

Craniomaxillofacial

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1: Holck, D., Foster J., and Dahl T., "Custom Shaped Porous Polyethylene-Titanium Mesh Orbital Implants for Internal Orbital Floor/Medial-Wall Fracture Repair" ASOPRS 37th Annual Fall Scientific Syllabus, pp190, November 15-16, 2006

Literature Number: CMF_BR_92-REV. 2_22951

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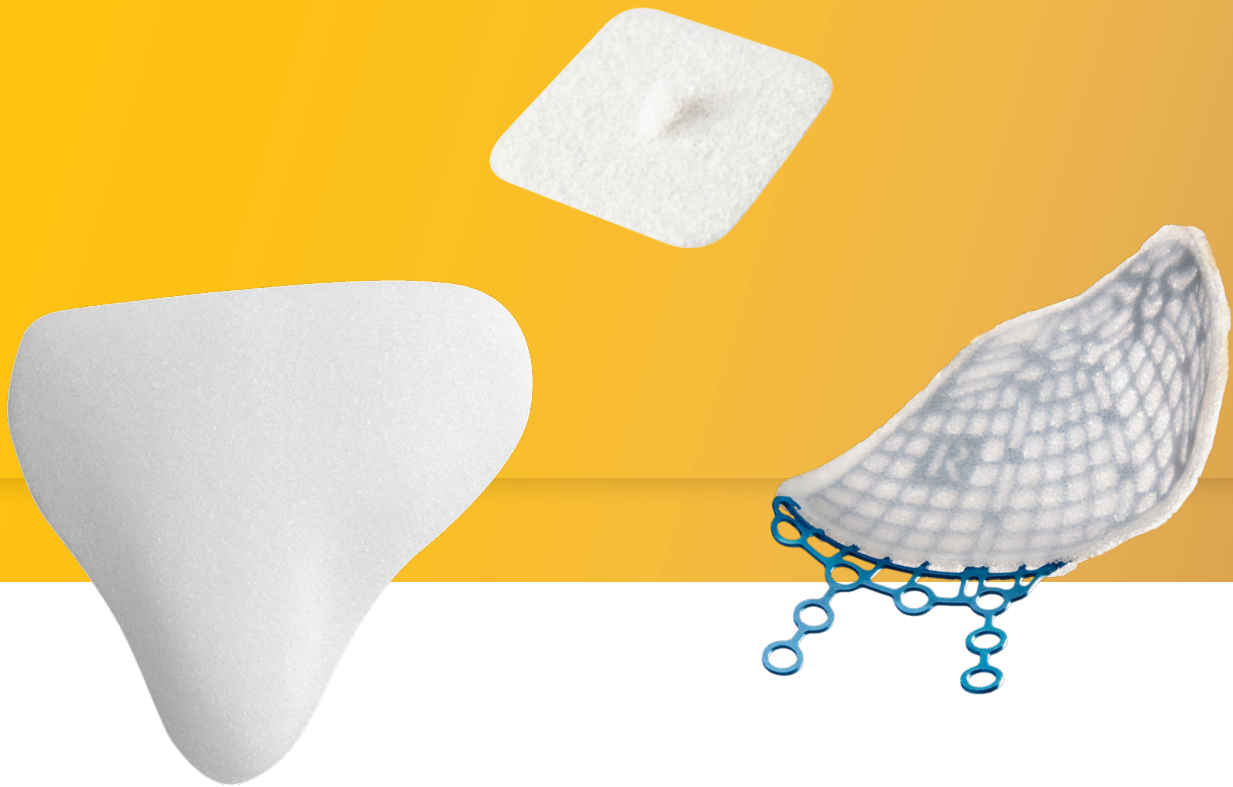
Printed in the USA

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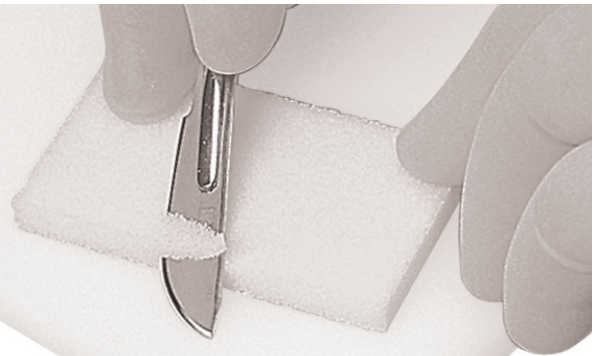
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MEDPOR[®]

