

# Mac


Operation Theatre Positioning Devices  
Prolonged Surgery Care



**medigel**<sup>®</sup>

Putting imagination to work!

**CE**

 **Bionova Corporation**, an exclusive distributor of medical grade **Medigel® : Organic C3I Gel Technology** based rehabilitation products, Foot Care, Health Care, Gel Cushioning & **Operation Theater Product** range. The products are exclusively manufactured for Bionova Corporation at Sahibabad, UP (India) under license no. UPFA-09-00-3882

## Targeting Prolonged Surgery

- ✓ **Surgical positioning**, especially during prolonged surgery, is an important task preventing any pressure or illicit physiological response.
- ✓ **Prone positions** post anaesthesia for longer durations is linked with pressure applied and its applied time (it is advisable to provide intermediate release of pressure); body physiology and age compatibility along with damage incurred by pressure, shear and frictional impact also make patient vulnerable. It cause multiple **pressure sores** at various sites.
- ✓ Proper patient positioning on the operating table padded with **organogel padding** is essential to allow optimal surgical exposure and to **prevent neuromuscular injuries**. Dependent portions are at risk for compression injury on body parts i.e. eyes/ears; penis/scrotum; breasts; fingers and; pendulous injury (OT table related injury).
- ✓ As compared to rubber, latex, foam, silicone and any other product line, C<sub>3</sub>I Gel offers complete **elastomerism** along with **cushioning and comfort** such that **no pressure is induced on any aligned or relieved body parts** supported during such positions.

## Medigel® : Organic C3I Gel Technology

The **Medigel® : Organic C3I Gel Technology** works on the principle of pressure redistribution however, every technology creates its own pressure as its nature of counter reaction to any surface based on Newton's third law. However, if the cushioning is supreme the pressure will immerse into the surface like memory foam and will be release slowly back when the limb is removed. In such cases, due to lack of elastomeric distribution it might not be effective for positioning devices. On the other hand, only elastomerism will equalize the pressure without cushioning might cause damage to other nearby sites as observed in latex based material. **An optimum of both such cushioning and elastomerism is essential for right pressure distribution with comfort to the site under stress.**

- ✓ **Medigel® Mac Operation Theatre Positioning devices** complied with SOPs laid down by Association of Surgical Technologists (AST-SOPs)

## Acceptance Test Procedures (ATPs)

ATPs are laid down by manufacturing agencies for establishing the authenticity of Medigel® products by identified quality check procedures. A sample piece of Medigel™ C<sub>3</sub> I Gel material is provided for this testing by supervising officer along with every single piece of item purchased by the buyer. As it is sequential and destructive testing, thus kindly read the instructions prior to the testing or you can contact us for more details (the following procedures are destructive testing thus should not be used on the item purchased;

**C<sub>3</sub> I Gel tester is provided for testing :** i. Moisture Resistant ; ii. Cold Tolerance Testing; iii. Clean Test; iv. Resilience Test or Weight bearing capacity; v. Elastomeric behaviour or Stretch ability Test; vi. Prick Test and vii. Burn Test



## Instructions for Care

- ✓ Keep off sharp/pointed implements. Do not expose to heat or direct sunlight.
- ✓ The products can be disinfected with common available clinical disinfectants such as (Providone-Iodine Solution IP 5% w/v), (Isopropyl Alcohol IP 70% v/v), (Choloroxylenol IP 4.8% v/v, Terpeneol 9% v/v, Alcohol Absolute (Denatured) 13.1% v/v) and (Chlorhexidine Gluconate Solution IP 1.5% v/v, Cetrimide IP 3% w/v). Puff some standard hospital talcum powder before use.
- ✓ The products are easily cleaned using standard detergents.
- ✓ Do not autoclave it can be heated upto the temperature of maximum + 50° C and cooled upto the temperature of maximum - 20° C.



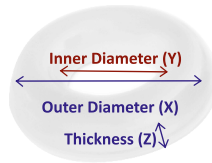
**G-certified Medigel™ Devices** are self-declared claim of compliance with (a) dust and extremely hygienic environment for production; (b) FDA (USA) approved raw material; (c) Essential oils listed in Indian Pharmacopeia; (d) Finished product with clearance from FDA of country of purchase; (e) requisite composition /properties with ability to comply with Regulation (EC) No 1907/2006 of REACH chemical standards; (f) recyclable organic enrichment green initiative and; (g) ISO130485:2003 complied.

