bicon®
DENTAL IMPLANTS

Max 2.5 Catalog

Since 1985 » Simple. Predictable. Profitable.

MAX 2.5™
MAXILLARY ANTERIOR IMPLANTS

bicon®
DENTAL IMPLANTS

Continuing our efforts to provide clinicians with solutions for all implant restorations, Bicon has developed a line of implants with a 2.5mm well or internal connection for Maxillary Anterior Restorations.

These implants and their restorative components complement Bicon's SHORT™ Implant and Narrow Implant product lines. For more information about other products that Bicon offers, please refer to Bicon's Complete Catalog or visit www.bicon.com.

Bicon implants, abutments, instrumentation, and components are engineered, manufactured, packaged, and/or sterilized at ISO Certified facilities.

Bicon fulfills the stringent requirements of the European Directive 93/42/EEC for medical devices as well as strict adherence to the ISO 13485 standard.

THE BICON SYSTEM

A simple and elegant design that has remained unchanged and in continuous use since 1985.

BICON'S LOCKING TAPER

- Time-tested stable connection
- Proven bacterial seal

BICON'S SLOPING SHOULDER

- Space for bone over the implant
- Distributes occlusal stresses
- Preserves crestal bone

BICON'S PLATEAU DESIGN

- 30% more surface area
- No splinting necessary
- Callus bone formation
- Cortical-like Haversian bone between the fins

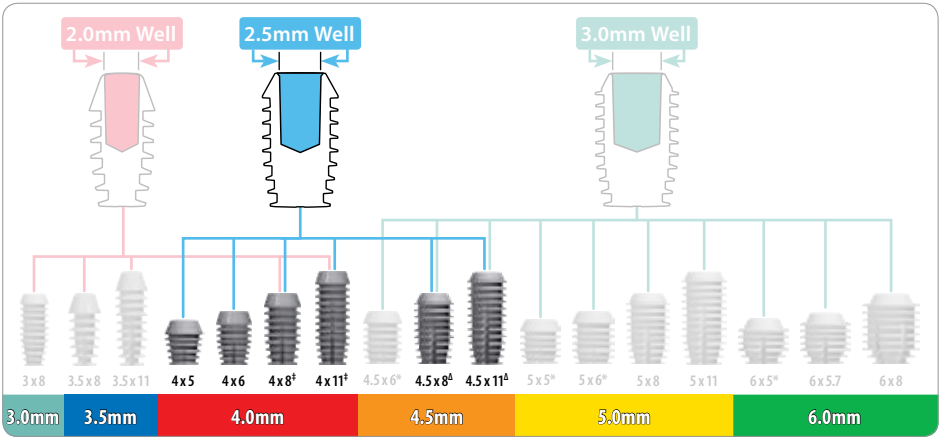
IMPLANTS 2.5mm Well

Diameter & Surface	Length	Well	Part Number
4.0mm Integra-CP™ Implant	5.0mm	2.5mm	260-340-255
4.0mm Integra-CP™ Implant	6.0mm	2.5mm	260-340-256
4.0mm Integra-CP™ Implant	8.0mm	2.5mm	260-340-258
4.0mm Integra-CP™ Implant	11.0mm	2.5mm	260-340-251

4.0 x 5 4.0 x 6 4.0 x 8 4.0 x 11

4.5mm Integra-CP™ Implant	8.0mm	2.5mm	260-345-258
4.5mm Integra-CP™ Implant	11.0mm	2.5mm	260-345-251

4.5 x 8 4.5 x 11



‡Available with a 2.0mm or a 2.5mm well. ΔAvailable with a 2.5mm or a 3.0mm well.
*Recommended for two stage surgical procedure.

- Each implant is packaged with its appropriate healing plug.
- All implants are manufactured from Ti6Al4V.

MAX 2.5™
MAXILLARY ANTERIOR IMPLANTS

Integra-CP™

Healing Plug

IMPLANT LEVEL IMPRESSION 2.5mm Post

Description	Part Number
2.5mm Impression Post and Sleeve (2)	260-100-413
2.5mm Implant Level Impression Kit	260-100-414

2.5mm Impression Post
Titanium

2.5mm Impression Sleeve
Plastic

2.5mm Implant Analog
Titanium

- The impression kit contains an impression post, sleeve, and implant analog.
- Narrower and wider implant well diameters require a different impression post, sleeve, and implant analog.
- See Complete Catalog for other post diameters and sleeves.

Technique

1 Insert blue impression post for 2.5mm well implants using finger pressure.

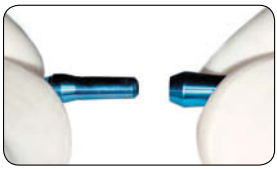
2 Insert blue impression post for 2.5mm well implants using finger pressure.

