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Guided Surgery Overview



1

Clinician performs the clinical exam and takes patient records and diagnostics. Overall restorative treatment plan for the desired restorative outcome is developed in conjunction with the implant team. If required, patient is referred to the surgical specialist for further evaluation.



Dental laboratory or clinician fabricates a scan prosthesis generally a radiopaque duplicate of the provisional teeth setup or patient's existing denture — for visibility of the desired tooth location in CT images and selected case planning software.



Patient undergoes CT scan (wearing the scan prosthesis), according to the software supplier's general scanning instructions — including patient preparation, positioning, image reconstruction, and scanning parameters.

Stay in step with Zimmer Guided Surgery

Guided Surgery Overview



The CT scan data is converted into a format that allows it to be utilized by the selected case planning software, or is imported directly. The case is then planned in the treatment planning software.

Shown: SimPlant[®] Software by Materialise Dental NV.



The software supplier or dental laboratory fabricates the case-specific surgical guide compatible with *Zimmer* Guided Surgery Instrumentation. The guide manufacturer delivers the surgical guide, along with the surgical protocol for each *Tapered Screw-Vent*[®], *Zimmer* One-Piece or *AdVent*[®] Implant site preparation.

		Bone	Mucosa	Tooth	-1000
	Maxilla				
	Mandible			X	07
telerence Guide IOTE: Verify dr The 2.3mmD Dri color-coding cor rotocol provider steatomy depth	chrique details please refers h. ill length with the Drill Leng ils are 1mm shorter than all th responds with the implant cold i is for hard bore. For soft bo created by the 2.117 kmmD f 4mm for a muccas-supported	th Gauge on the other drills expected on the other drills expected on the other drills and the final Pilot Drill can reprint Drill Drill Can reprint Drill Drill Can reprint Drill Drill Drill Can reprint Drill Drill Can reprint Drill Drill Drill Can reprint Drill Drill Drill Drill Can reprint Drill Drill Drill Drill Can reprint Drill D	he Tube Adapte cospt for the 2.1/ he Zimmer [®] Instr il Step Drill (per t	r Kit (image to 1.6mmD Pilot Dr rument Kit Syste the Reference G	the right). m. The kuide). The
er creation of	the osteotomy, remove the su	rgical guide an	d follow the stan	dard implant pla	cement guidelines.
nd lengths in th	ded Surgery protocol listed be e submitted case plan. Chang inge to the surgical protocol a	es to the surgi	cal plan may requ		
	Surgical Proto	ocol for 2	immer G	uided Su	rgery
1	Tooth Number		23	25	27
1	Implant Information		(3	25	27

1	Tooth Number	23	25	27
	Implant Information		and the second second	and the second second
2	Implant part number	TSVB16	TSVB11	
3	Implant diameter (mm)	3.7	3.7	4.7
4	Implant length (mm)	16	11.5	13
5	Depth Control	Yes	Yes	Yes
1	Surgical Sequence			
6	Tube Adapter	2.3 A	2.3 A	2.3 B

6 Surgical protocol for *Zimmer* Guided Surgery Instrumentation provides detailed information regarding proper Drill sequence and Tube Adapter selection for the surgical preparation of each implant site.

Disclaimer: For detailed surgical guide instructions for use please contact your software and/or surgical guide manufacturer.

Example below: Surgical protocol example for a tooth-supported guide: three *Zimmer* Dental Implants in mandible (tooth #23, #25, #27).

1	Tooth Number	23	25	27
	Implant Information			
2	Implant part number	TSVB16	TSVB11	TSVWB13
3	Implant diameter (mm)	3.7	3.7	4.7
4	Implant length (mm)	16	11.5	13
5	Depth control	Yes	Yes	Yes
	Surgical Sequence			
6	Tube Adapter	2.3 A	2.3 A	2.3 B
7	Drill	2.3 (22mm)	2.3 (19mm)	2.3 (19mm)
8	Tube Adapter	2.8 A	2.8 A	3.4 B
9	Drill	2.8 (22mm)	2.8 (19mm)	3.4/2.8 (19mm)
10	Tube Adapter	3.4 A	3.4 A	3.8 B
11	Drill	3.4/2.8 (22mm)	3.4/2.8 (19mm)	3.8 (19mm)
12	Tube Adapter	•	•	4.4 B
13	Drill	•	•	4.4/3.8 (19mm)

