



Total Solution for Function and Esthetics

www.zibone.com



About COHO

Founded in 2001, Coho Biomedical Technology is a leading manufacturer of high precision ceramic medical products in the world. Coho's advanced technologies have obtained several patents. This lays the strong foundation for the successful development of ZiBone – Zirconia ceramic implants. ZiBone is the result of joint efforts between universities, private clinicians, and the technologies of Coho.

Coho recognizes that nowadays patients are not satisfied merely with the function of restorations but also demand esthetics. With this mind, Coho develops a total esthetic solution for implant treatments: ZiBone ceramic implants for both function and esthetics, ceramic drills for cutting efficiency and reducing heat generation, and our milling center for producing fixed temporary and Zirconia ceramic prostheses for accurate fit and esthetics. Zirconia is a material of choice for esthetics, biocompatibility, and mechanical properties.

Coho attaches great importance to quality. We are subject to regulation of its quality assurance system under ISO 13485/ISO 9001 at each stage of its operations. All of our products must go through stringent quality control to make sure that they perform to specification and patient safety requirements. ZiBone ceramic dental implants were approved by US FDA, CE, and TFDA.



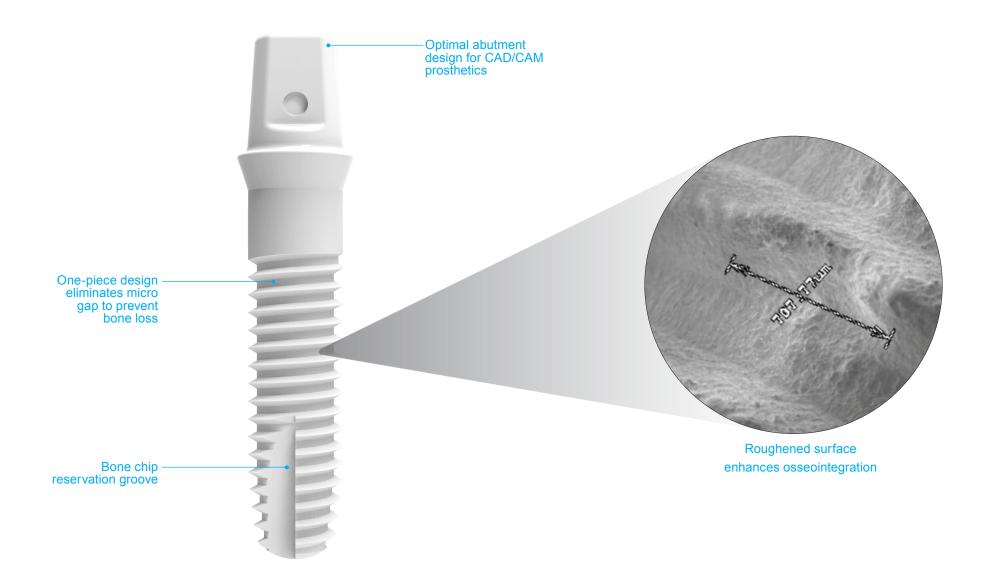
ZiBone Zirconia Implant

The Next Generation of Implants

ZiBone is a one-piece zirconia implant (fixture and abutment in one piece) made of extremely strong high-purity zirconia ZrO2-TZP conforming to ISO 13356, which has been used for years as orthopedic implant material. Zirconia is an ideal material for making implants. Compared to aluminum oxide and titanium, zirconia possesses superior mechanical properties that make it stronger, less brittle, resist to fracture and deformation.

The patent advanced ceramic technologies of Coho enable ZiBone to be produced to high precision, and make its surface nanoporous that induces osseointegration better than other titianium implants.

The cylindrical body and conical tip design enables ZiBone to achieve the highest possible primary stability. The fine neck thread increases the bone contact area and initial stability. Threads in the implant body and wide pitch design provide stability and promote osseointegration.