Warranty Clause : The product purchased is replaceable within first year of purchase & applicable to end user only [T&C Applied]

**Donut/ Open Head Ring**  
*Multifunctional positioner*



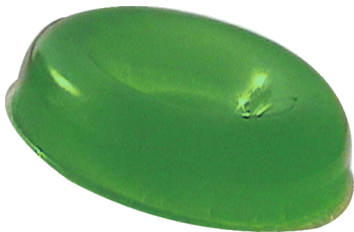
01 piece/pack



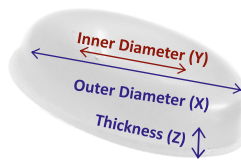
Item	Size	Dimensions (mm) X* Y*Z
OHR-N	Neonatal	90 x 45 x 20
OHR-M	Medium	150 x 80 x 30
OHR-L	Large	200 x 100 x 40

- Supports patient's head during prolonged surgeries (air and gel cushioning)
- Protect skull, neck and ears in multiple positions by conforming to head's contour

**Closed Head Ring**  
*Multifunctional positioner*



01 piece/pack



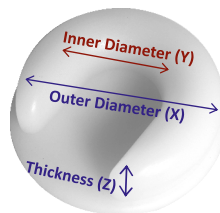
Item	Size	Dimensions (mm) X* Y*Z
CHR-N	Neonatal	90 x 45 x 20
CHR-M	Medium	140 x 70 x 35
CHR-L	Large	200 x 100 x 45

- Supports patient's head with complete coverage to back of head during prolonged surgeries
- Protect head, neck and ears in various positions by complete pressure redistribution

**C-Shape/U-Shape Head Ring**  
*Multifunctional positioner*



01 piece/pack



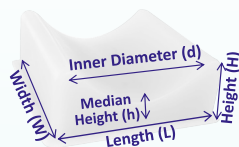
Item	Size	Dimensions (mm) X* Y*Z
UHR-M	Medium	140 x 60 x 45
UHR-L	Large	200 x 100 x 60

- Supports patient's face during surgery allows access to intubation due to its contoured features.
- No pressure on eyes especially in prone position due to ergonomic design and elastomeric gel technology.

**Supine/Contoured Head Rest**  
*Unipositional Protector*



01 piece/pack



Item	Size	Dimensions (mm) L* W*H [d*h]
SHR-SD	Standard	175 x 180 x 70 [145x35]

- Relieves skull compression from head / calf in supine position (like eye surgeries) by providing cross-sectional stability
- Contoured to match the anatomical shape of head by pressure redistribution in all directions



Organic



Single Phase



Non Film



Elastomeric



No Leak



Non Allergenic

Medigel® prevents neuronal damage; oil based massaging impact and doesn't cause any shear or friction induced damage being extremely soft, provide extreme padding and can be used for indefinite periods, thereby conforms to all requirements posed.

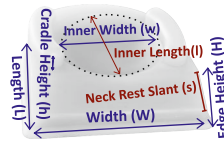


## Ophthalmic Cradle Head Rest

*Uni-functional positioner*



01 piece/pack



Item	Size	Dimensions (mm)
O-CHR	Standard	240 x 200 x 40 [170 x 140 x 20 x 50]

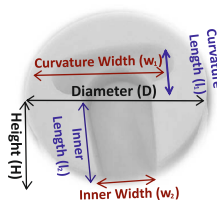
- Contoured cradling and extra support/ stability to patient's head in supine or other positions preventing risk of alopecia in ophthalmic long tenured surgeries.
- Extensive pressure redistribution for complete head rest.

