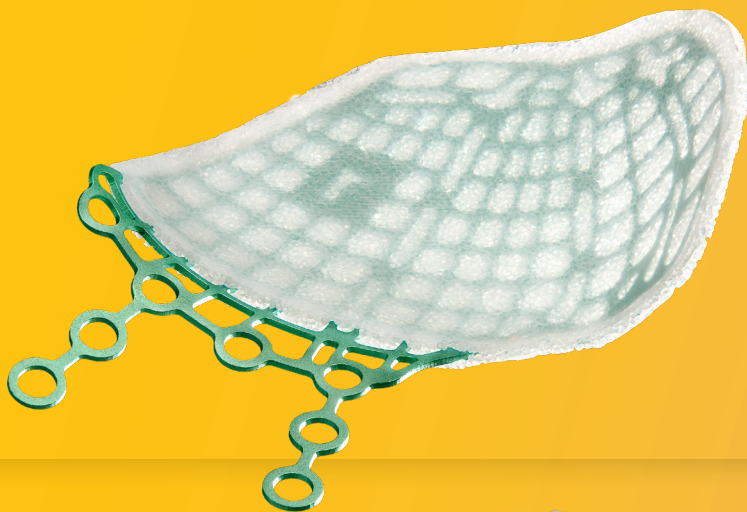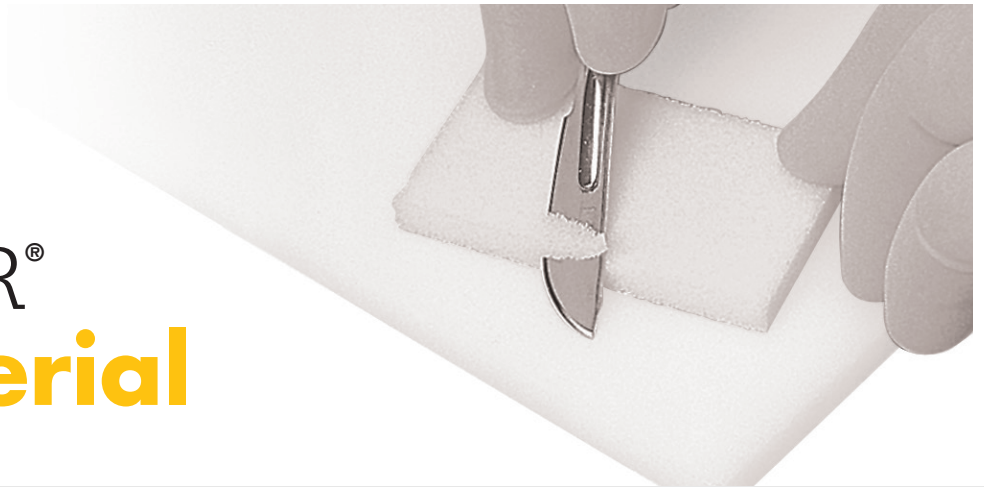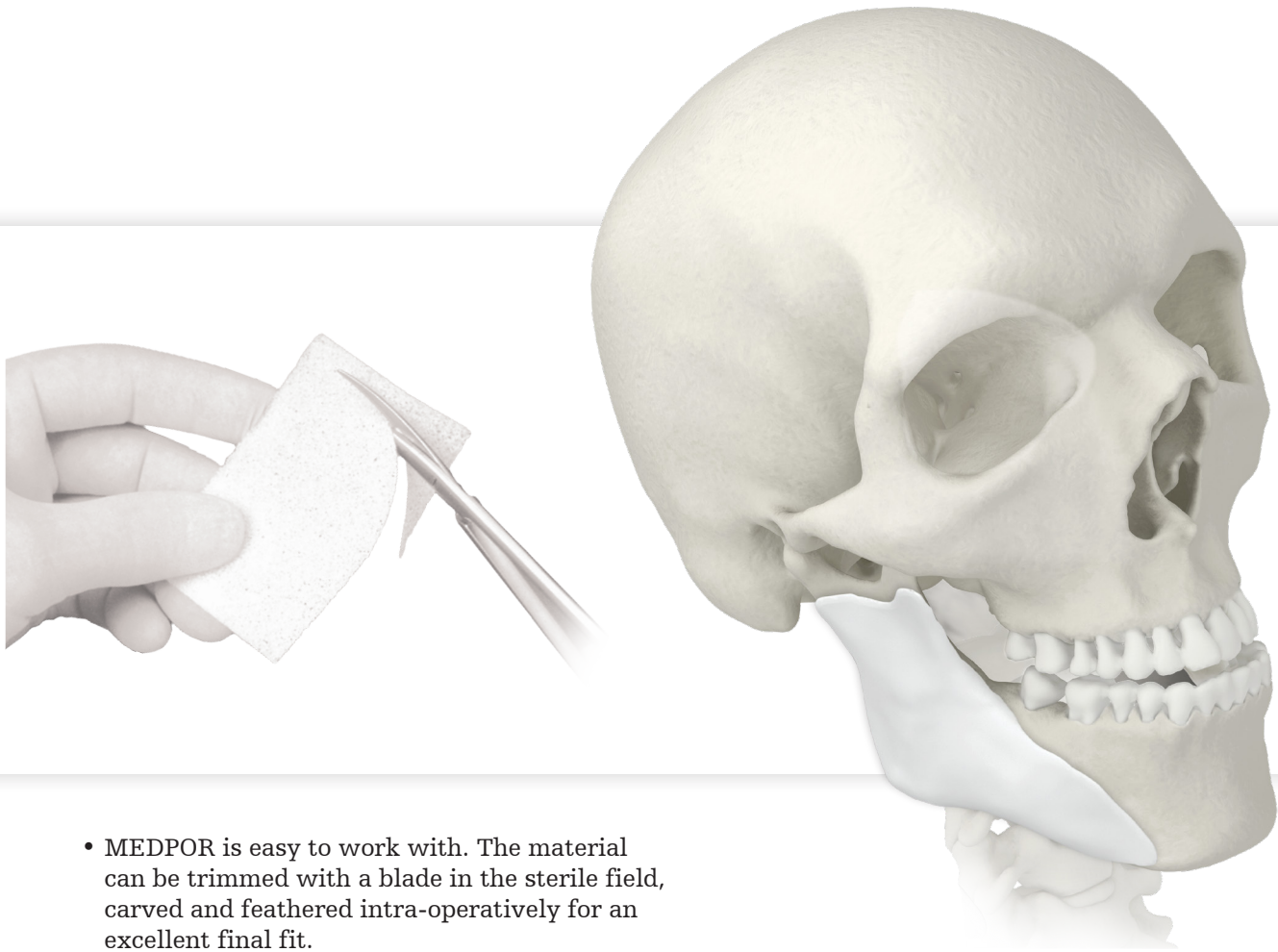# MEDPOR®

