

BASIC INFORMATION

Straumann TLX™ 4 mm Implants



1. INDICATIONS

The Straumann TLX™ SP 4 mm Implants are fully tapered tissue level implants, designed for situations involving a severely atrophic jawbone with adequate bone quality that allows primary stability after implant insertion, where a longer implant cannot be placed due to limited vertical bone height.

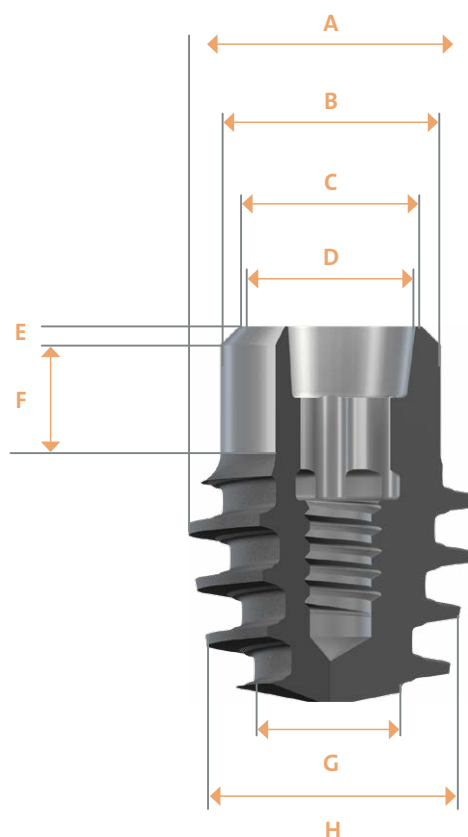
The Straumann TLX™ SP 4 mm Implants are made from the material Roxolid® with the SLActive® surface and are available in the maximum endosteal outer diameters Ø 4 mm, Ø 4.5 mm and Ø 5 mm, with length options of 4 mm. A unified color code simplifies identification of instruments and implants for the available maximum endosteal outer diameters. The Straumann TLX™ SP 4mm implants are available with a 1.8mm shoulder (Standard Plus - SP).

The Straumann TLX™ prosthetic components are identified with NT (Narrow TorcFit™/one dot), RT (Regular TorcFit™/two dots) corresponding to the implant shoulder diameters of Ø 3.5 mm, Ø 4.8 mm respectively.

	Straumann TLX™ SP 4 mm, Ø 4 mm	Straumann TLX™ SP 4 mm, Ø 4.5 mm	Straumann TLX™ SP 4 mm, Ø 4.5 mm	Straumann TLX™ SP 4 mm, Ø 5.0 mm
Shoulder height	Standard Plus - Implant shoulder 1.8 mm			
Color code	 (grey)	 (green)	 (green)	 (magenta)
Prosthetic base	NT (Narrow TorcFit™/one dot)		RT (Regular TorcFit™/two dots)	
Connection	TorcFit™			
Image				
Surface	SLActive®			
Raw Material	Roxolid®			
Available length	4 mm			

2. IMPLANT DESIGN AND SPECIFICATIONS

Standard Plus



	Straumann TLX™ SP 4 mm, Ø 4 mm	Straumann TLX™ SP 4 mm, Ø 4.5 mm	Straumann TLX™ SP 4 mm, Ø 4.5 mm	Straumann TLX™ SP 4 mm, Ø 5.0 mm
(A) Maximum outer diameter	Ø 4 mm	Ø 4.5 mm		Ø 5 mm
(B) Shoulder diameter	Ø 3.5 mm		Ø 4.8 mm	
(C) Platform diameter	Ø 2.9 mm		Ø 3.7 mm	
(D) Connection Diameter	Ø 2.7 mm			
(E) 45° bevel height	0.5 mm			
(F) Smooth neck height* Standard Plus	1.8 mm			
(G) Apical diameter, body	Ø 2 mm	Ø 2.2 mm	Ø 2.4 mm	Ø 3 mm
(H) Apical diameter, threads	Ø 4 mm	Ø 4.2 mm	Ø 4 mm	Ø 4.7 mm
Number of apical cutting edges	2			4
Implant Length	4			
Thread Pitch **	0.9 mm			

* This refers to height of the shoulder with a smooth non-SLActive® surface

** Implant advances by this distance with every full rotation (360°)

3. WORKFLOW FOR TLX SP 4 MM IMPLANTS

Implant bed preparation, illustrated with a TLX SP 4 mm Implant $\varnothing$ 4 mm (NT), $\varnothing$ 4.5 mm (NT), $\varnothing$ 5 mm (RT).

