



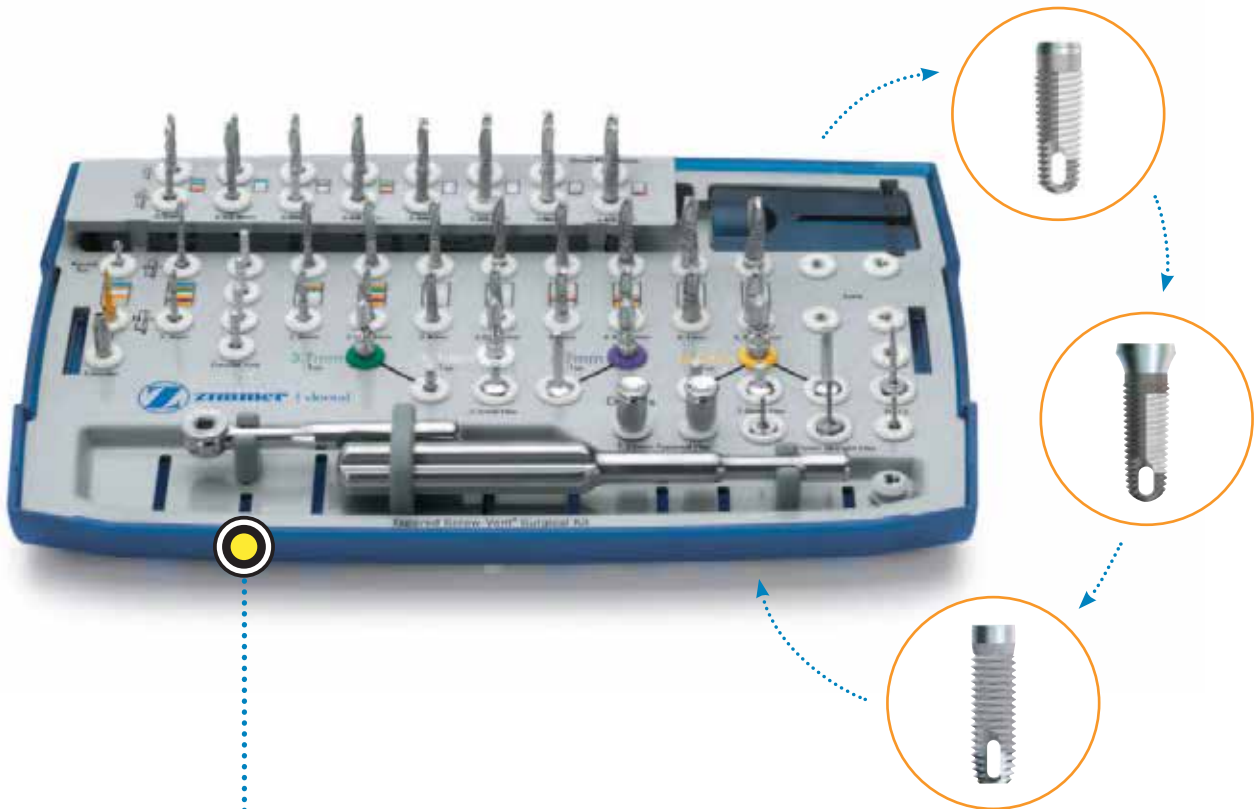
Tapered  
Screw-Vent<sup>®</sup>  
Implant  
System

Product Catalog



ZIMMER BIOMET  
Your progress. Our promise.™

## Three Implants, Three Solution One System, One Source Surgical Kit



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## ZIMMER BIOMET Implant System

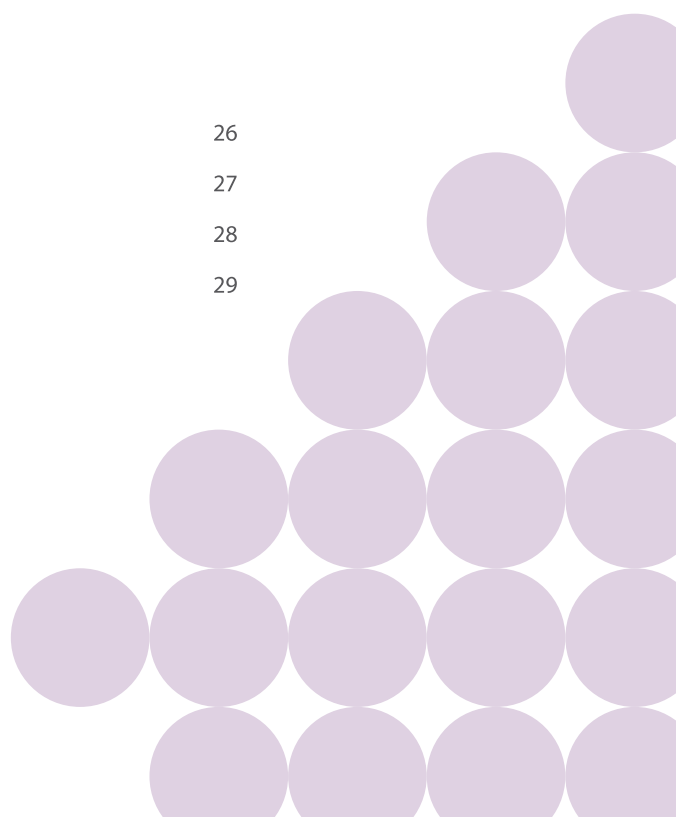
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## ZIMMER BIOMET Surgical Kit System

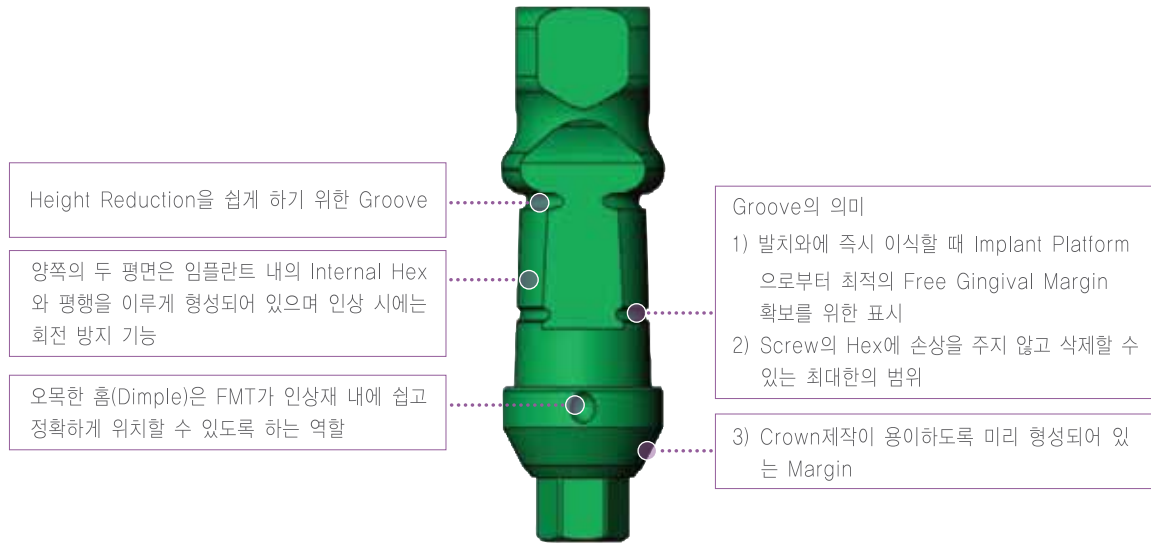
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## ZIMMER BIOMET Surgical Protocol

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## Fixture Mount Transfer (FMT) Design



## Fixture Mount의 특 · 장점

- Fixture를 환자의 구강 내로 옮기는 역할과 Impression Post 역할을 합니다.
- Titanium Alloy로 만들어졌으며 Tapered Screw-Vent, Screw-Vent Implant System에서 Cement나 Screw-Retained 수복 시 Temporary Abutment 또는 경우에 따라 Final Abutment로 사용 가능합니다. (단, ZIMMER BIOMET의 Screw Loosening을 방지하는 특허 기술인 Friction-Fit을 보장받으려면 반드시 Hex-Lock Abutment를 사용해야 합니다.)
- 상부에 둘러진 홈(Groove)은 Impression시 Vertical Retention의 유지와 Height Reduction을 쉽게 하기 위한 용도입니다.
- 하부의 홈은 Temporary 또는 Final Abutment로 사용 시 Prep이 용이하도록 하기 위함이며 prep시 Mount내 Screw의 Hex부위에 손상을 주지 않는 최대 삭제 가능한 지점을 표시하기 위한 용도입니다.
- 양쪽의 큰 평면은 Implant 내부 Hex의 납작한 면과 평행되게 제작되어 술자가 구강 내에서 임플란트 내부 Hex의 방향이 어느 쪽으로 향해있는지 알기 쉽게 해주며 이는 Angled Abutment로 보철할 시에 좀 더 다양한 각도를 제공해줍니다.
- 인상재 내에서 Anti-Rotation 기능을 합니다.
- 양쪽에 새겨져있는 오목한 홈(Dimple)은 Transfer로 사용할 때 인상재 내에 Transfer가 정확히 Fitting되도록 Guide 역할을 합니다.
- 이 FMT(Fixture Mount Transfer)로 특정 부위의 정확한 해부학적 요건에 따라 Soft Tissue 내에 이상적인 Emergence Profile을 형성할 수 있습니다.



Implant Delivery



Impression Post



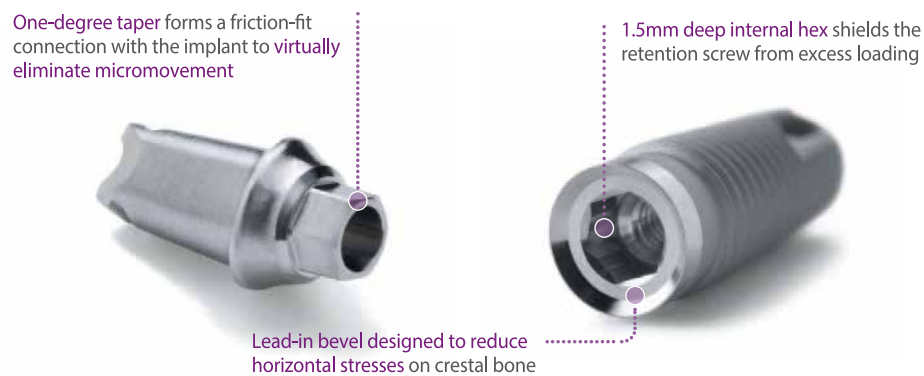
Temporary Abutment or Final Abutment (TSV)



## Proprietary Platform Plus Technology

암벽에 Piton을 박으면 단단하게 고정되어 등반가에게 탄탄하고 안전한 Base를 제공한다. Friction-Fit Abutment는 임플란트와 Cold Weld Connection을 형성(마찰에 의해 단단히 결합)하여 Micromovement나 Tapping 진동 등이 일어나지 않아 사실상 Screw Loosening은 사라졌다.