ENT surgery



MEDPOR[®] biomaterial

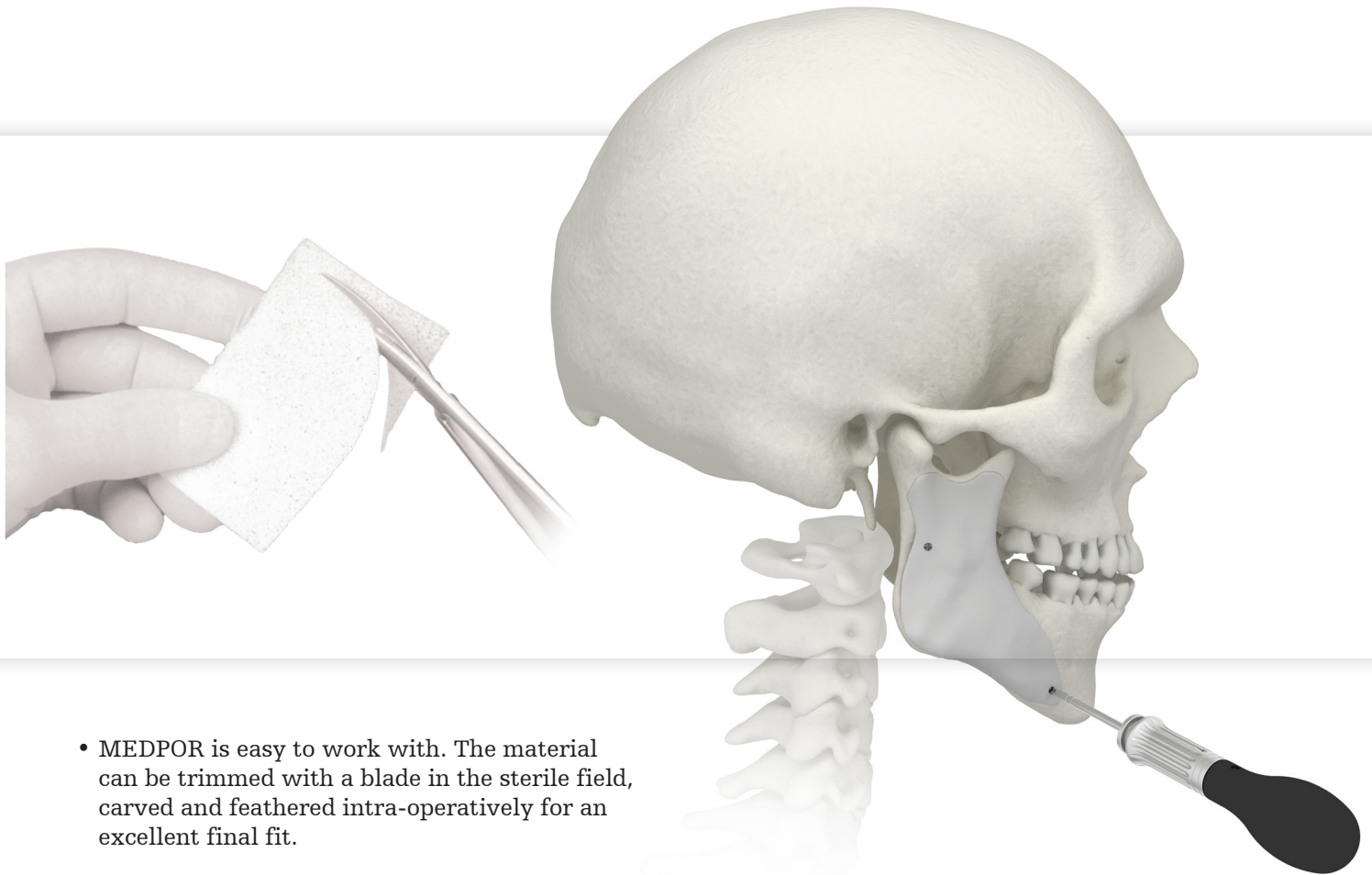


MEDPOR has been a trusted name in the industry since 1985, with hundreds of thousands of procedures performed, and hundreds of published clinical reports in reconstructive, cranial, oculoplastic, and cosmetic applications.

Our MEDPOR product line provides you an array of porous polyethylene solutions for your reconstruction and augmentation needs. We understand that biocompatibility characteristics of implants are paramount to help surgeons achieve positive patient outcomes. The omni-directional pore structure of our polyethylene implants may increase implant acceptance by allowing the patient's native tissue to integrate with the implant. In addition to our comprehensive line of stock MEDPOR implants, we offer CT-based patient specific implants, putting the implant design in your hands.

