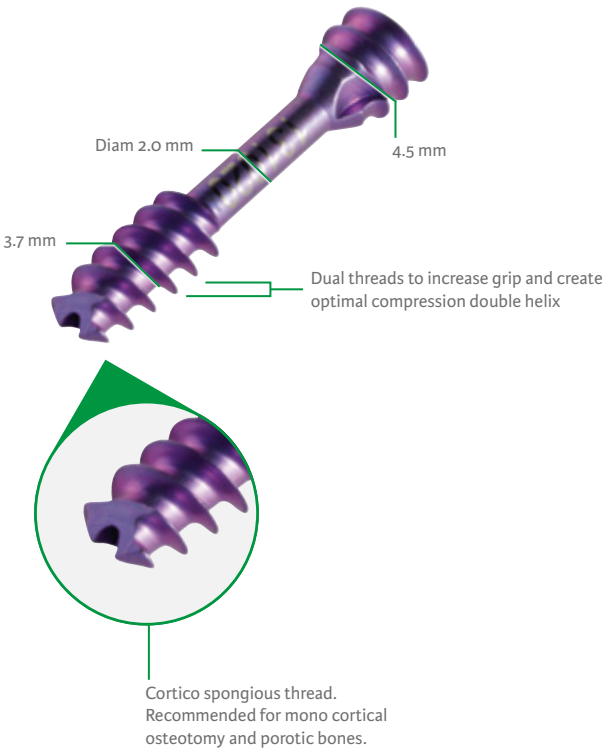


Bold® 2.5 mm

- Material: Titanium alloy, TiAi6V4 ISO 5832-3 ASTM F136.
- Sterile and non sterile implants.
- Compression screws.
- Range of sizes: 10 mm to 30 mm (by 2.0 mm).
- Laser marked for tractability.
- Cannulated screw.
- Dual threads.
- 3 self-tapping notches.
- Variable lag part.
- 3 tips.

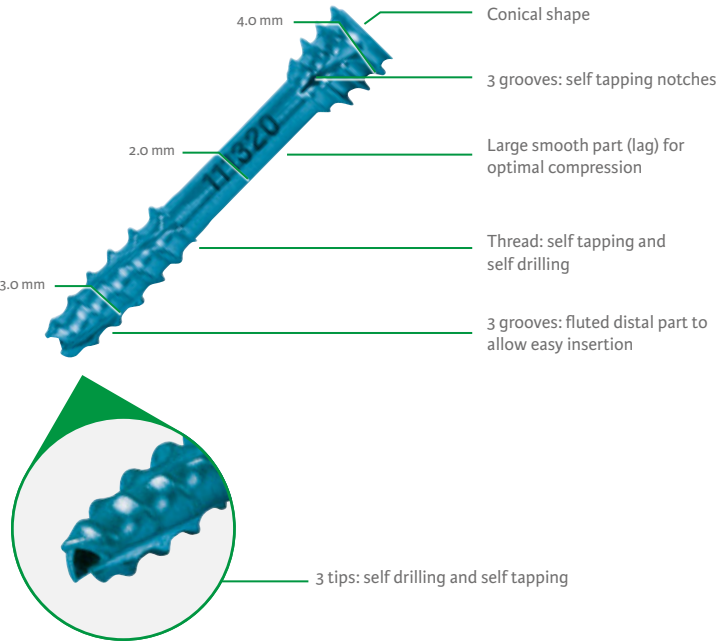
Bold® 3.0 mm

- Material: Titanium alloy, TiAi6V4 ISO 5832-3 ASTM F136.
- Sterile and non sterile implants.
- Compression screws.
- Range of sizes: 10 mm to 34 mm (by 2.0 mm).
- Laser marked for tractability.
- Cannulated screw.
- Dual threads.
- 3 self-tapping notches.