ZiBone Causes No Metallic Allergy

Studies clearly demonstrate that titanium can induce clinically relevant hypersensitivity to some patients. However, zirconia is biocompatible and causes no metal allergy. ZiBone zirconia implants and instruments are made of zirconia, offering a metal free treatment.

ZiBone Meets Esthetic Demand

Nowadays patients are not merely satisfied with the function of restorations but also their esthetic results. They want to avoid embarrassing smiles. ZiBone is designed to meet this growing demand. ZiBone is white color. It does not show dark shadow in thin soft tissue or dark margin when gum line retreats as mostly found in treatments with titanium implants. Besides that, when zirconia crown/bridge is used on ZiBone, the whole restorations look more natural and esthetic as zirconia allows light to pass through like natural tooth. Metal blocks passage of light.





Same day immediate temporization

ZiBone's One-Piece Design Simplifies Procedure

ZiBone's one-piece implant design does not require a separate abutment. It can simplify the procedure and shorten clinical time that is required in two-stage technique. Needlessly to say, it makes life easy for both patients and dental professionals.

ZiBone Enhances Long-Term Clinical Success

Reduce Chance of Peri-implantitis

Peri-implantitis has been one of the main causes of implant failure. ZiBone is designed to reduce this possibility. Thanks to its one-piece design which has no micro-gaps between fixture and abutment. It can prevent pathogenic bacteria from colonization. On top of it, its smooth neck surface makes it less susceptible to the accumulation of pathogenic bacteria. Zirconia is known to be tissue friendly. Soft tissue attaches more readily to ceramic implants forming protection against penetration of pathogenic bacteria that causes per-implantitis.





Excellent esthetics without metal colour

High Bone-Implant Contact

Studies have shown that zirconia integrates with bone tissue similar to titanium. Early loading is possible due to its one-piece design when bone conditions allow.



Quality Guarantee

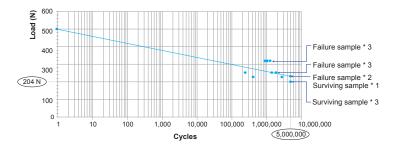
	Physical Properties	Requirements
1	4-Point Flexural Strength	≥ 800 MPa
2	Fatigue Strength (5,000,000 Cycles)	≧ 320 MPa
3	Radiation	0.0043 Bq/g
4	High Biocompatibility	Conform to ISO 7405

Superior Mechanical Properties

ZiBone has been subject to various tests to verify its performance under different mechanical conditions. The results show that ZiBone has mechanical properties superior to titanium and aluminum oxide. It means that ZiBone performs well in clinical situations.



5 million cycles fatigue testing



ISO 14801 Fatigue Testing



Zirconia Disk

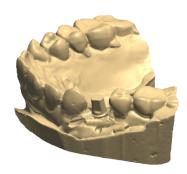
Zirconia Disk

The ZiBone zirconia disk is manufactured through press-forming zirconia powder from Japan using high precision equipment, making ZiBone the best option for crafting all-ceramic crowns.



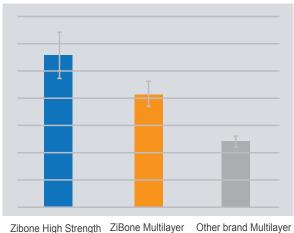
CAD/CAM Digital Dental Technology

The emergence of digital and high-performance zirconium oxide materials allowed a greater degree of automation for the manufacturing of protheses. Dental technicians of the Dental Technology Center of COHO Biomedical Technology provide total solutions for cosmetic procedures from image scanning to the preparation of the dental crown, saving the precious time of physicians and our clients.