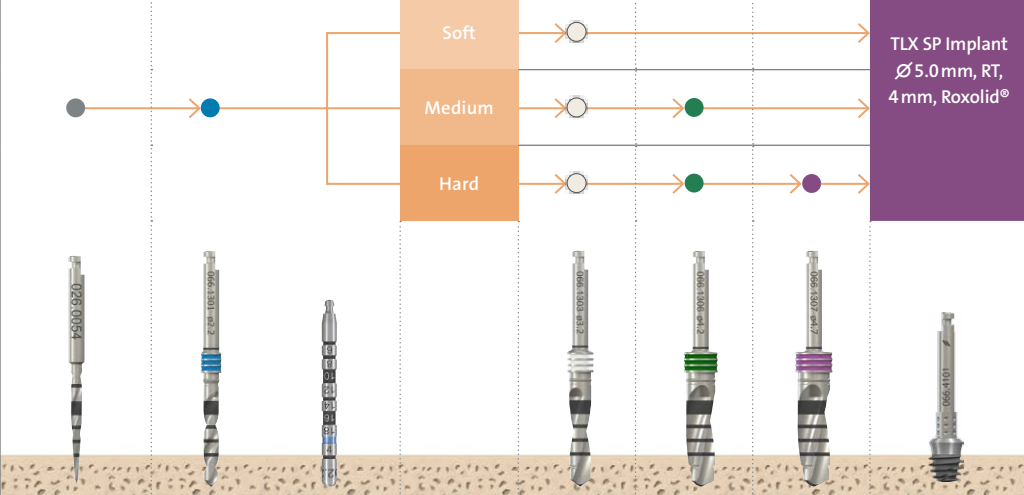
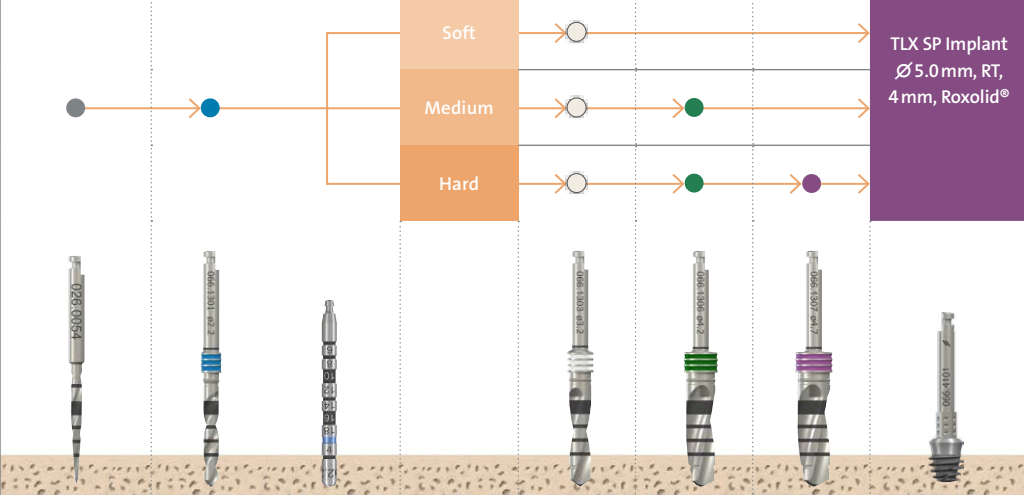
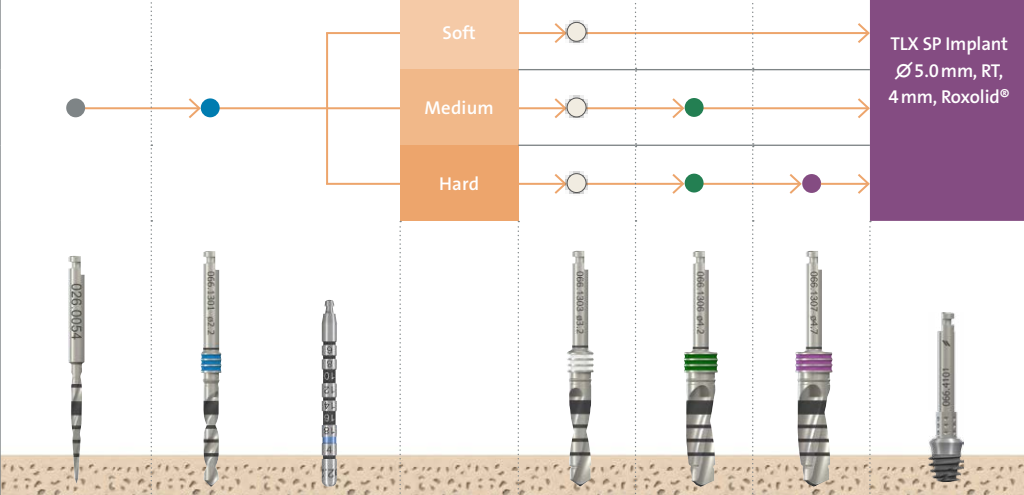
