

Challenge Series

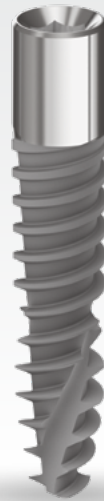
Variety of Innovative Solutions



PteryCore



Zygomatic



PteryFit



NORIS Medical
Dental Implant Solutions

CHALLENGE SERIES IMPLANTS INDEX



PTERYGIOD & ZYGOMATIC IMPLANTS	NAME	PteryCore	PteryFit	Zygomatic
	BONE TYPES	Pterygoid Region		Zygomatic Region
	PROSTHETICS PLATFORM	Internal Hex		
	DESIGN FEATURES	<ul style="list-style-type: none"> • Large cutting surface area • Tapered thread and tapered core body • Wide and sharp threads • Machined surface and reduced diameter "neck" 	<ul style="list-style-type: none"> • Condensing variable threads design • Apically tapered threads and tapered core body • Double thread with large step • Double flutes • Machined surface "neck" 	<ul style="list-style-type: none"> • Threaded portion: <ul style="list-style-type: none"> * 13mm length * Condensing variable threads design * Apically tapered threads and tapered • Core body <ul style="list-style-type: none"> * Double thread with large step * Double flutes • Long machined surface "neck"
	CLINICAL BENEFITS	<ul style="list-style-type: none"> • For pterygomaxillary region (posterior region of the atrophic maxilla) • Self tapping • High primary stability • Reduces adherence of perio-pathogens thus minimizes the chances for inflammation • Reduced pressure on "neck" portion 	<ul style="list-style-type: none"> • For pterygomaxillary region (posterior region of the atrophic maxilla) • Self tapping • High primary stability • Fast insertion • Reduces adherence of perio-pathogens thus minimizes the chances for inflammation • Reduced pressure on "neck" portion 	<ul style="list-style-type: none"> • For zygomatic region of the atrophic maxilla • Self tapping • High primary stability • Reduce adherence of perio-pathogens = Reduces the chance for inflammation

CHALLENGE SERIES

Noris Medical believes that today more than ever we need to change our approach, from a localized solution to a global one, which addresses the full range of needs of both clinicians and their patients.

Out of this vision, we developed a solution for optimal and immediate rehabilitation of atrophic jaws that enables the patient to forgo lengthy and complex bone grafting.

Using Zygomatic and Pterygoid implants in immediate placement and reconstruction protocols provide a viable solution to a rapidly growing number of patients.

We understand that this new procedure can present challenges to the clinician. Our offer, thus, is not limited to our implants but includes a range of reconstruction components and instruments, as well as training and support provided throughout the complete implant procedure.

This way Noris Medical enables the clinician to extend the range of services and provide a solution for all patients.

LEAVE NO PATIENT BEHIND

RECOMMENDED DRILL PROTOCOL

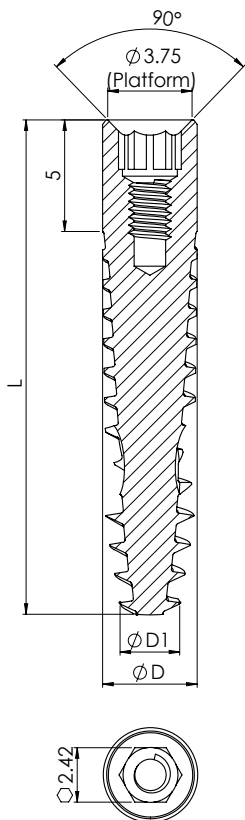
IMPLANT DIAMETER	Drill Diameter [mm]	Osteotome	Ø2.3	Ø2.8
	Drill Speed [RPM]		900-1200	800-1000
	Ø4.2	All Bone Types	1/2 	

Drill osteotomy to implant length

Drill osteotomy partially according to implant length

Prior to the use of Pteryfit/Pterycore implants in the Pterygoid regions, additional training is recommended.

