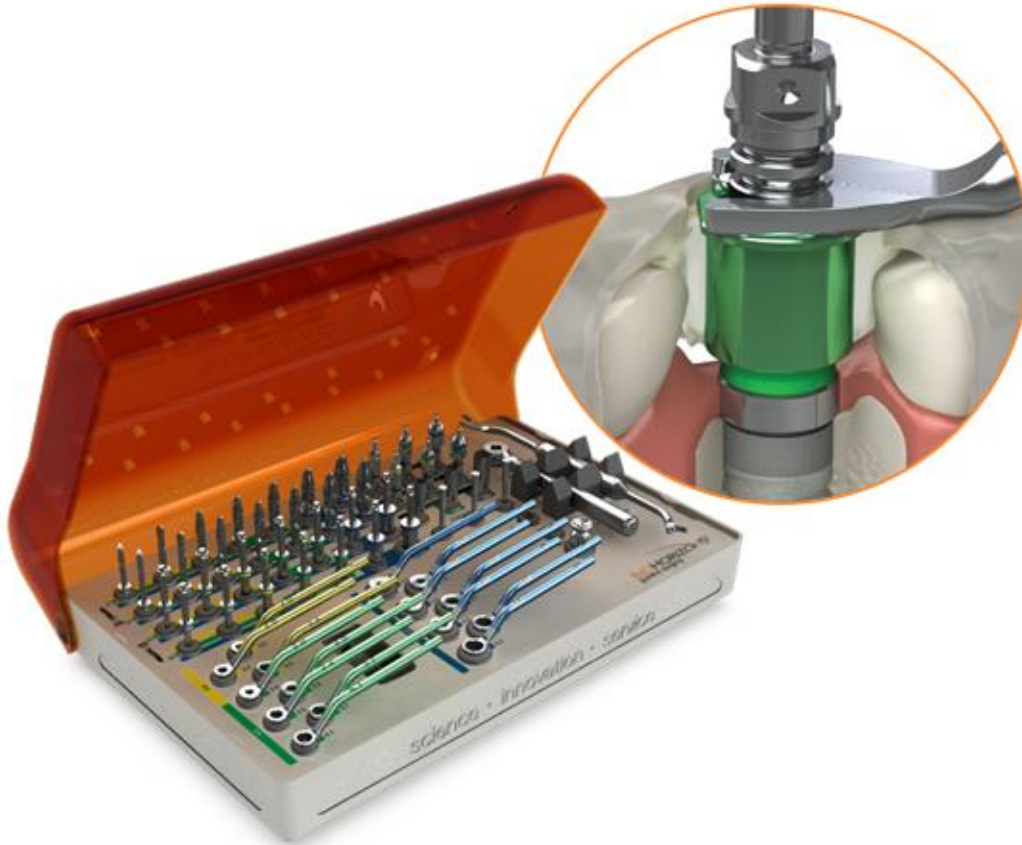


Guided Surgery Kit

*predictable and precise
implant placement*

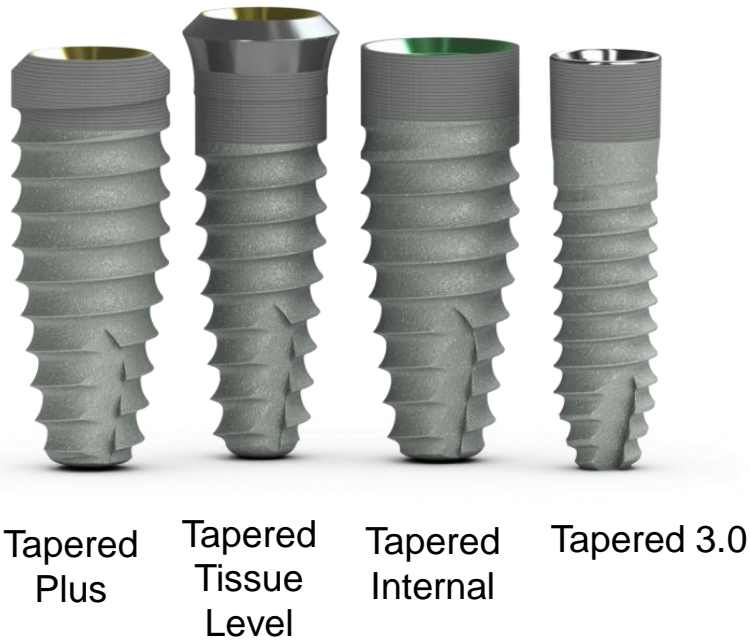
presented by
Territory Manager



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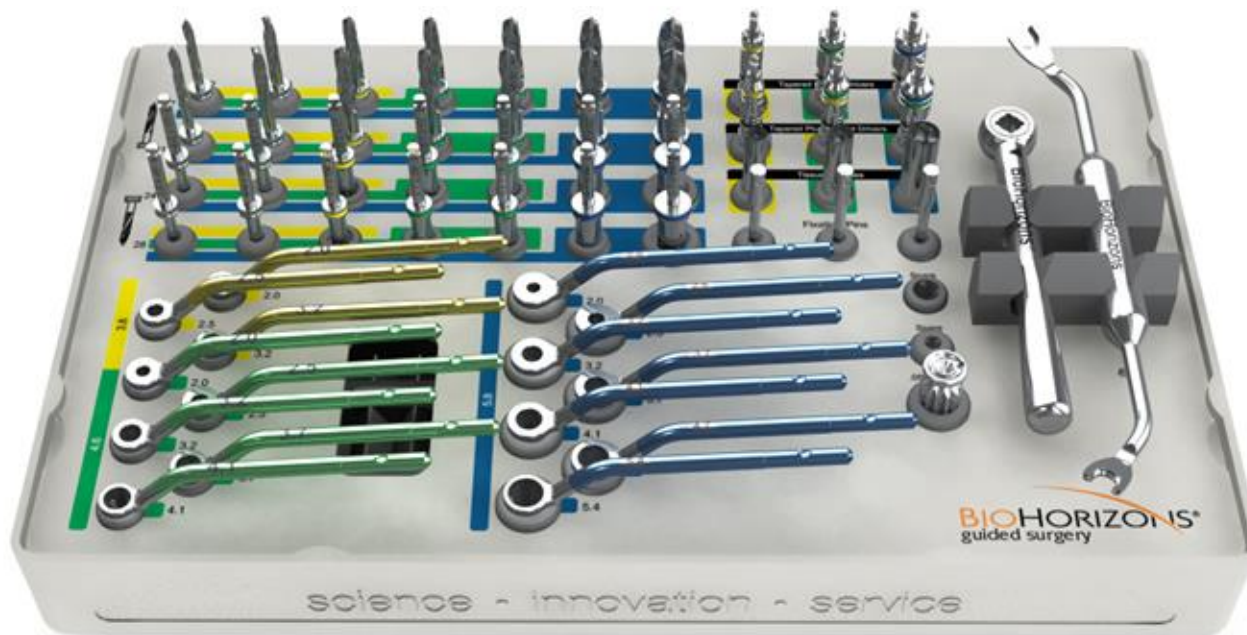
perfect fit for precise implant placement

- use to place all diameters (3.0-5.8mm) of the highly successful Tapered Internal, Tapered Plus, Tapered Tissue Level, and Tapered 3.0 implants



perfect fit for precise implant placement

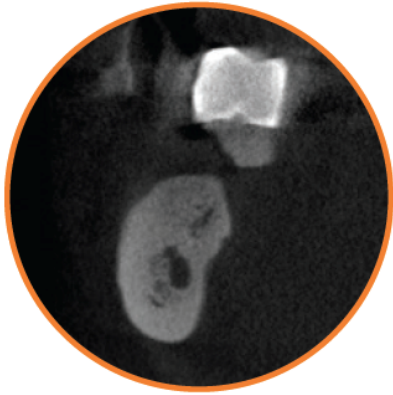
- streamlined, single kit design
- all components are color-coded to avoid the complexity of other systems



guide manufacturers & software providers



guided workflow



1 Clinical step - CT scan appointment

Initial patient records and CT scan. CT scan protocols will vary depending on the guide manufacturer. Guide manufacturers details are available at guide.biohorizons.com