Bold® 3.7 mm

- Material: Titanium alloy, TiAi6V4 ISO 5832-3 ASTM F136.
- Sterile and non sterile implants.
- Compression screws.
- Range of sizes: 14 mm to 34 mm (by 2.0 mm).
- Cannulated screw.
- Laser marked for tractability.
- Dual threads.
- 3 self-tapping notches.
- Variable lag part.



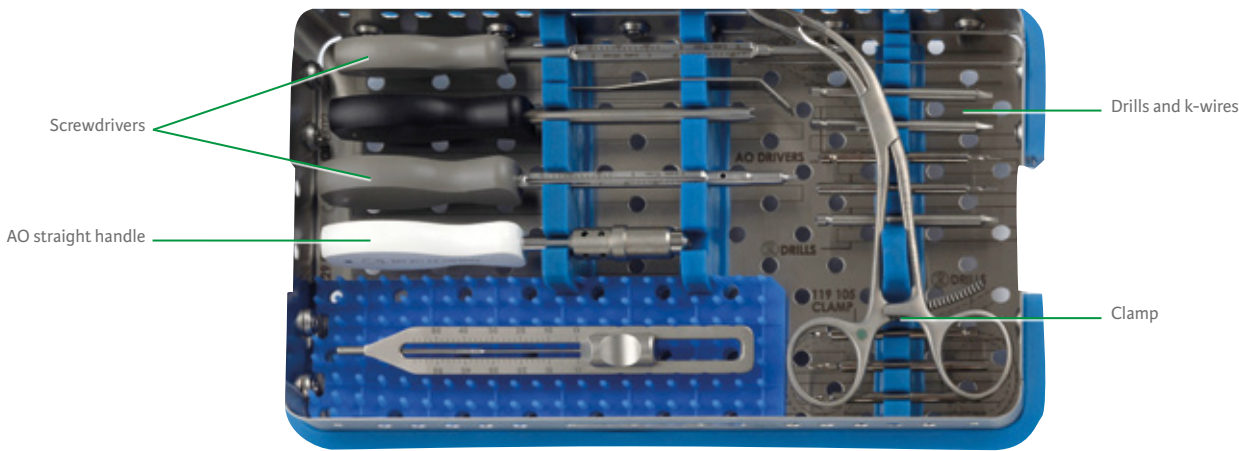
Qwix® 3.0 mm

- Material: Titanium alloy: Ti-6Al-4V, ISO 5832-3 ASTM F136.
- Sterile and non sterile implants.
- Stabilization screw.
- Range of sizes: 12 mm to 32 mm (by 2.0 mm).
- Cannulated screw.
- Hexagonal screw head.
- Totally bone embedded.
- Fluted distal part.
- 6 conical heads.
- Blue color code for the screws and instruments.





Indications

- For fixation of bone fractures or for bone reconstruction.
- Examples include:
  - Fixation of osteotomies for Hallux Valgus treatment (such as Scarf, Chevron, etc.).
  - Mono or Bi-cortical osteotomies in the foot or hand.
  - Distal or proximal metatarsal or metacarpal osteotomies.
  - Arthrodesis in hand or foot surgery.
  - Fixation of small bone fragments, in long bones or small bones fractures.

Instruments Details



Thank you to refer to the table in order to choose the right screwdriver.

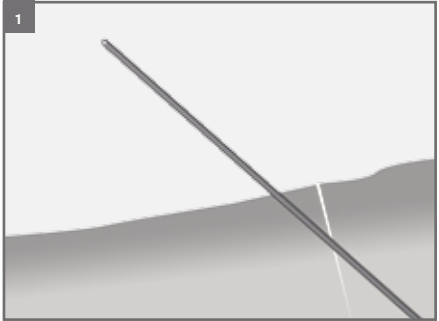
	Bold® 2.5 mm	Bold® 3.0 mm Bold® 3.7 mm Qwix® 3.0 mm
Screwdrivers	T7 star Monobloc: 229003 AO: 229004	Hexa 2.0 Monobloc: 229002 AO: 229005
Head design	Torx drive  	Hexagonal drive  

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Surgical Technique

**1 K-wire Insertion**  
Secure the bone fragments with a K-wire (fig. 1). The position should be checked under fluoroscopy.