Plastic 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 bio-compatibility 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.

MEDPOR TITAN®

Combines high-density polyethylene and titanium mesh in a single implant for increased flexibility, shape retention, radiographic visualization and strength[1].

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.
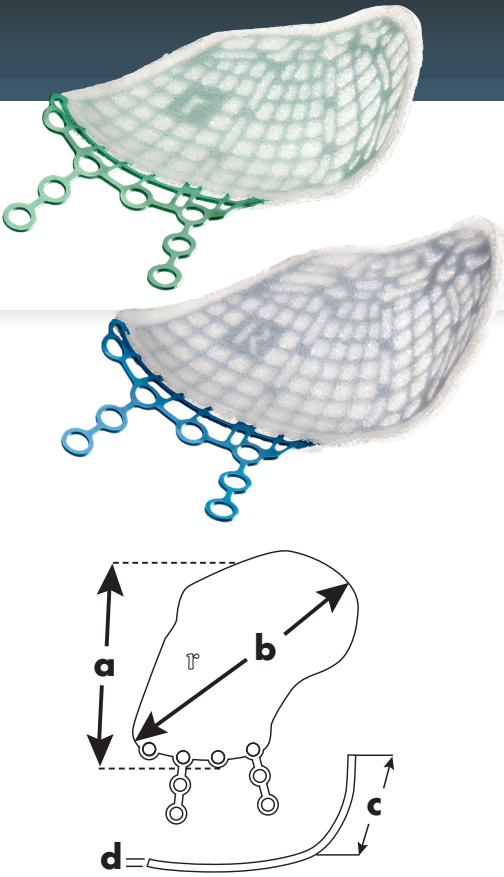

| Catalog #	Description
81041	MEDPOR TITAN 3D Orbital floor, MTB left small
81042	MEDPOR TITAN 3D Orbital floor, MTB right small
81043	MEDPOR TITAN 3D Orbital floor, MTB left large
81044	MEDPOR TITAN 3D Orbital floor, MTB right large
01-01820	Plate holding forcep