2 Clinical step - Treatment plan

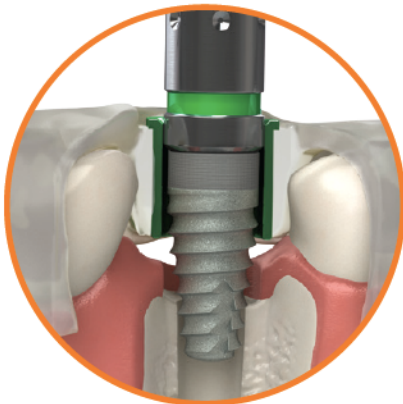
Diagnose and treatment plan for guided surgery. Determine if adequate vertical space is available to accommodate the surgical guide and related components. Import CT scan data into the treatment planning software and design the case.

guided workflow



3 Guide manufacturer step - Guide fabrication

Guide manufacturer fabricates the surgical guide using the virtual treatment plan and BioHorizons master cylinders and pilot sleeves. A patient-specific surgical protocol is generated for the clinician to follow.








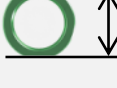
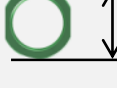
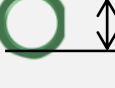








4 Clinical step - Guided surgery

Clinician performs the procedure using the surgical guide and the BioHorizons guided surgery kit while following the surgical protocol.

master cylinders and pilot sleeves



Manufactured by BioHorizons to match the exact specifications of our guided surgical instrumentation

	height	flat to flat	outer diameter	inner diameter	drill guide requirement	implant body diameter
 CGS-YMC	6mm	 6.0mm	 6.1mm	 4.3mm	yes	3.0mm & 3.8mm
 CGS-GMC	6mm	 6.6mm	 6.7mm	 5.1mm	yes	4.6mm
 CGS-BMC	6mm	 7.8mm	 8.5mm	 6.3mm	yes	5.8mm
 CGS-PS6	6mm	 n/a	 4.2mm	 n/a	no	n/a

avoiding master cylinders collision



master cylinder
collision



corrected with a
pilot cylinder

guided surgery kit

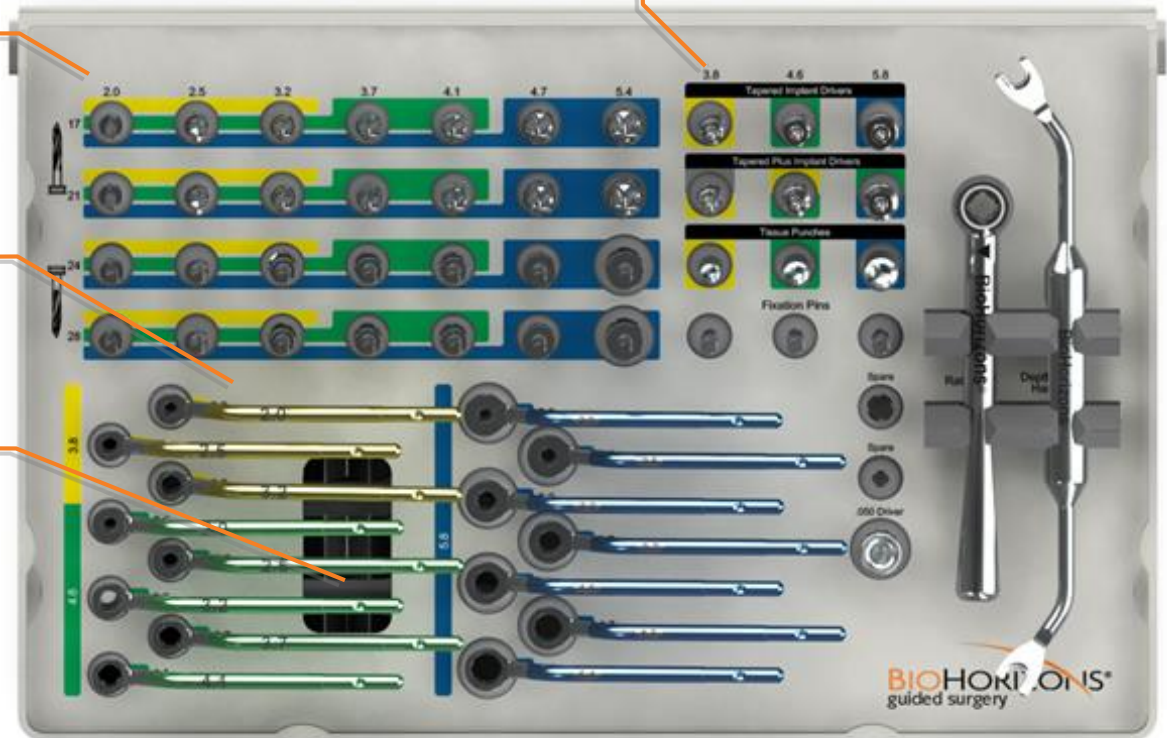
drill section includes drills with stops at 17, 21, 24, and 28mm