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



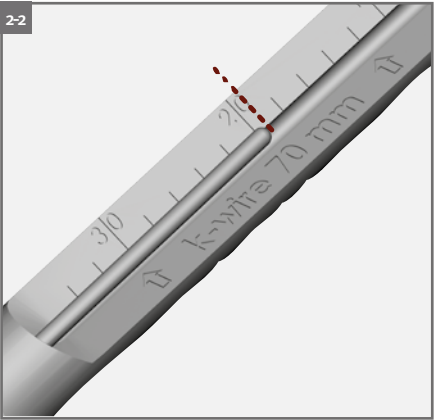
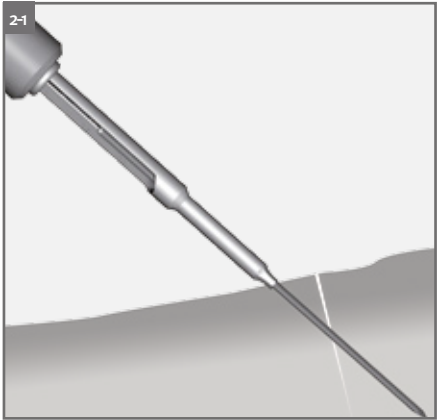
Thank you to refer to the table in order to choose the right kwire.

	K-wire		
Screw	Reference	Diameter	Length
Bold® 2.5 mm	115008S	0.8 mm	70 mm
Bold® 3.0 mm	115070(S) and/or 115100(S)	1.0 mm	70 and/or 100 mm
Bold® 3.7 mm			
Qwix® 3.0 mm			

\*(s): delivered sterile and non sterile.

**2 Measurement**  
Insert the appropriate cannulated screwdriver on the K-wire (fig. 2-1), and read the screw length to be used directly on the scale (fig. 2-2).





**Note**  
If the surgeon wishes a monocortical fixation, subtract 1.5 mm to determine the appropriate screw length.



Refer to the table in order to choose the right screw, regarding the desired fixation.

	Bold® 2.5 mm Bold® 3.0 mm Qwix® 3.0 mm	Bold® 3.7 mm
Compression	Bicortical compression	Monocortical compression

Thank you to refer to the table in order to choose the right screwdriver.

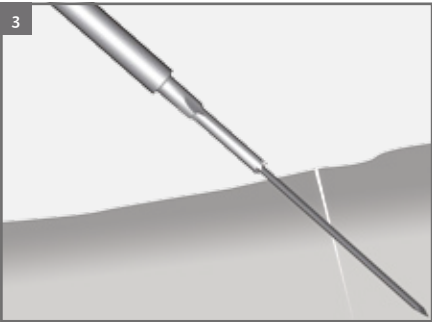
	Bold® 2.5 mm	Bold® 3.0 mm Bold® 3.7 mm Qwix® 3.0 mm
Screwdrivers	T7 star Monobloc: 229003 AO: 229004	Hexa 2.0 Monobloc: 229002 AO: 229005
Head design	Torx drive  	Hexagonal drive  



3

Drilling

Prepare the cortex by power or manually with dedicated forefoot drill (fig. 3).



Note





For Qwix® fixation screw 3.0, this step is optional. Although the Qwix® screw is self-drilling and self-tapping in most bone, it may be necessary to drill the cortex in certain cases.

5

Screw Insertion

The screw is inserted with the appropriate cannulated screwdriver (cf table).

Thank you to refer to the table in order to choose the right screwdriver.

	Bold® 2.5 mm	Bold® 3.0 mm Bold® 3.7 mm Qwix® 3.0 mm
Screwdrivers	T7 star Monobloc: 229003 AO: 229004	Hexa 2.0 Monobloc: 229002 AO: 229005
Head design	Torx drive  	Hexagonal drive  

Thank you to refer to the table in order to choose the right drill.