SURGICAL PROTOCOL FOR ZIMMER GUIDED SURGERY INSTRUMENTATION

Note: The instrument selection protocol and appearance may differ depending on the case planning software. A surgical protocol and drill location overview is included on the last page. For detailed information about location of the instruments in the surgical kits, please reference the *Zimmer* Guided Surgery Reference Guide, P/N 1392, Rev. 1/10.

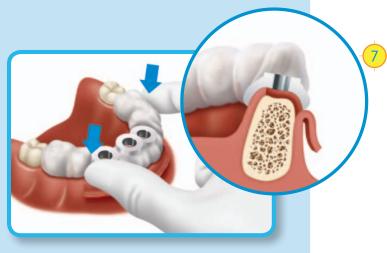
Zimmer Drill Module can be easily inserted into an existing Tapered Screw-Vent Surgical Kit

> *Tapered Screw-Vent* Surgical Kit

Zimmer Drill Module with *Dríva™* EG Drills * Zimmer Guided Surgery Instrumentation includes the Tapered Screw-Vent Surgical Kit, Zimmer Tube Adapter Kit and Zimmer Drill Module with additional length Driva EG Drills (designed to interface with selected surgical guides). All products sold separately.



Guided Surgery Overview/Implant Site Preparation



The tooth-, mucosa-, or bone-supported surgical guide is fixed to the surgical site. The guide manufacturer's fixation pins might be utilized for a mucosa-supported guide.

Shown: A tooth-supported surgical guide with elevated flap.



Implant Site Preparation

Referencing the case-specific surgical protocol provided with the surgical guide, follow the sequence of Tube Adapters and Surgical Drills to prepare the implant osteotomy.

The Tube Adapter fits inside the titanium tube insert in the surgical guide. Tube Adapters — used in conjunction with the Drills and length-specific surgical guides provide positional, angulation and depth control, and are labeled for easy identification. Tube Adapters can be used on the patient's left- or right-hand side as the holes on both sides are identical in diameter.

Steps 9-14 detail the surgical sequence for the example case shown in the surgical protocol to the left: an osteotomy for a 3.7mmD x 16mmL *Tapered Screw-Vent* in tooth location #23, in dense bone (a dense bone protocol should be followed).

Note: The protocol provided is for dense bone. For soft bone, skip the final Step Drill.

Implant Site Preparation

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Following the surgical guide protocol, select the initial Tube Adapter 2.3 A (2.3mmD; size A) from the Tube Adapter Kit. Place the Tube Adapter into the guide tube on the most convenient side.



Select the initial Drill from the protocol – 2.3 (22mm),
(2.3mmD; 22mmL). Verify Drill length of 22mm with the Drill Length Gauge on the Tube Adapter Kit