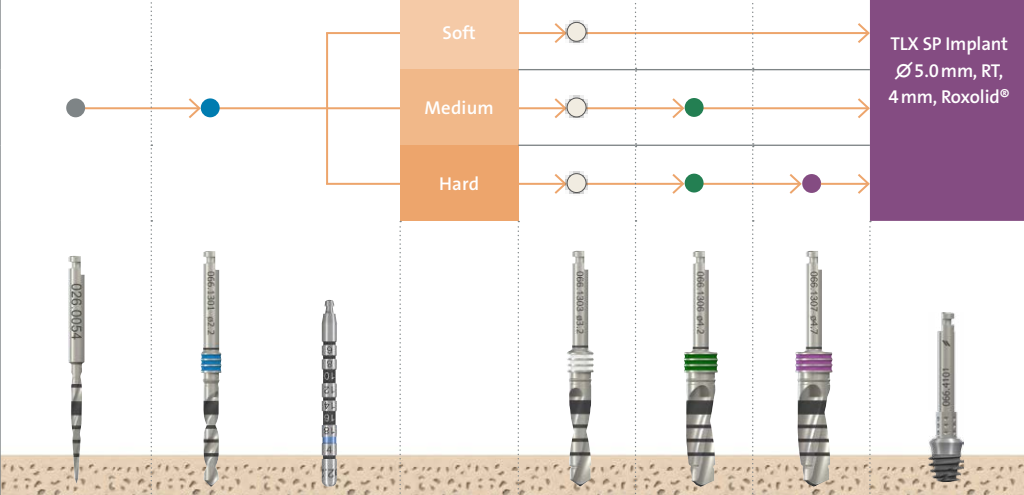
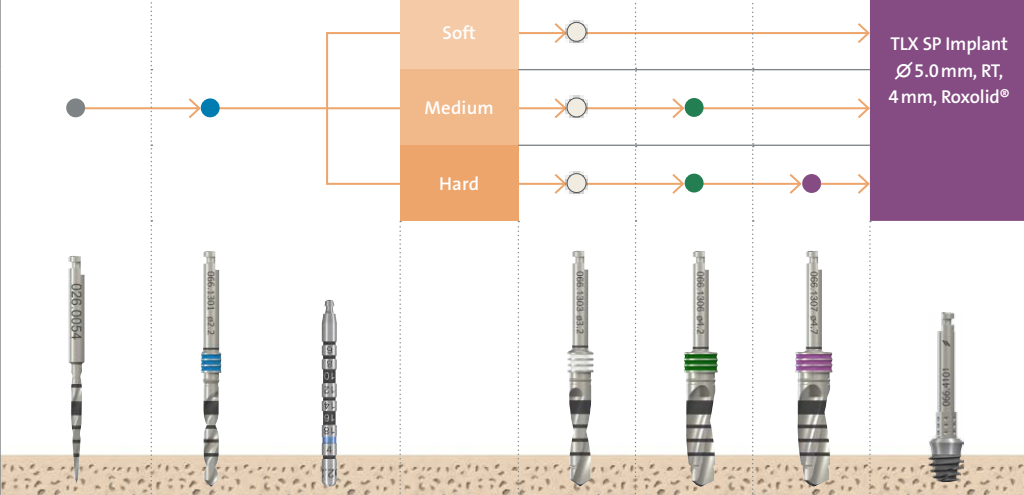
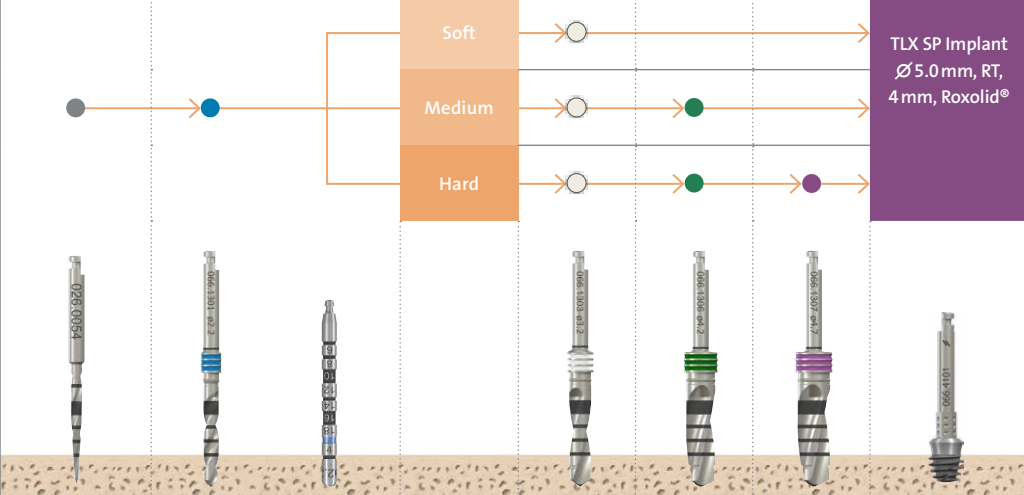