Transmittance 60.00 54.38 50.00 49.97 40.00 透光率(%t) 48.04 30.00 20.00 10.00 0.00 450 510 570 630 690 750 Zibone High Strength ZiBone Multilayer Full Zirconia ZiBone Multilayer Other brand Multilayer Preshade Zirconia

Flexural Strength



Zibone High Strength	ZiBone Multilayer	Other brand Multilaye
Full Zirconia	Preshade Zirconia	Preshade Zirconia

DesignationU	nits	TZP
Components		ZrO ₂ /Y ₂ O ₃
Composition%		95/5
Density	g/cm ³	6.05
Open porosity	%0	
Grain size (mli)	μm	0.4
Hardness VickersH	V	1200
Hardness Mohs	-8	
Compressive strength	MPa	2000
Flexural strength	MPa	1000
Young's modulus	GPa	200
Fracture toughness K _{1C}	Mpa√m	8
Posson ratio	-0	.31
Max. operating temperature	°C	1000
Thermal expansion (20-1000°C)1	10 ⁻⁶ /K	0
Thermal conductivity	W/mK	2.5
Specific heat	J/kgK	500
Sthaping procedures:		
Isostatic pressing		X
Die pressing		X
Slip casting		
HIPX		



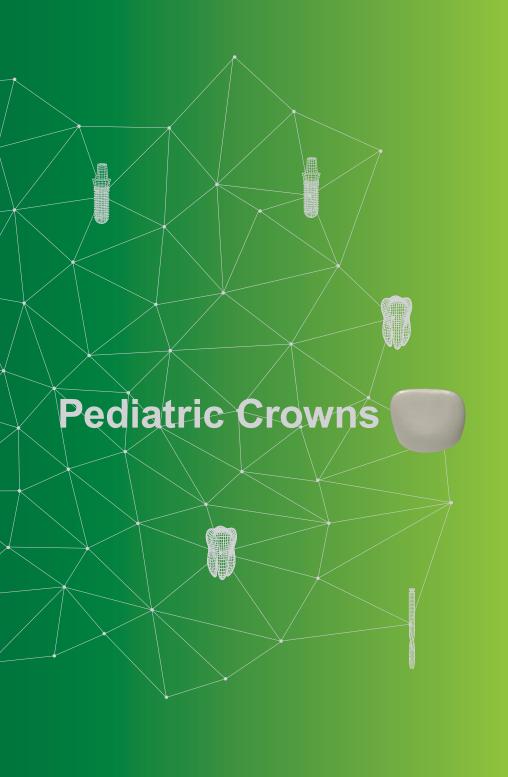




ZiBone Multilayer Preshade Zirconia



Other brand Multilayer Preshade Zirconia



ZiBone Pediatric Crowns

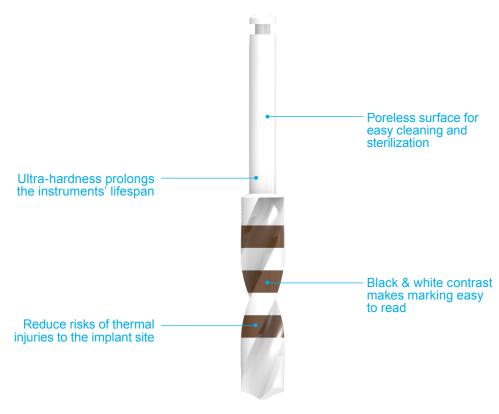
ZiBone Pediatric Crowns are made from FDA-approved zirconia materials. The coloration of zirconia is extremely close to that of natural teeth, and the material itself has demonstrated the highest level of biological compatibility with the human body. Zirconia crowns are now commonly used in dental clinical applications, and user experiences have shown that zirconia crowns feature improved hardness and durability compared to other types of dental crowns. Before zirconia crowns, pediatric dentistry commonly used plastic and stainless steel as materials for repairing primary teeth crowns. However, there are currently no alternative materials capable of replacing the outstanding aesthetics, biocompatibility and product durability offered by 100% zirconia crowns.