	"2 in 1" Short drill L12 mm Screw length 10 mm to 16 mm	"2 in 1" Medium drill L22 mm Screw length 18 mm to 24 mm	"2 in 1" Long drill L32 mm Screw length 26 mm to 34 mm
Cannulated	119 027(S): Dia 2.2 mm 229 227S: Dia 1.9 mm	119 025(S): Dia 2.2 mm 229237S: Dia 1.9 mm	119 023(S): Dia 2.2 mm
Non Cannulated	119 227(S): Dia 2.2 mm 229228S: Dia 1.9 mm	119 225(S): Dia 2.2 mm 229238S: Dia 1.9 mm	119 223(S): Dia 2.2 mm
AO Cannulated	159 027(S): Dia 2.2 mm 229027S: Dia 1.9 mm	159 025(S): Dia 2.2 mm 229037S: Dia 1.9 mm	159 023(S): Dia 2.2 mm
AO Non Cannulated	159 227(S): Dia 2.2 mm 229028S: Dia 1.9 mm	159 225(S): Dia 2.2 mm 229038S: Dia 1.9 mm	159 223(S): Dia 2.2 mm

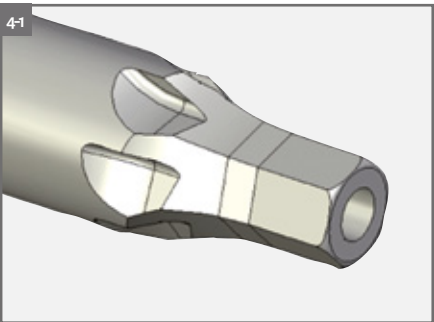
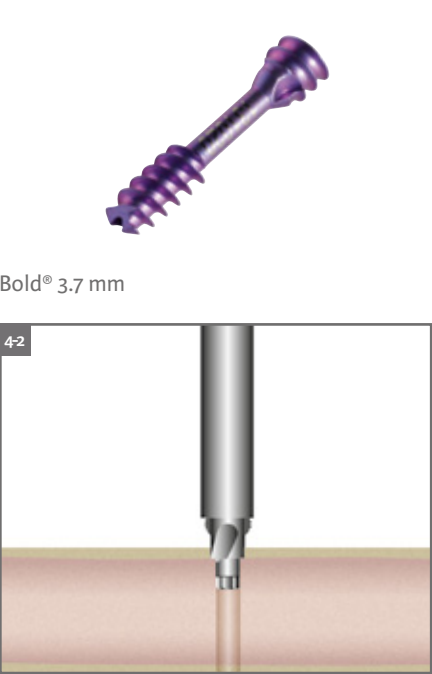
Green: for the Bold® 3.0mm Bold® 3.7 mm, Qwix® 3.0 mm screws  
Black: For the Bold® 2.5 mm screws.

4

Chamfren Recommended for Bold® 3.7 mm Screws

Caution

Be careful to not use the chamfren when you insert the Bold® 2.5, Bold® 3.0 and Qwix® 3.0 screws.



Screwdriver

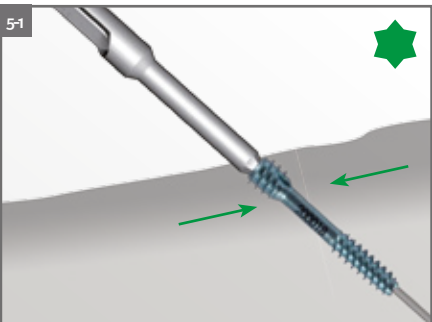
Caution

Development of a dedicated screwdriver (229 002) which allows to break the cortical with the chamfren. In order to properly insert the screw head without any micro fractures, it is mandatory to use this chamfren each time.