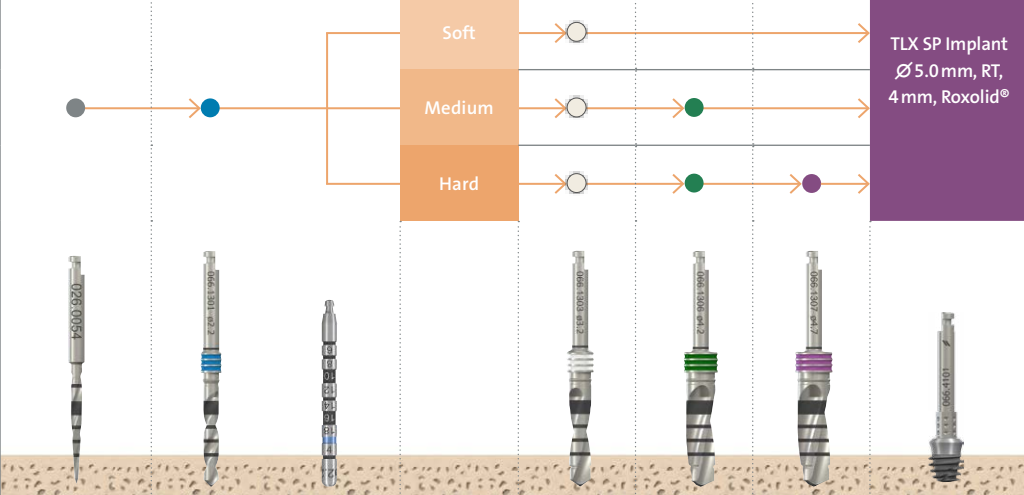
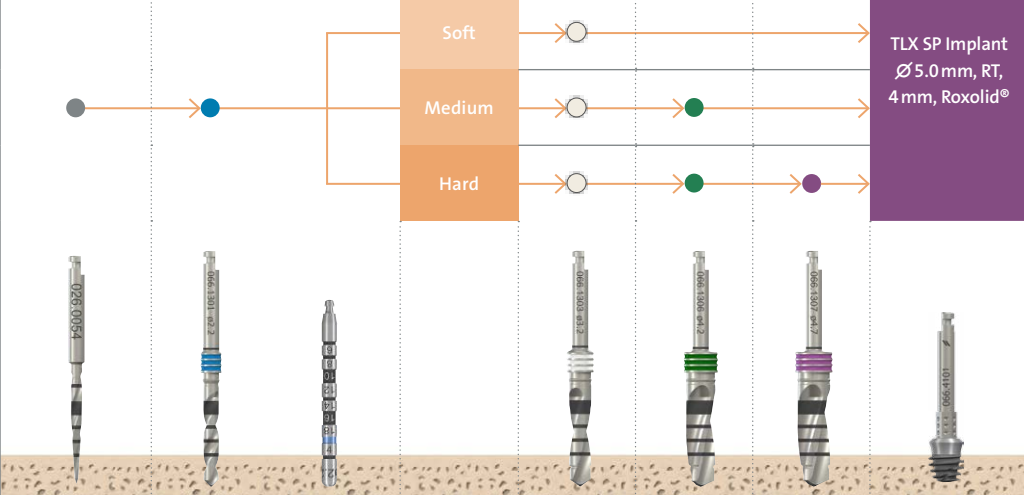