| Plate	A	B	C	D
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)
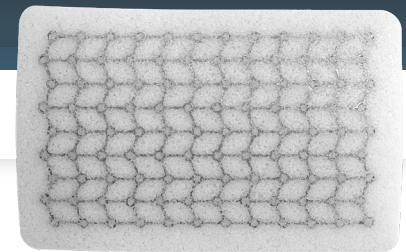
US Patent 7,655,047
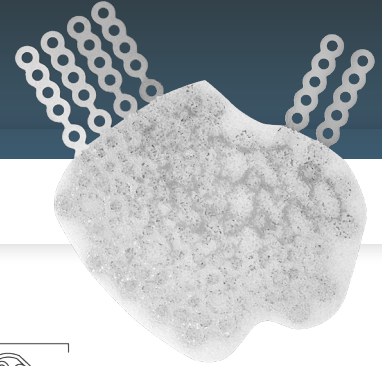
CAT#	Description	A (mm)	B (mm)	C (mm)	Thickness
81034	MAX MTM	42	41	1.0	0.85
81035	MAX MTB - Left	42	41	1.0	1.0
81036	MAX MTB - Right	42	41	1.0	1.0
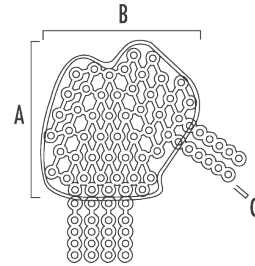
CAT#	Description	A (mm)	B (mm)	C (mm)	Thickness
81030	MTM	42	41	0.5	0.85
81031	MTB - Left	42	41	0.5	1.0
81032	MTB - Right	42	41	0.5	1.0
81033	BTB	42	41	0.5	0.6
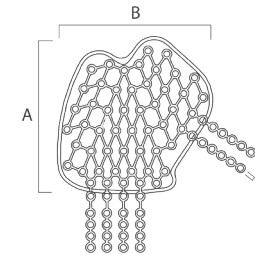
TITAN implants

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

38mm x 50mm

76mm x 50mm

MEDPOR Plastic surgery
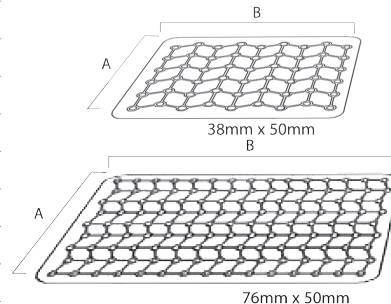
TITAN fan

Available in two configurations, with or without a BARRIER
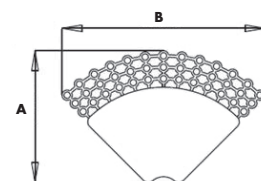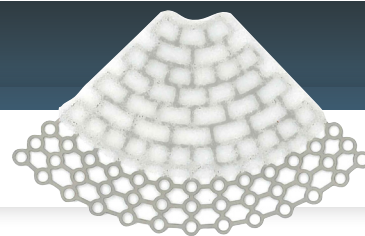
CAT#	Description	A (mm)	B (mm)	Thickness
81049	MTM	40	61	0.85
81050	MTB	40	61	1.00

Sheets

MEDPOR biomaterial sheets provide the surgeon with options for craniofacial reconstruction and augmentation.
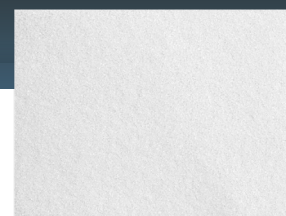
CAT#	Description	A (mm)	B (mm)	Thickness
83020	Micro thin sheet	38	50	0.25
83022	Micro thin sheet	38	50	0.35
8438	Micro thin sheet	30	50	0.40
83029	Micro thin sheet	38	50	0.45
83030	Micro thin sheet	50	76	0.45
7210	Ultra thin sheet	38	50	0.85
7212	Ultra thin sheet	50	76	0.85
7214	Ultra thin sheet	76	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
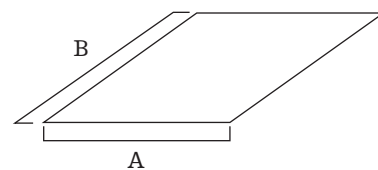
Thickness

0.25mm

0.35mm

0.40mm

0.45mm

0.85mm

1.50mm

3.00mm

BARRIER sheets
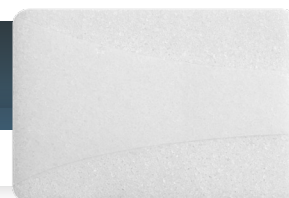
CAT#	Description	A (mm)	B (mm)	Thickness
8305	Orbital floor implant	38	50	1.00
9305	Orbital floor implant	38	50	1.60
8312	Rectangle	50	76	1.00
9312	Rectangle	50	76	1.60
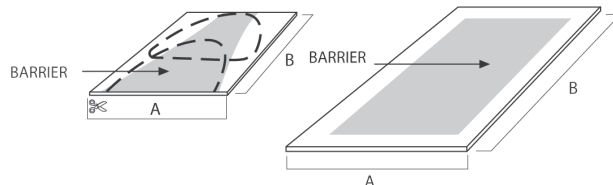
Inferior Medial Orbital Rim Implant (IMORI)