drill guide section includes drill guides color-coded to each master cylinder

quick connect handles are located under the tray insert

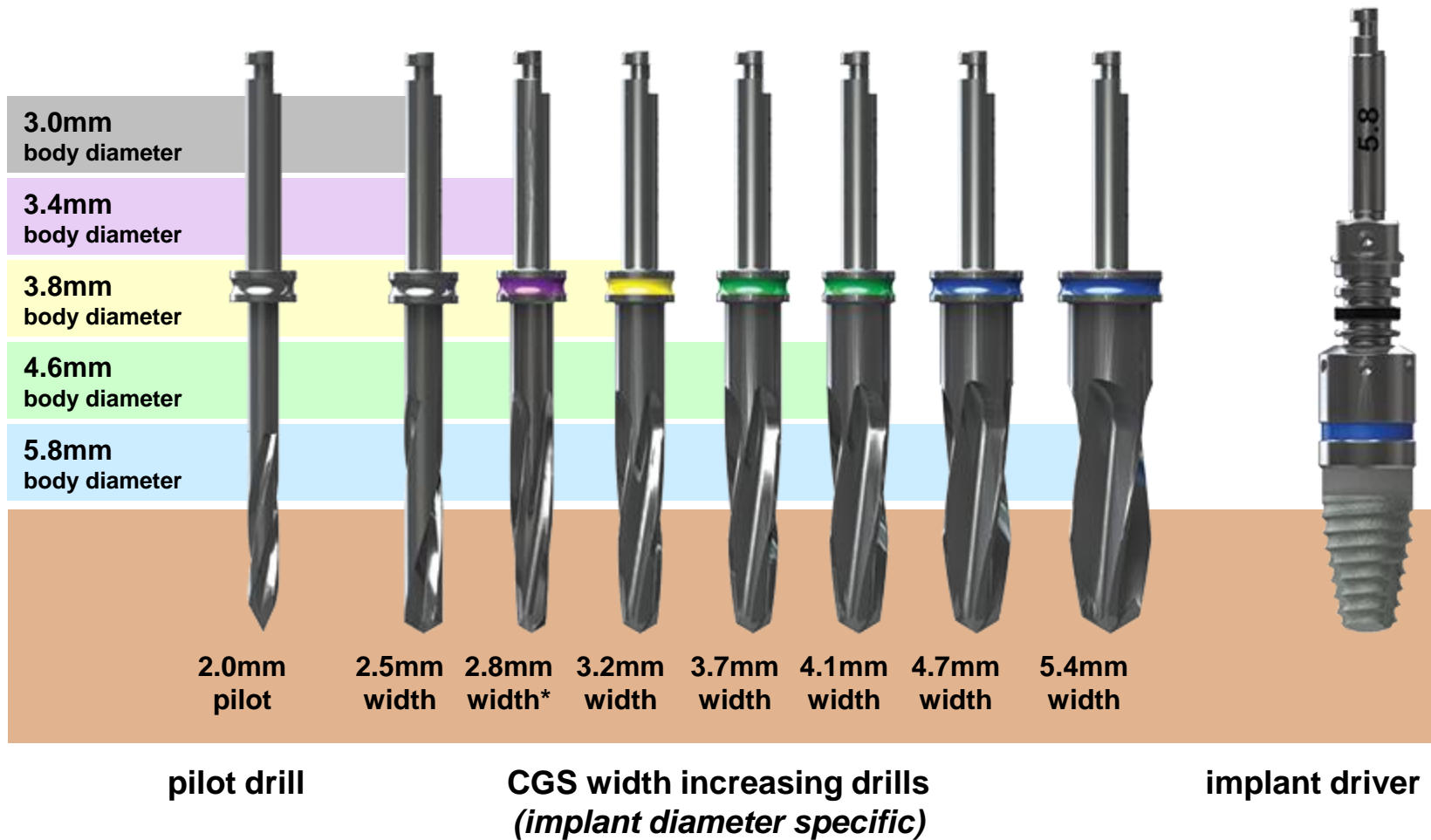


implant driver section includes drivers for Tapered, Tapered Plus and Tapered 3.0



CGS drill sequence

Guided surgery drills follow the standard Tapered Internal drill sequence



*sold separately

drills

Drill length is specified in the case-specific surgical protocol with each surgical guide.