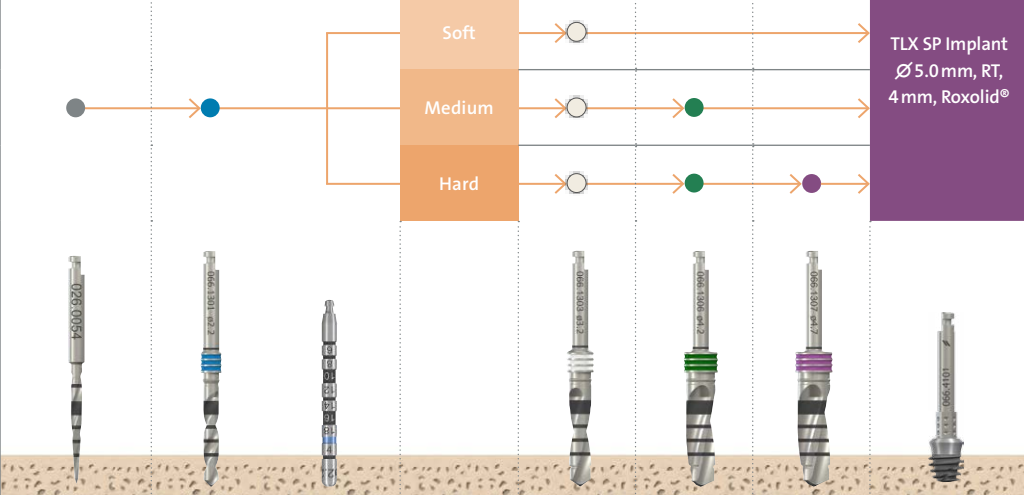
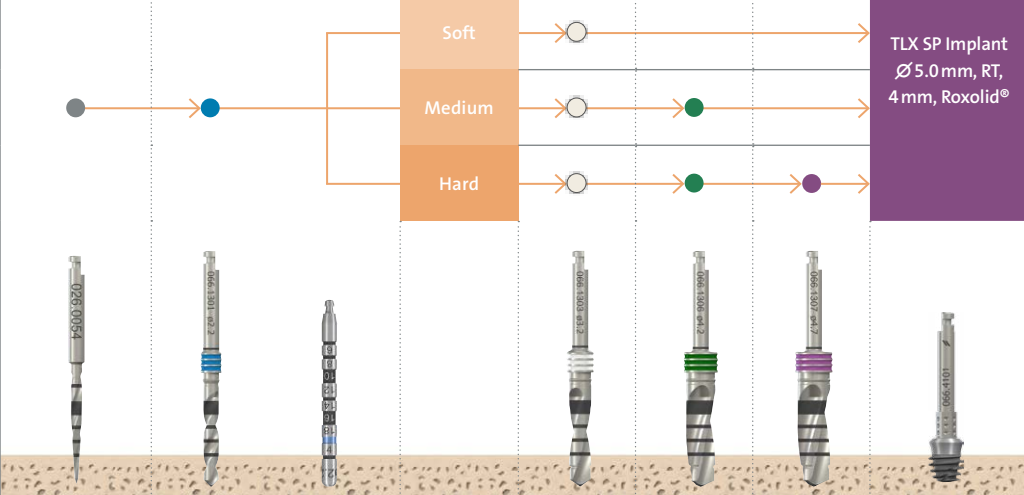
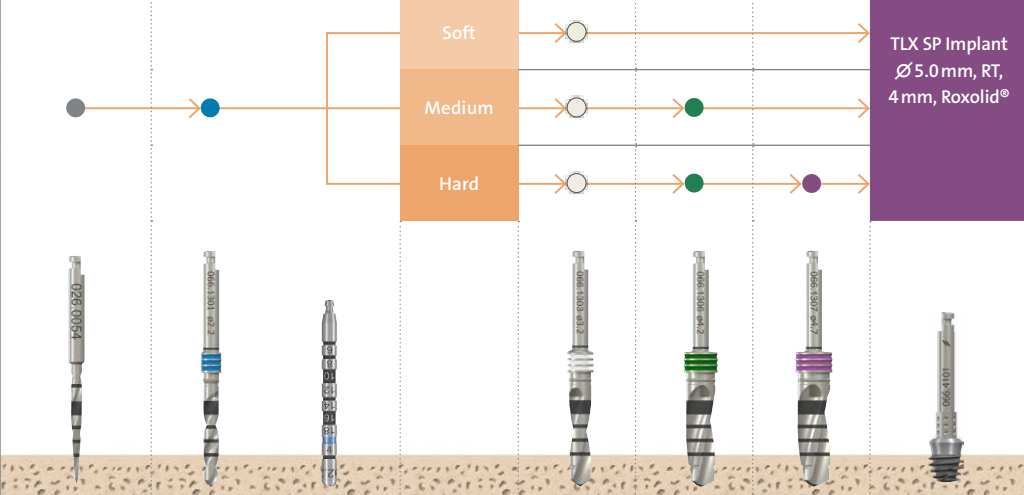