3 Snap on impression sleeve.

4 Snap on impression sleeve.

5 Inject impression material.

6 Withdraw impression and sleeves.



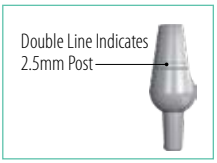
7 Assemble titanium posts and analogs.

8 Insert assembly into impression.

9 Pour a stone model.

NON-SHOULDERED ABUTMENTS 2.5mm Post

Description	Diameter	Height	Angle	Post	Part Number	
4.0 x 6.5mm 0° Abutment	4.0mm	6.5mm	0°	2.5mm	260-240-001	 0° 15°
4.0 x 6.5mm 15° Abutment	4.0mm	6.5mm	15°	2.5mm	260-240-015	
5.0 x 6.5mm 0° Abutment	5.0mm	6.5mm	0°	2.5mm	260-250-001	 0° 15°
5.0 x 6.5mm 15° Abutment	5.0mm	6.5mm	15°	2.5mm	260-250-015	
6.5 x 5.0mm 0° Abutment	6.5mm	5.0mm	0°	2.5mm	260-265-050	 0° 15°
6.5 x 5.0mm 15° Abutment	6.5mm	5.0mm	15°	2.5mm	260-265-055	

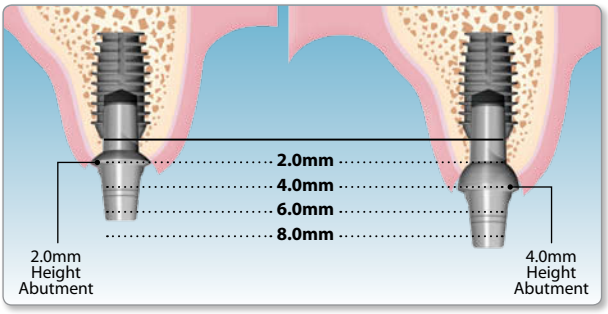


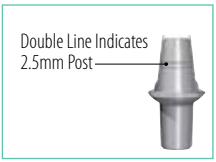
- For additional abutment sizes see page 15–16.
- The non-shouldered abutments are designed for PFM restorations and are useful for the IAC restorations.
- Non-shouldered abutments are fully "preppable" and may be modified intra-orally or extra-orally.
- Clinicians may make direct impressions of non-shouldered abutments or make indirect impressions with the use of an impression sleeve.
- See Complete Catalog for information on emergence cuffs, impression sleeves, and transfer dies that are available.

STEALTH ABUTMENTS* 2.5mm Post

bicon DENTAL IMPLANTS

Description	Diameter	Height	Angle	Post	Part Number	
4.0 x 1.5mm 0˚ Stealth Abutment	4.0mm	1.5mm	0˚	2.5mm	260-250-300	 0˚ 0˚
4.0 x 3.5mm 0˚ Stealth Abutment	4.0mm	3.5mm	0˚	2.5mm	260-250-400	
5.0 x 2.0mm 0˚ Stealth Abutment	5.0mm	2.0mm	0˚	2.5mm	260-250-301	 0˚ 10˚
5.0 x 2.0mm 10˚ Stealth Abutment	5.0mm	2.0mm	10˚	2.5mm	260-250-302	
5.0 x 4.0mm 0˚ Stealth Abutment	5.0mm	4.0mm	0˚	2.5mm	260-250-321	 0˚ 10˚
5.0 x 4.0mm 10˚ Stealth Abutment	5.0mm	4.0mm	10˚	2.5mm	260-250-322	





4.0mm 5.0mm

**Impression and Temporization Sleeves are packaged with each abutment.*

- For additional abutment sizes see page 17–18.
- Designed for PFM restorations, all ceramic restorations, and Cerec® crowns.
- Impression sleeves, aluminum oxide sleeves, and transfer dies are available.

TEMPORARY ABUTMENTS 2.5mm Post

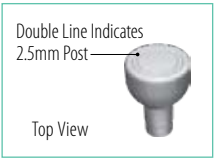
Temporary Abutments

Description	Diameter	Height	Post	Style	Part Number
4.0 x 4.5mm Temporary Abutment	4.0mm	4.5mm	2.5mm	Titanium	260-240-545
4.0 x 6.5mm Temporary Abutment	4.0mm	6.5mm	2.5mm	Titanium	260-240-565

4.0 x 4.5 4.0 x 6.5

5.0 x 4.5mm Temporary Abutment	5.0mm	4.5mm	2.5mm	Titanium	260-250-545
5.0 x 6.5mm Temporary Abutment	5.0mm	6.5mm	2.5mm	Titanium	260-250-565

5.0 x 4.5 5.0 x 6.5



Healing Abutments

Description	Diameter	Height	Post	Style	Part Number
4.0 x 5.0mm Healing Abutment	4.0mm	5.0mm	2.5mm	Plastic	260-240-525
5.0 x 5.0mm Healing Abutment	5.0mm	5.0mm	2.5mm	Plastic	260-250-525

4.0 x 5.0

5.0 x 5.0

- Temporary and Healing abutments are designed to help form and maintain a gingival sulcus on a temporary basis.
- Temporary and Healing abutments are designed for single stage surgical procedures.