## Horse Shoe Ring -Eye Pressure Relief

*Uni-functional protector*



01 piece/pack

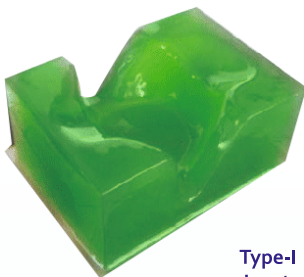


Item	Size	Dimensions (mm)
HORSE-SD	Standard	200 x 75 x [50 x 140] [90 x 75]

- Supports patient's Face during surgery allow access to intubation due to its contoured features
- No pressure on eyes especially in prone position due to ergonomic design and elastomeric gel technology

## Prone Head Rest

*Prone position protector*



Type-I  
01 piece/pack



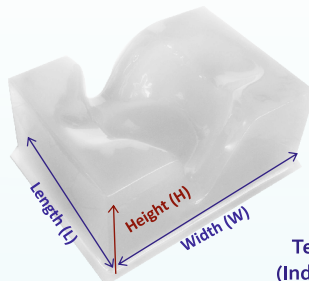
Type-II  
01 piece/pack



Type-III  
01 piece/pack

Item	Size	Dimensions (mm)
PHR-I-SD	Standard	260 x 215 x 140
PHR-II-M	Adolscnt	230 x 190 x 130
PHR-II-L	Adult	270 x 230 x 140
PHR-III-SD	Standard	260 x 240 x 145

- Supports patient's head in prone position during prolonged surgeries
- Protect head, neck and ears in prone position by complete pressure redistribution and ergonomic design allows ease of intubation.
- PHR - III provides see through area at its bottom



Template  
(Indicative)



Organic



Single Phase



Non Film



Elastomeric



No Leak



Non Allergenic

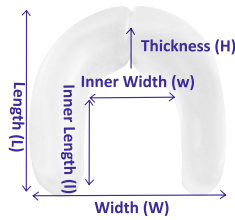
AST SOP –III (C)-2: The positioning equipment should sustain the weight of the patient. Medigel® can bear pressure upto 1600 psi which is much more as compared to human weight. 1600 psi means it can bear 112 kg of weight per cm<sup>2</sup>.



**Gel Base for Metallic Neurohead Frame**  
*Critical functional positioner*



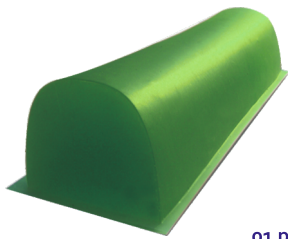
01 set of 02 half pieces/pack  
 (without Neurohead Frame Device)



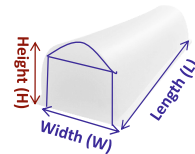
Item	Size	Dimensions (mm) L*W*H [l * w]
<b>NEURO-L</b>	<b>Large</b>	<b>200 x 55 x 65 [145 x 85]</b>
<b>NEURO-M</b>	<b>Medium</b>	<b>175 x 50 x 60 [125 x 80]</b>

- Provide cushioning interface to metallic neuro-head frame during prolonged brain surgeries.
- Supports patient's facial contours with complete pressure redistribution.

**Dome Flat Bottom Chest Roll**  
*Multi-utility bolster*



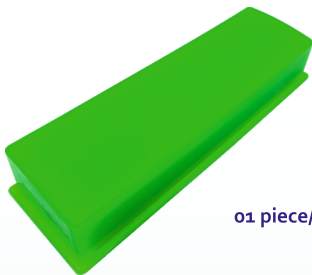
01 piece/pack



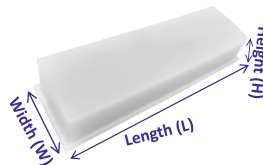
Item	Size	Dimensions (mm) L*W*H
<b>DOME-S</b>	<b>Small</b>	<b>350 x 145 x 75</b>
<b>DOME-M</b>	<b>Medium</b>	<b>405 x 150 x 100</b>
<b>DOME-L</b>	<b>Large</b>	<b>510 x 155 x 125</b>

- Provides excellent support and stability to chest areas & other body parts by complete pressure redistribution
- Elevate the chest area and also useful in multiple sites