The MEDPOR Inferior Medial Orbital Rim Implant (IMORI) is designed to wrap over the inferior orbital rim and extend superiorly and inferiorly medial to the inferior orbital nerve.
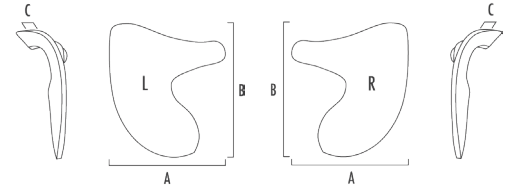
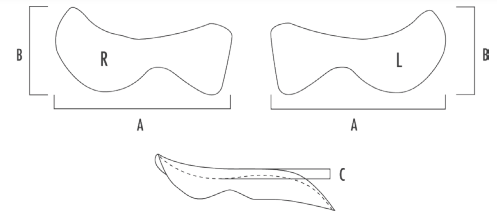| CAT#	Description	A (mm)	B (mm)	C (mm)
87003	Inferior medial orbital rim - left	25	26	2.5
87004	Inferior medial orbital rim - right	25	26	2.5

Inferior orbital rim

The MEDPOR inferior orbital rim implant can provide up to 5mm of anterior projection and is designed to be trimmed to meet the needs of the individual patient. A small flange allows it to rest on the most anterior aspect of the orbital floor. This flange allows for positioning of the implant and a possible area for screw fixation to the skeleton.
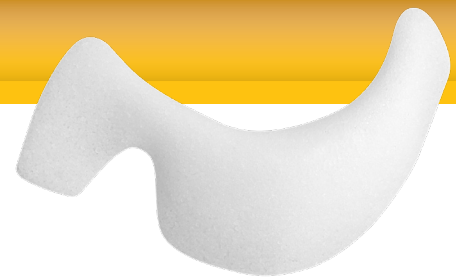
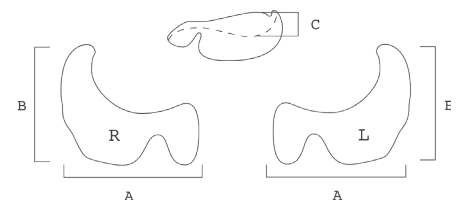| CAT#	Description	A (mm)	B (mm)	C (mm)
9429	Inferior orbital rim - left	43	18	3.2
9430	Inferior orbital rim - right	43	18	3.2

Extended orbital rim implants

MEDPOR extended orbital rim implants are designed to provide the surgeon with an option for augmenting the inferior rim.

| CAT#	Description	A (mm)	B (mm)	C (mm)
9539	Orbital rim - extended left	47	40	6.3
9540	Orbital rim - extended right	47	40	6.3

MEDPOR Plastic surgery

Orbital rim onlay implants

The MEDPOR orbital rim onlay implants are designed to augment the inferior and lateral orbital rims and increase the anterior rim projection.
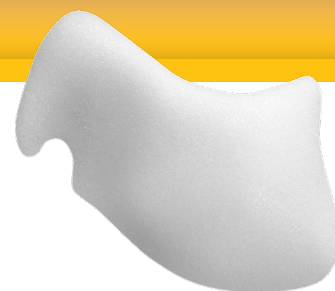
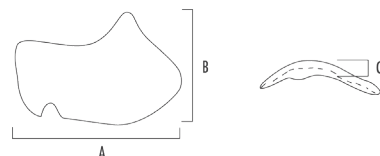| CAT#	Description	A (mm)	B (mm)	C (mm)
81001	Orbital rim onlay - left	40	40	8.45
81002	Orbital rim onlay - right	40	40	8.45
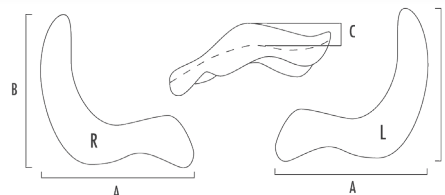
Midface contour implant

The MEDPOR midface contour implant is designed to aid in reconstruction or augmentation of the midface. The shell-type design of the implant allows the surgeon to carve portions of the implant most appropriate for each patient.

The MEDPOR Midface contour implant is packaged with a sterile silicone template.

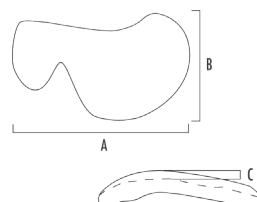| CAT#	Description	A (mm)	B (mm)	C (mm)
83007	Midface contour implant - left	60	40	4
83008	Midface contour implant - right	60	40	4
92-83007	Midface contour implant - left	65	41	4
92-83008	Midface contour implant - right	65	41	4

Midface rim

The MEDPOR midface rim is designed to augment areas of bony concavities of the midface, including the inferior orbital rim and malar.

| CAT#	Description	A (mm)	B (mm)	C (mm)
83003	Midface rim - left	47	28	3
83004	Midface rim - right	47	28	3

Extended malar shapes

The extended malar design is intended to provide malar augmentation from the nasal area to the zygomatic arch.