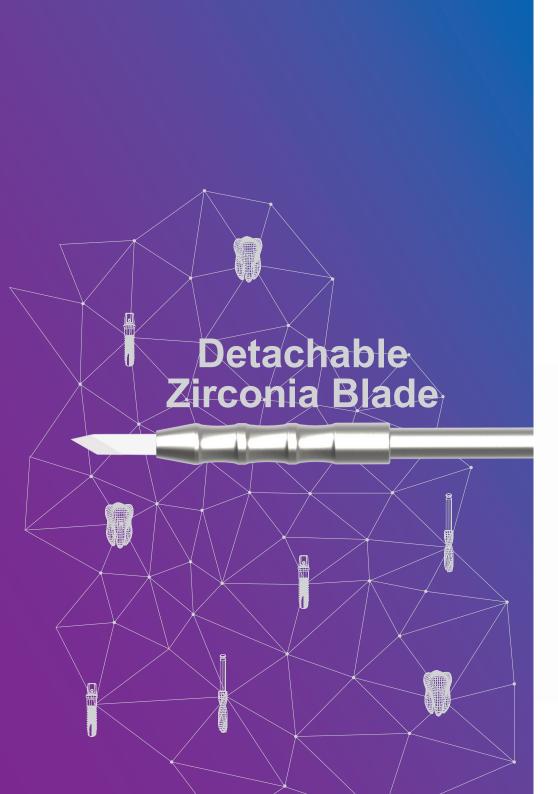




ZiBone Implant Drills

ZiBone implant drills are made from the same zirconia material as ZiBone implants. Its hardness is only second to diamond, which makes them wear resistance. The sharp blades also minimize heat generation during osteotomy, preventing excessive thermal damage to bone tissue, resulting in a faster bone recovery process. Ceramic surgical tools also have the advantage of high biocompatibility, rust-free, and easy cleaning and disinfection.





Detachable Zirconia Blade

Product Features

- 1. Detachable zirconia blade
- 2. Made from zirconia that has passed ISO10993 biocompatibility examination.
- 3. Highly abrasion resistant material with great hardness and strong cutting force.
- 4. Can endure high temperature autoclave sterilization and has long service life.
- Highly resistant to acid and alkali corrosion, high density, excellent insulating quality, low friction coefficient, low optical absorption coefficient and high chemical stability.
- 6. Stainless steel handle, streamline design and anti-slip management for ease of applying force.





pointed tip



never rusts



non-sparking



non-magnetic



no oil coating



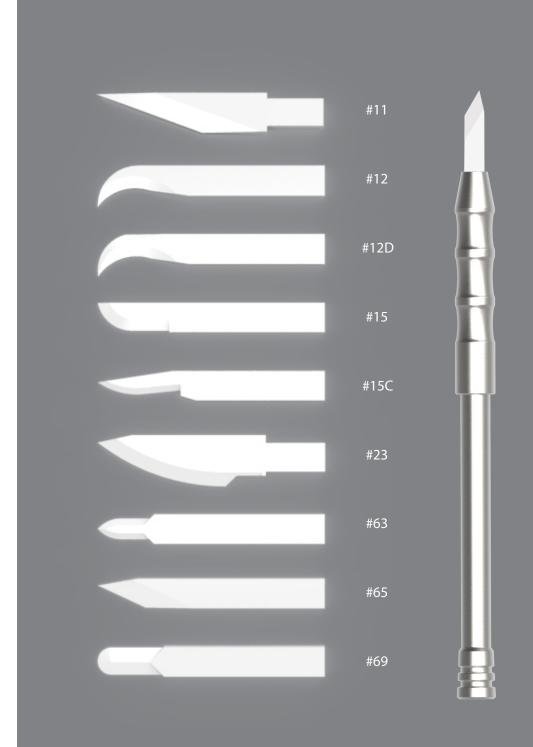
non-conductive



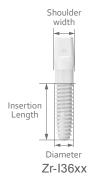
chemically inert



safer than traditional blades



Specifications



Zirconia Dental Implant

Model Name	Diameter	Shoulder Width	Insertion Length	Final Drill
Zr-13608	Ø3.6	4.1	8.0	2.8
Zr-I3610	Ø3.6	4.1	10.0	2.8
Zr-I3611	Ø3.6	4.1	11.5	2.8
Zr-I3613	Ø3.6	4.1	13.0	2.8
Zr-I3614	Ø3.6	4.1	14.5	2.8