	2.0mm pilot	2.5mm width	2.8mm width*	3.2mm width	3.7mm width	4.1mm width	4.7mm width	5.4mm width
17mm stop	122-017	CGS-2517	CGS-2817	CGS-3217	CGS-3717	CGS-4117	CGS-4717	CGS-5417
21mm stop	122-021	CGS-2521	CGS-2821	CGS-3221	CGS-3721	CGS-4121	CGS-4721	CGS-5421
24mm stop	122-024	CGS-2524	CGS-2824	CGS-3224	CGS-3724	CGS-4124	CGS-4724	CGS-5424
28mm stop	122-028	CGS-2528	CGS-2828	CGS-3228	CGS-3728	CGS-4128	CGS-4728	CGS-5428

*sold separately

drill guides

- match the drill guide color to the master cylinder.
- sequentially use the drills and corresponding drill guides to widen the osteotomy.

	2.0mm	2.5mm	2.8mm*	3.2mm	3.7mm	4.1mm	4.7mm	5.4mm
3.0mm 3.4mm 3.8mm	CGS-DGY20 	CGS-DGY25 	CGS-DGY28 	CGS-DGY32 	-	-	-	-
4.6mm	CGS-DGG20 	CGS-DGG25 	-	CGS-DGG32 	CGS-DGG37 	CGS-DGG41 	-	-
5.8mm	CGS-DGB20 	CGS-DGB25 	-	CGS-DGB32 	CGS-DGB37 	CGS-DGB41 	CGS-DGB47 	CGS-DGB54 

*sold separately

implant drivers

- the bottom color band indicates master cylinder size
- the Tapered Plus / Tapered 3.0 drivers have a 2nd band for prosthetic connection
- note: the shanks of the drivers are also laser-marked to show body diameter (and prosthetic platform size)



Tapered Internal
implant drivers



Tapered Plus / Tapered 3.0
implant drivers

Tapered Plus implant
driver color-coding

- ← top band indicates
prosthetic platform
- ← bottom band indicates
master cylinder

screw retained implant drivers

- the bottom color band indicates master cylinder size
- the Tapered Plus / Tapered 3.0 drivers have a 2nd band for prosthetic connection
- note: screw retained drivers are 8mm shorter and are designed for easy removal
- sold separately



Tapered Internal
implant drivers

Tapered Plus / Tapered 3.0
implant drivers

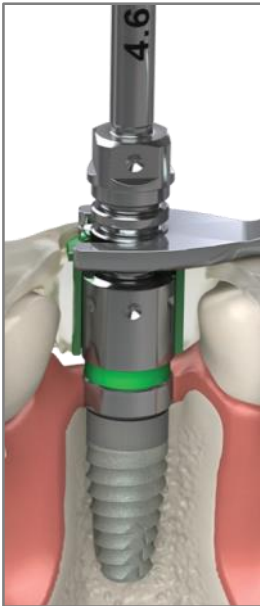


handpiece converter
sold separately

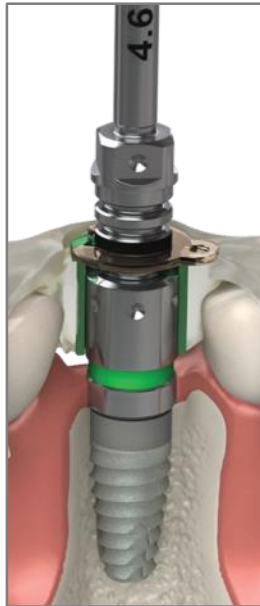
Tapered Plus implant
driver color-coding

- ← top band indicates
prosthetic platform
- ← bottom band indicates
master cylinder