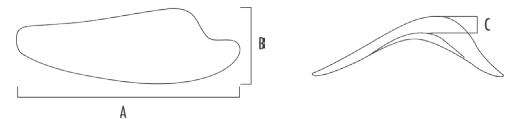| CAT#	Description	A (mm)	B (mm)	C (mm)
9513	Extended contoured, small - left	45	24	3
9514	Extended contoured, small - right	45	24	3
9515	Extended contoured, medium - left	50	26	4
9516	Extended contoured, medium - right	50	26	4
9517	Extended contoured, large - left	55	27	5
9518	Extended contoured, large - right	55	27	5
9952	Extended contoured, malar sizer set (Silicone, non-sterile)			
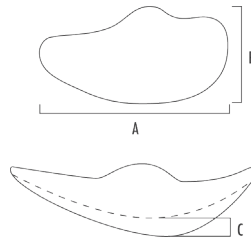
DESIGN RZ malar implants

The MEDPOR DESIGN RZ malar allows for recontouring of the midface. It is designed to provide skeletal augmentation for correction of defects.

The projection of these implants is central to the malar prominence with a tapering towards the zygomatic wing. The medial edge is notched to accommodate the infraorbital facial nerve.

CAT#	Description	A (mm)	B (mm)	C (mm)
9501	DESIGN RZ, super petite - left	50	19	3
9502	DESIGN RZ, super petite - right	50	19	3
9503	DESIGN RZ, petite - left	50	19	5
9504	DESIGN RZ, petite - right	50	19	5
9950	DESIGN RZ malar sizer set (Silicone, Non-Sterile)			

DESIGN M malar implants

The DESIGN M malar shapes are designed specifically to contour the malar bone starting from the zygomatic arch, proceeding over the malar prominence, and extending down to the maxillary buttress.

CAT#	Description	A (mm)	B (mm)	C (mm)	D (mm)
9507	DESIGN M, small - left	64	19	3	15
9508	DESIGN M, small - right	64	19	3	15
9509	DESIGN M, medium - left	64	19	4.5	17
9510	DESIGN M, medium - right	64	19	4.5	17
9951	DESIGN M malar sizer set (silicone, non-sterile)				

MEDPOR Plastic surgery
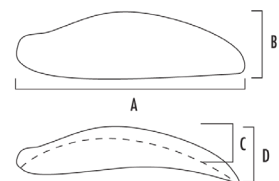
Nasal dorsal shell - thin

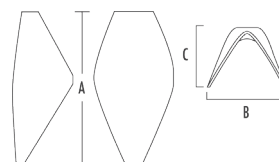The MEDPOR nasal dorsal shell is thin, flexible, and can provide an option for augmenting or correcting deformities. Each nasal dorsal shell is packaged sterile and sold with a sterile silicone template. U.S. Patent # D428,992
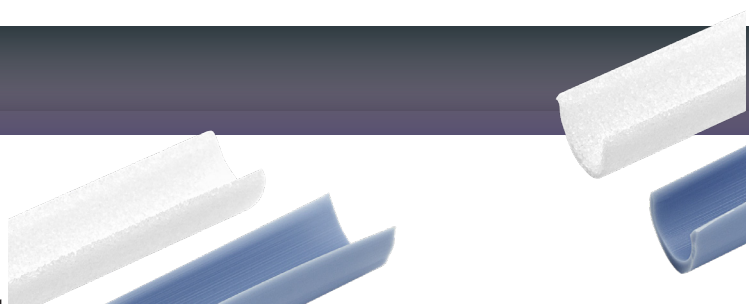
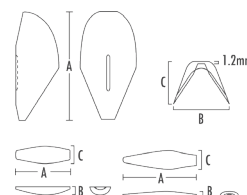| CAT#	Description	A (mm)	B (mm)	C (mm)
84006	Nasal dorsal shell - thin	43	22	16

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)
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

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.

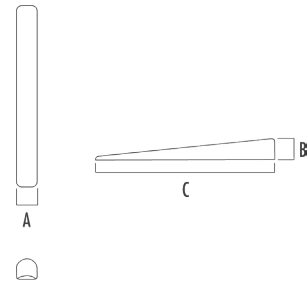| CAT#	Description	A (mm)	B (mm)	C (mm)
9533	Nasal arch - small	70	13	2
9534	Nasal arch - medium	70	15	2
9535	Nasal arch - large	70	17	2
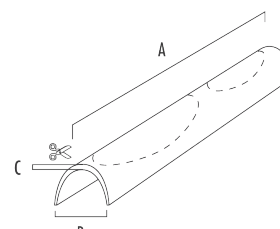
Petite nasal dorsum

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

MEDPOR nasal dorsum shapes are designed to augment the dorsum of the nose.