BREVIS™ ABUTMENTS* 2.5mm Post

Description	Height	Angle	Post	Part Number
2.0mm 0˚ Brevis Abutment	2.0mm	0˚	2.5mm	260-250-424
2.0mm 15˚ Brevis Abutment	2.0mm	15˚	2.5mm	260-250-425
4.0mm 0˚ Brevis Abutment	4.0mm	0˚	2.5mm	260-250-426
4.0mm 15˚ Brevis Abutment	4.0mm	15˚	2.5mm	260-250-427

0˚ 15˚

0˚ 15˚

**Each abutment is packaged with a titanium housing and o-ring.*

- See Complete Catalog for additional abutment heights that are available.

Restorative Components

Description	Part Number
Brevis Abutment Chairside Kit	260-100-212
Brevis Impression Kit without Housing	260-100-218

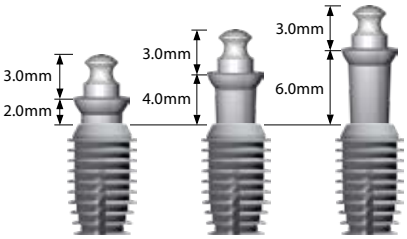
Rubber O-Ring

Brevis Housing

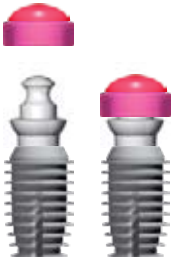
Impression Cap

Aluminum Transfer Die

BREVIS™



Measurement Guide



BICON SURGICAL KIT

Description	Part Number
Comprehensive Surgical Kit	260-101-098

Surgical Mallet

Silicone Dappen Dish

Healing Plug Cutter

- Advanced and Introductory Surgical Kits also available.

REGENERATIVE PRODUCTS

SynthoGraft™

Description	Particle Size	Grams per Vial	Vials	Part Number
SynthoGraft™ Pure Phase Beta-Tricalcium Phosphate	50-500µm Small	0.5g	5	260-400-150
SynthoGraft™ Pure Phase Beta-Tricalcium Phosphate	500-1000µm Large	0.5g	5	260-400-500

- SynthoGraft™ is also available in 0.25g, 1.0g, and 2.0g vials.

Resorbable Collagen Membrane

Description	Size	Part Number
Bicon Resorbable Collagen Membrane	15 x 20 x 0.3mm	260-509-600

- Membranes are also available in sizes of 20 x 30mm and 30 x 40mm.

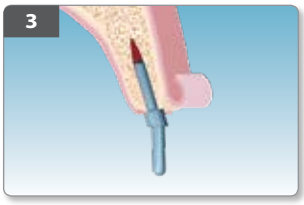
Resorbable Collagen Plug

Description	Size	Part Number
Resorbable Collagen Plug (10)	10 x 20mm	260-509-400

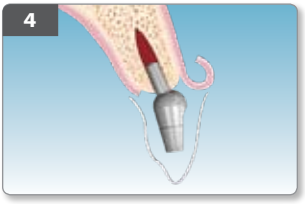
Two Stage Surgery Implant Insertion Technique

Extraction Site Scalloped

For the best emergence, drill a 2.0mm pilot hole (with external irrigation) 2.0mm deeper than the chosen implant length when adequate bone height is available.



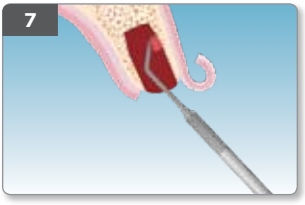
Use paralleling pins to facilitate alignment when placing multiple implants.



Place an abutment with a 2.0mm post into pilot hole and confirm appropriateness with a vacu-press template.

Widen socket with sequentially larger reamers **without irrigation** at a maximum of 50 RPM. In this case, a 4.5 x 8.0mm implant has been chosen so the final bur used also has a diameter of 4.5mm.

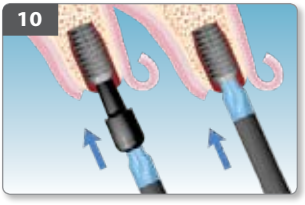
Place harvested autogenous bone, intermittently removed from the flutes of the reamer burs, into a silicone dappen dish for later use.