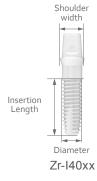
(Unit:mm)

Max Scale Length

Twist Drill

Model Name	Diameter	Max Scale Length
Zr-D2316	Ø2.3	16
Zr-D2816	Ø2.8	16
Zr-D3416	Ø3.4	16
Zr-D3816	Ø3.8	16
Zr-D4316	Ø4.3	16

(Unit:mm)



Zirconia Dental Implant

Model Name	Diameter	Shoulder Width	Insertion Length	Final Drill
Zr-14008	Ø4.0	4.8	8.0	3.4
Zr-I4010	Ø4.0	4.8	10.0	3.4
Zr-I4011	Ø4.0	4.8	11.5	3.4
Zr-I4013	Ø4.0	4.8	13.0	3.4
Zr-I4014	Ø4.0	4.8	14.5	3.4

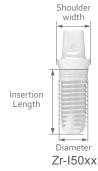
(Unit:mm)



Healing Cap

Model Name	Diameter	Applicable Implant
Pk-H3665	Ø6.5	Zr-136xx
Pk-H4070	Ø7.0	Zr-140xx
Pk-H5075	Ø7.5	Zr-150xx

(Unit:mm)



Zirconia Dental Implant

Model Name	Diameter	Shoulder Width	Insertion Length	Final Drill
Zr-15008	Ø5.0	6.0	8.0	4.3
Zr-I5010	Ø5.0	6.0	10.0	4.3
Zr-I5011	Ø5.0	6.0	11.5	4.3
Zr-I5013	Ø5.0	6.0	13.0	4.3
Zr-I5014	Ø5.0	6.0	14.5	4.3

(Unit:mm)



Depth Gauge

Model Name	Diameter	Max Scale Length
Zr-G2316	Ø2.3	16
Zr-G2816	Ø2.8	16
Zr-G3416	Ø3.4	16

(Unit:mm)



Implant Adaptor

Model Name	Extended Length
Me-A4815	4.5
Me-A4821	10.5

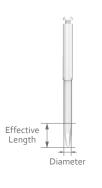
(Unit:mm)



Implant Driver

Model Name	Extended Length
Me-D4822	6
Me-D4825	9

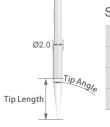
(Unit:mm)



Point Drill

Model Name	Diameter	Effective Length
Zr-P2017	Ø2.0	5

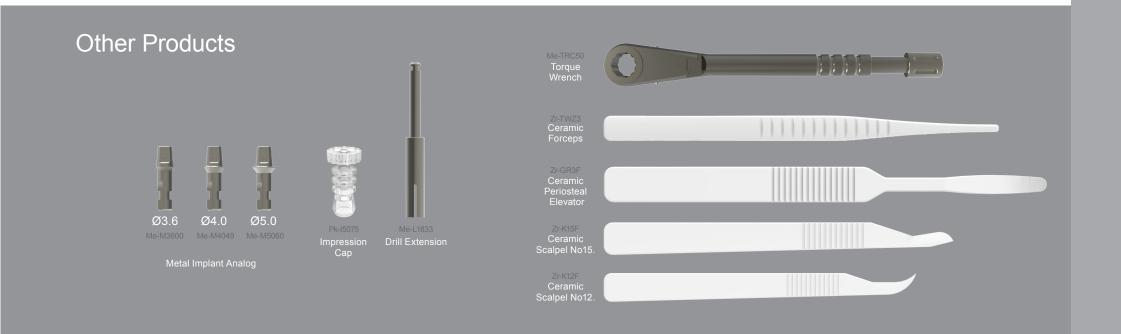
(Unit:mm)