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	
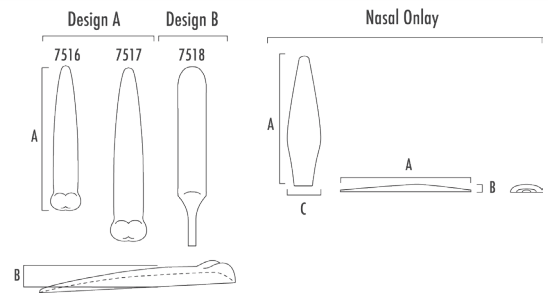
Nasal TIP-TOP

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

MEDPOR Plastic surgery
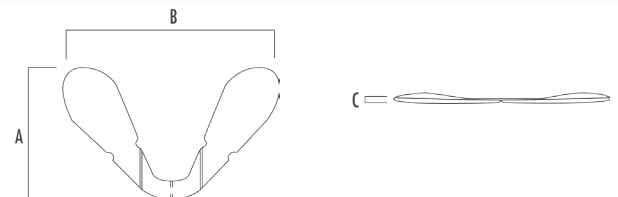
Nasal sheet

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.

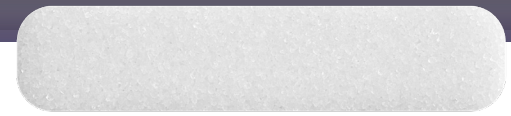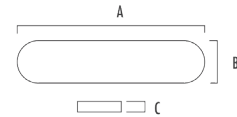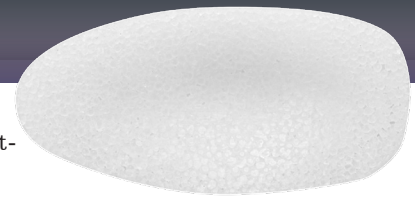| CAT#	Description	A (mm)	B (mm)	C (mm)
9536	Nasal sheet	40	9	1.1

External nasal valve battens

The external easal 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)
7546	External nasal valve batten	25	11	0.85
7167	Exteranl 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)
7545	Lateral nasal valve	13	3.5	0.90
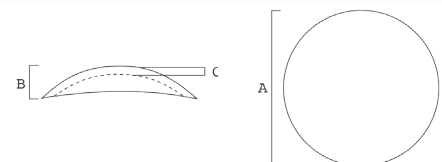
Paranasal shapes

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)
9519	Paranasal, petite - left	28	26	4.5
9520	Paranasal, petite - rght	28	26	4.5
9525	Paranasal, large - left	30	28	7
9526	Paranasal, large - right	30	28	7
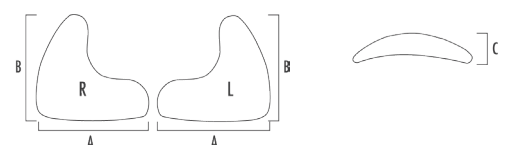
Nostril retainers

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

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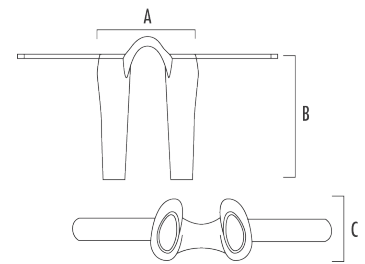
CAT#	Description	A (mm)	B (mm)	C (mm)
92-7238	Symmetrical R1-L1	16.08	23	7.02
92-7239	Symmetrical R2-L2	17.1	24	8.04
92-7240	Symmetrical R3-L3	18.9	25	8.13
92-7241	Symmetrical R4-L4	19.5	26.3	9.04
92-7239-1	Asymmetrical R1-L2	16.96	23	R7.02, L8.04
92-7239-2	Asymmetrical R2-L1	16.96	23	R8.04, 7.02
92-7240-1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

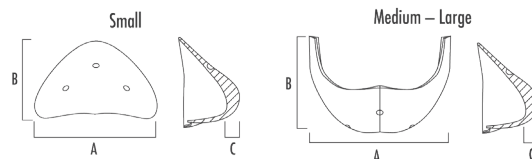| CAT#	Description
92-7236	Nostril retainer sizer set