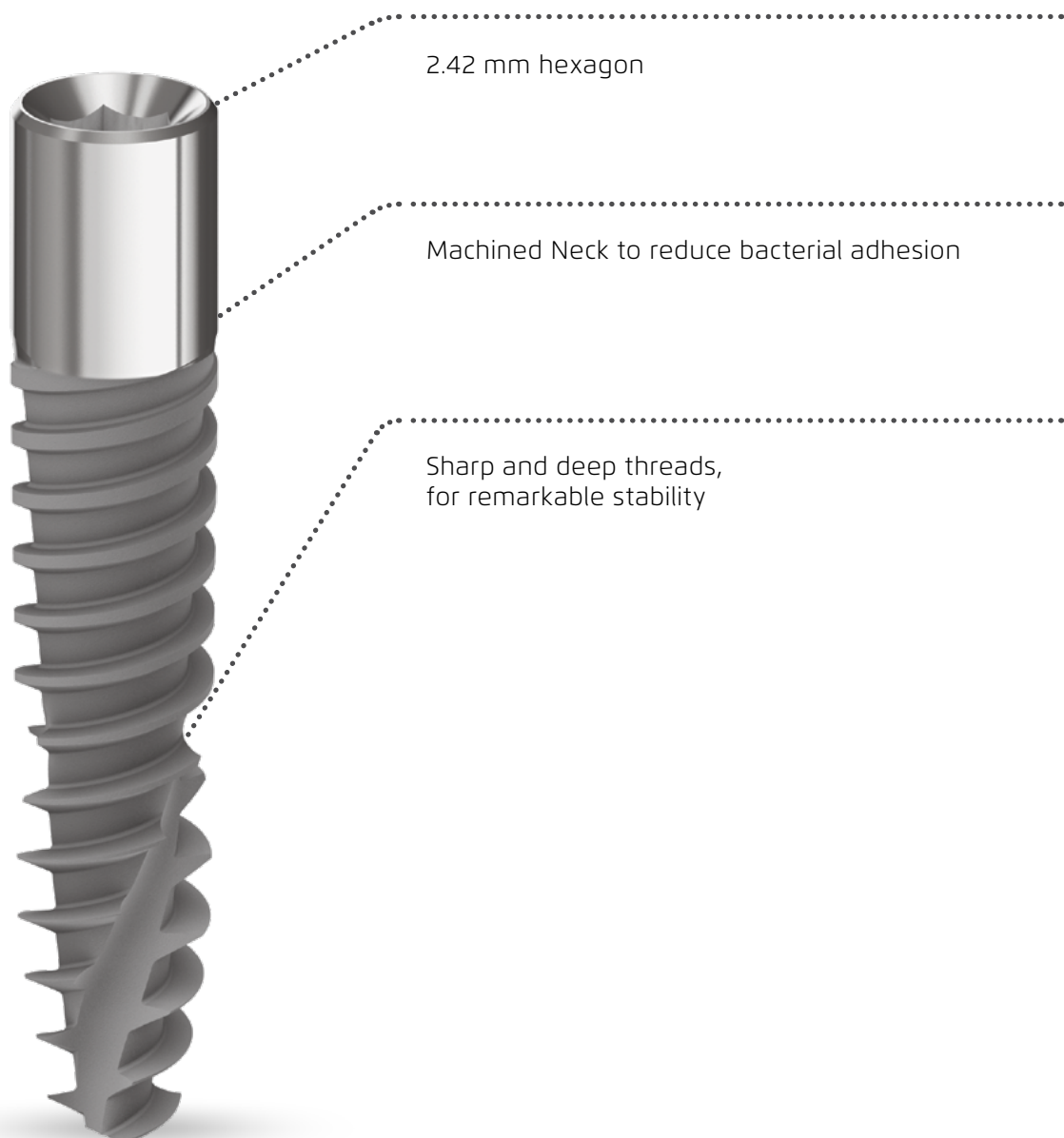
ORDERING INFORMATION



Ø D (mm)	Ø D1 (mm)	L (mm)	Item
4.2	2.5	18	NMAF4218
		20	NMAF4220
		22.5	NMAF4222
		25	NMAF4225
Cover Screw Included with all implants			NM-S5023

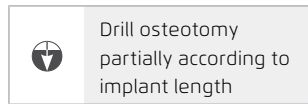
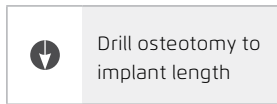
CHALLENGE SERIES | PTERYFIT™

BONE TYPES	Pterygoid Region
PROSTHETICS PLATFORM	Internal hex
DESIGN FEATURES	<ul style="list-style-type: none">• Condensing variable threads design• Apically tapered threads and tapered core body• Double thread with large step• Double flutes• Machined surface "neck"
CLINICAL BENEFITS	<ul style="list-style-type: none">• For pterygomaxillary region (posterior region of the atrophic maxilla)• Self tapping• High primary stability• Fast insertion• Reduces adherence of perio-pathogens thus minimizes the chances for inflammation• Reduced pressure on "neck" portion



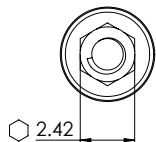
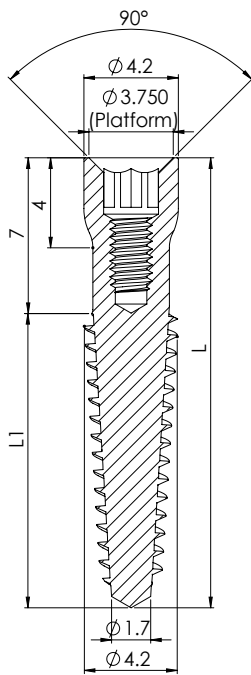
RECOMMENDED DRILL PROTOCOL

IMPLANT DIAMETER	Drill Diameter [mm]	Osteotome	Ø2.3	Ø2.8
	Drill Speed [RPM]		900-1200	800-1000
	Ø4.2	All Bone Types	1/2 	



Prior to the use of Pteryfit/Pterycore implants in the Pterygoid regions, additional training is recommended.