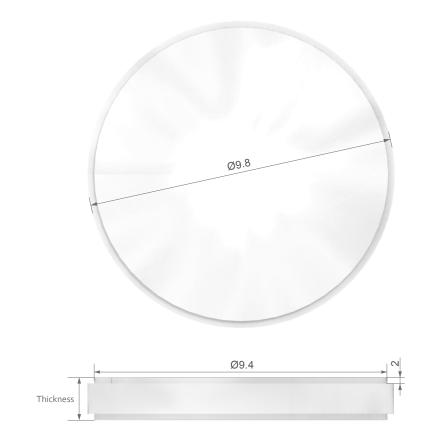
Soft Tissue Trimmer

Model Name	Tip Length	Tip Angle
Zr-V2045	4.5	20
Zr-V2055	5.5	20
Zr-V2085	8.5	12

(Unit:mm)



Zirconia Disk



14	ltem	Specification		
ltem	Number	Diameter	Thickness	Color
	Zr-C9814-A2	9.8	14	A0/A1.5/A2 Multilayer
	Zr-C9816-A2		16	
	Zr-C9818-A2		18	
ZiBone Multilayer	Zr-C9820-A2		20	
Preshaded Zirconia	Zr-C9814-A3	9.8	14	A1/A2.5/A3 Multilayer
	Zr-C9816-A3		16	
	Zr-C9818-A3		18	
	Zr-C9820-A3		20	
Zibone High Strength Full		9.8	14	White
Zirconia	Zr-B981 6	9.0	16	

Pediatric Crowns-Standard

Catalog No.	Applicable Dental Notation	Code	Mesiodistal Width (mm)
Zr-TURA2		<u>A2</u>	6.6
Zr-TURA3		<u>A3</u>	7.3
Zr-TURA4	Maxillary central incisor	A4	7.3
Zr-TURA5		A5	8.1
Zr-TURA6		<u>A6</u>	8.1
Zr-TURA7		<u>A7</u>	8.6
Zr-TURB2		<u>B2</u>	5.0
Zr-TURB3		<u>B3</u>	5.8
Zr-TURB4	Maxillary	<u>B4</u>	5.8
Zr-TURB5	lateral incisor	<u>B5</u>	6.6
Zr-TURB6		<u>B6</u>	6.6
Zr-TURB7		<u>B7</u>	7.4
Zr-TURD2		<u>D2</u>	6.5
Zr-TURD3		<u>D3</u>	7.4
Zr-TURD4	Maxillary 1st	<u>D4</u>	7.4
Zr-TURD5	primary molar	<u>D5</u>	7.7
Zr-TURD6		<u>D6</u>	7.8
Zr-TURD7		<u>D7</u>	8.3
Zr-TURE2		<u>E2</u>	9.2
Zr-TURE3	Maxillary 2nd primary molar	<u>E3</u>	9.8
Zr-TURE4		<u>E4</u>	10.2
Zr-TURE5		<u>E5</u>	10.6
Zr-TURE6		<u>E6</u>	10.9
Zr-TURE7		<u>E7</u>	11.2
Zr-TLRD2		D2	7.7
Zr-TLRD3		D3	8.4
Zr-TLRD4	Mandibular 1st	D4	8.8
Zr-TLRD5	primary molar	D5	9.1
Zr-TLRD6		D6	10
Zr-TLRD7		D7	10
Zr-TLRE2		E2	9.6
Zr-TLRE3		E3	10
Zr-TLRE4	Mandibular 2nd	E4	10.3
Zr-TLRE5	primary molar	E5	10.8
Zr-TLRE6		E6	11.2
Zr-TLRE7		E7	11.7