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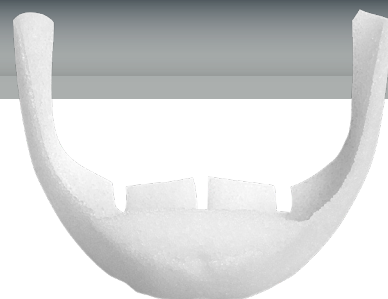
CAT#	Description	A (mm)	B (mm)	C (mm)
86010	Button chin - small	40	25	4
86011	Button chin - medium	47.5	37.5	5.5
86012	Button chin - large	48.5	38	7

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)			
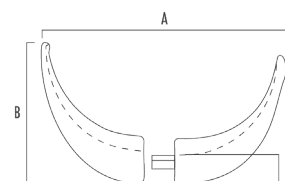
RZ extended chin implants

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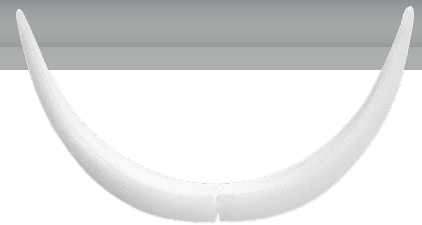
CAT#	Description	A (mm)	B (mm)	C (mm)
8313	RZ extended round chin - small	45	47	3
8314	RZ extended round chin - medium	45	47	5
8315	RZ extended round chin - large	45	47	7
8316	RZ extended square chin - small	45	47	3
8317	RZ extended square chin - medium	45	47	5
8318	RZ extended square chin - large	45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

3mm Small
5mm Medium
7mm Large
Extended

Round   Square
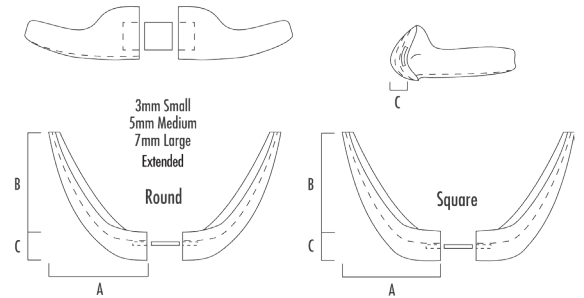
Contoured two-piece chin implants

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)
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)			

MEDPOR Plastic surgery
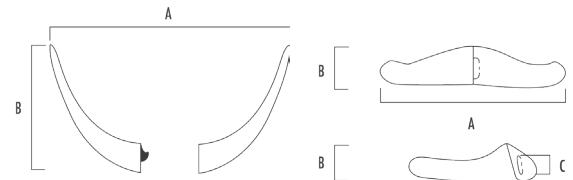
RZ mandibular angle implants

The RZ mandibular angle implants are wrap-around designs that conform to the posterior and inferior borders of the mandible angle.

Sizer set available.
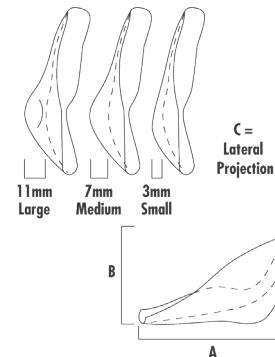
CAT#	Description	A (mm)	B (mm)	C (mm)
9955	Mandibular angle RZ left - small	65	35	3
9956	Mandibular angle RZ right - small	65	35	3
9957	Mandibular angle RZ left - medium	65	35	7
9958	Mandibular angle RZ right - medium	65	35	7
9959	Mandibular angle RZ left - large	65	35	11
9960	Mandibular angle RZ right - large	65	35	11
9566	RZ mandibular sizer set (silicone, non-sterile)			

C = Lateral Projection

11mm Large   7mm Medium   3mm Small

Lateral augmentation onlay shape

The lateral augmentation onlay mandible angle is designed to provide augmentation to the lateral profile at the posterior body of the angle. The lateral augmentation onlay mandible provides 6.5mm's of thickness at the angle of the mandible. A small inferior ridge along the ramus allows the implant to conform to the mandibular border.
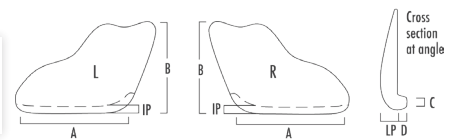
CAT#	Description	A (mm)	B (mm)	C (mm)	D (mm)	IP (mm)	LP (mm)
7535	Mandible angle - left	47	38	3	3	3	6.5
7536	Mandible angle - right	47	38	3	3	3	6.5

Cross section at angle

Angle of the mandible implants

The ES angle of the mandible series is designed to provide a modest inferior ridge and lateral profile for augmentation and correction of deficient mandibular angles.