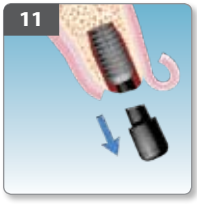
Harvest bone debris from reamer flutes and socket.

The implant's sterile blister pack is dropped onto a sterile tray prior to removing its Tyvek® backing before the implant's inner packaging is cut with a pair of scissors.

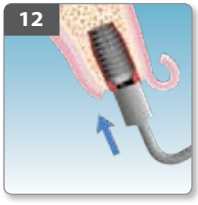
Remove implant from poly bag.



Seat implant by tapping gently on healing plug or directly into the implant well with an appropriate seating tip.



Cut healing plug. Ensure that no sharp edges remain that could irritate soft tissue.



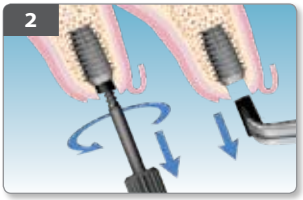
Place harvested bone graft over shoulder of implant. See Step #6 above.

Close and wait a minimum of ten to twelve weeks for osseointegration.

TWO STAGE SURGICAL TECHNIQUE

Implant Uncovering Technique and Placement of Abutment

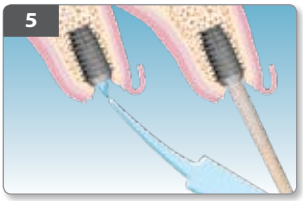
Expose the implant in aesthetic areas with a semilunar crestal incision.



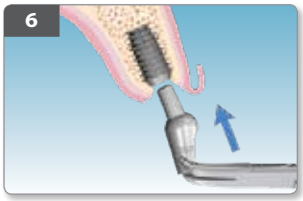
Remove healing plug with a healing plug removal instrument.

Place appropriate guide pin to check integration and angulation.

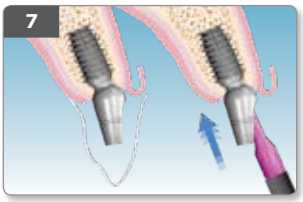
Remove excess bone with sulcus reamer corresponding to the chosen abutment with either threaded knob or straight handle.



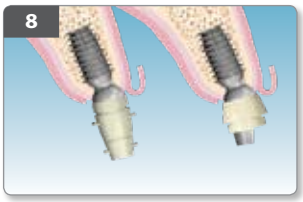
Flush and dry implant well with a cotton tip.



Insert chosen abutment.



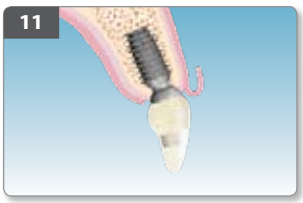
Use a template to confirm appropriateness of abutment prior to engagement of locking taper connection, then tap on abutment in long axis of abutment post to engage locking taper.



Place an emergence cuff or temporization sleeve onto abutment and modify, if necessary.

Inject acrylic around emergence cuff or temporization sleeve and into the vacu-press template.

Place template to form temporary crown.



Remove and polish acrylic confluent with emergence cuff or temporization sleeve to help form the gingival sulcus.

Wait for soft tissue healing prior to taking final impression.