ORDERING INFORMATION



Ø D (mm)	Ø D1 (mm)	L (mm)	Item
4.2	2.5	18	NM-M4218
		20	NM-M4220
		22	NM-M4222
		25	NM-M4225

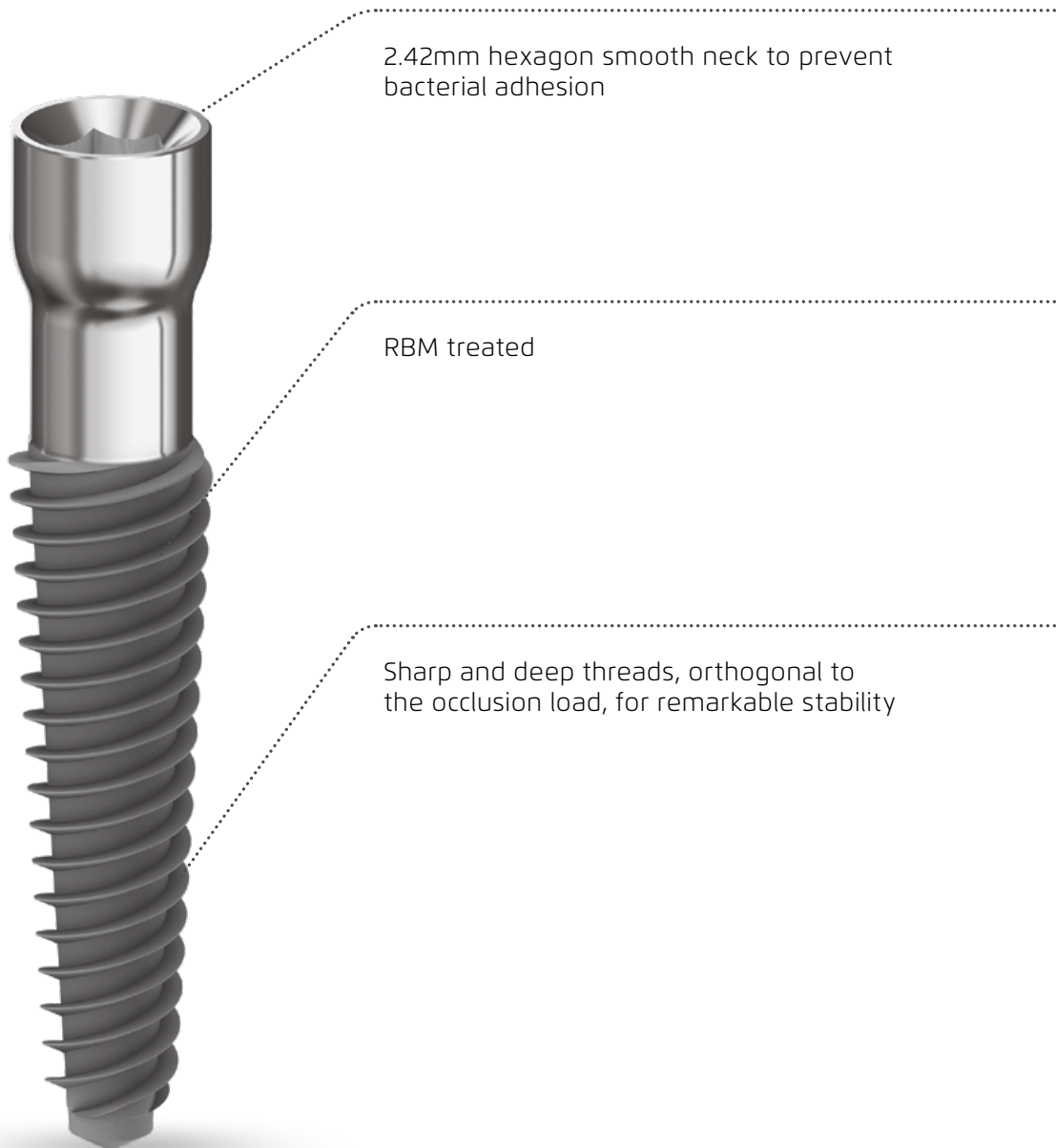
Cover Screw Included with all implants



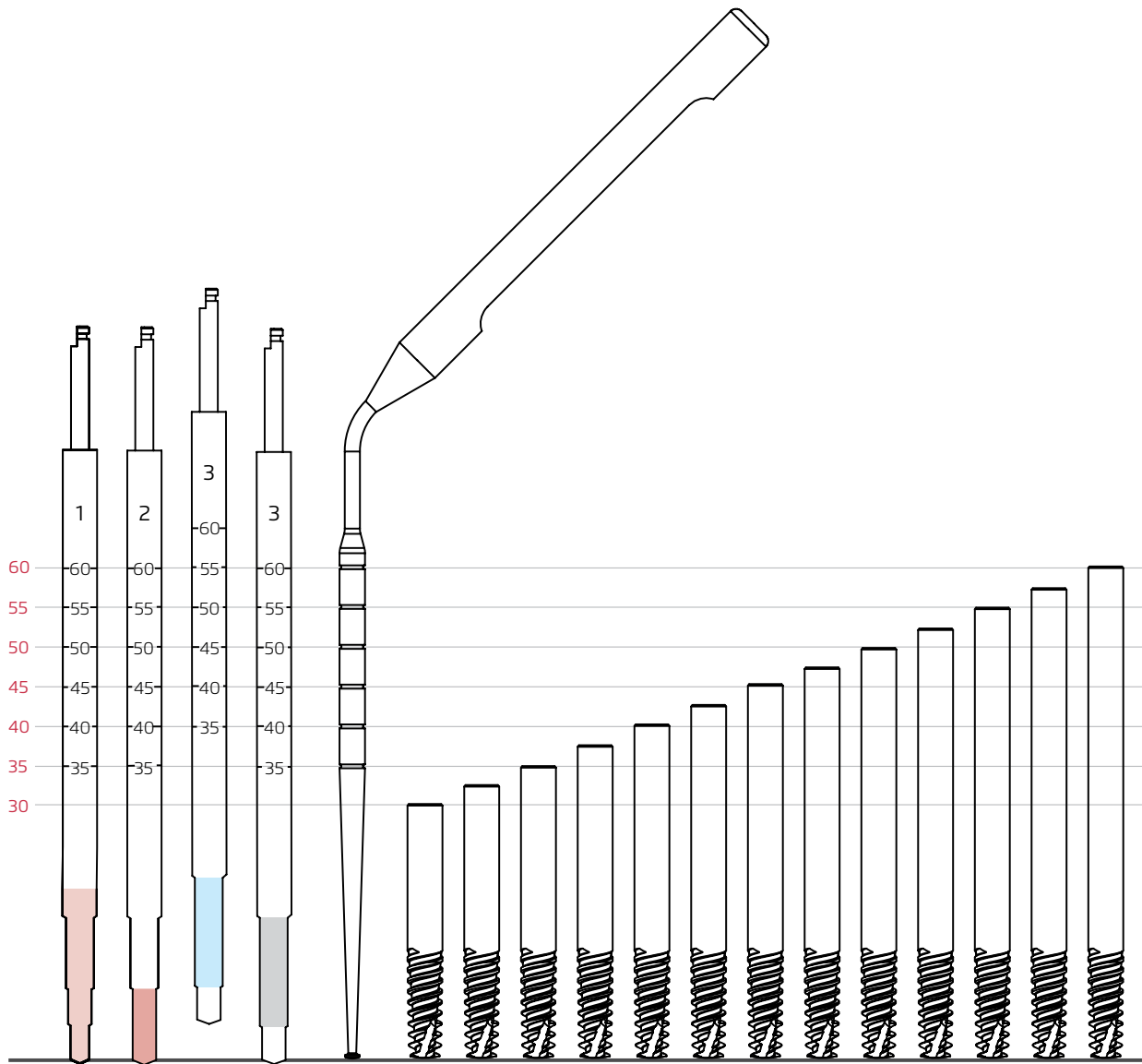
NM-S5023

CHALLENGE SERIES | PTERYCORE™

BONE TYPES	Pterygoid Region
PROSTHETICS PLATFORM	Internal hex
DESIGN FEATURES	<ul style="list-style-type: none">• Large cutting surface area• Tapered thread and tapered core body• Wide and sharp threads• Machined surface and reduced diameter "neck"
CLINICAL BENEFITS	<ul style="list-style-type: none">• For pterygomaxillary region (posterior region of the atrophic maxilla)• Self tapping• High primary stability• Reduces adherence of perio-pathogens thus minimizes the chances for inflammation• Reduced pressure on "neck" portion



DRILLING SEQUENCE



RECOMMENDED DRILL PROTOCOL

IMPLANT DIAMETER	Drill Diameter [mm]	1	2	3
	Drill Speed [RPM]			
	Bone Type			
Ø4.2	D4	↓		
	D3	↓	→ ↓	
	D2	↓	→ ↓	→ ↓ (-5mm)
	D1	↓	→ ↓	→ ↓