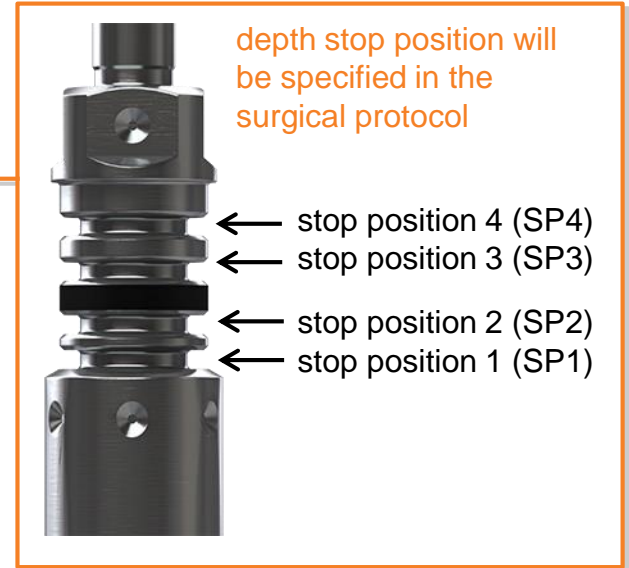
implant driver depth stops



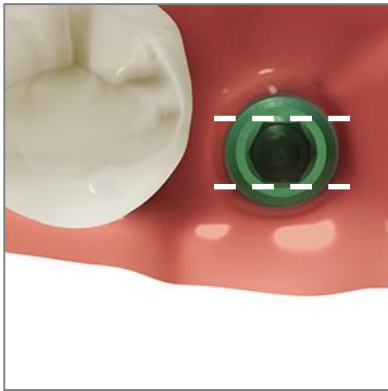
use depth stop
handle to place
implant to
proper depth



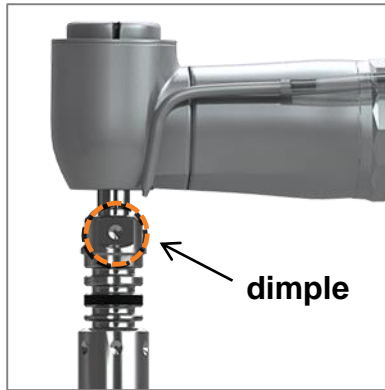
disposable
depth stop offers the
added convenience
of one-handed
implant placement



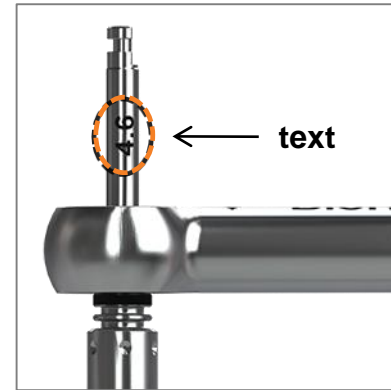
implant hex orientation



orient the internal hex of the implant until a flat is perpendicular to the implant angulation plane



when placing with a handpiece, use the dimple on the implant driver as an indicator