Friction-Fit 기술은 일반적인 External과 Internal Hex Connection보다 월등하며, 만약 Friction-Fit이 없다면 다른 Internal Connection도 미세운동을 완전히 방지하지는 못할 것이다. Friction-Fit과 Internal Hex, 두 가지 기술이 결합되었을 때 가장 최적의 임플란트 연결을 얻을 수 있을 것이다.



Tapered Screw-Vent를 위한 Abutment와 그 외 다른 Zimmer Biomet Internal Hex Implant는 Male Hex의 Abutment Body에서 Hex의 바닥까지 1°의 Taper가 형성되어있다. Torque가 가해져 Abutment가 Implant로 삽입되면서 Abutment Hex는 Implant의 Internal Hex에 마찰에 의해 꼭 끼게 되며, Friction-Fit 때문에 상부 구조의 회전은 거의 발생하지 않는다.



광학현미경사진

Screw-Vent Implant와 Abutment결합을 평가했다. 위 사진에서 알 수 있듯이 Implant의 Straight Hexagon과 Abutment의 1-Degree Tapered Hexagon의 긴밀한 접촉과 Friction Fit을 나타내고있다. Beveled Seating 부위에서 Full Contact을 이루면서 긴밀한 접합을 이루고 있는 것을 볼 수 있다.

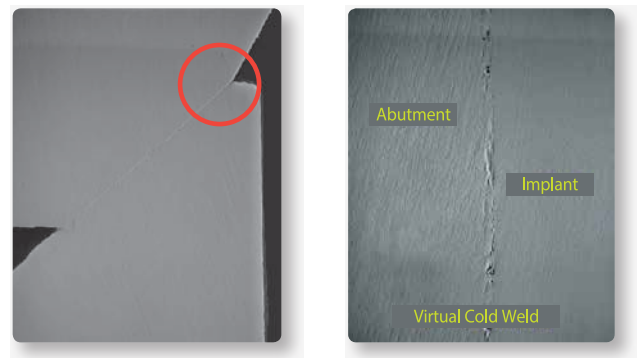
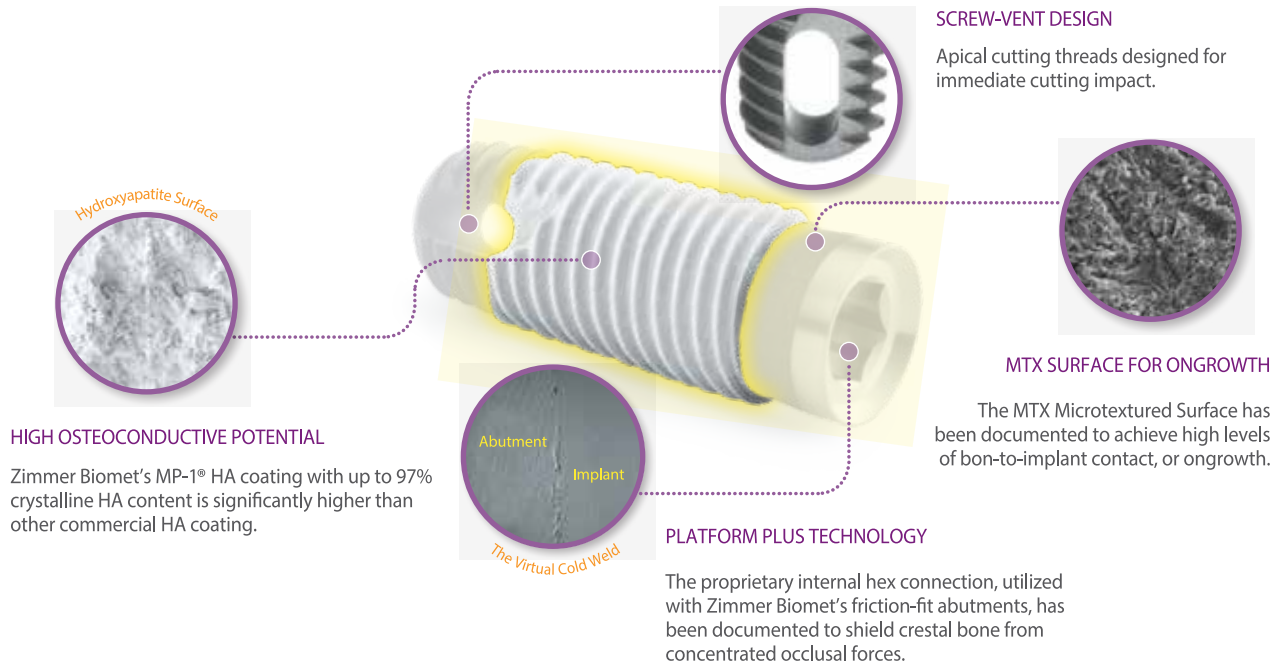


Figure B SEM at 150X

확대된 사진은 Hexagonal Engagement 부위와 Implant와 Abutment간의 기계적 Interlocking을 보여주고있다.

## Zimmer Biomet MP-1® HA Technology



### HA Coating이란?



HA Coating Implant라고 해서 모두 같은 것은 아닙니다.

Hydroxyapatite(HA)는 임플란트와 만나는 치조골과 동일한 물질로 주로 뼈의 내성장을 촉진하기 위해 사용됩니다. 따라서, HA로 표면처리한 임플란트를 사용하게되면 뼈와 임플란트의 결합이 더욱 빠르고 단단하게 이루어져 뼈가 약하거나 상악동 혹은 발치 후 바로 식립이 필요한 경우의 어려운 수술에 적합합니다.

단, HA는 가공 과정에서의 성분 유지가 매우 어려운 물질로 제조사의 가공 기술력에 따라 매우 큰 차이가 발생합니다. 이러한 이유로 원료 자체보다는 가공 후 순수 HA 성분의 높은 함유량, 균일한 두께의 표면처리, Base Metal(Titanium 6Al-4V ELI Alloy)과의 높은 접합 강도 등의 가공 기술력이 더욱 더 중요합니다.

### MP-1® 이란?

ZIMMER BIOMET의 MP-1®은 Pressurized Hydrothermal Post PlasmaSpray Process (Plasma Spray 처리 후 일정 기압을 유지한 상태에서 열수처리하는 방식)으로 순수 HA성분을 97%이상 유지할 수 있는 유일한 HA 처리기술입니다.

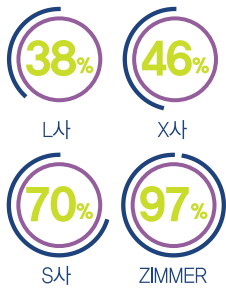


HA는 가공과정 동안 성분 유지가 매우 어려운 물질로 가공 후까지도 HA의 순도를 유지할 수 있는 가공 방법을 개발하는 것이 여러 제조사의 오랜 연구 대상이었습니다. ZIMMER BIOMET은 HA Coating Implant의 선구자로서, 30년 이상의 연구와 임상실험을 통해 가공 전의 순수 HA성분을 그대로 유지할 수 있는 MP-1® 제조 기술을 개발하였습니다. MP-1®은 순수 HA성분을 97%이상 유지함으로써 Base Metal(Titanium Alloy)과 HA의 접합강도를 증가시켜 더욱 빠르고 안정된 골유착을 가능하게 했습니다. 제조사별로 제조 방법과 기술력에 따라 접합강도 및 용해도에서 큰 차이를 갖기 때문에 같은 HA표면처리 임플란트라 하더라도 결과는 다르게 나타날 수 밖에 없습니다.

이제 HA-Coating Implant를 선택하실 때에는 반드시 MP-1® 마크를 확인하십시오.



### Crystalline 97%

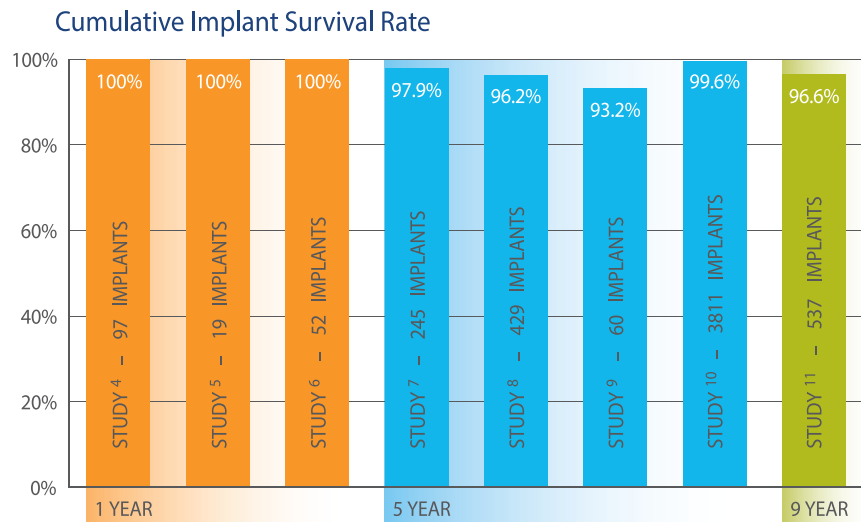


제조사별로 HA Coating의 방법과 기술이 다르며 이에 따라 임상적 결과 또한 다르게 나타날 수 밖에 없습니다. Crystalline HA의 함유량이 낮다는 것은 Coating과정 중 고열에 의해 순수한 HA의 성분에 변화가 일어난 것이며 Crystalline HA외에 무정형칼슘인산염의 비율이 높을 경우 HA의 탈락과 용해의 문제가 발생할 수 있습니다. 반면, Crystalline HA의 함유량이 높을 경우 구강 내에서의 HA의 탈락과 용해는 발생하지 않습니다. Crystalline 97%와 38%의 차이를 직접 느껴 보시기 바랍니다.

- ※ HA Coating Implant에서 가장 중요한 것은 Coating의 기술력입니다.
- ※ Coating의 수준과 방법에 따라 그 결과 또한 다르게 나타날 수 밖에 없습니다.