↓

Drill osteotomy to implant length

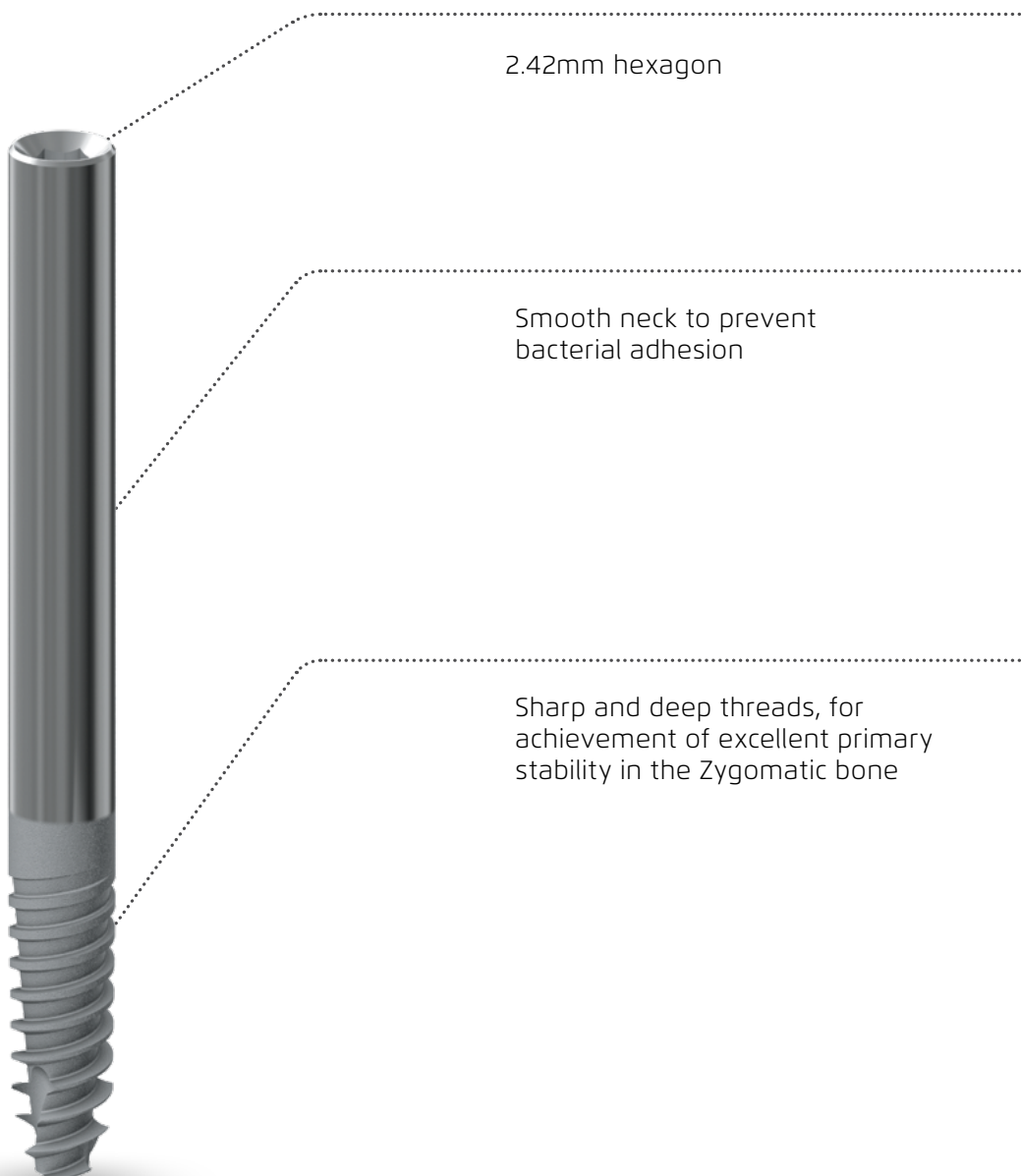
↓
-5mm

Drill 5mm Less

Prior to the use of Zygomatic implants in the Zygoma region, additional training is recommended.

CHALLENGE SERIES | ZYGOMATIC™

BONE TYPES	Zygomatic Region
PROSTHETICS PLATFORM	Internal Hex
DESIGN FEATURES	<ul style="list-style-type: none">• Threaded portion:<ul style="list-style-type: none">* 13mm Length* Condensing Variable Threads Design* Apically Tapered Threads and Tapered Core Body* Double thread with Large Step* Double Flutes• Long Machined Surface "Neck"
CLINICAL BENEFITS	<ul style="list-style-type: none">• For Zygomatic region of the atrophic Maxilla• Self Tapping• High Primary Stability• Reduce adherence of Perio-Pathogens = reduces the chance for inflammation



CLINICAL CASE

Treatment of the Severely Atrophic Arch with Zygomatic, Pterygoid, and Vomer Dental Implants

By **Dan Holtzclaw, DDS, MS**

Diplomate, American Board of Periodontology
Diplomate, International Congress of Oral Implantologists

A 64 year old male presented to the author's practice with hopes of getting rid of his maxillary denture. He had been wearing this denture for approximately 5 years and had been told by other dentists that he had too much bone loss for dental implants in the maxillary arch. Using a variety of dental implants from Noris Medical, the author was able to provide the patient with an immediately loaded fixed prosthetic solution that required no bone grafting.

Noris Medical Pteryfit™ implants were bilaterally placed into the pterygomaxillary complex for terminal prosthetic support while a pair of Noris Medical Zygomatic Implants were placed for mid-arch support. Anteriorly, support was achieved with a Noris Medical Tuff implant engaging the Vomer. The mandible was restored in the standard full arch fashion using Noris Medical Tuff implants. This case was immediately loaded and a final restoration was delivered six months after the initial surgery.

KEY TAKEAWAYS

Noris Medical Pteryfit™ implants are specifically designed to engage to the pterygomaxillary complex and allow for immediately loading protocols.

Noris Medical Zygomatic implants have a unique design especially suited for extra-sinus surgical approaches. The aggressive rough surfaced end cutting tip and smooth mid-coronal shaft make this implant an ideal fixture for treating cases with severe maxillary bone loss.

The Noris Medical line of dental implants are particularly suited for treatment of cases with severe bone loss. Furthermore, with 0, 17, 30, 45, 52, and 60 degree abutments, Noris Medical has one of the widest selection of prosthetic platforms in the industry.



1. Patient before treatment. The patient had been wearing an upper denture and bone atrophy was significant. The mandible had many missing, ailing, and failing teeth.