**Flat Bottom Chest Roll**  
*Standard positioner*



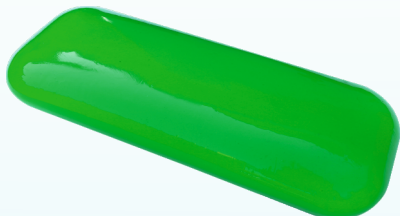
01 piece/pack



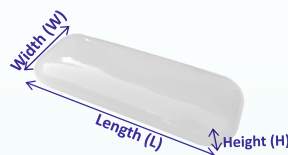
Item	Size	Dimensions (mm) L*W*H
<b>FBCR-M</b>	<b>Medium</b>	<b>405 x 140 x 100</b>
<b>FBCR-L</b>	<b>Large</b>	<b>510 x 150 x 100</b>

- Provides excellent support and stability to chest areas during prolonged surgeries
- Pressure redistribution in chest area preventing bed sores

**Universal Positioner**  
*All-site positioner*



01 piece/pack



Item	Size	Dimensions (mm) L*W*H
<b>UP-SD</b>	<b>Standard</b>	<b>420 x 145 x 60</b>

- It has unique and smooth curve structural line allows it to position at every body part.
- It has single phase continuous surface with complete pressure redistribution & support even twisted body parts



Organic



Single Phase



Non Film



Elastomeric



No Leak



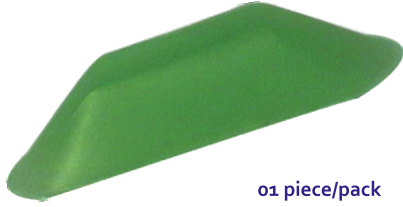
Non Allergenic

ASTSOPVIII-5 [B] - A softly padded headrest should be used that does not apply pressure to the eyes & nose and provides space for airway access. Medigel® Mac Horse Shoe Ring is ergonomically designed with specific eye pressure relief and ease of access to all intubations fulfilling the requirement.

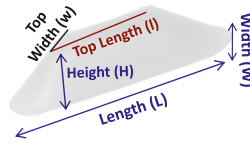


**Patient Positioner Device**

*Multi-site positioner*



01 piece/pack

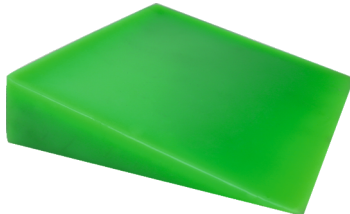


Item	Size	Dimensions (mm) L* W*H [l*w]
PPD-M	Medium	420 x 130 x 55 [200 x 95]

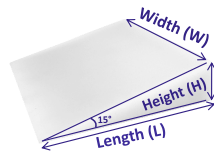
- Supports patient's twisted body parts during prolonged surgeries
- Protect body parts in various uncomfortable positions against torque by complete pressure redistribution

**Wedge Positioner (15°)**

*Body Elevator*



01 piece/pack

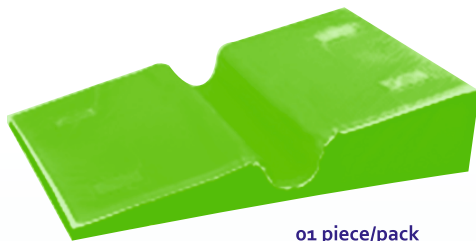


Item	Size	Dimensions (mm) L* W*H
WP-15	15°	280 x 280 x 75

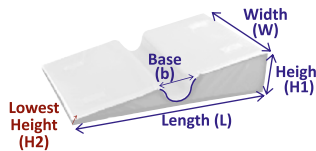
- It is a positioning device that rests body part at an angle of 15° slant
- Elevate body part while distribute pressure equally in all directions

**Lateral Positioner**

*Side Positioner*



01 piece/pack



Item	Size	Dimensions (mm) L* W*H [(b*d)(w1*w2)]
LP-SD	Standard	710 x 480 x 150 x 25 [170 x 60]

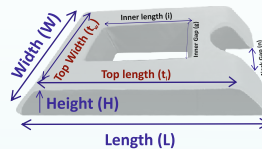
- It provides platform that rests the body part like upper part of arm while the patient needs to extend its arm in contoured arm board
- Elevates upper arm provides similar positioning in various positions