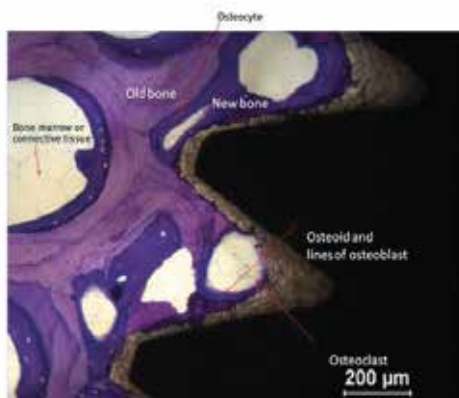
### Documented Clinical Success

Implants with MP-1 HA enjoy outstanding clinical outcomes that further demonstrate the quality and performance of the coating.



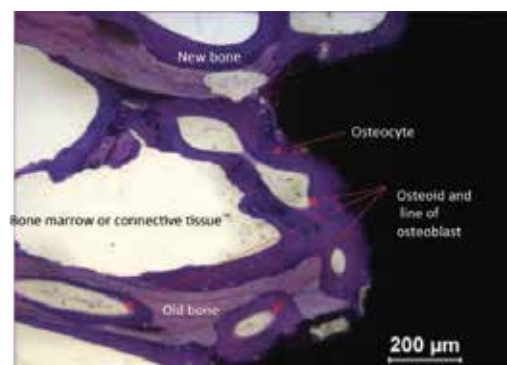
### Histological Evaluation

#### Bone Density and Remodeling



MP-1 HA at 6 weeks

Newly formed trabecular bone was thick and showed an increase in bone density compared to SLActive in this study.



SLACTIVE at 6 weeks

Observed bone density was variable at threaded implant surfaces and within cross sections compared to MP-1 HA in this study.

## Tapered Screw-Vent Dimensions

### Tapered Screw-Vent / Screw-Vent Diameter

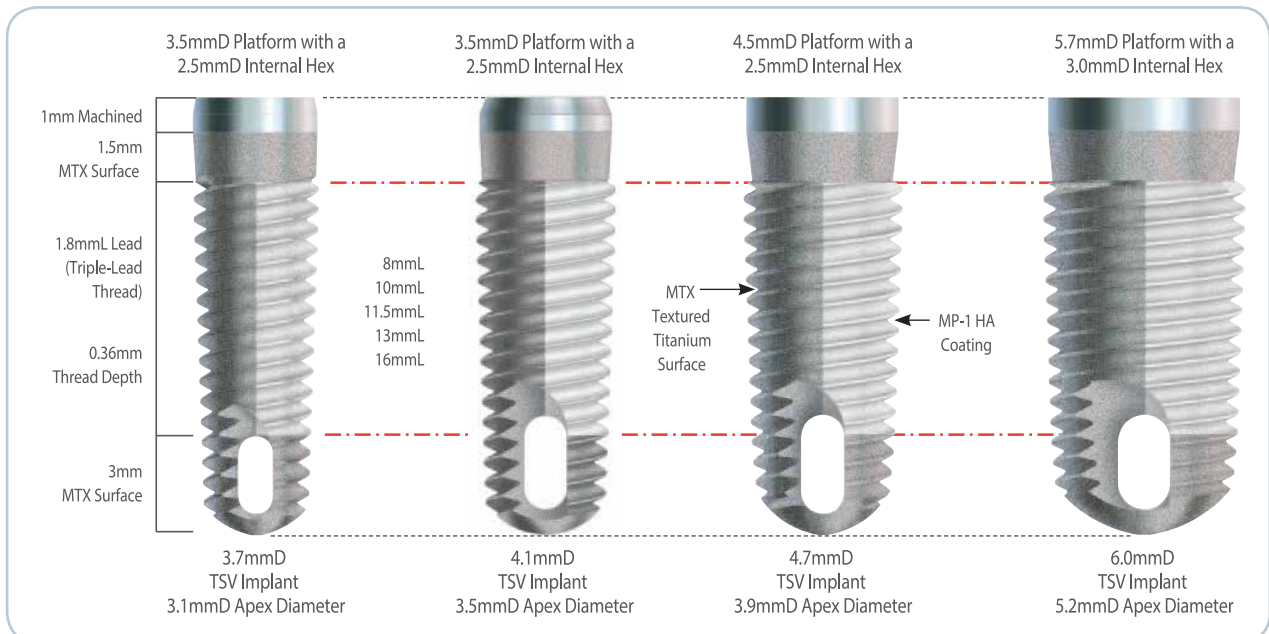
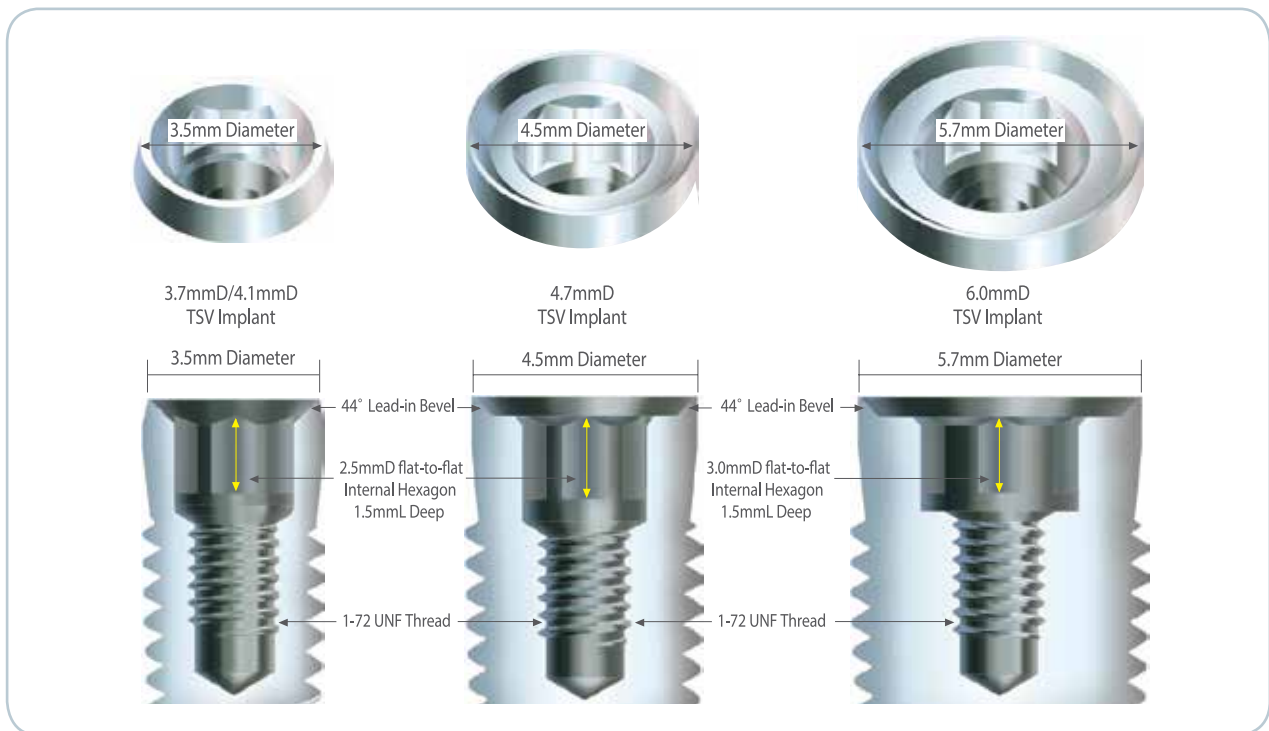
나사산의 가장 넓은 바깥 지름의 거리를 말한다. 다음 두 가지 종류의 각기 다른 2 Stage 임플란트가 있다.

- Screw-Vent 임플란트는 3.3mmD, 3.7mmD, 4.7mmD
- Tapered Screw-Vent 임플란트는 3.7mmD, 4.1mmD, 4.7mmD, 6.0mmD

### Tapered Screw-Vent Implant

Tapered Screw-Vent 임플란트의 첫 번째 나사산은 2.5mmL (1.0mmL Machined + 1.5mmL MTX) 지점부터 시작되며 이 부분부터 MP-1® HA 코팅이 시작되어 아래쪽으로 3.0mmL 지점까지 코팅되어 있다.

Taper의 각도는 임플란트 길이에 따라 최소 1.0° 와 최대 2.5° 내에서 변화를 주며 임플란트가 짧을수록 Taper각도는 커진다.





## Tapered Screw-Vent Implants with MP-1® HA Dual Transition Selective Surface

Includes Fixture Mount / Transfer and Cover Screw

Catalog Numbers								
Implant Diameter	Implant Platform	Connection	8mmL	10mmL	11.5mmL	13mmL	16mmL	
3.7mmD	3.5mmD	2.5mmD Internal Hexagon	TSVH8	TSVH10	TSVH11	TSVH13	TSVH16	
4.1mmD	3.5mmD	2.5mmD Internal Hexagon	TSV4H8	TSV4H10	TSV4H11	TSV4H13	TSV4H16	
4.7mmD	4.5mmD	2.5mmD Internal Hexagon	TSVWH8	TSVWH10	TSVWH11	TSVWH13	TSVWH16	
6.0mmD	5.7mmD	3.0mmD Internal Hexagon	TSV6H8	TSV6H10	TSV6H11	TSV6H13	TSV6H16	

## Tapered Screw-Vent Implants with Full MTX Surface

Includes Fixture Mount / Transfer and Cover Screw

Catalog Numbers								
Implant Diameter	Implant Platform	Connection	8mmL	10mmL	11.5mmL	13mmL	16mmL	
3.7mmD	3.5mmD	2.5mmD Internal Hexagon	TSVB8	TSVB10	TSVB11	TSVB13	TSVB16	
4.1mmD	3.5mmD	2.5mmD Internal Hexagon	TSV4B8	TSV4B10	TSV4B11	TSV4B13	TSV4B16	
4.7mmD	4.5mmD	2.5mmD Internal Hexagon	TSVWB8	TSVWB10	TSVWB11	TSVWB13	TSVWB16	
6.0mmD	5.7mmD	3.0mmD Internal Hexagon	TSV6B8	TSV6B10	TSV6B11	TSV6B13	TSV6B16	

## Surgical Cover Screws

Catalog Numbers		
Implant Platform		Catalog No.
3.5mmD		TSC
4.5mmD		TSCW
5.7mmD		TSC5