30+

years of proven
clinical history



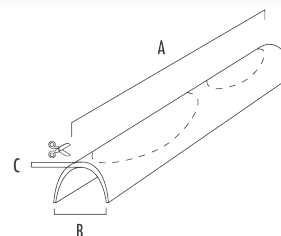
- MEDPOR is easy to work with. The material can be trimmed with a blade in the sterile field, carved and feathered intra-operatively for an excellent final fit.
- No pre-placing of fixation plates. MEDPOR can be easily drilled and fixated and is designed to accept screws and plates without cracking, giving the surgeon more flexibility in fixation options and placement.
- MEDPOR surgical implants can be cut with a variety of surgical instruments. Implants may require fitting to the defect area at the time of surgery. The implant edges can be delicately shaped and feathered for a smooth transition from the implant to the patient's own bony contour.
- MEDPOR surgical implants are provided sterile and should not be resterilized.
- Do not place or carve the implant on surgical drapes, surgical clothing or any other surface that may contaminate the implant with lint and other particulate matter.

Nasal arch shapes

The nasal arch can be used effectively to create a nasal onlay where augmentation of the dorsum is required. Each arch is packaged sterile and sold individually with a sterile silicone template.



CAT#	Description	A (mm)	B (mm)	C (mm)
9533	Nasal arch - small	70	13	2
9534	Nasal arch - medium	70	15	2
9535	Nasal arch - large	70	17	2



Nasal sheet

When nasal tip projection is needed, the nasal sheet can be used to support the tip by placing the nasal sheet between the medial crura of the alar cartilage, using it as a framework to support tip elevation.



CAT#	Description	A (mm)	B (mm)	C (mm)
9536	Nasal sheet	40	9	1.1

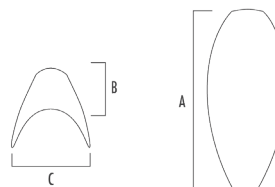


Nasal radix

The MEDPOR nasal radix implant offers a shape to augment a low nasal radix.



CAT#	Description	A (mm)	B (mm)	C (mm)
84014	Nasal radix	24	3	10



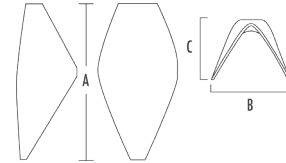
Nasal dorsal shell - thin

The MEDPOR nasal dorsal shell is thin, flexible, and can provide an option for augmenting or correcting deformities. Each nasal dorsal shell is packaged sterile and sold with a sterile silicone template. U.S. Patent # D428,992



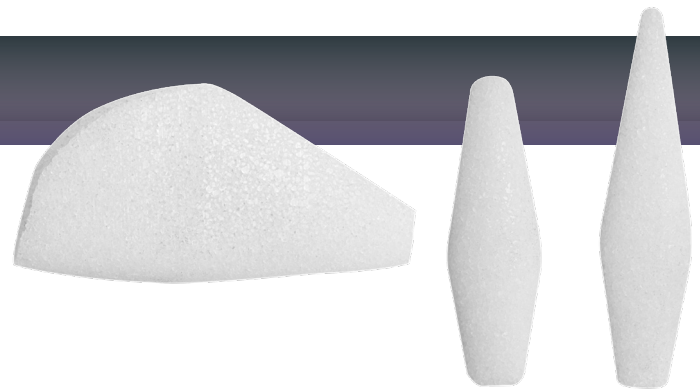
CAT#	Description	A (mm)	B (mm)	C (mm)
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84006	Nasal dorsal shell - thin	43	22	16
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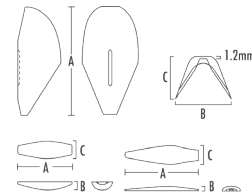
Nasal shell shapes

The nasal shell, with two inserts, is designed to provide a reconstructive option for correcting nasal deformity. The nasal shell mimics the shape of the nasal bones and upper lateral cartilage. The two nasal shell inserts included can be placed inferior to the implant in dorsal areas where additional augmentation is required. Each shell is packaged sterile and sold with two inserts and a sterile silicone template. U.S. Patent # D428,992



CAT#	Description	A (mm)	B (mm)	C (mm)
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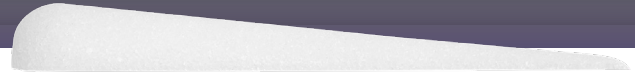
9553	Nasal shell - regular	37	19	18
	Insert - small (included)	30	4	9
	Insert - large (included)	38	2.5	9
9554	Nasal shell - large	40	20	18
	Insert - small (included)	32	4	9
	Insert - large (included)	41	3	9



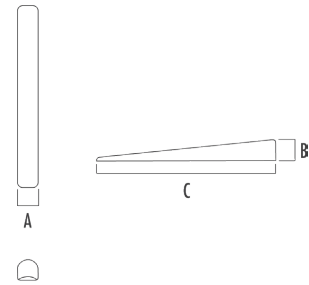
MEDPOR ENT surgery

Petite nasal dorsum

The MEDPOR petite nasal dorsum implant is designed to provide augmentation to the dorsum.