**Prone Gel Bed**

*Upper Body Protector*



01 piece/pack



Item	Size	Dimensions (mm) L* W*H (t <sub>i</sub> *t <sub>w</sub> )(i*g*n)
PGB-SD	Standard	780 X 530 X 125 (600 X 530) (360 X 280 X 210)

- Provides extreme cushioning to upper abdominal area while using it with Prone Head Rest
- Cut-outs for positioning Head Rests & Arm Boards to stabilise upper body in prone position



Organic



Single Phase



Non Film



Elastomeric



No Leak



Non Allergenic

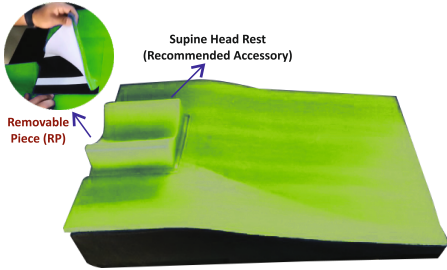


**AST SOP –V:** The risk of falling of patient should be reduced. **Medigel® Mac OT positioners** are non-slippery and doesn't aid support to risk of falling patients.

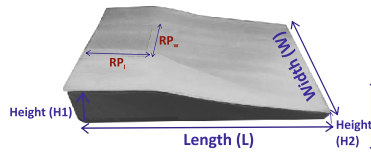
New!

## Elevation Pillow

Upper Body Elevator



01 piece/pack



Item	Size	Dimensions (mm) L*W*H1*H2(RP1*RP2)
EP-SD	Standard	750 X 510 X 137 X 37 (175 X 180)

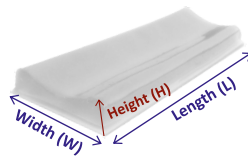
- Elevates upper/lower body part based on positioning requirement
- Slant neck support aligns body with optimal blood circulation in stabilised body parts

## Contoured Arm Board Pad

Multifunctional extensor



01 piece/pack



Item	Size	Dimensions (mm) L*W*H
CONT-ABP	Standard	500 x 130 x 35

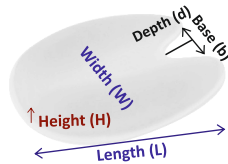
- Anatomically shaped armboard pad to provide support by pressure redistribution
- Slightly grooved to hold the arm with release of pressure on either direction

## Sacral Protector

Specific-site padded device



01 piece/pack

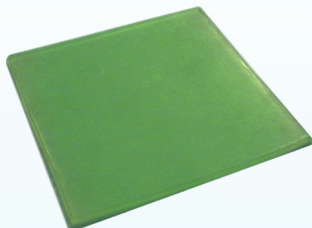


Item	Size	Dimensions (mm) L* W*H [b*d]
SACP-SD	Standard	445 x 440 x 30 [130 x 100]

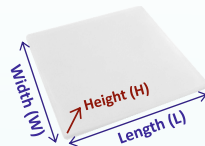
- Provides protection to unprotected sacral area in lithotomy and supine position, by relieving pressure and transverting it to peripheral areas

## Hip Pad Position Device

Critical functional positioner



01 piece/pack



Item	Size	Dimensions (mm) L*W*H
HPPD-S	Small	400 x 400 x 12
HPPD-L	Large	520 x 520 x 12

- Supports patient's hip during prolonged surgeries
- Hip protection with centrifugal equidistant pressure distribution



Organic



Single Phase



Non Film



Elastomeric



No Leak



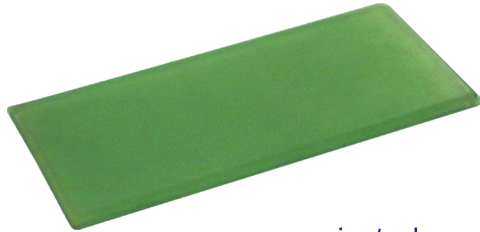
Non Allergenic

AST SOP –VIII (2:H) The patient's arms should be positioned to avoid nerve injury. Medigel® Mac Ulnar/ Brachial Nerve Protector System is designed to ensure no injury by traction and pressure as generally occurred in Ulnar region (brachial plexus)- fulfilling the requirement posed.