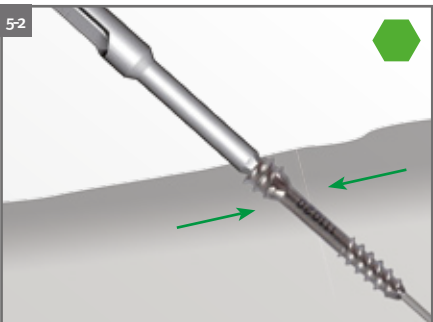
The compression screws can be inserted totally under power then completed by hand. The head of the screw must be completely embedded in the cortex to obtain optimal compression (fig. 5-1). Complete insertion is also recommended to prevent soft tissue irritation particularly on the dorsal aspect of the foot.

Thank you to refer to the table in order to choose the right screw, regarding the desired fixation.

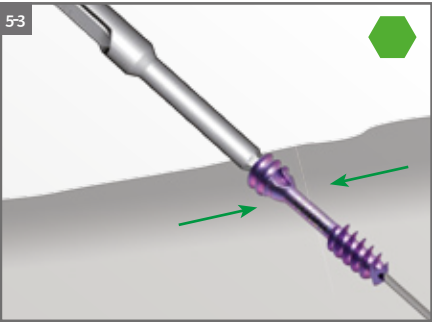
	Bold® 2.5 mm Bold® 3.0 mm Qwix® 3.0 mm	Bold® 3.7 mm
Compression	Bicortical compression	Monocortical compression