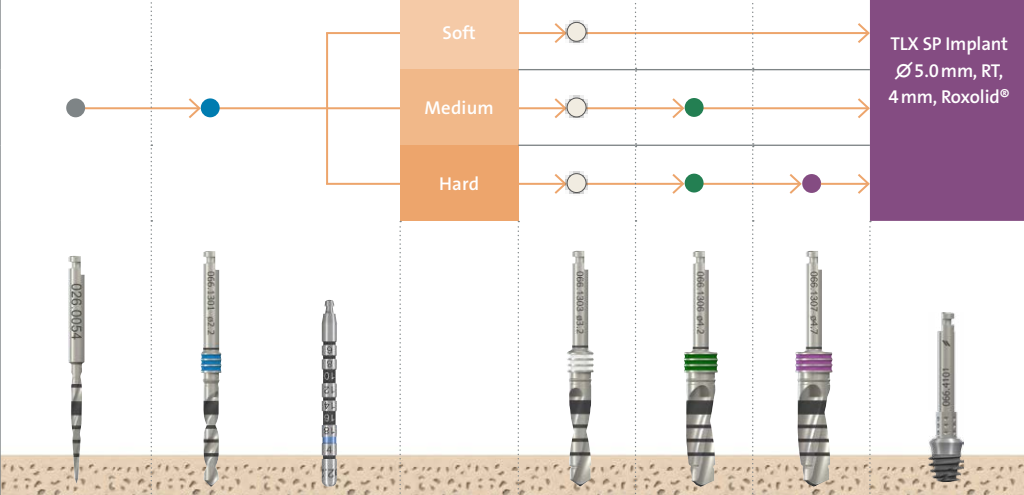
3.1 IMPLANT BED PREPARATION: TLX SP 4 MM IMPLANTS $\varnothing$ 4 MM (NT)