## Faster Insertion Improved Stability



Figure A  
한 줄씩 360°회전  
Pitch 간격 1.8mm 형상



Figure B  
처음의 독립적인  
Self-Tapping Thread



Figure C  
두 번째의 독립적인  
Self-Tapping Thread



Figure D  
세 번째의 독립적인  
Self-Tapping Thread

### Triple Lead Threads의 효율성과 Self Tapping의 간편성

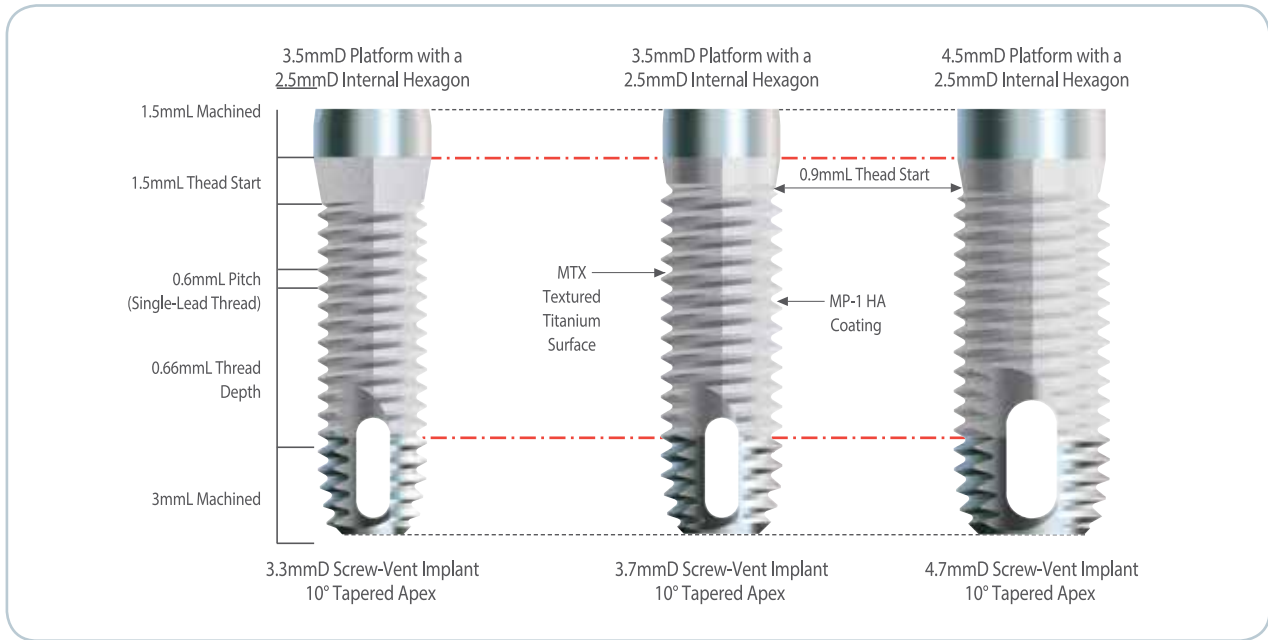
Tapered Screw-Vent 임플란트는 120°씩 떨어진 3개의 독립된 Threads로 Screw가 형성되어 있어 월등한 표면적 증가와 임플란트식립 시에 Insertion Time을 3배 이상 줄여주어 (1번 회전 시에 1.8mm 식립) 시술 시간을 단축할 뿐만 아니라 작은 힘으로 Initial Fixation을 얻을 수 있으며 골유착 현상에 해로운 열의 발생을 최소화 시켜줍니다.

또한 Self Tapping 디자인은 Drill 사용 횟수를 줄여주기 때문에 술자가 보다 빠르고 간편하게 시술할 수 있도록 도와줍니다.

## Screw-Vent Dimensions





### Screw-Vent Diameter

임플란트 나사산의 시작은 3.3mmD에서는 3.0mmL, 3.7mmD와 4.7mmD에서는 2.5mmL 지점부터이다. 임플란트의 외형은 Straight한 모양이며 Apical 3.0mmL 중 최종 3개의 나사산 또는 1.8mmL는 식립이 유용하도록 10° Tapered 디자인 되어있다.







### Screw-Vent Implants with HA Selective Surface

Includes Fixture Mount / Transfer and Cover Screw




	Catalog Numbers						
	Implant Diameter	Implant Platform	Connection	8mmL	10mmL	13mmL	16mmL
	3.3mmD	 3.5mmD	2.5mmD Internal Hexagon	SVMH8	SVMH10	SVMH13	SVMH16
	3.7mmD	 3.5mmD	2.5mmD Internal Hexagon	SVH8	SVH10	SVH13	SVH16
	4.7mmD	 4.5mmD	2.5mmD Internal Hexagon	SVWH8	SVWH10	SVWH13	SVWH16

### Screw-Vent Implants with MTX Selective Surface

Includes Fixture Mount / Transfer and Cover Screw

	Catalog Numbers						
	Implant Diameter	Implant Platform	Connection	8mmL	10mmL	13mmL	16mmL
	3.3mmD	 3.5mmD	2.5mmD Internal Hexagon	SVMB8	SVMB10	SVMB13	SVMB16
	3.7mmD	 3.5mmD	2.5mmD Internal Hexagon	SVB8	SVB10	SVB13	SVB16
	4.7mmD	 4.5mmD	2.5mmD Internal Hexagon	SVWB8	SVWB10	SVWB13	SVWB16

### Surgical Cover Screws

	Catalog Numbers	
	Implant Platform	Catalog No.
	 3.5mmD	TSC
	 4.5mmD	TSCW

## Healing Collars Selection Guidelines

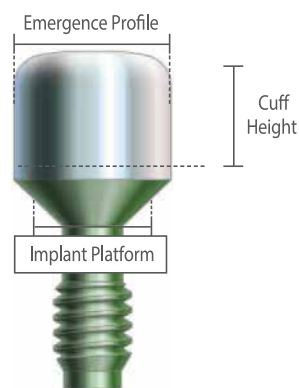
Selecting a Healing Collar :

- Determine the size of the implant platform
- Select the emergence profile that best suits the site being restored. The profile should match the transfer and abutment to be used
- Select the cuff height so that the top of the component protrudes slightly above the surrounding tissue. The options are 3mm, 5mm or 7mm

HC3 = 3.5mmD (Implant Platform) Healing Collar  
 HC4 = 4.5mmD (Implant Platform) Healing Collar  
 HC5 = 5.7mmD (Implant Platform) Healing Collar

Example :

HC343 = 3.5mmD (Implant Platform) Healing Collar  
 4.5mmD Emergence Profile, 3mm Cuff Height  
 (second digit equals profile, third digit equals height)



## Healing Collars


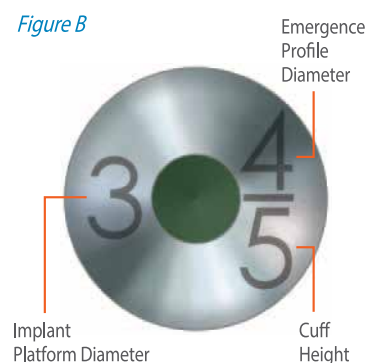
Catalog Numbers					
	Implant Platform	Emergence Profile	3mm	Cuff Height 5mm	7mm
	● 3.5mmD	3.5mmD (No Flare)	HC333	HC335	•
	● 3.5mmD	4.5mmD	HC343	HC345	HC347
	● 3.5mmD	5.5mmD	HC353	HC355	•
	● 4.5mmD	4.5mmD (No Flare)	HC443	HC445	•
	● 4.5mmD	5.5mmD	HC453	HC455	HC457
	● 4.5mmD	6.5mmD	HC463	HC465	•
	● 5.7mmD	6.5mmD	HC563	HC565	•

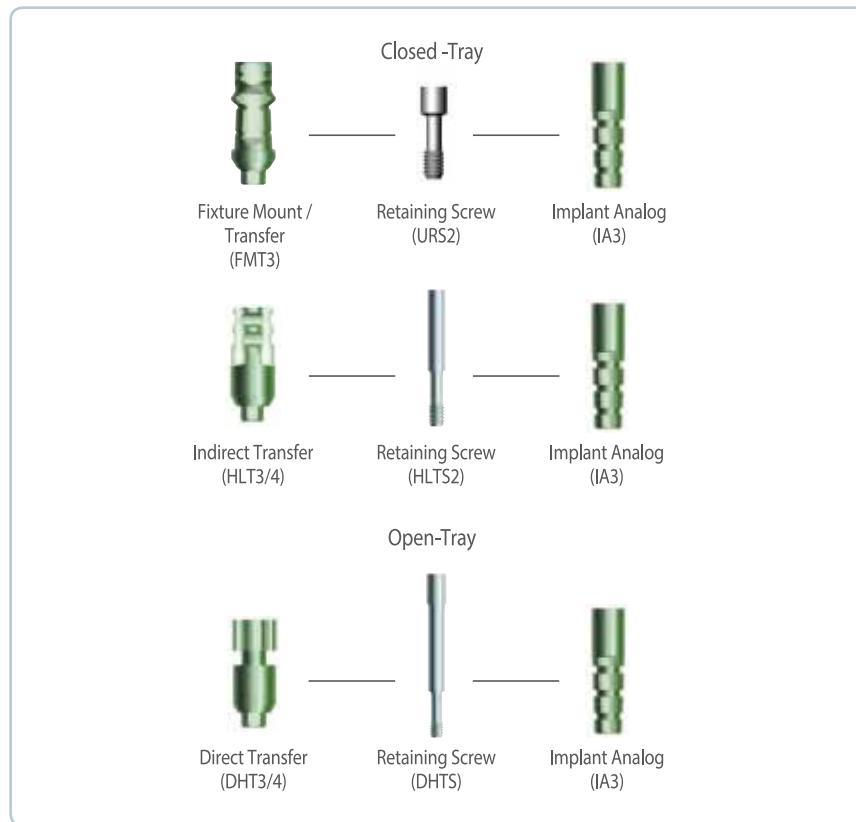
Figure A



Figure B







### Impression-Taking Flow Chart, Implant-Level Impression



Note : Part numbers shown in flow chart are an example for a 3.5mmD case with a 4.5mmD emergence profile. Refer to product listings for additional part numbers. The Fixture Mount/Transfer packaged with the implant may also be used for impression-taking.






### Fixture Mount / Transfers

Includes a Retaining Screw. (URS2) Can be used as a preparable temporary abutment.

Catalog Numbers			
	Implant Platform	Emergence Profile	Catalog No.
	 3.5mmD	4.5mmD	FMT3
	 4.5mmD	5.5mmD	FMT4
	 5.7mmD	6.5mmD	FMT5
	Replacement Retaining Screw	•	URS2


### Indirect Transfers (Closed-Tray Procedure)

Color-Coded by Implant Platform. Includes a Retaining Screw. (HLTS2)

Catalog Numbers					
	Implant Platform	Emergence Profile			
		3.5mmD	4.5mmD	5.5mmD	6.5mmD
	 3.5mmD	HLT3/3	HLT3/4	HLT3/5	•
	 4.5mmD	•	HLT4/4	HLT4/5	HLT4/6
	 5.7mmD	•	•	•	HLT5/6
	Replacement Retaining Screw	HLTS2	HLTS2	HLTS2	HLTS2

### Direct Transfers (Open-Tray Procedure)


Color-Coded by Implant Platform. Includes a Retaining Screw. (DHTS)



Catalog Numbers				
Implant Platform	3.5mmD	Emergence Profile		
		4.5mmD	5.5mmD	6.5mmD
3.5mmD	DHT3/3	DHT3/4	DHT3/5	•
4.5mmD	•	DHT4/4	DHT4/5	DHT4/6
Replacement Retaining Screw	DHTS	DHTS	DHTS	DHTS

### Implant Analogs, Titanium

Color-Coded by Implant Platform.