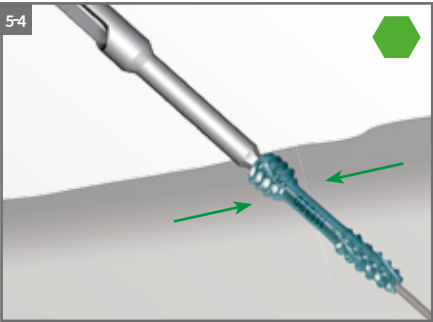
Bold® 2.5 mm



Bold® 3.0 mm

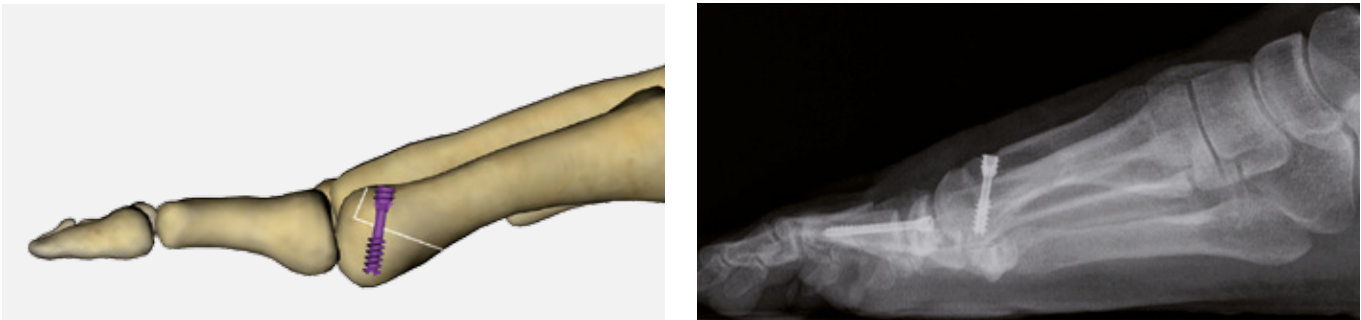


Bold® 3.7 mm

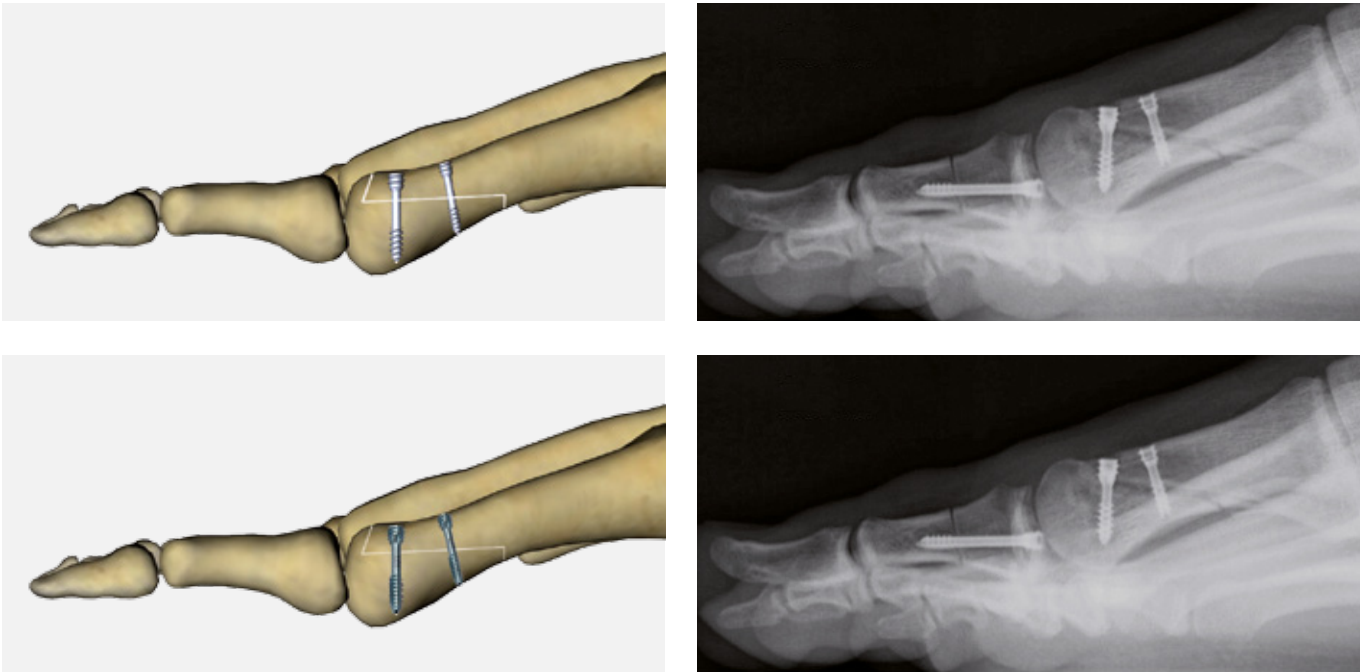


Qwix® 3.0 mm

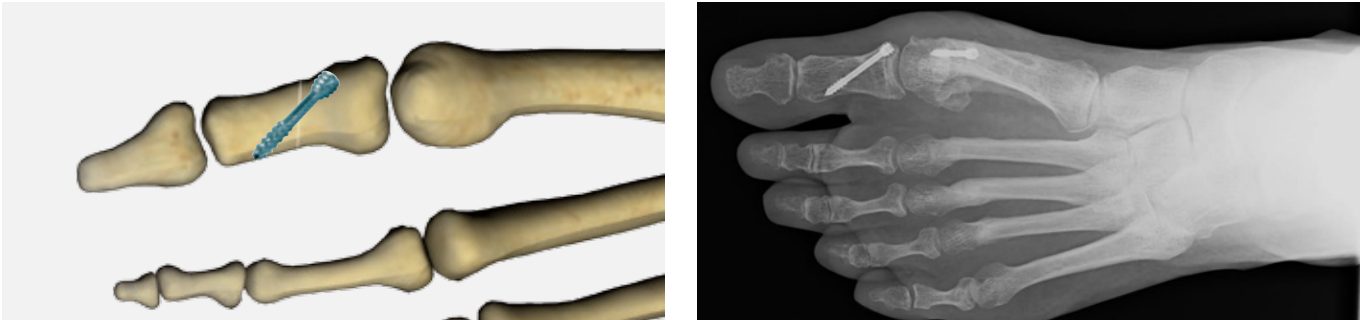
Chevron Osteotomy: Monocortical Osteotomy with the Bold® 3.7 Compression Screw