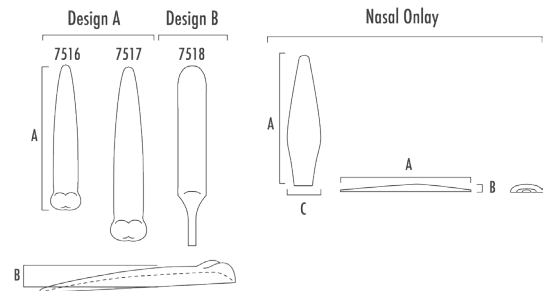
CAT#	Description	A (mm)	B (mm)	C (mm)
84000	Petite nasal dorsum	4	4	45
84001	Petite nasal dorsum	4	4	55
84002	Petite nasal dorsum	5	5	45
84003	Petite nasal dorsum	5	5	55
84004	Petite nasal dorsum	9	6	55
85000	Petite nasal dorsum sizer Set (silicone, non-sterile)			



Nasal dorsum shapes



CAT#	Description	A (mm)	B (mm)	C (mm)
84012	Nasal onlay	41	3.1	9
7516	Design A - small	53	5	
7517	Design A - large	68	9	
7518	Design B	67	6.4	



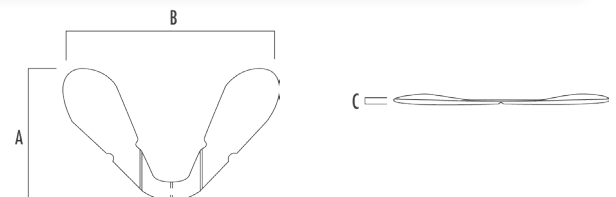
Nasal TIP-TOP

The MEDPOR nasal TIP-TOP implant is designed for use following trauma or to augment nasal defects. The MEDPOR nasal TIP-TOP is designed to augment the nasal tip cartilages.

The flat, wing-shaped, 0.5mm thick implant features three strategically placed crimps for ease of shaping to create tip-defining points.



CAT#	Description	A (mm)	B (mm)	C (mm)
84010	Nasal TIP-TOP	22	37	0.5



Mastoid implant

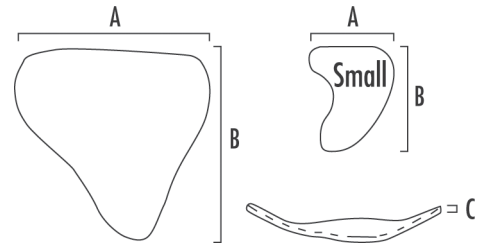


For patients undergoing cranial procedures that require removal of bone in the mastoid area, the MEDPOR mastoid implant provides surgeons with a convenient method to repair defect areas.

The implants are available in small and regular sizes and should be trimmed at the time of surgery to fit the needs of the individual patient.

The regular mastoid implant is available in left and right configuration, while the small mastoid implant provides a universal fit to either the left or right side.

CAT#	Description	A (mm)	B (mm)	C (mm)
82014	Mastoid - small	36	45	1.00
82015	Mastoid implant - left	58	56	1.50
82016	Mastoid implant - right	58	56	1.50



TSI

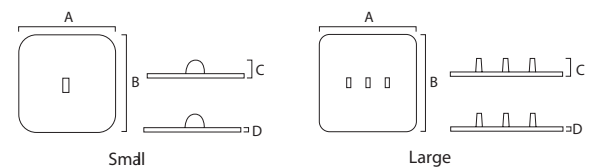
The MEDPOR TSI is designed to repair the seller floor.

The TSI implant is available in two sizes and configurations. The larger TSI is designed with three small tabs oriented to facilitate handling and placement while the original TSI design has a single tab.

A nonporous sheet of polyethylene heat-bonded to the posterior surface of the larger TSI forms a BARRIER to prevent tissue ingrowth.



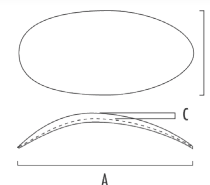
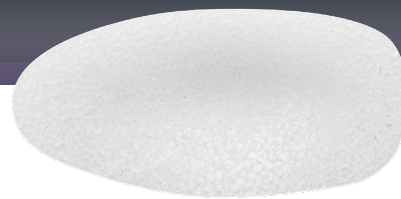
CAT#	Description	A (mm)	B (mm)	C (mm)	D (mm)
82007	TSI	20	20	2.50	0.45
82008	TSI BARRIER - large	40	40	2.50	0.73
92-82007	TSI - large	40	40	2.50	0.73



MEDPOR ENT surgery

External nasal valve battens

The external nasal valve battens are elongated, concave ovals designed for nasal reconstruction procedures involving the external nasal valve. External nasal valve battens are packaged sterile, two implants per package.