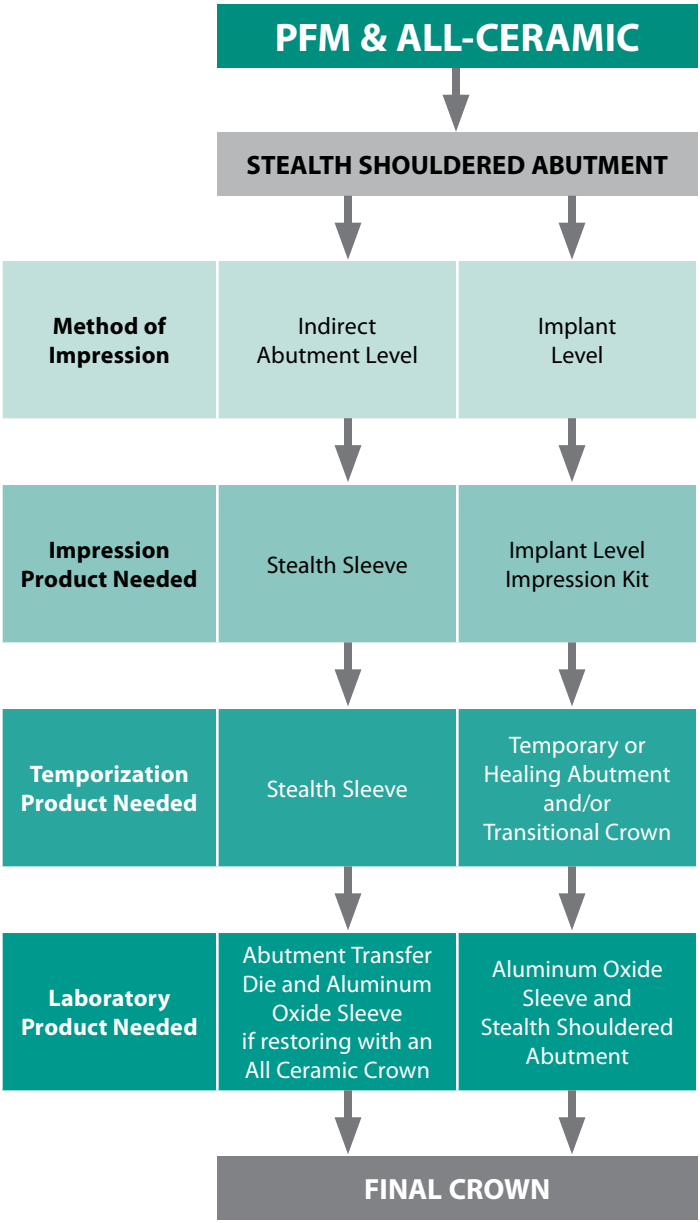
NON-SHOULDERED ABUTMENT RESTORATIONS

Porcelain Fused to Metal and Integrated Abutment Crown™

	PFM		PFM / IAC
	NON-SHOULDERED ABUTMENT		
Method of Impression	Direct Abutment Level	Indirect Abutment Level	Implant Level
Impression Product Needed	None	Impression Sleeve for Non-Shouldered Abutment	Implant Level Impression Kit
Temporization Product Needed	Emergence Cuff or Temporization Sleeve for Non-Shouldered Abutment	Temporization Sleeve for Non-Shouldered Abutment	Temporary or Healing Abutment and/or Transitional Crown
Laboratory Product Needed	None	Abutment Transfer Die and Waxing Sleeve for Non-Shouldered Abutment	Non-Shouldered or Laboratory Abutment
	FINAL CROWN		

STEALTH ABUTMENT RESTORATIONS

Porcelain Fused to Metal and All-Ceramic



TEMPORIZATION OPTIONS

OPTION ONE: TRANSITIONAL RESTORATION WITH SLEEVE

1 Insert appropriate non-shouldered or stealth shouldered abutment. The diameter of the abutment is dictated by the anatomy of the interdental papillae. The abutment should support the papillae without encroaching upon them.

2 Tap the abutment in the long axis of the abutment post and implant well.

3 Orientate the internal flat(s) of the appropriate temporization sleeve with the external flat(s) of the abutment prior to snapping it onto the abutment.

4 Confirm the appropriateness of the temporization sleeve with a vacuum formed template. Adjust the sleeve as necessary.

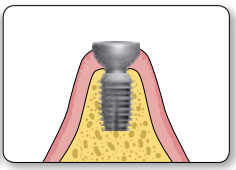
5 Inject transitional crown material around the temporization sleeve.

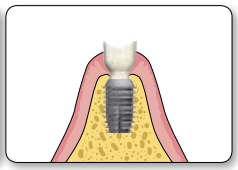
6 Inject transitional material into the vacuum-formed template prior to re-inserting it over the temporization sleeve to form a transitional prosthesis.

7 Remove transitional prosthesis for polishing.

8 Snap the completed transitional prosthesis onto the abutment to facilitate the formation and preservation of an aesthetic soft tissue emergence profile.

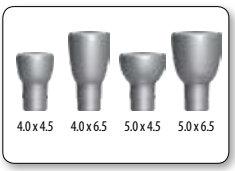
OPTION TWO: TEMPORIZATION WITH A TEMPORARY OR HEALING ABUTMENT





At the time of uncovering, place a titanium temporary abutment or a plastic healing abutment. These abutments will support the soft tissue and assist in the formation of the gingival sulcus. Either abutment may be modified to achieve a desired gingival contour. Transitional crowns should not be placed on temporary or healing abutments. See Bicon catalogs for a complete listing of abutment sizes and shapes that are available.

OPTION THREE: A TRANSITIONAL PROSTHESIS IN THE AESTHETIC ZONE



1 Choose appropriately sized temporary or healing abutment. See Option #2 above.

2 Insert temporary or healing abutment into the implant well and gently seat the abutment by tapping on the head of the abutment. Removal of the abutment may be achieved with a variety of extraction forceps.

3 In aesthetic areas, a flipper may be inserted for aesthetics and function while tissue is healing around the temporary abutments.