Scarf Osteotomy: Bicortical Osteotomy with the Bold® 3.0 or Bold® 2.5 Compression Screw



Akin Osteotomy: Bicortical Osteotomy with the Qwix® 3.0 Compression Screw



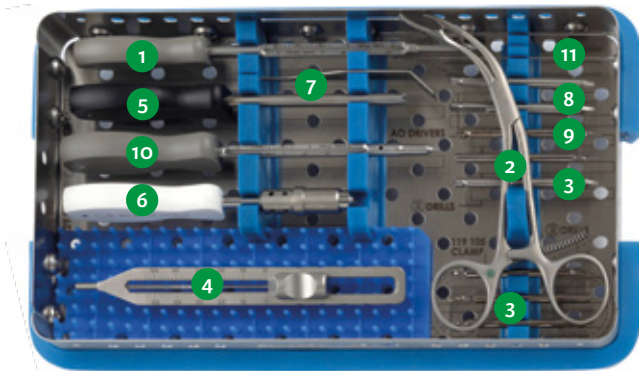
References

Bold® 2.5 mm: Compression Screw		Bold® 3.0 mm: Compression Screw		Bold® 3.7 mm: Compression Screw		Qwix® 3.0 mm: Fixation Screw	
Reference	Description	Reference	Description	Reference	Description	Reference	Description
200 010(S)	Dia 2.5 mm - Length 10 mm	111 010(S)	Dia 3.0 mm - Length 10 mm	131 014(S)	Dia 3.7 mm - Length 14 mm	111 312(S)	Dia 3.0mm - Length 12 mm
200 012(S)	Dia2.5 mm - Length 12 mm	111 012(S)	Dia 3.0 mm - Length 12 mm	131 016(S)	Dia 3.7 mm - Length 16 mm	111 314(S)	Dia 3.0mm - Length 14 mm
200 014(S)	Dia 2.5 mm - Length 14 mm	111 014(S)	Dia 3.0 mm - Length 14 mm	131 018(S)	Dia 3.7 mm - Length 18 mm	111 316(S)	Dia 3.0mm - Length 14 mm
200 016(S)	Dia 2.5 mm - Length 16 mm	111 016(S)	Dia 3.0 mm - Length 16 mm	131 020(S)	Dia 3.7 mm - Length 20 mm	111 318(S)	Dia 3.0mm - Length 18 mm
200 018(S)	Dia 2.5 mm - Length 18 mm	111 018(S)	Dia 3.0 mm - Length 18 mm	131 022(S)	Dia 3.7 mm - Length 22 mm	111 320(S)	Dia 3.0mm - Length 20 mm
200 020(S)	Dia 2.5 mm - Length 20 mm	111 020(S)	Dia 3.0 mm - Length 20 mm	131 024(S)	Dia 3.7 mm - Length 24 mm	111 322(S)	Dia 3.0mm - Length 22 mm
200 022(S)	Dia 2.5 mm - Length 22 mm	111 022(S)	Dia 3.0 mm - Length 22 mm	131 026(S)	Dia 3.7 mm - Length 26 mm	111 324(S)	Dia 3.0mm - Length 24 mm
200 024(S)	Dia 2.5 mm - Length 24 mm	111 024(S)	Dia 3.0 mm - Length 24 mm	131 028(S)	Dia 3.7 mm - Length 28 mm	111 326(S)	Dia 3.0 mm - Length 26 mm
200 026(S)	Dia 2.5 mm - Length 26 mm	111 026(S)	Dia 3.0 mm - Length 26 mm	131 030(S)	Dia 3.7 mm - Length 30 mm	111 328(S)	Dia 3.0mm - Length 28 mm
200 028(S)	Dia 2.5 mm - Length 28 mm	111 028(S)	Dia 3.0 mm - Length 28 mm	131 032(S)	Dia 3.7 mm - Length 32 mm	111 330(S)	Dia 3.0mm - Length 30 mm
200 030(S)	Dia 2.5 mm - Length 30 mm	111 030(S)	Dia 3.0 mm - Length 30 mm	131 034(S)	Dia 3.7 mm - Length 34 mm	111 332(S)	Dia 3.0mm - Length 32 mm
		111 032(S)	Dia 3.0 mm - Length 32 mm			111 334(S)	Dia 3.0mm - Length 34 mm
		111 034(S)	Dia 3.0 mm - Length 34 mm				

\*(S): delivered sterile and non sterile.      \*(S): delivered sterile and non sterile.      \*(S): delivered sterile and non sterile.      \*(S): delivered sterile and non sterile.