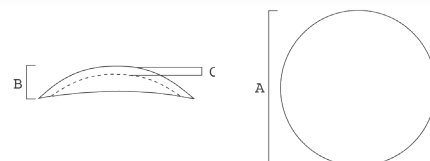


CAT#	Description	A (mm)	B (mm)	C (mm)
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7546	External nasal valve batten	25	11	0.85
7167	External nasal valve batten - thin	25	11	0.60

Lateral nasal valve batten

The MEDPOR lateral nasal valve batten is a small, dome-shaped sheet for reconstruction of the posterior region of the alar cartilage and upper lateral cartilage. These are provided with two implants per package.



CAT#	Description	A (mm)	B (mm)	C (mm)
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7545	Lateral nasal valve	13	3.5	0.9
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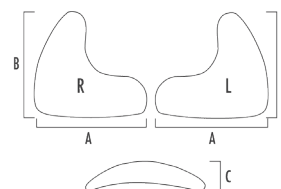
Paranasal shapes

MEDPOR paranasal implants are designed for augmentation of the midface in patients who have relative midface deficiency.



CAT#	Description	A (mm)	B (mm)	C (mm)
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9519	Paranasal, petite - left	28	26	4.5
9520	Paranasal, petite - right	28	26	4.5
9525	Paranasal, large - left	30	28	7
9526	Paranasal, large - right	30	28	7



Nostril retainers

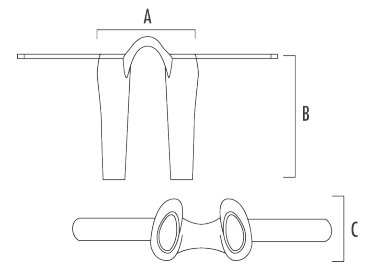
The nostril retainers are designed to provide surgeons with an enhanced anatomical design. nostril retainers can aid in preventing nostril shape distortion following surgery.



CAT# Description A (mm) B (mm) C (mm)

CAT#	Description	A (mm)	B (mm)	C (mm)
7238	Size 1	16	23	7
7239	Size 2	17	24	8
7240	Size 3	19	25	8
7241	Size 4	19	26	9
7242	Size 5	20	27	10
7243	Size 6	21	28	11
7244	Size 7	23	29	13
7245	Size 8	24	30	13
7246	Size 9	25	31	14
7247	Size 10	25	32	15
7248	Size 11	27	33	16
7249	Size 12	28	34	17
7250	Size 13	29	35	18

Straight wings



CAT# Description A (mm) B (mm) C (mm)

CAT#	Description	A (mm)	B (mm)	C (mm)
92-7238	Symmetrical R1-L1	16.08	23	7.02
92-7239	Symmetrical R2-L2	17.1	24	8.04
92-7240	Symmetrical R3-L3	18.9	25	8.13
92-7241	Symmetrical R4-L4	19.5	26.3	9.04
92-7239-1	Asymmetrical R1-L2	16.96	23	R7.02, L8.04
92-7239-2	Asymmetrical R2-L1	16.96	23	R8.04, 7.02
92-7240-1	Asymmetrical R2-L3	18.6	24	8.04, 8.13
92-7240-2	Asymmetrical R3-L2	18.6	24	8.13, 8.04
92-7241-1	Asymmetrical R3-L4	19.4	25	R8.13, L9.04
92-7241-2	Asymmetrical R4-L3	19.4	25	R9.04, L8.13

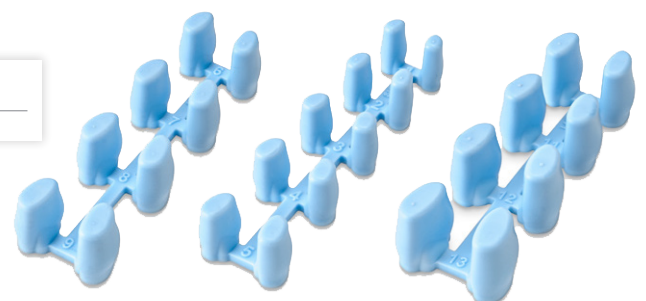
Modified loops



Sizer set

CAT# Description

92-7236 Nostril retainer sizer set



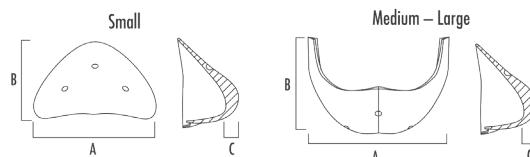
MEDPOR ENT surgery

Button chin

The MEDPOR button chin implant, designed in a three dimensional configuration, is an option for augmentation to the medial anterior point of the chin.