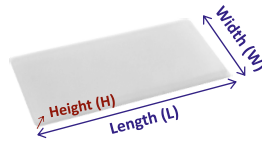


## Flat Arm Board Pad

*Multi-utility Extensor*



01 piece/pack

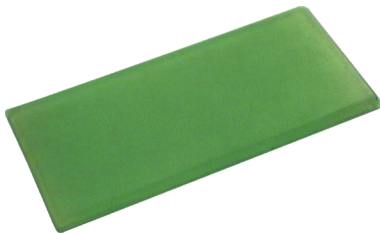


Item	Size	Dimensions (mm) L* W*H
FABP-SD	Standard	600 x 125 x 12

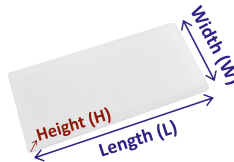
- FABP provides stabilized resting state to the extended arm during prolonged surgeries
- Standard OT Table Extensor useful in various body positions

## Ulnar/Brachial Nerve Protector

*Bi-functional protector*



01 piece/pack



Item	Size	Dimensions (mm) L* W*H
UBNP-M	Medium	350 x 150 x 10
UBNP-L	Large	450 x 200 x 10

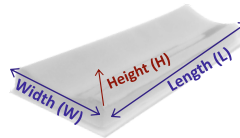
- Providing protection to the sensitive areas of elbows and arms during prolonged surgeries
- Comforting sensitive nerve areas by extreme cushioning

## Contoured Knee Pad

*Multifunctional device*



01 piece/pack



Item	Size	Dimensions (mm) L*W*H
CKP-SD	Standard	500 x 130 x 35

- Anatomically shaped knee pad to provide added support and stability by pressure redistribution
- Standard OT Table Extensor useful in multiple positions in lower body parts .



Organic



Single Phase



Non Film



Elastomeric



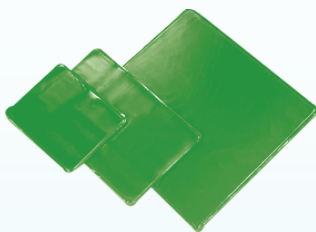
No Leak



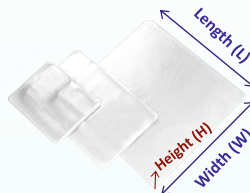
Non Allergenic

## Knee Crutch Pad

*Knee support device*



01 piece/pack



Item	Size	Dimensions (mm) L* W*H
KCP-S	Small	230 x 300 x 12
KCP-M	Medium	280 x 400 x 12
KCP-L	Large	300 x 500 x 12

- Support to base of knee and leg, stabilize the position while knee and leg is aligned at multiple angles, resting during prolonged surgeries
- Protect nerve endings and complete pressure redistribution allows blood flow

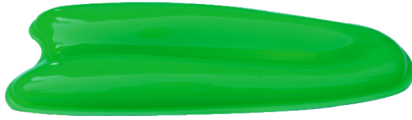
**AST SOP –VIII (2:E-F):** The pressure points & bony prominence should be identified & properly padded. No body part should extend beyond the edge or end of the OR table / positioning devices, such as armboards to avoid nerve injury. **Medigel® Mac Contoured Armboards / Knee Pads / Leg Rest** are designed such that body extension doesn't go beyond the limits of OT table & its elastomeric ability useful for padding & support.



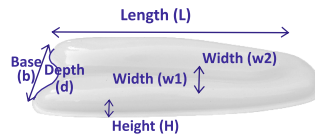


## Contoured Leg Rest

*Leg resting positioner*



01 pair/pack

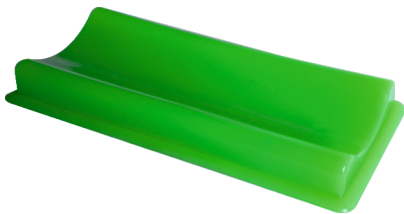


Item	Size	Dimensions (mm) L* W*H [(b*d)(w1*w2)]
CLP-SD	Standard	500 x 170 x 40

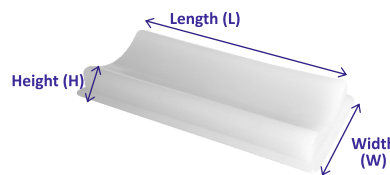
- Ergonomic designed support to leg and heel area protects popliteal nerve by aligning with knee groove till anterior end of ankle region.
- Standard OT Table Resting device useful in providing stability to multiple body positions.