when placing with a ratchet, use the text on the implant driver as an indicator

case example – 4.6 x 10.5mm Tapered Internal implant

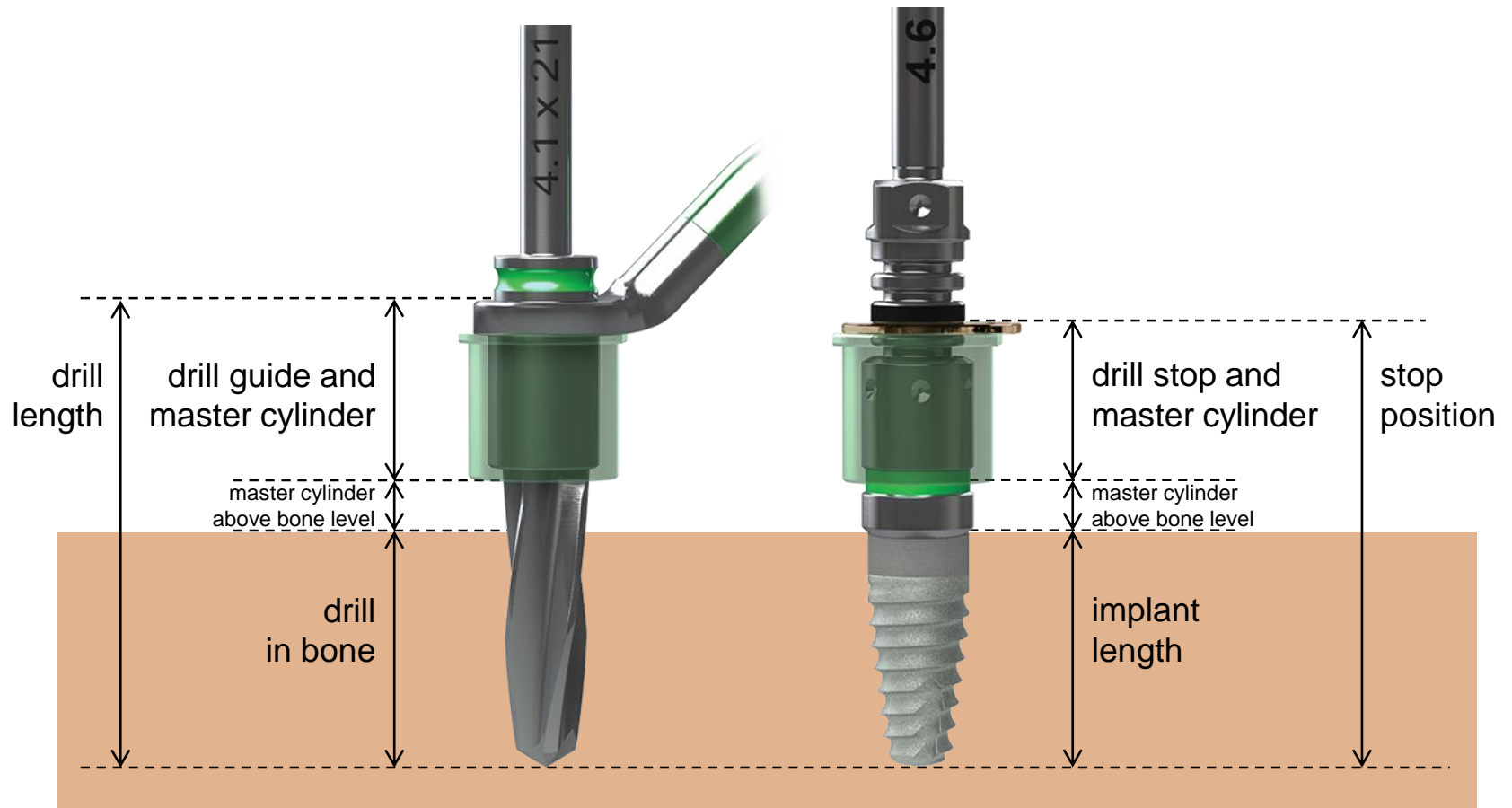
a case-specific surgical protocol comes with each surgical guide (guide manufacturers' protocols will vary slightly)

Notes:

- verify protocol lists proper implant type and size
- protocol is color-coded to indicate master cylinder being used
- implant driver section specifies which driver is used

Implant Label	29
Item Number	TLX4610
Implant Length	10.5
Guide Site	Complete
Implant Site Preparation	
Drill Length	21
Drill Guide/Drill	2.0
Drill Guide/Drill	2.5
Drill Guide/Drill	3.2
Drill Guide/Drill	3.7
Drill Guide/Drill	4.1
Drill Guide/Drill	
Drill Guide/Drill	
Guided Implant Placement	
Depth Position	SP2
Implant Driver	 4.6

case example – drilling and placement component comparison

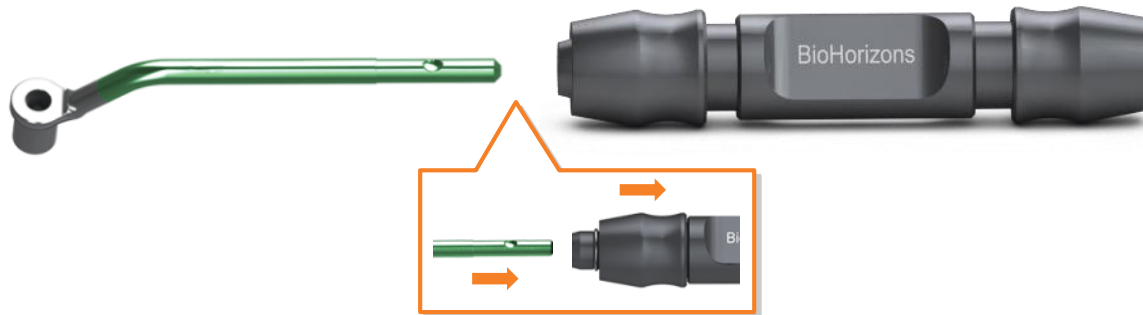


quick connect handles (2 per kit)

assemble pre-operatively with the specified drill guides



insert the drill guide into the quick connect handle while depressing the end portion



other kit components



tissue punches



.050" (1.25mm) hex driver



fixation pins
(3 included with kit)



ratchet

color-coding for Tapered Internal

When placing Tapered Internal, the following features and components will be the same color:

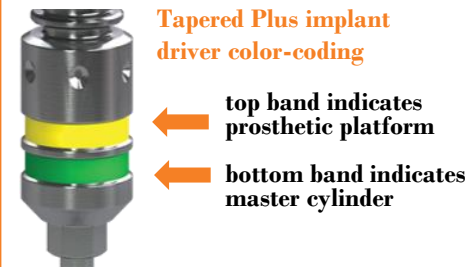
- prosthetic platform
- body diameter
- master cylinder
- drill guide
- implant driver










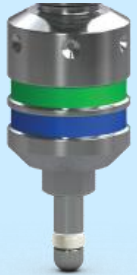
Tapered Internal dental implants

prosthetic connection	 3.5mm	 4.5mm	 5.7mm
body diameter	 3.8mm	 4.6mm	 5.8mm
master cylinder			
drill guide			
implant driver			

color-coding for Tapered 3.0 / 3.4 & Plus

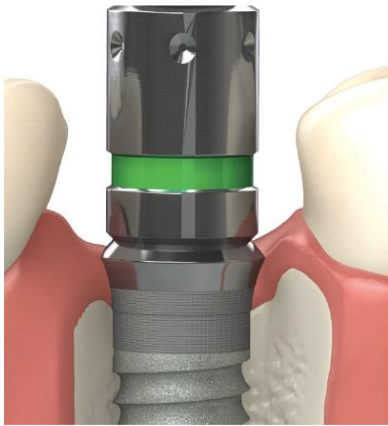
Note: The Tapered 3.0 & 3.4 procedures are performed through the yellow master cylinder. These implants are placed using the yellow Tapered Plus driver (3.8 / 3.0)









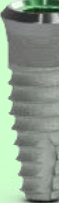













	Tapered 3.0 & 3.4		Tapered Plus dental implants		
prosthetic connection	 3.0mm	 3.0mm	 3.0mm	 3.5mm	 4.5mm
body diameter	 3.0mm	 3.4mm	 3.8mm	 4.6mm	 5.8mm
master cylinder					
drill guide					
implant driver					

color-coding for Tapered Tissue Level

Tapered Tissue Level dental implants



Note: Remove the guide to ensure the soft tissue collar is placed at the correct height

prosthetic connection	 3.5mm	 3.5mm	 4.5mm	 5.7mm
body diameter	 3.0mm	 3.8mm	 4.6mm	 5.8mm
master cylinder				
drill guide				
implant driver				

drilling technique

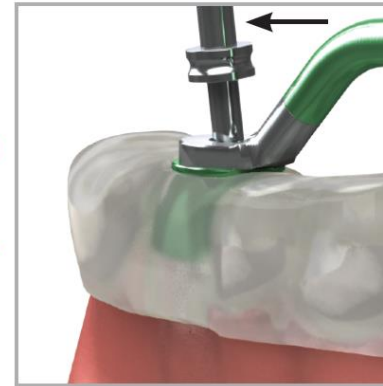
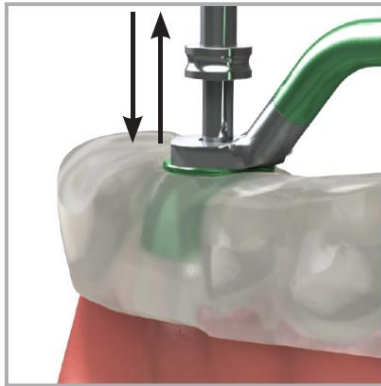
- drills should be advanced through the drill guide as far as possible before drilling
- drill should not be spinning whilst removing from the drill guide
- use short light strokes when drilling



drilling technique



Avoid applying lateral pressure to the drill guides or pilot sleeves by ensuring the drill path is in line with the drill guide





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