Catalog Numbers	
Implant Platform	Catalog No.
3.5mmD	IA3
4.5mmD	IA4
5.7mmD	IA5

## Components for Provisional Restorations

### Zimmer Plastic Temporary Abutments, Straight and Angled, 17°

Includes Retaining Screw (PTSC) and Processing Screw (DHTS2).



Catalog Numbers			
Implant Platform	Emergence Profile	Cuff Height	
		1mm	4mm
3.5mmD	4.5mmD	PT341S	PT344S
4.5mmD	5.5mmD	PT451S	PT454S
5.7mmD	6.5mmD	PT561S	PT564S
3.5mmD	4.5mmD	PT341A	PT344A
4.5mmD	5.5mmD	PT451A	PT454A
Replacement Retaining Screw, Long		DHTS2	DHTS2
Replacement Retaining Screw, Short		PTSC	PTSC



## Hex-Lock Abutment Selection and Preparation Guidelines

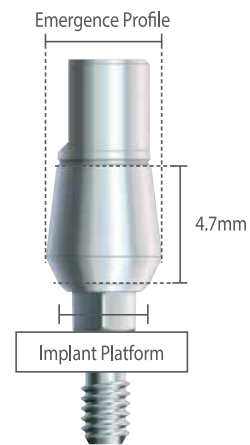
Selecting a Hex-Lock Abutment :

- Determine the size of implant platform.
- Select the emergence profile that best suits the site being restored. The profile should match the Healing Collar and Transfer used.

HLA3 = 3.5mmD (Implant Platform) Hex-Lock Abutment  
 HLA4 = 4.5mmD (Implant Platform) Hex-Lock Abutment  
 HLA5 = 5.7mmD (Implant Platform) Hex-Lock Abutment  
 /3 = 3.5mmD Wide Emergence Profile  
 /4 = 4.5mmD Wide Emergence Profile  
 /5 = 5.5mmD Wide Emergence Profile  
 /6 = 6.5mmD Wide Emergence Profile





Preparation guidelines :

The abutments have one score line placed 4.7mm above the top of the implant. When using the MHLAS Screw (included with the abutment), the maximum preparation on the abutment is 1mm below this line. If using the taller HLTS2 Screw (sold separately), do not prepare below the score line in order to preserve adequate hex engagement with the screw.




### Hex-Lock Abutments

Includes a Retaining Screw. (MHLAS)

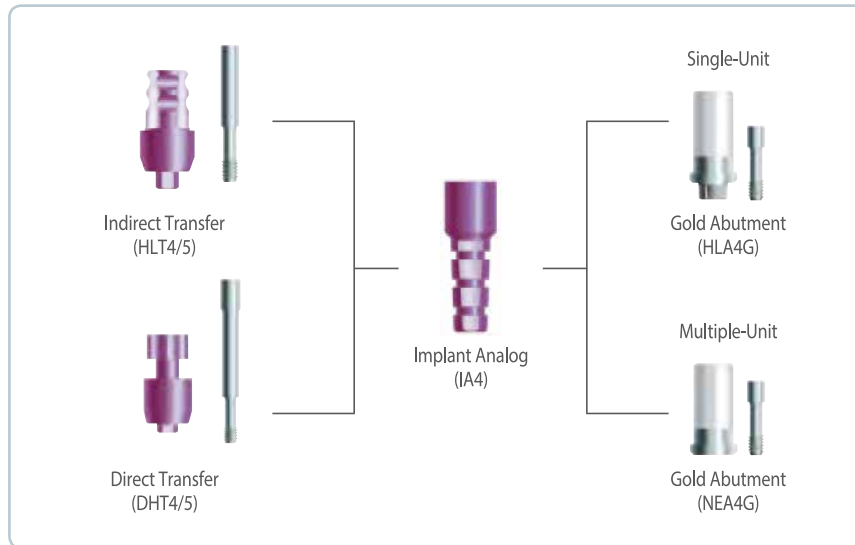
		Catalog Numbers			
	Implant Platform	3.5mmD	Emergence Profile		
			4.5mmD	5.5mmD	6.5mmD
	 3.5mmD	HLA3/3	HLA3/4	HLA3/5	•
	 4.5mmD	•	HLA4/4	HLA4/5	HLA4/6
	 5.7mmD	•	•	•	HLA5/6
	Replacement Retaining Screw	MHLAS	MHLAS	MHLAS	MHLAS

### Angled Abutments, 20°, for 6 Positions

Two-Piece Abutment for 6 Positions. Includes a Retaining Screw. (AH20S)

	Catalog Numbers		
	Implant Platform	Emergence Profile	Catalog No.
	3.5mmD for 6 Positions	4.5mmD	AH20/4
	4.5mmD for 6 Positions	5.5mmD	AH20W/5
	5.7mmD for 6 Positions	6.5mmD	A5H20/6
	Replacement Retaining Screw	•	AH20S

## Custom Restoration Flow Chart






Note : Part numbers shown in flow chart are an example for a 4.5mmD case with a 5.5mmD emergence profile. Refer to product listings for additional part numbers.

## “Cast-To” Gold Abutments, Engaging

Includes a Retaining Screw. (MHLAS)





Catalog Numbers		
Implant Platform		Catalog No.
 3.5mmD		HLA3G
 4.5mmD		HLA4G
 5.7mmD		HLA5G
Replacement Retaining Screw		MHLAS

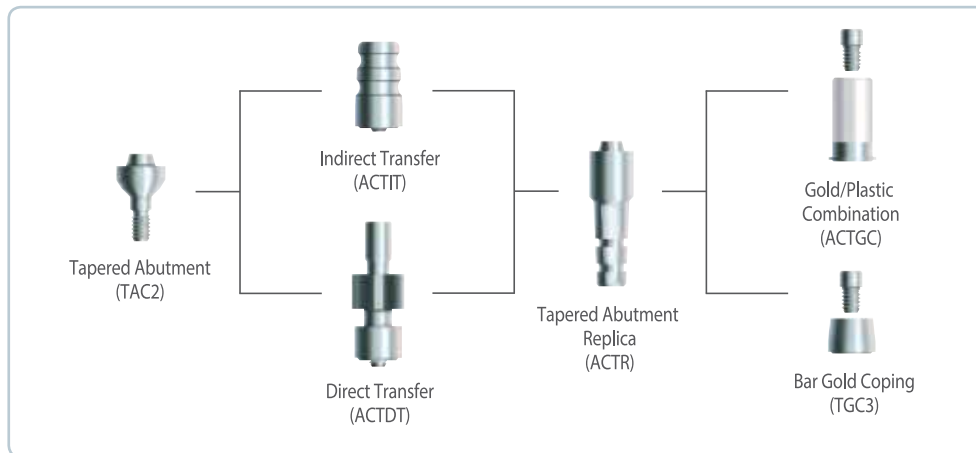
## “Cast-To” Gold Abutments, Non-Engaging

Includes a Retaining Screw. (MHLAS)



Catalog Numbers		
Implant Platform		Catalog No.
 3.5mmD		NEA3G
 4.5mmD		NEA4G
Replacement Retaining Screw		MHLAS

### Screw-Retained Restoration Flow Chart



Note : Part numbers shown in flow chart are an example for a 3.5mmD case with a 2mm collar height. Refer to product listings for additional part numbers. When completing the restoration, Plastic Copings (ACTP) and Titanium Copings (ACTT and TTC5) are also available.


### Tapered Abutments

Tapered Abutments are for multiple-unit, screw-retained restorations. Abutments do not engage internal hex connection. Not for use in single-unit. Includes a Healing Cap (TATHC).

Catalog Numbers						
	Implant Platform	0.75mm	2mm	Cuff Height		
				3mm	4mm	5mm
	 3.5mmD	TAC1	TAC2	TAC3	TAC4	TAC5
	 4.5mmD	TACW1	TACW2	TACW3	TACW4	TACW5
	5.7mmD	TA5C1	TA5C2	TA5C3	TA5C4	•



### Tapered Abutment Healing Cap

Healing Cap threads onto the Tapered Abutment and Angled Tapered Abutment.

Catalog Numbers		
	Description	Catalog No.
	Tapered Abutment Titanium Healing Cap	TATHC









### Tapered Abutment Transfer Components

Transfers thread onto the Tapered Abutment and Angled Tapered Abutments for impression-taking. This method transfers the abutment position.

Catalog Numbers		
	Description	Catalog No.
	Tapered Abutment Direct Transfer (Open-Tray) Includes Transfer Screw (SCDTS)	ACTDT
	Tapered Abutment Indirect Transfer (Closed-Tray)	ACTIT
	Tapered Abutment Replica	ACTR

### Tapered Abutment Copings, Sheaths and Bar System

The copings listed below fit over the Tapered Abutment and Angled Tapered Abutment and are secured with a Coping Screw.