## Contoured Calf Rest

*Calf Resting Device*



01 pair/pack



Item	Size	Dimensions (mm) L* W*H
CCR-SD	Standard	300 x 130 x 35

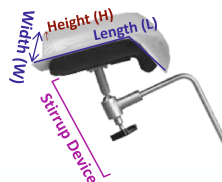
- It has grooved structure with slight curved edge as resting surface for calf area.
- Single phase continuous surface with enhanced pressure distribution on either side supporting calf as padded support device

## Crutch Stirrup Pad

*Knee & leg resting device*



01 pair/pack  
 (without Stirrup Device)



Item	Size	Dimensions (mm) L*W*H
CSP-S	Small	320 x 220 x 10
CSP-M	Medium	400 x 250 x 10
CSP-L	Large	520 x 300 x 10

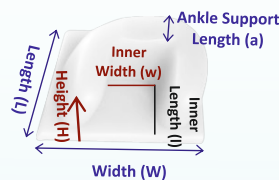
- Designed to fit both Lloyd Davies & various types of stirrups / leg-holders to relieve pressure from nerves and allows blood flow especially during lithotomy procedures.
- Protect against frictional impact, shear force and nerve injury.

## Heel Cup (Without Strap)

*Lower Extremity Resting Device*



01 pair/pack



Item	Size	Dimensions (mm) L*W*H [l*w*a]
HCWS-SD	Standard	130x 180 x 65 [60 x 80 x 40]

- Designed to provide maximum protection to heel and ankle area during prolonged surgeries.
- Elastomeric rebound at body extremity by extreme resting state and adequate blood flow preventing foot ulceration.



Organic



Single Phase



Non Film



Elastomeric



No Leak



Non Allergenic

AST SOP VIII-4 [M(4)] Pressure points should be well-padded including the occiput, lumbosacral area, and heels. Medigel® Mac OT Positioning Devices provide support and padded devices for all these positions.

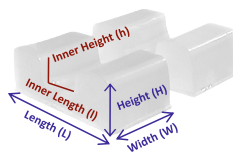


## Heel Support Pad

Lower Extremity Protector



01 pair/pack



Item	Size	Dimensions (mm) L*W*H [l*h]
HSP-M	Medium	150 x 80 x 55 [50 x 30]
HSP-L	Large	200 x 100 x 75 [75 x 35]

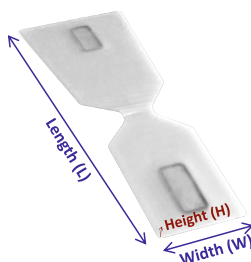
- Relieves pressure & enhanced blood flow to lower extremity by elastomeric ankle support and air cushioning to heels.
- Especially used in foot sole surgeries by exposing foot area.

## Boot Stirrup Pad

Foot & ankle resting device



01 pair/pack



Item	Size	Dimensions (mm) L*W*H
BSP-SD	Standard	600 x 150 x 10

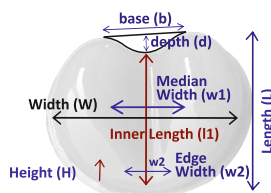
- Designed to protect patient's foot & ankle area in universal stirrups.
- Pads are used in lithotomy position for gynecological & urological procedures; colon/rectal cases.