CAT#	Description	A (mm)	B (mm)	C (mm)
86010	Button chin - small	40	25	4
86011	Button chin - medium	47.5	37.5	5.5
86012	Button chin - large	48.5	38	7

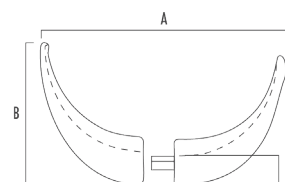


Two-piece chin implants

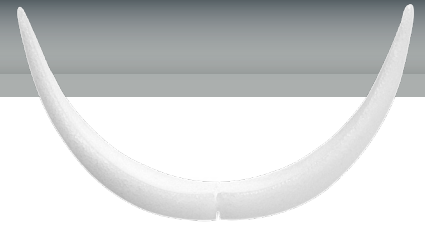
The two-sectional components of this anatomical MEDPOR chin design allow for easy insertion and placement of the implant. The surgeon can then link the components together for proper alignment. Sizer set available.



CAT#	Description	A (mm)	B (mm)	C (mm)
8320	Small projection	56	33	5
8321	Medium projection	56	36	7
8322	Large projection	57	38	9
9953	Chin sizer set for two-piece design (silicone, non-sterile)			



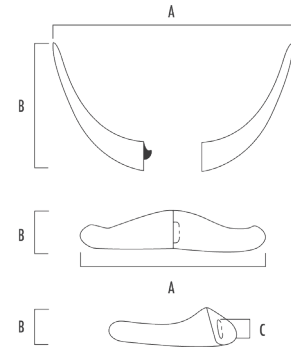
Contoured two-piece chin implants



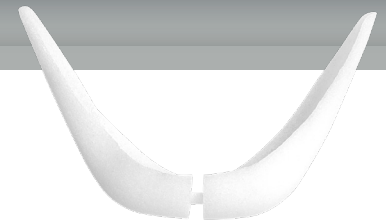
The contoured two-piece chin implant is designed with a gradual taper and concave posterior surface to provide an excellent anatomical fit to the bony anatomy.

CAT# Description A (mm) B (mm) C (mm)

CAT#	Description	A (mm)	B (mm)	C (mm)
86000	Contoured two-piece chin	72	42	3
86001	Contoured two-piece chin	74	42	5
86002	Contoured two-piece chin	78	50	7
86003	Contoured two-piece chin	80	55	9
85001	Chin sizer set for contoured two-piece (silicone, non-sterile)			



RZ extended chin implants

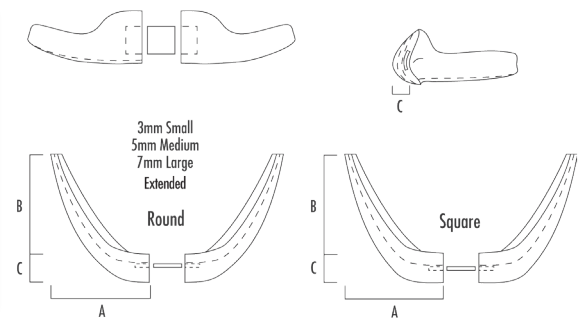


The RZ extended chin implants are available in designs with square or round anterior projections. The extended chins contain a notch for mental nerve passage and provide tri-dimensional projection (anterior, lateral and inferior).

The two-piece design is joined at the midline by a separate tab that allows individual placement of the left and right portions.

CAT# Description A (mm) B (mm) C (mm)

CAT#	Description	A (mm)	B (mm)	C (mm)
8313	RZ extended round chin - small	45	47	3
8314	RZ extended round chin- medium	45	47	5
8315	RZ extended round chin - large	45	47	7
8316	RZ extended square chin - small	45	47	3
8317	RZ extended square chin - medium	45	47	5
8318	RZ extended square chin - large	45	47	7
9954	Chin sizer set for extended designs (silicone, non-sterile)			



MEDPOR TITAN[®]

Combines high-density polyethylene and titanium mesh in a single implant for increased flexibility, shape retention, radiographic visualization and strength¹.

Configurations

MTM

Titanium mesh embedded within porous, high-density polyethylene.

MTB

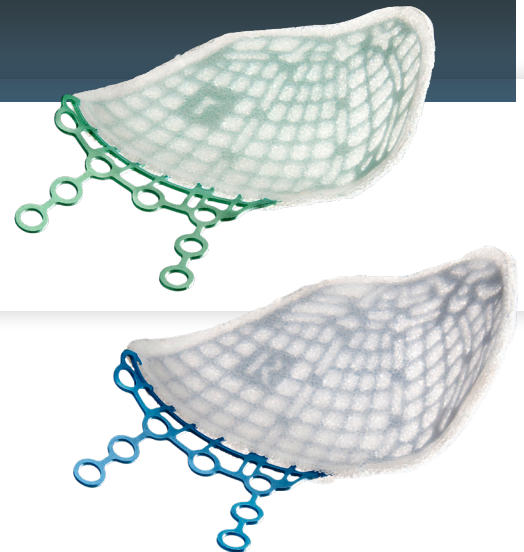
Titanium mesh embedded within a porous polyethylene matrix with a solid, barrier surface on one side, potentially allowing for fibrovascular ingrowth only on the porous side of the implant.