4 View of inserted provisional restoration.

IMPRESSION OPTIONS

OPTION ONE: IMPLANT LEVEL IMPRESSION

1 Choose the appropriately sized titanium impression post according to the diameter of the implant well.

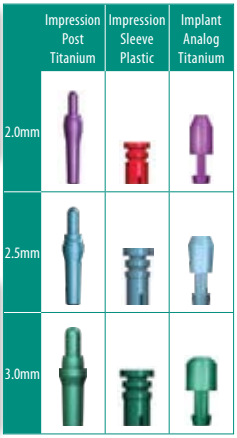
2 Insert the titanium impression post into the well of the implant with finger pressure only.

3 Snap the appropriate impression sleeve onto the impression post.

4 Inject impression material around the plastic impression sleeve and make impression.

5 After making the impression, plastic impression sleeve should be withdrawn within the impression while titanium post remains in the implant well.

6 Remove titanium impression post from implant. Assemble the post with the appropriate implant analog. Insert this unit into the plastic sleeve in the impression. Pour soft tissue model. The laboratory technician may now choose the proper abutment for a PFM or IAC restoration.



OPTION TWO: DIRECT ABUTMENT LEVEL IMPRESSION

1 Choose an appropriately sized abutment and definitively seat the abutment with a gentle tapping force.

2 The abutment may be modified intra-orally with irrigation or extra-orally with a #1557 carbide bur, if necessary.

3 Inject impression material around abutment for a direct impression. Pour a stone model.

4 Fabricate crown conventionally at laboratory. Insert crown with minimal cement.

OPTION THREE: INDIRECT ABUTMENT LEVEL IMPRESSION

1 Definitively seat the abutment with a gentle tapping force. Snap impression sleeves onto the unmodified abutment.

2 Inject impression material around the impression sleeves and make impression.

3 Withdraw the plastic impression sleeves in the impression. Choose appropriately sized aluminum transfer die and insert the die into the plastic sleeve.

4 Pour a soft tissue model. Fabricate crowns conventionally. See Bicon Technique Manuals for further information on this procedure.

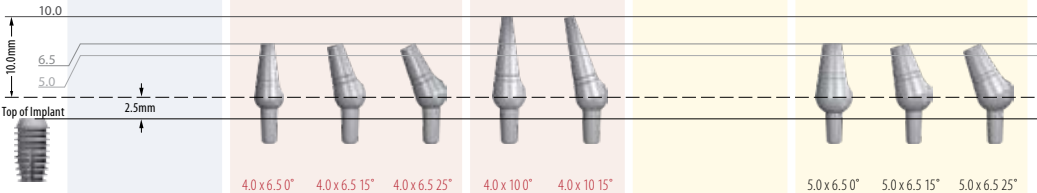
NON-SHOULDERED ABUTMENT

3.5mm Diameter		4.0mm Diameter					5.0mm				
0°	15°	0°	15°	25°	0°	15°	0°	15°	0°	15°	25°

MAX 2.5™

MAXILLARY ANTERIOR IMPLANTS

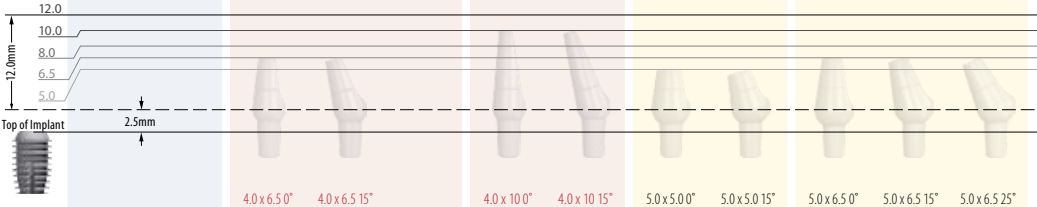
2.5mm Post



		4.0 x 6.5 0° 260-240-001	4.0 x 6.5 15° 260-240-015	4.0 x 6.5 25° 260-240-025	4.0 x 10 0° 260-240-101	4.0 x 10 15° 260-240-115	5.0 x 6.5 0° 260-250-001	5.0 x 6.5 15° 260-250-015	5.0 x 6.5 25° 260-250-025