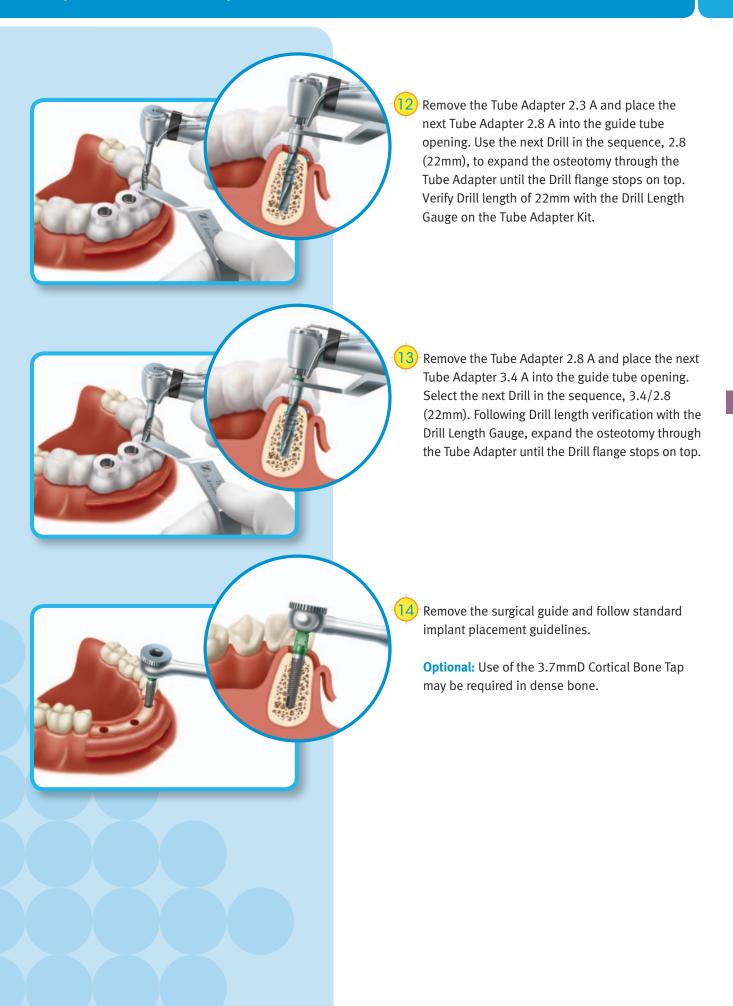
Shown: 3.4/2.8mmD; 22mmL Drill.

Note: 2.3mmD Pilot Drills are 1mm shorter than other Drills.



Drill to initiate an osteotomy through the Tube Adapter until the Drill flange stops on top of the Tube Adapter. The predetermined drilling depth is achieved by the combination of custom guide height and appropriate Drill selection, indicated in the guide manufacturer's protocol.

Implant Site Preparation



-(STEPS)

- 1 Denotes tooth number 23
- 2 Denotes implant part number TSVB16
- 3 Denotes 3.7mm implant diameter
- 4 Denotes 16mm implant length
- (5) Denotes if depth control will be achieved
- 6 2.3 A Denotes 2.3mm diameter Tube Adapter, size A
- 7 2.3 (22mm) Denotes 2.3mm diameter drill, 22mm length
- 8 2.8 A Denotes 2.8mm diameter Tube Adapter, size A
- 9 2.8 (22mm) Denotes 2.8mm diameter drill, 22mm length
- (10) 3.4 A Denotes 3.4mm diameter Tube Adapter, size A
- (1) 3.4/2.8 (22mm) Denotes 3.4/2.8mm diameter drill, 22mm length

SURGICAL PROTOCOL FOR ZIMMER GUIDED SURGERY

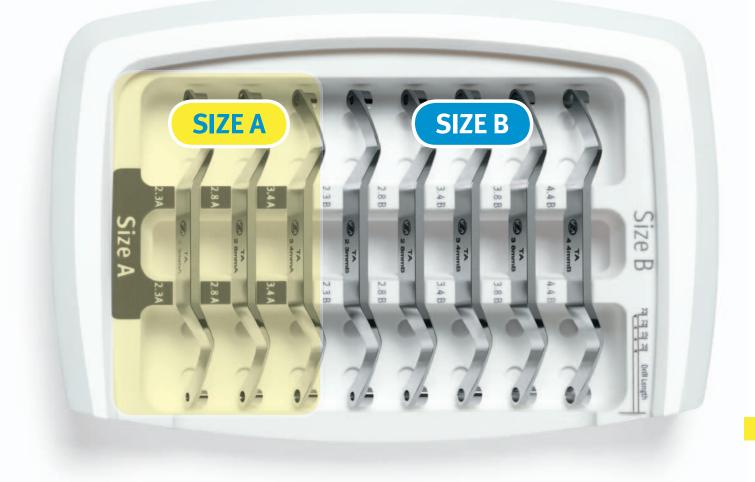
STEPS			
1	Tooth Number	23	27
	Implant Information		
2	Implant part number	TSVB16	TSVWB13
3	Implant diameter (mm)	3.7	4.7
4	Implant length (mm)	16	13
5	Depth control	Yes	Yes
	Surgical Sequence		
6	Tube Adapter	2.3 A	2.3 B
7	Drill	2.3 (22mm)	2.3 (19mm)
8	Tube Adapter	2.8 A	3.4 B
9	Drill	2.8 (22mm)	3.4/2.8 (19mm)
10	Tube Adapter	3.4 A	3.8 B
11	Drill	3.4/2.8 (22mm)	3.8 (19mm)
12	Tube Adapter	•	4.4 B
13	Drill	•	4.4/3.8 (19mm)