Mark the implantation site	Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density				Implant placement
Needle Drill $\varnothing$ 1.6 mm	Drill No. 1 (pilot) $\varnothing$ 2.2 mm	Alignment Pin $\varnothing$ 2.2 mm		Drill No. 2 $\varnothing$ 2.8 mm	Drill No. 3 $\varnothing$ 3.2 mm	Drill No. 4 $\varnothing$ 3.5 mm	Drill No. 5 $\varnothing$ 3.7 mm	
			Soft					TLX SP Implant $\varnothing$ 4.0 mm, NT, 4 mm, Roxolid® 
			Medium					
			Hard					
800 rpm	800 rpm			800 rpm	800 rpm	800 rpm	800 rpm	15 rpm
026.0054	066.1301			066.1302	066.1303	066.1304	066.1305	

3.2 IMPLANT BED PREPARATION: TLX SP 4 MM IMPLANTS $\varnothing$ 4.5 MM (NT/RT)

Mark the implantation site	Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density				Implant placement
Needle Drill $\varnothing$ 1.6 mm	Drill No. 1 (pilot) $\varnothing$ 2.2 mm	Alignment Pin $\varnothing$ 2.2 mm		Drill No. 2 $\varnothing$ 2.8 mm	Drill No. 3 $\varnothing$ 3.2 mm	Drill No. 5 $\varnothing$ 3.7 mm	Drill No. 6 $\varnothing$ 4.2 mm	
			Soft					TLX SP Implant $\varnothing$ 4.5 mm, NT/RT, 4 mm, Roxolid® 
			Medium					
			Hard					
800 rpm	800 rpm			800 rpm	800 rpm	800 rpm	800 rpm	15 rpm
026.0054	066.1301			066.1302	066.1303	066.1305	066.1306	

3.3 IMPLANT BED PREPARATION: TLX SP 4 MM IMPLANTS Ø 5 MM (RT)

Mark the implantation site	Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density			Implant placement
Needle Drill Ø 1.6 mm	Drill No. 1 (pilot) Ø 2.2 mm	Alignment Pin Ø 2.2 mm		Drill No. 3 Ø 3.2 mm	Drill No. 6 Ø 4.2 mm	Drill No. 7 Ø 4.7 mm	TLX SP Implant Ø 5.0 mm, RT, 4 mm, Roxolid®
			Soft				
			Medium				
			Hard				
							
800 rpm	800 rpm			800 rpm	800 rpm	800 rpm	15 rpm
026.0054	066.1301			066.1303	066.1306	066.1307	

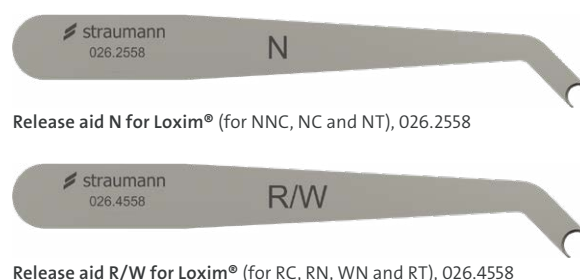
Warning: Due to the function and design of the drills, the drill tip is up to 0.5 mm longer than the insertion depth of the implant. For example, if you drill to the 4 mm marking, the actual implant bed has a depth of 4.5 mm.

Subcrestal implant placement: consider the final implant position for drill depth and never undersize in length with the Drill No. 1 (pilot).

Considerations for hard bone in healed sites: application of the hard bone drill protocol for a TLX implant diameter with wider threads (Ø 4.5 mm and Ø 5 mm) in healed sites results in a small gap between the implant shoulder and the surrounding crestal bone. In such situations it is recommended to consider minor bone grafting around the implant shoulder. This may be accomplished by scraping a small amount of bone with a surgical chisel from the area surrounding the osteotomy (already exposed) and applying it between the implant and the osteotomy.

3.4 RELEASE AID

For situations in which any removal force is to be avoided, the release aid for the Loxim® can be used. Place the release aid onto the implant shoulder and hold it in place while detaching the Implant driver.



4. PRODUCT REFERENCE LIST

Some items of the Straumann® Dental Implant System are not available in all countries.

Art. No.	Image	Article	Dimensions	Material
035.3204S		Straumann TLX™ SP Implant	Ø 4.0 mm NT SLActive® 4 mm	Roxolid®
035.3404S			Ø 4.5 mm NT SLActive® 4 mm	
035.3504S			Ø 4.5 mm RT SLActive® 4 mm	
035.3804S			Ø 5.0 mm RT SLActive® 4 mm	

5. FURTHER REFERENCE

- *Straumann iEXCEL™ Performance System - Surgical Procedures (707743/en)*
- *Straumann iEXCEL™ Performance System - Prosthetic Procedures (707744/en)*
- *Straumann iEXCEL™ Performance System - Guided Surgery System Instruments (707745/en)*
- *Straumann® Dental Implant System, Basic Information (702084/en)*

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