BTB

Titanium mesh embedded within solid, non-porous high-density polyethylene. The smooth barrier surface can prevent fibrovascular ingrowth.

3D Orbital floor

Implants designed using CT-scan data to approximate the anatomy of the orbital floor & medial wall to enhance the effectiveness and efficiency of reconstruction. MEDPOR coating minimizes sharp edges even if the plates require modification, and the superior, non-porous barrier side helps prevent tissue ingrowth along the aspect of the globe.

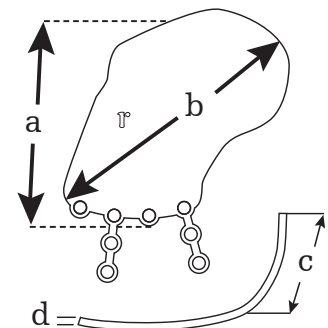


Catalog # Description

Catalog #	Description
81041	MEDPOR TITAN 3D Orbital floor, MTB left small
81042	MEDPOR TITAN 3D Orbital floor, MTB right small
81043	MEDPOR TITAN 3D Orbital floor, MTB left large
81044	MEDPOR TITAN 3D Orbital floor, MTB right large
01-01820	Plate holding forcep

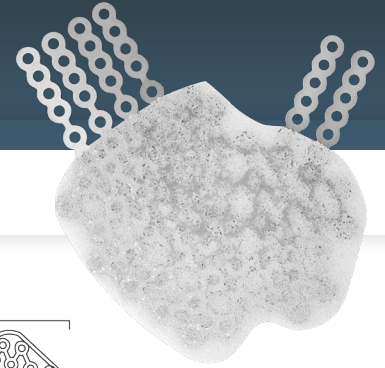
Plate A B C D

Plate	A	B	C	D
Large L/R	36mm (1.4 in.)	37mm (1.4 in.)	17mm (0.6 in.)	1.2mm
Small L/R	32mm (1.2 in.)	35mm (1.4 in.)	13mm (0.5 in.)	1.2mm



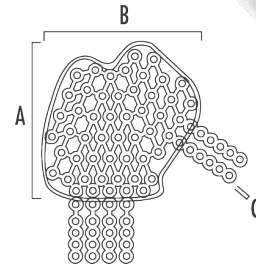
TITAN Orbital Floor and Wall (OFW)

US Patent 7,655,047



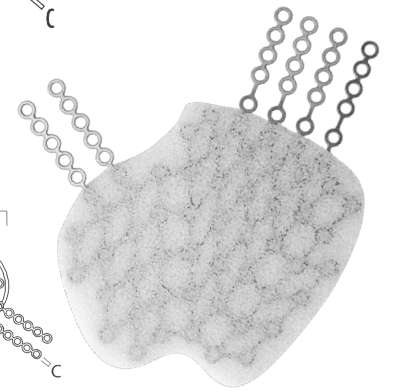
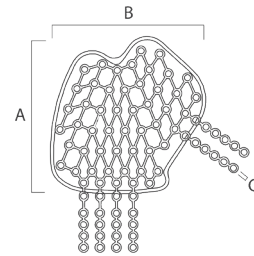
CAT#	Description	A (mm)	B (mm)	C (mm)	Thickness
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81034	MAX MTM	42	41	1.0	0.85
81035	MAX MTB - Left	42	41	1.0	1.0
81036	MAX MTB - Right	42	41	1.0	1.0

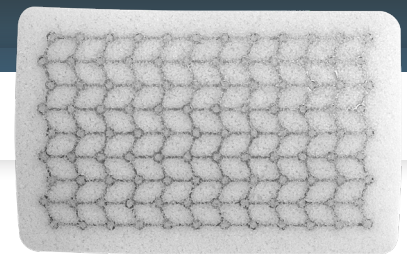


CAT#	Description	A (mm)	B (mm)	C (mm)	Thickness
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81030	MTM	42	41	0.5	0.85
81031	MTB - Left	42	41	0.5	1.0
81032	MTB - Right	42	41	0.5	1.0
81033	BTB	42	41	0.5	0.6