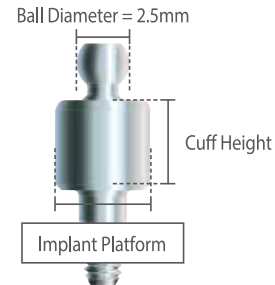
Catalog Numbers			
	Description	Height / Length	Catalog No.
	Tapered Abutment Gold Coping Includes Screw (SCTS)	•	ACTGC
	Titanium Temporary Coping Includes Screw (SCTS)	9.5mm	ACTT
	Plastic Castable Coping Includes Screw (SCTS)	5mm	ACTP
	Bar Gold Coping – Includes Screw (SCTS)	3mm	TGC3
	Bar Gold Coping, Long – Includes Screw (SCTS)	5mm	TGC5
	Titanium Bar Coping Includes Screw (SCTS)	5mm	TTC5
	Replacement Screw for Copings	•	SCTS
	Tapered Abutment Waxing Screw	12mm	SCWS
	Reamer for Tapered Abutment Copings	•	PR

## Ball Abutment Selection Guidelines

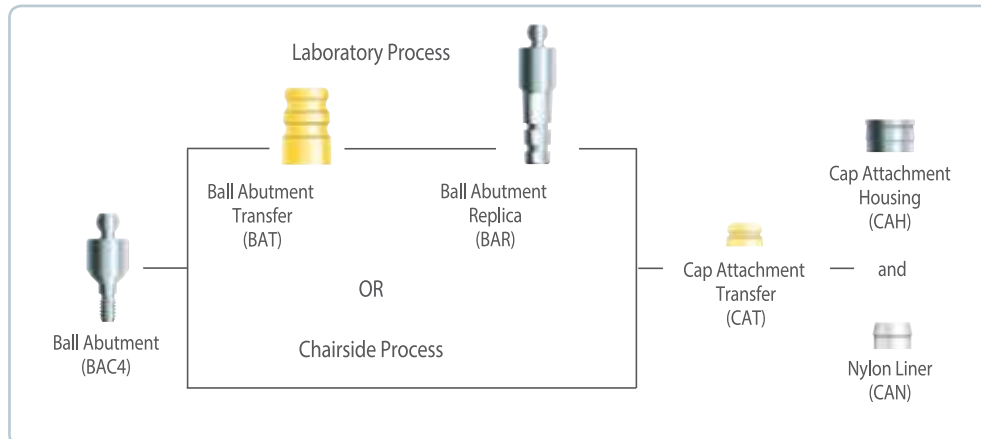
Selecting a Ball Abutment:

- Determine the size of implant platform.
- Measure the tissue depth at its highest point from the implant platform.
- Select the cuff height of the component 1mm longer than the tissue depth so the abutment collar protrudes slightly above the surrounding tissue. The options are 2mm, 4mm and 6mm. (6mm not available for 5.7mmD platform.)

BAC = 3.5mmD Ball Abutment  
 BACW = 4.5mmD Ball Abutment  
 BA5C = 5.7mmD Ball Abutment  
 2 = 2mm Cuff Height  
 4 = 4mm Cuff Height  
 6 = 6mm Cuff Height



## Overdenture Restoration Flow Chart





Note : Part numbers shown in flow chart are an example for a 3.5mmD case with a 4mm cuff height. Refer to product listings for additional part numbers.

## Ball Abutments

Abutments do not engage internal hex connection.  
 Includes Cap Attachment Housing and Nylon Liner.

Catalog Numbers				
Implant Platform	2mm		Cuff Height	
			4mm	6mm
	3.5mmD	BAC2	BAC4	BAC6
	4.5mmD	BACW2	BACW4	BACW6
5.7mmD	BA5C2	BA5C4	•	

### Ball Abutment Transfer Components













Catalog Numbers		
	Description	Catalog No.
	Ball Abutment Transfer (package of 2)	BAT
	Ball Abutment Replica	BAR

### Prosthetic Components

Catalog Numbers		
	Description	Catalog No.
	Cap Attachment System Includes 4 Nylon Liners, 2 Positioning Rings, 4 Housings and 4 Castable Ball Patterns	CAS
	Cap Attachment Instruments Includes Seating Tool, Reamer and Paralleling Tool	CAI
	Cap Attachment Housing (CAH)/ Cap Attachment Nylon Liner (CAN)	CA
	Cap Attachment Housing	CAH
	Cap Attachment Nylon Liner (Transparent)	CAN
	Cap Attachment Nylon Liner (Gray — Rigid Retention)	CAN-G
	Cap Attachment Transfer (Yellow)	CAT
	Castable Ball Pattern (2 balls per pattern)	CAB
	Micro Cap Attachment Nylon Liner	CANM

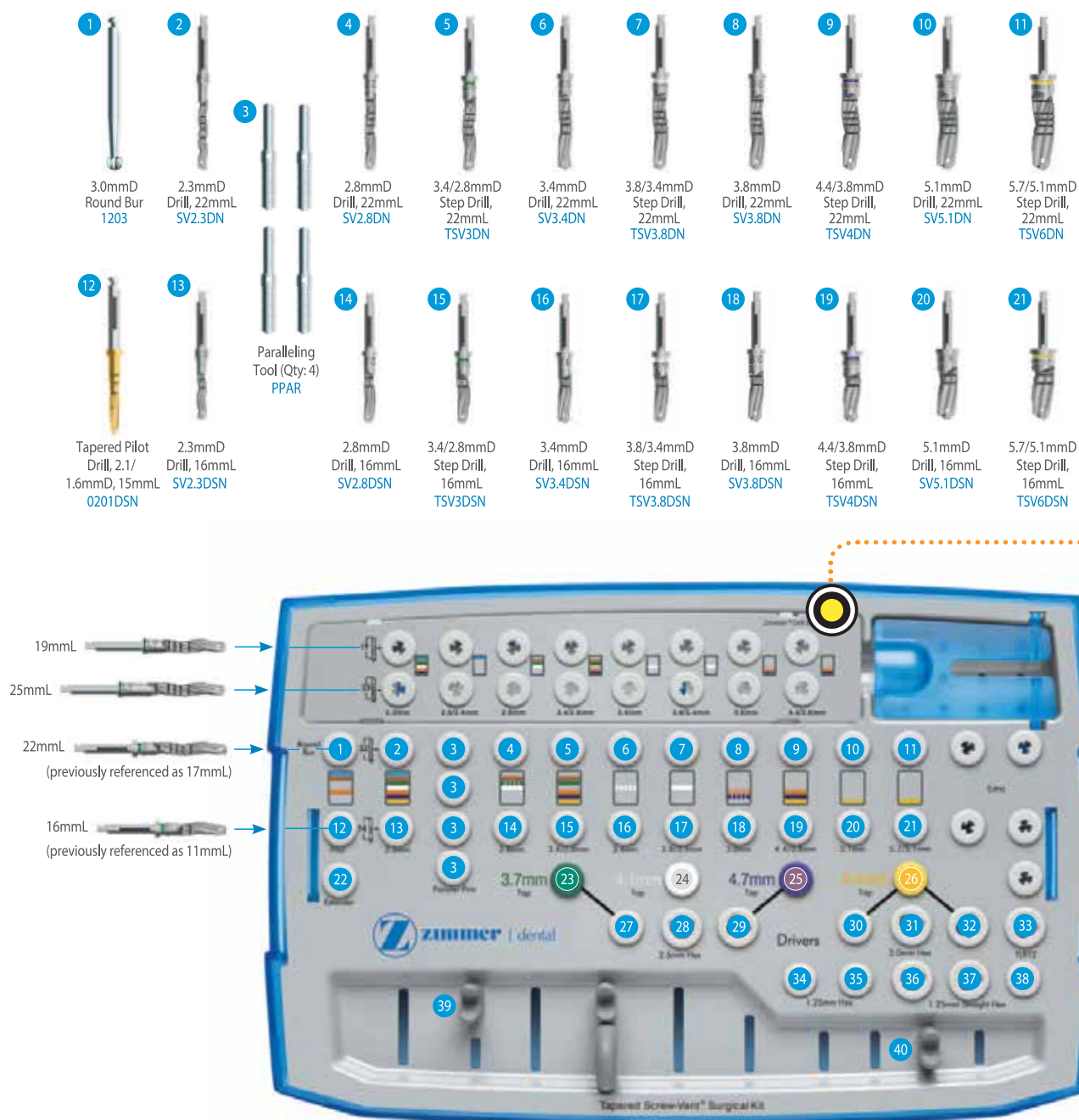


## Prosthetic Tools

Catalog Numbers		
	Description	Catalog No.
	Hex Driver, Short, with <i>GemLock</i> Retention (1.25mmD, 22mmL)	HXGR1.25
	Hex Driver, Short, with <i>GemLock</i> Retention (1.25mmD, 30mmL)	HXLGR1.25
	Hex Driver, Short, Standard (1.25mmD, 17mmL)	HX1.25
	Hex Driver, Long, Standard (1.25mmD, 22mmL)	HXL1.25
	Latch-Lock Hex Driver (Short) for Surgical and Prosthetic Screws (may require Reduction Handpiece) (1.25mmD, 23mmL)	HX1.25D
	Latch-Lock Hex-Driver (Long) for Surgical and Prosthetic Screws (may require Reduction Handpiece) (1.25mmD, 26mmL)	HXL1.25D
	Torque Wrench, Restorative (adjustable torque range 10 Ncm – 35 Ncm)	TWR
	Torque Wrench Hex Driver, Short (1.25mmD, 17mmL)	TW1.25
	Torque Wrench Hex Driver, Long (1.25mmD, 22mmL)	TW1.25L
	Removal Tool for Internal Hex Implant Abutments	TLRT2
	Reamer for Tapered Abutment Copings	PR
	Removal Tool for Abutment Screws or Fixation	SRT



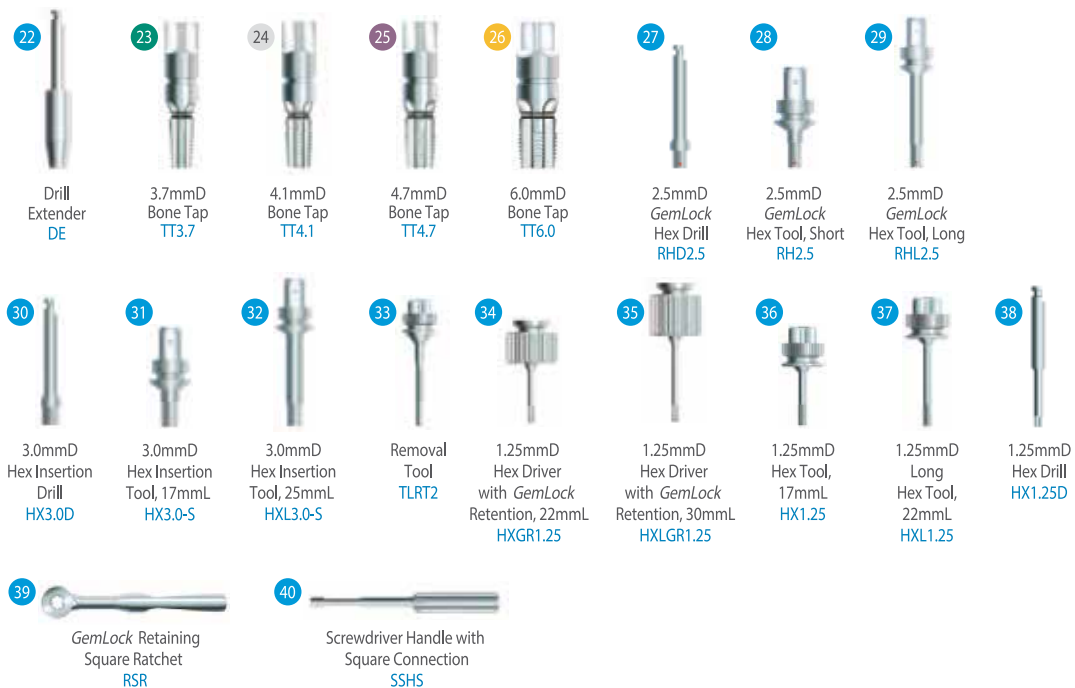
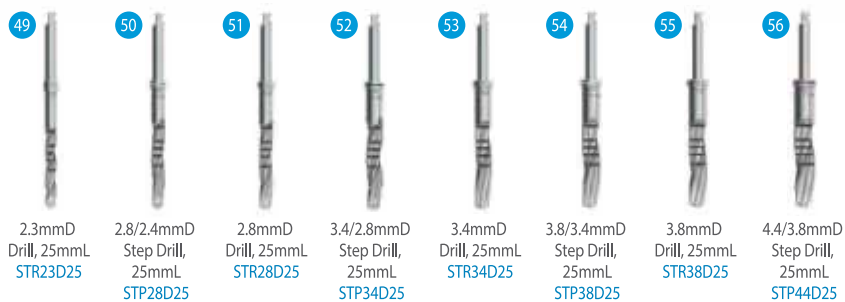
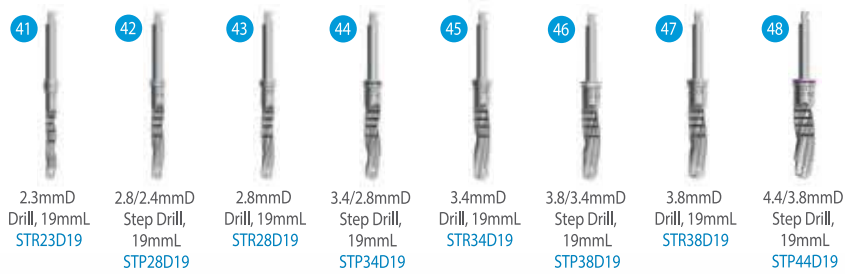
## Arodmap for the Tapered Screw-Vnet, Screw-Vent Implant System