SHORT™ IMPLANTS

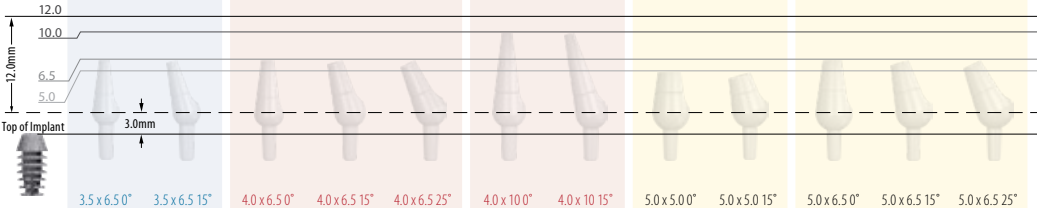
3.0mm Post



		4.0 x 6.5 0° 260-340-001	4.0 x 6.5 15° 260-340-015		4.0 x 10 0° 260-340-101	4.0 x 10 15° 260-340-115	5.0 x 5.0 0° 260-350-050	5.0 x 5.0 15° 260-350-055	5.0 x 6.5 0° 260-350-001	5.0 x 6.5 15° 260-350-015	5.0 x 6.5 25° 260-350-025

NARROW™ IMPLANTS

2.0mm Post

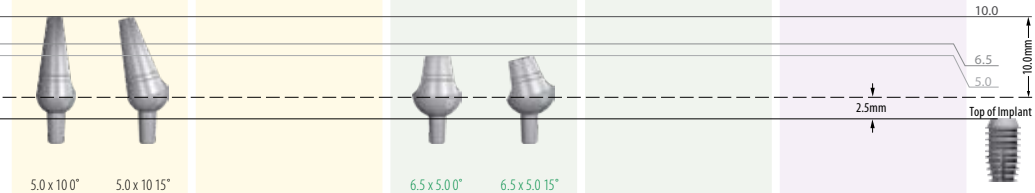


3.5 x 6.5 0° 260-135-001	3.5 x 6.5 15° 260-135-015	4.0 x 6.5 0° 260-140-002	4.0 x 6.5 15° 260-140-015	4.0 x 6.5 25° 260-140-025	4.0 x 10 0° 260-140-101	4.0 x 10 15° 260-140-115	5.0 x 5.0 0° 260-150-050	5.0 x 5.0 15° 260-150-055	5.0 x 6.5 0° 260-150-001	5.0 x 6.5 15° 260-150-015	5.0 x 6.5 25° 260-150-025

SELECTION GUIDE

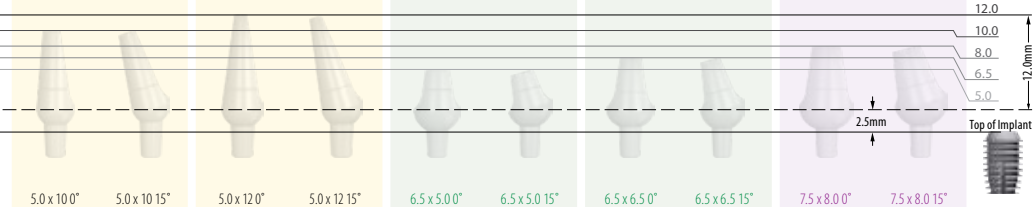
Diameter				6.5mm Diameter				7.5mm Diameter	
0°	15°	0°	15°	0°	15°	0°	15°	0°	15°

2.5mm Post



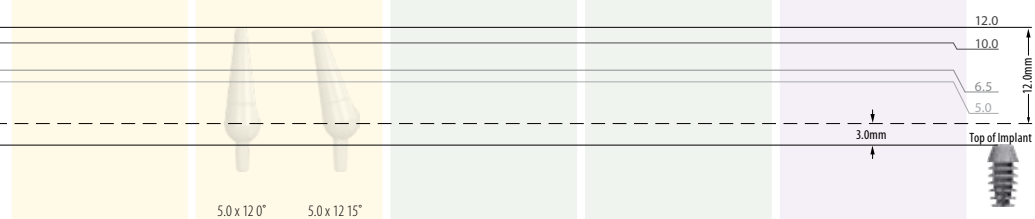
0°	15°	0°	15°	0°	15°	0°	15°	0°	15°
5.0 x 10 0° 260-250-111	5.0 x 10 15° 260-250-115			6.5 x 5.0 0° 260-265-050	6.5 x 5.0 15° 260-265-055				

3.0mm Post



0°	15°	0°	15°	0°	15°	0°	15°	0°	15°
5.0 x 10 0° 260-350-101	5.0 x 10 15° 260-350-115	5.0 x 12 0° 260-350-201	5.0 x 12 15° 260-350-215	6.5 x 5.0 0° 260-365-050	6.5 x 5.0 15° 260-365-055	6.5 x 6.5 0° 260-365-001	6.5 x 6.5 15° 260-365-015	7.5 x 8.0 0° 260-375-801	7.5 x 8.0 15° 260-375-815