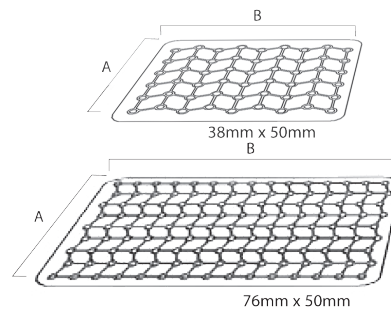


TITAN implants



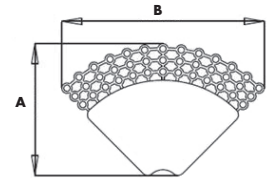
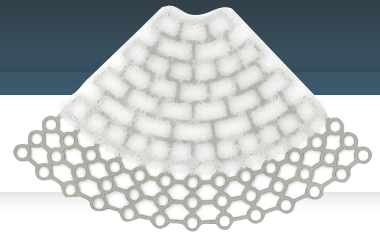
CAT#	Description	A (mm)	B (mm)	Thickness
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81020	MTM	50	76	0.85
81021	MTM	38	50	0.85
81022	MTM	38	50	1.50
81023	MTM	50	76	1.50
81024	BTB	38	50	0.60
81025	BTB	50	76	0.60
81026	MTB	38	50	1.00
81027	MTB	50	76	1.00
81028	MTB	38	50	1.60
81029	MTB	50	76	1.60



TITAN fan

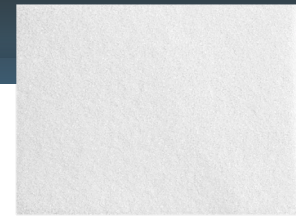
Available in two configurations, with or without a BARRIER



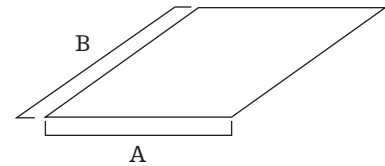
CAT#	Description	A (mm)	B (mm)	Thickness
81049	MTM	40	61	0.85
81050	MTB	40	61	1.00

Sheets

MEDPOR biomaterial sheets provide the surgeon with options for craniofacial reconstruction and augmentation.



CAT#	Description	A (mm)	B (mm)	Thickness
83020	Micro thin sheet	38	50	0.25
83022	Micro thin sheet	38	50	0.35
8438	Micro thin sheet	30	50	0.40
83029	Micro thin sheet	38	50	0.45
83030	Micro thin sheet	50	76	0.45
7210	Ultra thin sheet	38	50	0.85
7212	Ultra thin sheet	50	76	0.85
7214	Ultra thin sheet	76	127	0.85
6330	Sheet	38	50	1.50
6331	Sheet	50	76	1.50
8662	Sheet	76	127	1.50
9562	Sheet	38	50	3.00



0.25mm

0.35mm

0.40mm

0.45mm

Thickness

0.85mm

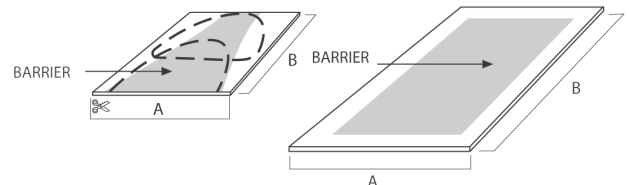
1.50mm

3.00mm

BARRIER sheets



CAT#	Description	A (mm)	B (mm)	Thickness
8305	Orbital floor implant	38	50	1.00
9305	Orbital floor implant	38	50	1.60
8312	Rectangle	50	76	1.00
9312	Rectangle	50	76	1.60

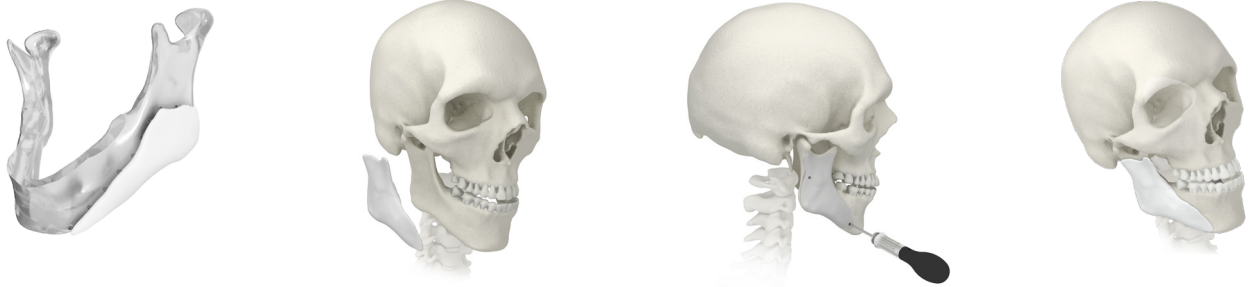


Individually designed implants

MEDPOR implants are built from patient CT data and offer you the ability to design an implant that fits your patients re-constructive or augmentation needs.

Each MEDPOR implant kit contains two (2) identical sterile implants and one (1) sterile host bone model (defect area). The host bone model is provided as a preoperative guide to demonstrate orientation and fit of the customized implant(s).

Facial **iD**[®] - Reconstruction and augmentation



CAT#	Description
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54440510	MEDPOR patient specific midface
54440610	MEDPOR patient specific mandible augmentation
54440610	MEDPOR patient specific midface augmentation