Internal irrigation through the surgical guide.



### Zimmer Drill Module



## Surgical Drills

	Catalog Numbers						
	Diameter	8mmL	15mmL*	16mmL*	19mmL	22mmL*	25mmL
	2.1/1.6mmD	•	0201DSN	•	•	•	•

\* The 15mmL, 16mmL and 22mmL Drills feature axial stripes to help identify use with the Zimmer Drill Stop Kit.

## Surgical Drills

	Catalog Numbers						
	Diameter	8mmL	15mmL*	16mmL*	19mmL	22mmL*	25mmL
	2.3mmD	•	•	SV2.3DSN	STR23D19	SV2.3DN	STR23D25
	2.8mmD	•	•	SV2.8DSN	STR28D19	SV2.8DN	STR28D25
	3.4mmD	•	•	SV3.4DSN	STR34D19	SV3.4DN	STR34D25
	3.8mmD	•	•	SV3.8DSN	STR38D19	SV3.8DN	STR38D25
	5.1mmD	•	•	SV5.1DSN	•	SV5.1DN	•

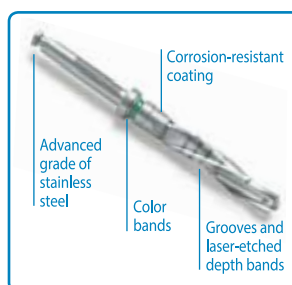
\* The 15mmL, 16mmL and 22mmL Drills feature axial stripes to help identify use with the Zimmer Drill Stop Kit.

## Surgical Step Drills

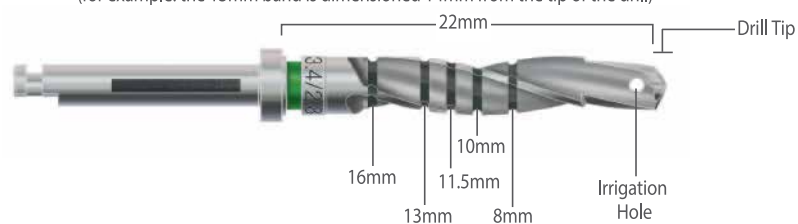
	Catalog Numbers					
	Diameter	16mmL*	19mmL	22mmL*	25mmL	Color Code
	2.8/2.4mmD	•	STP28D19	ZOP28DN	STP28D25	Blue ●
	3.4/2.8mmD	TSV3DSN	STP34D19	TSV3DN	STP34D25	Green ●
	3.8/3.4mmD	TSV3.8DSN	STP38D19	TSV3.8DN	STP38D25	White ○
	4.4/3.8mmD	TSV4DSN	STP44D19	TSV4DN	STP44D25	Purple ●
	5.7/5.1mmD	TSV6DSN	•	TSV6DN	•	Yellow ●

\* The 15mmL, 16mmL and 22mmL Drills feature axial stripes to help identify use with the Zimmer Drill Stop Kit.



## High-Performance Driva Drills









The depth markings are machined and laser-etched for increased visibility. The bands are located approximately 1mm longer than the implant-abutment junction.  
(for example: the 13mm band is dimensioned 14mm from the tip of the drill)






### Surgical Instruments for Tapered Screw-Vent, Screw-Vent and AdVent Implants

Catalog Numbers		
	Description	Catalog No.
	Retaining Square Ratchet for Implant Placement with Hex Drivers RH2.5 / RHL2.5 or FMT Directly	RSR
	Stainless Steel Screwdriver Handle with Square Connection for Implant Placement with Hex Drivers RH2.5 / RHL2.5 or FMT Directly	SSHS

### Hex Drivers 1.25mmD for Tapered Screw-Vent, Screw-Vent and AdVent Implants




Catalog Numbers		
	Description	Catalog No.
	Hex Driver, Short, for Tightening of Surgical and Prosthetic Screws (1.25mmD, 17mmL)	HX1.25
	Hex Driver, Long, for Tightening of Surgical and Prosthetic Screws (1.25mmD, 22mmL)	HXL1.25
	Hex Driver, Short, with <i>GemLock</i> Retention (1.25mmD, 22mmL)	HXGR1.25
	Hex Driver, Long, with <i>GemLock</i> Retention (1.25mmD, 30mmL)	HXLGR1.25
	Latch-Lock Hex Driver (Short) for Surgical and Prosthetic Screws (1.25mmD, 23mmL) (may require Reduction Handpiece)	HX1.25D
	Latch-Lock Hex Driver (Long) for Surgical and Prosthetic Screws (1.25mmD, 26mmL) (may require Reduction Handpiece)	HXL1.25D

### Hex Drivers 2.5mmD for Tapered Screw-Vent, Screw-Vent and AdVent Implants

Catalog Numbers		
	Description	Catalog No.
	<i>GemLock</i> Retaining Hex Driver (2.5mmD, 21mmL)	RHD2.5
	<i>GemLock</i> Retaining Hex Driver, Short (2.5mmD, 17mmL)	RH2.5
	<i>GemLock</i> Retaining Hex Driver, Long (2.5mmD, 28mmL)	RHL2.5





Note : 2.5mmD Hex Drivers (*GemLock* Delivery System) should be used to deliver all Tapered Screw-Vent Implant via the Fixture Mount / Transfer.

### Hex Drivers 3.0mmD for Tapered Screw-Vent and AdVent Implants






Catalog Numbers		
	Description	Catalog No.
	Hex Driver for Implants with 3.0mmD Hex (may require Reduction Handpiece) (3.0mmD, 25mmL)	HX3.0D
	Hex Driver, Short, for Implants with 3.0mmD Hex (3.0mmD, 17mmL)	HX3.0-S
	Hex Driver, Long, for Implants with 3.0mmD Hex (3.0mmD, 28mmL)	HXL3.0-S

Note : 3.0mmD Hex Drivers are used to place the 6.0mmD Tapered Screw-Vent and all AD Vent Implant without a Fixture Mount/Transfer.

### Cortical Bone Taps (Triple-Lead Threads) for Tapered Screw-Vent and AdVent Implants

Catalog Numbers		
	Description	Catalog No.
	3.7mmD Cortical Bone Tap Tool	TT3.7
	4.1mmD Cortical Bone Tap Tool	TT4.1
	4.7mmD Cortical Bone Tap Tool	TT4.7
	6.0mmD Cortical Bone Tap Tool	TT6.0

### Miscellaneous Surgical Instruments

Catalog Numbers		
	Description	Catalog No.
	Drill Extender, 27mmL	DE
	Paralleling Tool	PPAR
	Removal Tool for Screw-Type Implants, Carbide Steel (do not autoclave)	IRT
	Removal Tool for Internal Hex Implant Abutments	TLRT2
	Round Bur	1203



## Zimmer Instrument Kit System



Catalog Numbers		
Description	Catalog No.	Qty.
<b>Tapered Screw-Vent Surgical Kit</b>	<b>TSVKIT</b>	<b>1 Ea.</b>
(For placement of 3.7mmD, 4.1mmD, 4.7mmD and 6.0mmD Implants)		
Tray Only	TSVTRAY	
2.1/1.6mmD Drill, 15mmL	0201DSN	
Round Bur	1203	
2.3mmD Driva™ Surgical Drill, 16mmL	SV2.3DSN	
2.3mmD Driva Surgical Drill, 22mmL	SV2.3DN	
2.8mmD Driva Surgical Drill, 16mmL	SV2.8DSN	
2.8mmD Driva Surgical Drill, 22mmL	SV2.8DN	
3.4/2.8mmD Driva Surgical Step Drill, 16mmL	TSV3DSN	
3.4/2.8mmD Driva Surgical Step Drill, 22mmL	TSV3DN	
3.4mmD Driva Surgical Drill, 16mmL	SV3.4DSN	
3.4mmD Driva Surgical Drill, 22mmL	SV3.4DN	
3.8/3.4mmD Driva Surgical Step Drill, 16mmL	TSV3.8DSN	
3.8/3.4mmD Driva Surgical Step Drill, 22mmL	TSV3.8DN	
3.8mmD Driva Surgical Drill, 16mmL	SV3.8DSN	
3.8mmD Driva Surgical Drill, 22mmL	SV3.8DN	
4.4/3.8mmD Driva Surgical Step Drill, 16mmL	TSV4DSN	
4.4/3.8mmD Driva Surgical Step Drill, 22mmL	TSV4DN	
5.1mmD Driva Surgical Drill, 16mmL	SV5.1DSN	
5.1mmD Driva Surgical Drill, 22mmL	SV5.1DN	
5.7/5.1mmD Driva Surgical Step Drill, 16mmL	TSV6DSN	
5.7/5.1mmD Driva Surgical Step Drill, 22mmL	TSV6DN	
3.7mmD Cortical Bone Tap Tool	TT3.7	
4.1mmD Cortical Bone Tap Tool	TT4.1	
4.7mmD Cortical Bone Tap Tool	TT4.7	
6.0mmD Cortical Bone Tap Tool	TT6.0	
1.25mmD Hex Driver, Short, with GemLock Retention, 22mmL	HXGR1.25	
1.25mmD Hex Driver, Long, with GemLock Retention, 30mmL	HXLGR1.25	
1.25mmD Hex Driver, Short, 17mmL	HX1.25	
1.25mmD Hex Driver, Long, 22mmL	HXL1.25	
1.25mmD Latch-Lock Hex Driver, 23mmL	HX1.25D	
2.5mmD GemLock Retaining Hex Driver, Short, 17mmL	RH2.5	
2.5mmD GemLock Retaining Hex Driver, Long, 28mmL	RHL2.5	
2.5mmD GemLock Retaining Hex Driver, 21mmL	RHD2.5	
3.0mmD Hex Driver, Short, 17mmL	HX3.0-S	
3.0mmD Hex Driver, Long, 28mmL	HXL3.0-S	
3.0mmD Hex Driver, 25mmL	HX3.0D	
Drill Extender, 27mmL	DE	
Paralleling Tool (Qty.4)	PPAR	
GemLock Retaining Square Ratchet	RSR	
Screwdriver Handle with Square Connection	SSHS	
Removal Tool for Internal Hex Implant Abutments	TLRT2	