2. Patient after treatment with zygomatic, pterygoid, vomer, and standard dental implants.

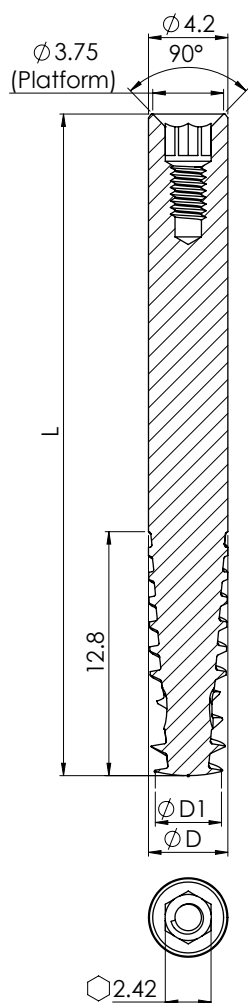


3. Pre-treatment panoramic radiograph showing pneumatized maxillary sinuses, failing mandibular teeth, etc.



4. Intraoral condition of maxilla before surgery.

ORDERING INFORMATION

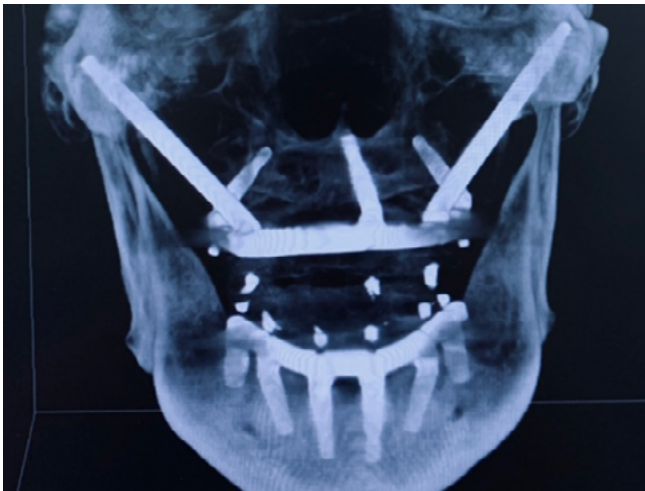


\varnothing D (mm)	\varnothing D1 (mm)	L (mm)	Item
4.2	3.5	30	NM-F4430
		32.5	NM-F4432
		35	NM-F4435
		37.5	NM-F4437
		40	NM-F4440
		42.5	NM-F4442
		45	NM-F4445
		47.5	NM-F4447
		50	NM-F4450
		52.5	NM-F4452
		55	NM-F4455
		57.5	NM-F4457
		60	NM-F4460

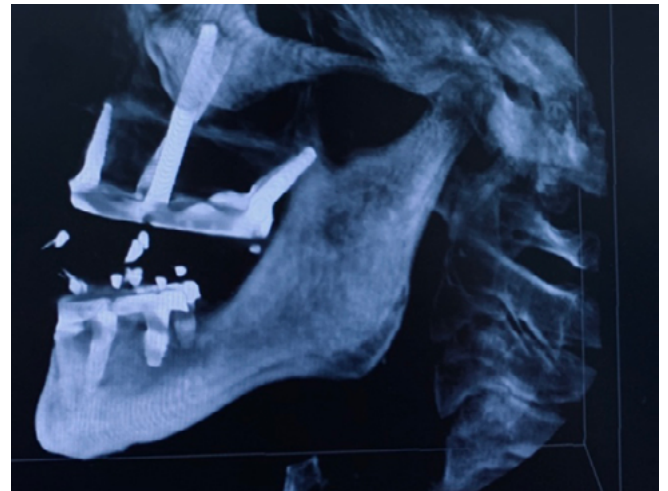
Cover Screw Included with all implants



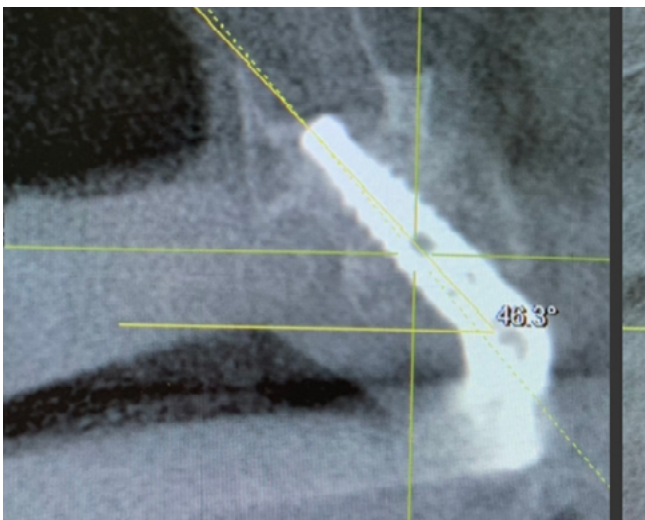
NM-S5023



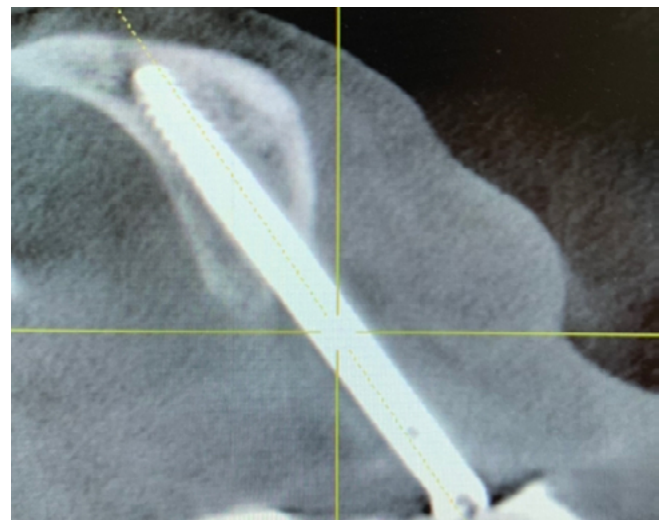
11. CBCT scan (cranial view) of restored case with zygomatic, pterygoid, vomer, and standard dental implants.