The E series is a reconstructive set of angles with larger dimensions available for significant augmentation. The lateral projection as well as the inferior ridge has greater bulk than the ES series.
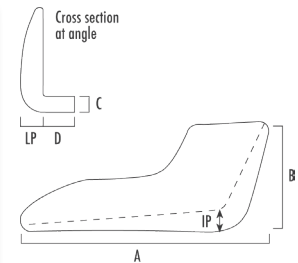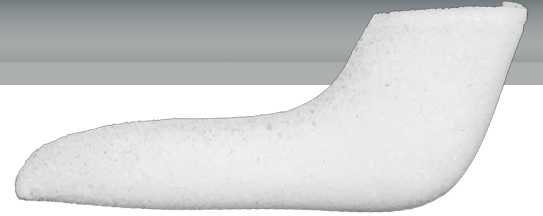
CAT#	Description	A (mm)	B (mm)	C (mm)	D (mm)	IP (mm)	LP (mm)
7537	Ramus with inferior ridge E-5 - left	79	32	5	10	5	7
7538	Ramus with inferior ridge E-5 - right	79	32	5	10	5	7
7539	Ramus with inferior ridge E-10 - left	79	32	10	10	10	7
7540	Ramus with inferior ridge E-10 - right	79	32	10	10	10	7
7541	Ramus with inferior ridge ES-5 - left	79	32	5	4	5	5
7542	Ramus with inferior ridge ES-5 - right	79	32	5	4	5	5
7543	Ramus with inferior ridge ES-10 - left	79	32	10	4	10	5
7544	Ramus with inferior ridge ES-10 - right	79	32	10	4	10	5

Contoured mandibular angle implants

The MEDPOR contoured mandibular angle is anatomically shaped for augmentation of the mandibular ramus and body to the mental foramen. The anatomical shape of this implant is designed to minimize dead space under the implant as well as the need for reshaping at the time of surgery.

| CAT#	Description	A (mm)	B (mm)	C (mm)	D (mm)
88037	Contoured mandibular angle - left	59	29	7	11
88038	Contoured mandibular angle - right	59	29	7	11

MEDPOR Plastic surgery
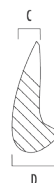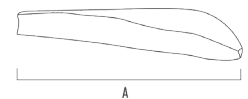
Ear implants

MEDPOR ear implants two-piece designs allow for tailoring the height and projection of the helix to match the contralateral ear. The porous framework is designed to provide a supportive base for a temporal parietal fascia flap and skin grafts. MEDPOR ear implants are suitable for primary or secondary repair in both congenital and traumatic indications.

| CAT#	Description	A (mm)	B (mm)
8328	Helical rim - right	37	62
8329	Helical rim - left	37	62
8330	Ear base extended - right	30	59
8331	Ear base extended - left	30	59
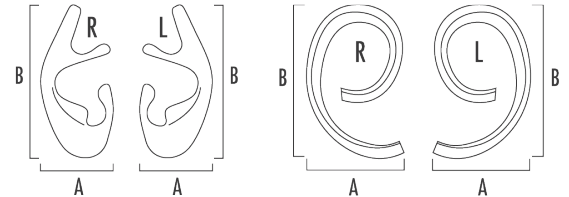
FLEXBLOCK TF2 & TF

The FLEXBLOCK TF2 and FLEXBLOCK TF implant shapes are designed to augment deficient soft tissue in the temporal region. The FLEXBLOCK TF2 comes in left and right versions and has a thinner, contoured temporal surface.

CAT#	Description	A (mm)	B (mm)	C (mm)
9857	TF2, small - left	61	78	18
9858	TF2, small - right	61	78	18
9859	TF2, medium - left	74	93	20
9860	TF2, medium - right	74	93	20
9861	TF2, large - left	82	105	20
9862	TF2, large - right	82	105	20
9521	TF - small	70	70	10
9522	TF - medium	86	88	15
9523	TF - large	95	98	18
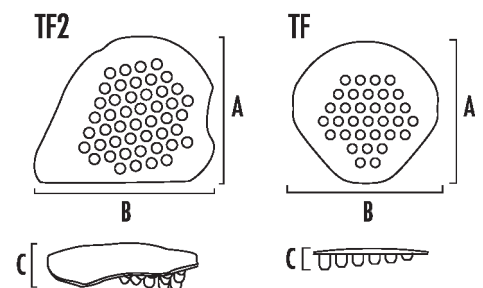
U.S. Patent 5,545,226

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
54440110	MEDPOR patient specific implant - small
54440210	MEDPOR patient specific implant - medium
54440310	MEDPOR patient specific implant - large
54440410	MEDPOR patient specific implant XL
54440510	MEDPOR patient specific midface
54440610	MEDPOR patient specific mandible augmentation
54440710	MEDPOR patient specific midface augmentation

iD Solutions™

Individually designed. Personalized care.

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