## Tapered Screw-Vent Drilling Sequence

## 3.7mmD Tapered Screw-Vent Implant (3.5mmD Platform)



3.7mmD



SV2.3DN  
2.3mmD  
Pilot Drill



SV2.8DN  
2.8mmD  
Final Drill



FOR DENSE BONE  
TSV3DN  
3.4/2.8mmD  
Final Drill



OPTIONAL FOR  
DENSE BONE  
TT3.7  
3.7mmD  
Cortical Bone Tap

## 4.1mmD Tapered Screw-Vent Implant (3.5mmD Platform)



4.1mmD



SV2.3DN  
2.3mmD  
Pilot Drill



SV2.8DN  
2.8mmD  
Drill



SV3.4DN  
3.4mmD  
Drill



FOR DENSE BONE  
TSV3.8DN  
3.8/3.4mmD  
Drill

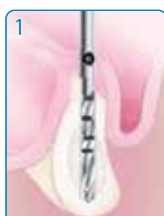


OPTIONAL FOR  
DENSE BONE  
TT4.1  
4.1mmD  
Cortical Bone Tap

## 4.7mmD Tapered Screw-Vent Implant (4.5mmD Platform)



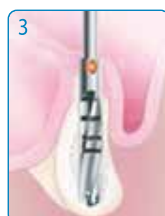
4.7mmD



SV2.3DN  
2.3mmD  
Pilot Drill



TSV3DN  
3.4/2.8mmD  
Intermediate Drill



SV3.8DN  
3.8mmD  
Final Drill



FOR DENSE BONE  
TSV4DN  
4.4/3.8mmD  
Final Drill



OPTIONAL FOR  
DENSE BONE  
TT4.7  
4.7mmD  
Cortical Bone Tap

## 6.0mmD Tapered Screw-Vent Implant (5.7mmD Platform)



6.0mmD



SV2.3DN  
2.3mmD  
Pilot Drill



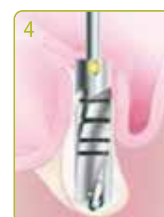
TSV3DN  
3.4/2.8mmD  
Intermediate Drill



TSV4DN  
4.4/3.8mmD  
Intermediate Drill



SV5.1DN  
5.1mmD  
Final Drill



FOR DENSE BONE  
TSV6DN  
5.7/5.1mmD  
Final Drill



OPTIONAL FOR  
DENSE BONE  
TT6.0  
6.0mmD  
Cortical Bone Tap

## Screw-Vent Drilling Sequence

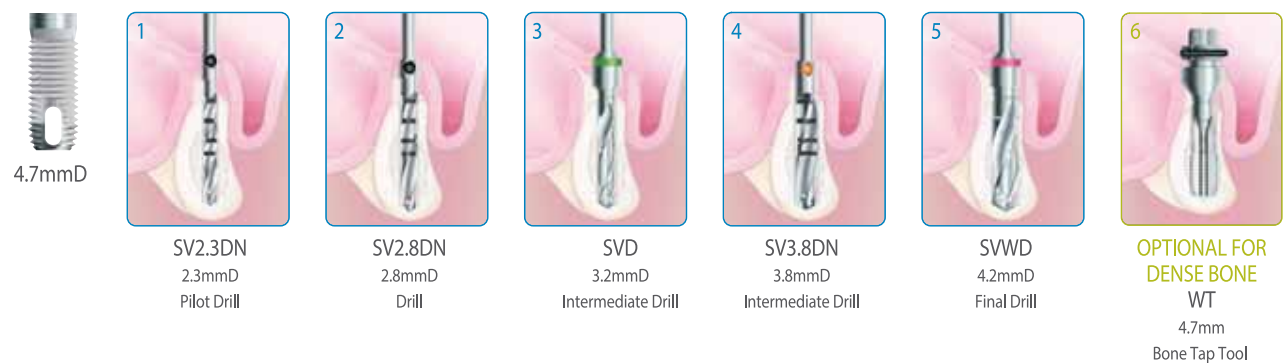
## 3.3mmD Screw-Vent Implant (3.5mmD Platform)



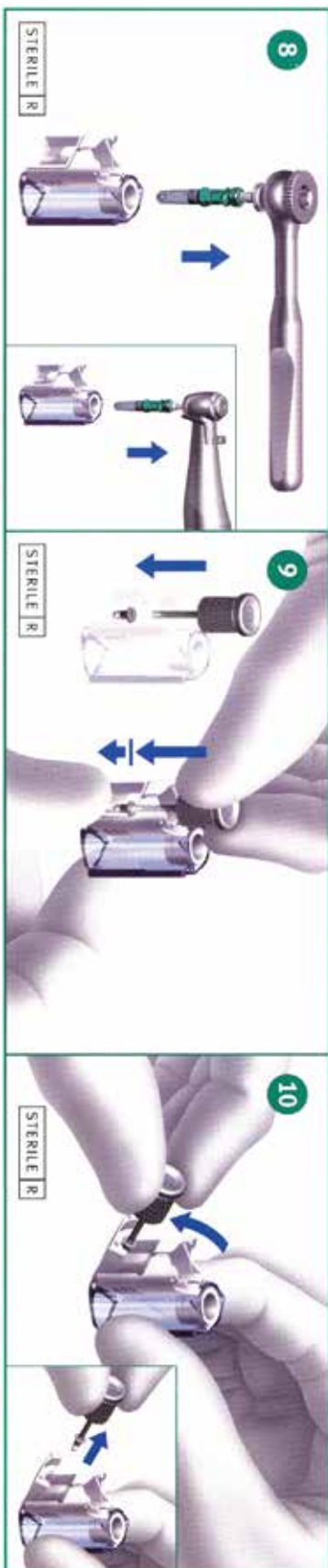
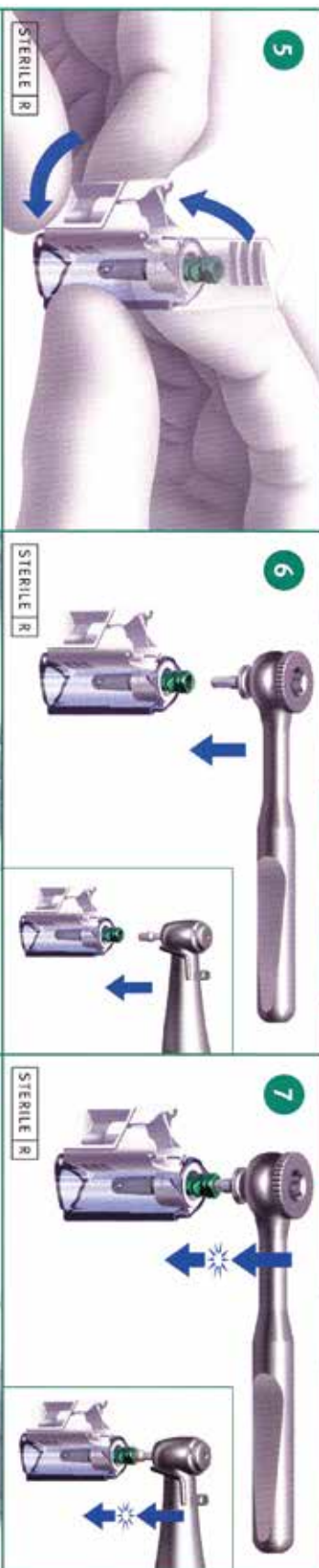
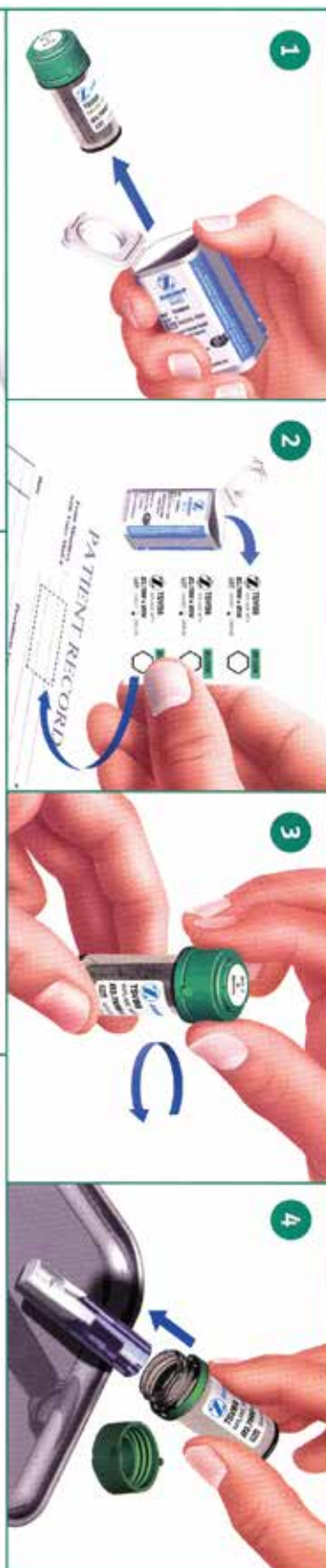
## 3.7mmD Screw-Vent Implant (3.5mmD Platform)



## 4.7mmD Screw-Vent Implant (4.5mmD Platform)



## Packaging for Tapered Screw-Vent®, Screw-Vent® Implants



Lined area for notes.





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