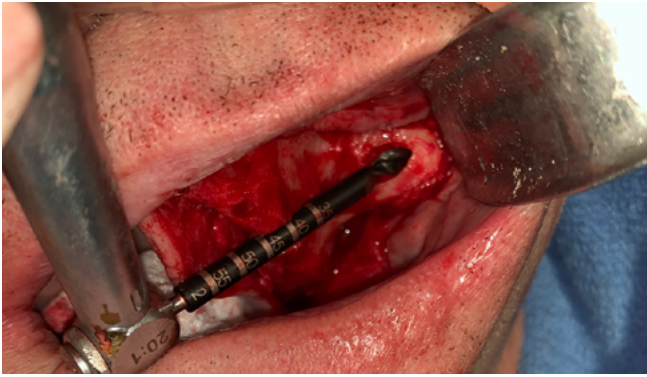
12. Lateral CBCT scan of restored case with zygomatic, pterygoid, vomer, and standard dental implants.



13. CBCT scan of Noris Medical® Pteryfit™ implant engaging the pterygomaxillary complex.



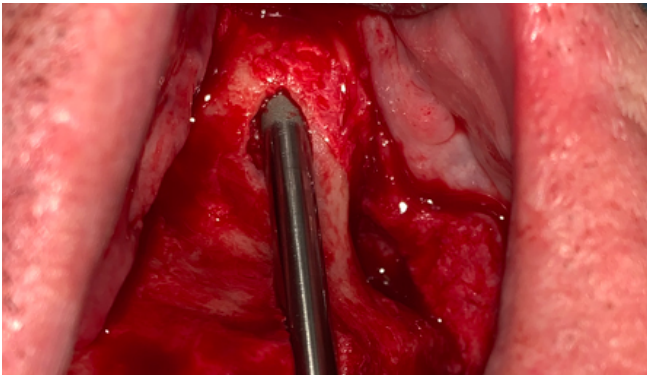
14. CBCT scan of Noris Medical™ zygomatic implant engaging the zygoma.



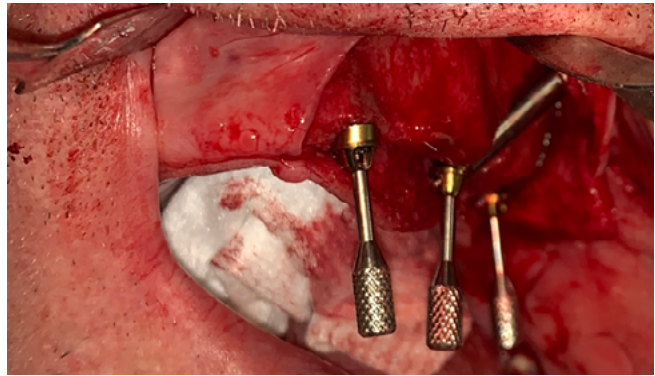
5. Extra-sinus drilling technique for the placement of Noris Medical® zygomatic implants.



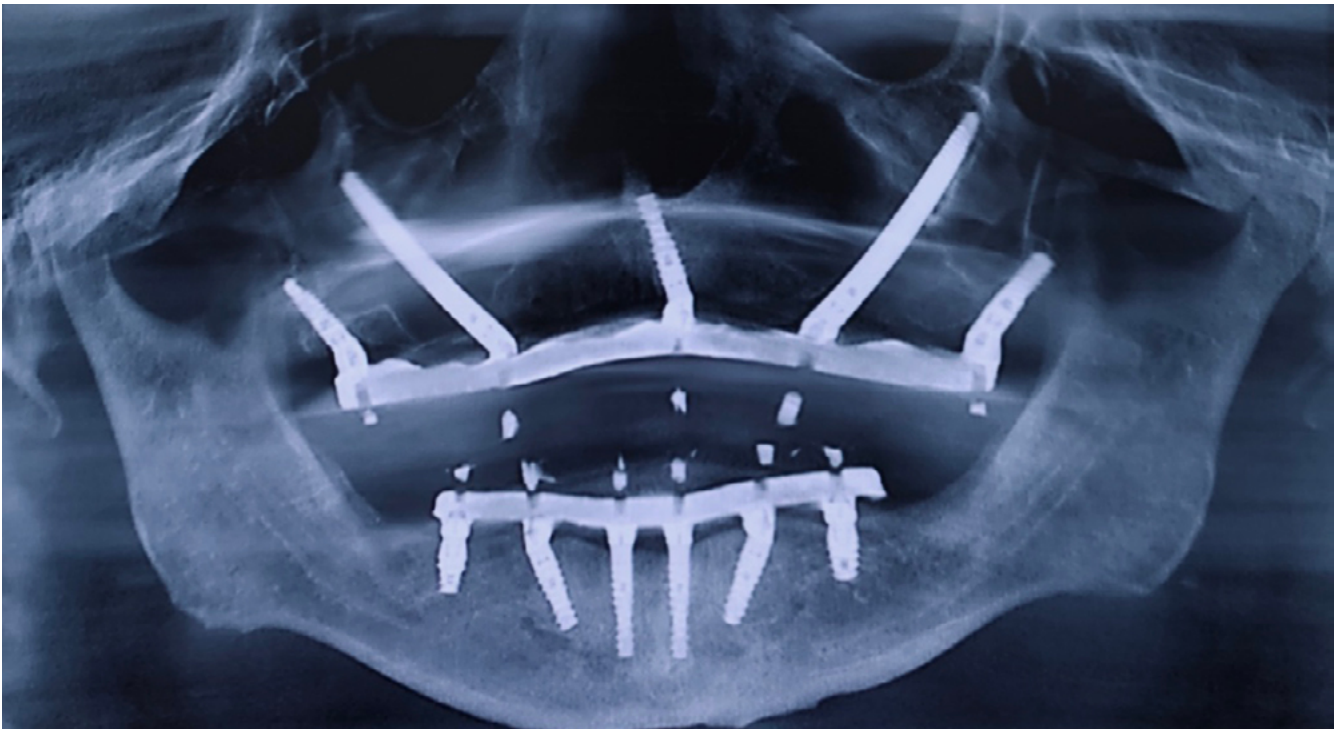
6. Noris Medical® zygomatic implant. (45mm).