2.0mm Post



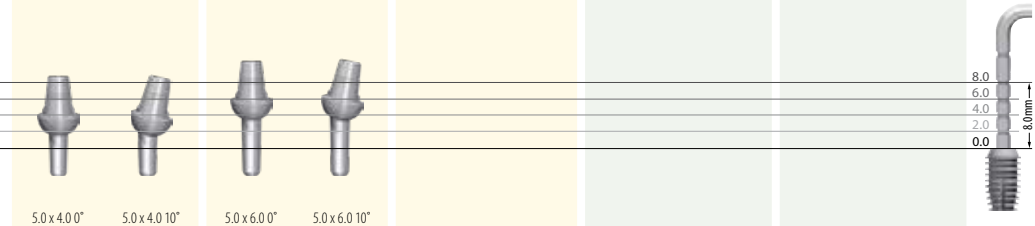
0°	15°	0°	15°	0°	15°	0°	15°	0°	15°
		5.0 x 12 0° 260-150-201	5.0 x 12 15° 260-150-215						

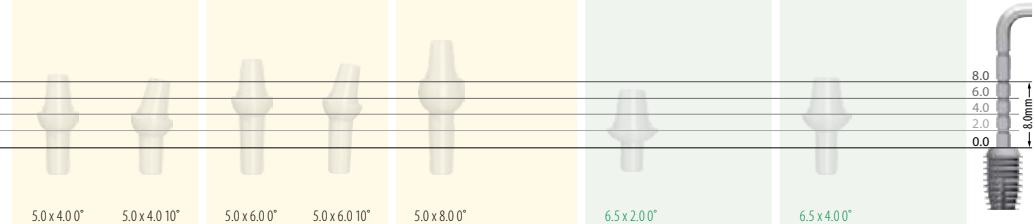
STEALTH SHOULDERED ABUTMENT

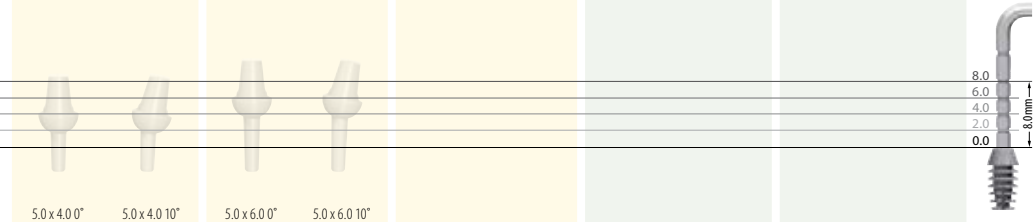
	3.5mm Diameter		4.0mm Diameter				5.0mm			
	0°	10°	0°	10°	0°	10°	0°	10°	0°	10°
MAX 2.5™ MAXILLARY ANTERIOR IMPLANTS			2.5mm Post							
8.0mm (8.0 / 6.0 / 4.0 / 2.0 / 0.0)			4.0 x 1.5 0° 260-250-300		4.0 x 3.5 0° 260-250-400		5.0 x 2.0 0° 260-250-301	5.0 x 2.0 10° 260-250-302	5.0 x 3.0 0° 260-250-311	5.0 x 3.0 10° 260-250-312
SHORT™ IMPLANTS			3.0mm Post							
8.0mm (8.0 / 6.0 / 4.0 / 2.0 / 0.0)			4.0 x 1.5 0° 260-300-300		4.0 x 3.5 0° 260-300-400		5.0 x 2.0 0° 260-300-301	5.0 x 2.0 10° 260-300-302	5.0 x 3.0 0° 260-300-311	5.0 x 3.0 10° 260-300-312
NARROW™ IMPLANTS			2.0mm Post							
8.0mm (8.0 / 6.0 / 4.0 / 2.0 / 0.0)	3.5 x 1.5 0° 260-200-150		4.0 x 1.5 0° 260-200-200		4.0 x 3.5 0° 260-200-400		5.0 x 2.0 0° 260-200-201	5.0 x 2.0 10° 260-200-202		

SELECTION GUIDE

Diameter						6.5mm Diameter			
0°	10°	0°	10°	0°	10°	0°	10°	0°	15°
2.5mm Post									
5.0 x 4.0 0° 260-250-321	5.0 x 4.0 10° 260-250-322	5.0 x 6.0 0° 260-250-341	5.0 x 6.0 10° 260-250-342						
3.0mm Post									
5.0 x 4.0 0° 260-300-321	5.0 x 4.0 10° 260-300-322	5.0 x 6.0 0° 260-300-341	5.0 x 6.0 10° 260-300-342	5.0 x 8.0 0° 260-300-361		6.5 x 2.0 0° 260-300-601		6.5 x 4.0 0° 260-300-621	
2.0mm Post									
5.0 x 4.0 0° 260-200-221	5.0 x 4.0 10° 260-200-222	5.0 x 6.0 0° 260-200-241	5.0 x 6.0 10° 260-200-242						







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