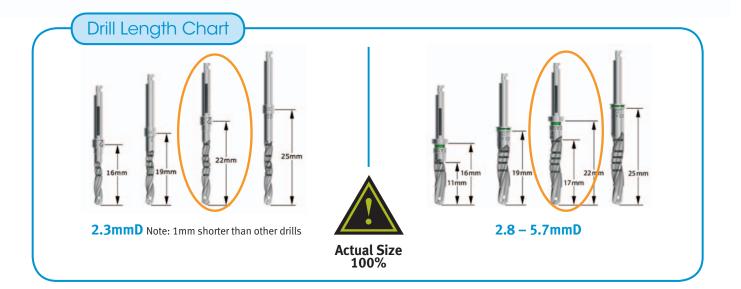
Tapered Screw-Vent Surgical Kit with Zimmer Drill Module

CTEI



Zimmer Tube Adapter Kit





Ordering Information





Zimmer Drill Module

Part Number	Description
GSMOD	Zimmer Drill Module (includes Drills) – Can be inserted into the Tapered Screw-Vent Surgical Kit (TSVKIT) for an all-in-one traditional/guided surgery kit
GSTRAY	Zimmer Drill Module (plate only)
STR23D19	2.3mmD Dríva EG Surgical Drill, 19mmL
STR23D25	2.3mmD Dríva EG Surgical Drill, 25mmL
STP28D19	2.8/2.4mmD Dríva EG Surgical Step Drill, 19mmL
STP28D25	2.8/2.4mmD Dríva EG Surgical Step Drill, 25mmL
STR28D19	2.8mmD Dríva EG Surgical Drill, 19mmL
STR28D25	2.8mmD Dríva EG Surgical Drill, 25mmL
STP34D19	3.4/2.8mmD Dríva EG Surgical Step Drill, 19mmL
STP34D25	3.4/2.8mmD Dríva EG Surgical Step Drill, 25mmL
STR34D19	3.4mmD Dríva EG Surgical Drill, 19mmL
STR34D25	3.4mmD Dríva EG Surgical Drill, 25mmL
STP38D19	3.8/3.4mmD Dríva EG Surgical Step Drill, 19mmL
STP38D25	3.8/3.4mmD Dríva EG Surgical Step Drill, 25mmL
STR38D19	3.8mmD Dríva EG Surgical Drill, 19mmL
STR38D25	3.8mmD Dríva EG Surgical Drill, 25mmL
STP44D19	4.4/3.8mmD Dríva EG Surgical Step Drill, 19mmL
STP44D25	4.4/3.8mmD Dríva EG Surgical Step Drill, 25mmL

Zimmer Tube Adapter Kit



Part Number	Description	
TADKIT	Zimmer Tube Adapter Kit (includes Tube Adapters)	
TADTRAY	Zimmer Tube Adapter Kit (tray only)	
TAD23A	2.3mmD Tube Adapter, A	
TAD28A	2.8mmD Tube Adapter, A	
TAD34A	3.4mmD Tube Adapter, A	
TAD23B	2.3mmD Tube Adapter, B	
TAD28B	2.8mmD Tube Adapter, B	
TAD34B	3.4mmD Tube Adapter, B	
TAD38B	3.8mmD Tube Adapter, B	
TAD44B	4.4mmD Tube Adapter, B	

Ordering Information





To schedule your FREE SimPlant[®] Software Demo, please visit us at **www.zimmerdental.com/simplantdemo** or call us at **1 800 854 7019** (in the U.S.) or **+1 (760) 929 4300** (outside the U.S.).

For more information about our Products, Regenerative Materials and Educational Opportunities, contact us:

1900 Aston Avenue Carlsbad, CA 92008-7308 USA

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