7. Placement of Noris Medical® zygomatic implant using the extra-sinus approach.



8. Noris Medical® Tuff™ implants, zygomatic implants, and Pteryfit™ implants with 17°, 30°, and 45° abutments in place. Note the parallelism achieved due to the wide abutment selection.



10. Final radiograph after treatment. Maxilla was restored with Noris Medical® Tuff™ implants, Zygomatic implants, and Pteryfit™ implants while the mandible was restored with Noris Medical® Tuff™ implants.

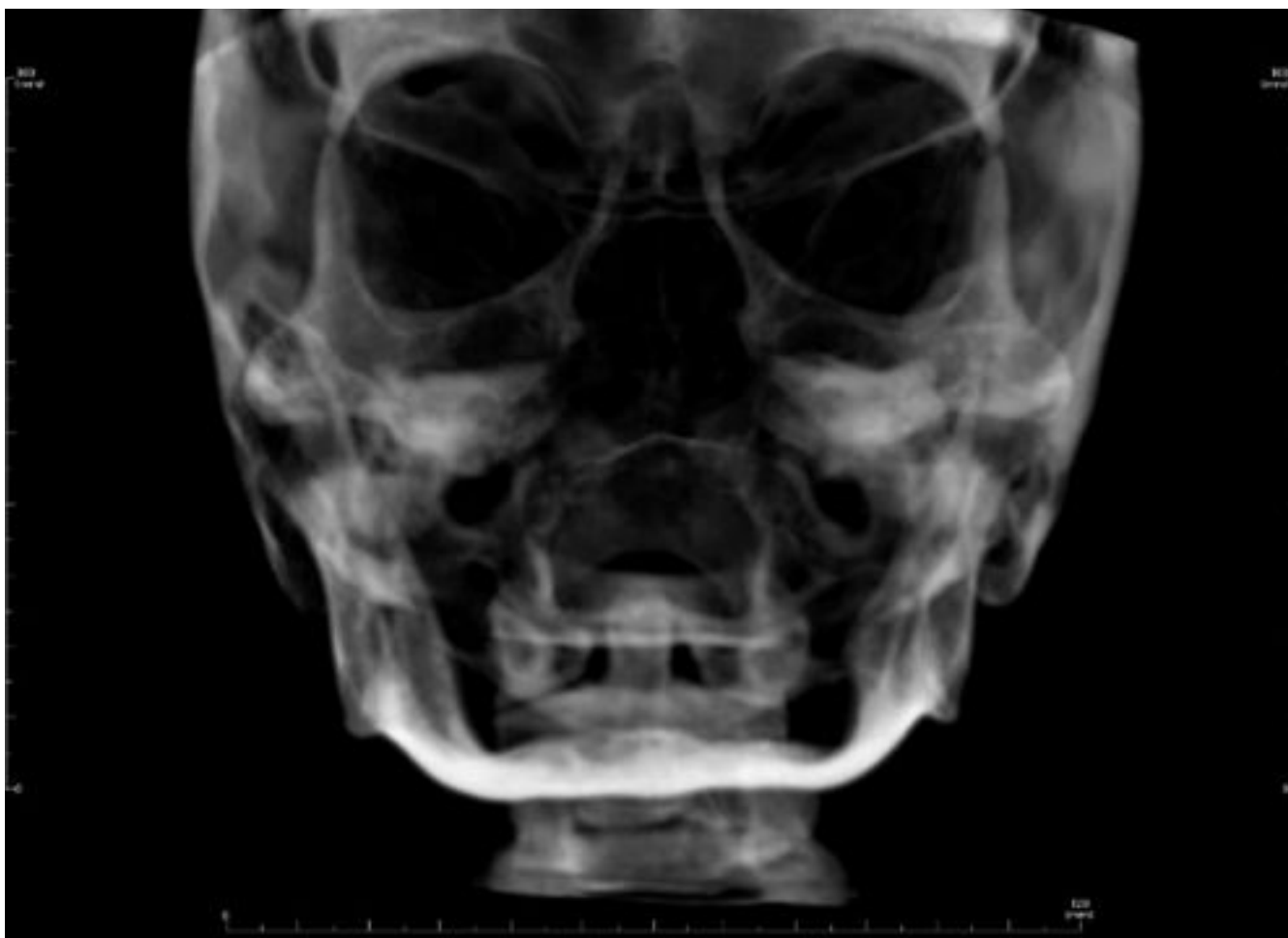


Free-Hand Zygomatic Implant Surgery with Immediate Loading

By **Dr. Francesco Grecchi, DDS**

The patient showed total edentulism associated with severely atrophic jaw, significant deficit of vertical dimension, and class III intermaxillary relation resulting from the loss of dental elements.

Zygomatic and traditional implants were placed and immediately loaded with a screw-retained prosthesis (Toronto Bridge).



We Can Make You
Smile



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