Drills and K-wires			Associated Instruments		
#	Reference	Description	#	Reference	Description
Bold® 3.0 mm - Bold® 3.7 mm - Qwix® 3.0 mm	3	119 027(S) "2 in 1" Drill - L 12 mm – cannulated	2	119 105	Bold® clamp
	3	119 025(S) "2 in 1" Drill - L 22 mm – cannulated	1	229 002	Screwdriver - HEXA 2.0
	3	119 023(S) "2 in 1" Drill - L 32 mm – cannulated	9	229 005	AO Screwdriver - HEXA 2.0 - AO attachment
	3	159 027(S) "2 in 1" Drill - L 12 mm – AO – cannulated	10	229 003	Screwdriver - T7 STAR - Dia 0.9 cannulated
	3	159 025(S) "2 in 1" Drill - L 22 mm – AO – cannulated	8	229 004	AO Screwdriver - T7 STAR - Dia 0.9 cannulated
	3	159 023(S) "2 in 1" Drill - L 32 mm – AO – cannulated	5	229 301	Screwdriver Spin®
	3	119 227(S) "2 in 1" Drill - L 12 mm – non cannulated	6	997 311	AO Straight handle
	3	119 225(S) "2 in 1" Drill - L 22 mm – non cannulated	7	229 101	Ruler
	3	119 223(S) "2 in 1" Drill - L 32 mm – non cannulated		229 011	Longitudinal cutting guide (optional)
	3	159 227(S) "2 in 1" Drill - L12 mm – AO – non cannulated		229 012	Transversal cutting guide (optional)
	3	159 225(S) "2 in 1" Drill - L 22 mm – AO – non cannulated	4	997 301	Depth gauge - Dia 2.0 mm - L10 mm - 60 mm (optional)
	3	159 223(S) "2 in 1" Drill - L 32 mm – AO – non cannulated	Container		
	3	115 070(S) K-wire - Dia 1.0 x L 70 mm - 1 sharp – 1 soft	Reference	Description	
	3	115 100(S) K-wire - Dia 1.0 x L 100 mm - 2 sharps	229 951	Forefoot II: set - screws instrumentation	
Bold® 2.5 mm	3	229 227S 2.5 mm "2 in 1" Drill - L 12 mm - cannulated	229 961	Forefoot II: base - screws instrumentation	
	3	229 237S 2.5 mm "2 in 1" Drill - L 22 mm - cannulated	229 970	Lid	
	11	229 027S 2.5 mm "2 in 1" Drill - L 12 mm - AO - cannulated	229 971	Forefoot II: mat - screws instrumentation	
	11	229 037S 2.5 mm "2 in 1" Drill - L 22 mm - AO - cannulated			
	11	229 028S 2.5 mm "2 in 1" Drill - L 12 mm - AO - non cannulated			
	3	229 038S 2.5 mm "2 in 1" Drill - L 22 mm - AO - non cannulated			
	3	229 228S 2.5 mm "2 in 1" Drill - L 12 mm - non cannulated			
	3	229 238S 2.5 mm "2 in 1" Drill - L 22 mm - non cannulated			
	3	115 008S K-wire - dia 0.8 x L 70 mm - 1 sharp - 1 soft			

\*S: delivered sterile and non sterile.



# Integra

BOLD® 2.5 mm - 3.0 mm - 3.7 mm Compression screw

QWIX® 3.0 mm Fixation screw

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