Catalog No.	Applicable Dental Notation	Code	Mesiodistal Width (mm)
Zr-TULA2		A2	6.6
Zr-TULA3		A3	7.3
Zr-TULA4	Maxillary	A4	7.3
Zr-TULA5	central incisor	A5	8.1
Zr-TULA6		A6	8.1
Zr-TULA7		A7	8.6
Zr-TULB2		B2	5.0
Zr-TULB3		B3	5.8
Zr-TULB4	Maxillary	B4	5.8
Zr-TULB5	lateral incisor	B5	6.6
Zr-TULB6		B6	6.6
Zr-TULB7		B7	7.4
Zr-TULD2		D2	6.5
Zr-TULD3		D3	7.4
Zr-TULD4	Maxillary 1st	D4	7.4
Zr-TULD5	primary molar	D5	7.7
Zr-TULD6		D6	7.8
Zr-TULD7		D7	8.3
Zr-TULE2		E2_	9.2
Zr-TULE3		E3	9.8
Zr-TULE4	Maxillary 2nd primary molar	<u>E4</u>	10.2
Zr-TULE5		<u>E5</u>	10.6
Zr-TULE6		E6_	10.9
Zr-TULE7		E7_	11.2
Zr-TLLD2		D2	7.7
Zr-TLLD3		D3	8.4
Zr-TLLD4	Mandibular 1st	D4	8.8
Zr-TLLD5	primary molar	D5	9.1
Zr-TLLD6		D6	10
Zr-TLLD7		D7	10
Zr-TLLE2		E2	9.6
Zr-TLLE3		E3	10
Zr-TLLE4	Mandibular 2nd	E4	10.3
Zr-TLLE5	primary molar	E5	10.8
Zr-TLLE6		E6	11.2
Zr-TLLE7		E7	11.7

Pediatric Crowns-Narrow

Catalog No.	Applicable Dental Notation	Code	Mesiodistal Width (mm)
Zr-TURND2		ND2	5.5
Zr-TURND3		ND3	6.4
Zr-TURND4	Maxillary 1st	ND4	6.4
Zr-TURND5	primary molar	ND5	6.7
Zr-TURND6		ND6	6.8
Zr-TURND7		ND7	7.3
Zr-TLRND2		ND2	6.7
Zr-TLRND3		ND3	7.4
Zr-TLRND4	Mandibular 1st primary molar	ND4	7.8
Zr-TLRND5		ND5	8.1
Zr-TLRND6		ND6	9
Zr-TLRND7		ND7	9
Zr-TURNE2		NE2	8.2
Zr-TURNE3		NE3	8.8
Zr-TURNE4	Maxillary 2nd	NE4	9.2
Zr-TURNE5	primary molar	NE5	9.6
Zr-TURNE6		NE6	9.9
Zr-TURNE7		NE7	10.2
Zr-TLRNE2		NE2	8.6
Zr-TLRNE3		NE3	9
Zr-TLRNE4	Mandibular 2nd	NE4	9.3
Zr-TLRNE5	primary molar	NE5	9.8
Zr-TLRNE6		NE6	10.2
Zr-TLRNE7		NE7	10.7

Catalog No.	Applicable Dental Notation	Code	Mesiodistal Width (mm)
Zr-TULND2		ND2	5.5
Zr-TULND3		ND3	6.4
Zr-TULND4	Maxillary 1st	ND4	6.4
Zr-TULND5	primary molar	ND5	6.7
Zr-TULND6		ND6	6.8
Zr-TULND7		ND7	7.3
Zr-TLLND2		ND2	6.7
Zr-TLLND3	Mandibular 1st primary molar	ND3	7.4
Zr-TLLND4		ND4	7.8
Zr-TLLND5		ND5	8.1
Zr-TLLND6		ND6	9
Zr-TLLND7		ND7	9
Zr-TULNE2		NE2	8.2
Zr-TULNE3	Maxillary 2nd primary molar	NE3	8.8
Zr-TULNE4		NE4	9.2
Zr-TULNE5		NE5	9.6
Zr-TULNE6		NE6	9.9
Zr-TULNE7		NE7	10.2
Zr-TLLNE2	Mandibular 2nd	NE2	8.6
Zr-TLLNE3		NE3	9
Zr-TLLNE4		NE4	9.3
Zr-TLLNE5	primary molar	NE5	9.8
Zr-TLLNE6		NE6	10.2
Zr-TLLNE7		NE7	10.7



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