## Heel Protector

Lower Extremity Protector



01 pair/pack



Item	Size	Dimensions (mm) L*W*H [(b*d)(l1*w1*w2)]
HPR-SD	Standard	175 x 180 x 40 [20 x 60] [170 x 60 x 10]

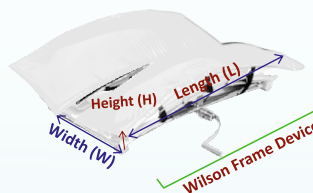
- It looks like heart shaped with elevated areas to protect heel on either side. Inner curvature provide padded platform for the heels during prolonged surgeries
- Single phase continuous surface, ergonomically designed to relieve pressure, enhanced blood flow to extremities with padded support till ankle region

## Wilson Frame Pad

Spine aligner -cum-cushioner



01 pair/pack  
(without Wilson Frame Device)



Item	Size	Dimensions (mm) L*W*H
WFP-M	Medium	660 x 100 x 12
WFP-L	Large	750 x 255 x 12

- Supports patient's spine by aligning it on wilson frame and WFP provide extreme elastomeric cushioning with added protection from shear & pressure. WFP is provided alone and not with Wilson frame.
- Prefixed on frame with hoop & loop attachment used frequently in neurological & orthopaedic prolonged surgical procedures



Organic



Single Phase



Non Film



Elastomeric



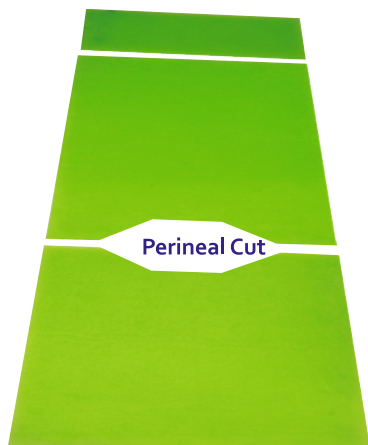
No Leak



Non Allergenic

AST SOP VIII-4 [M(4)] Pressure points should be well-padded including the occiput, lumbosacral area, and heels. Medigel® Mac OT Positioning Devices provide support and padded devices for all these positions.

## Operation Theatre Table Pads



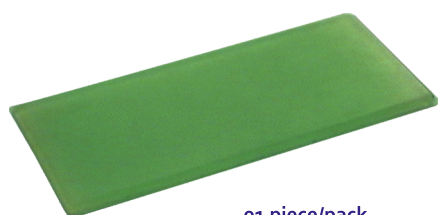
OT Table Pad (Flat Type) - 3Pc set  
 Whole body cushioning prevents bed sores

Item	Operation Theatre Table Pads*	Dimensions (mm) L*W*H
UOTP-F	Universal Operating Table Pad, Flat Type	500 X 500 X 12
HLOTP-F	Half Length Operating Table Pad, Flat Type	900 X 500 X 12
¾ LOTP-F	¾ Length Operating Table Pad, Flat Type	1150 X 500 X 12
¾ LOTP-WCO	¾ Length Operating Table Pad, Flat Type, With Cut-Out	1150 X 500 X 12
PTP-F	Perineal Table Pad, Flat Type, With Cut-Out	500 X 500 X 12
OTTP-3-F	Operation Theatre Table Pad 3pc. set Flat Type	
	Head Section	225 X 500 X 12
	Torso Section	990 X 500 X 12
	Foot Section	500 X 500 X 12

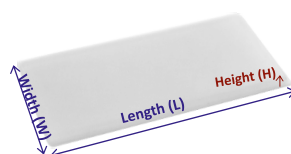
\* All OT Table Pads except OTTP-3-F are single unit packs

## Face/ Fore Head Protector

Uni-site protector



01 piece/pack



Item	Size	Dimensions (mm) L* W*H
FHP-SD	Standard	165 x 80 x 8

- Protect the patient's forehead / facial contours from pressure caused by endotracheal tubes
- Universal protector and it can be used at any similar body site

## Covid Coat+

Prolonged Surface Protection



01 Liter/pack



Item	Volume	Protection Period (Single Coat)
CC+[90]	1 ltr	90 Days

- Protect against hospital pathogens (bacterial and viral), neutralizes COVID-19 & prevent biofouling
- Ideal Surface Protective Coating for providing prolonged protection to ICU Beds, Devices, Wards & multiple surfaces



Organic



Single Phase



Non Film



Elastomeric



No Leak



Non Allergenic

AST SOP –IV (1-2): OT positioning device should be able to (a) prevent risk of pressure ulcers as one of the Joint commission's 2006 National Patient Safety Goal Number 14; (b) fit into Braden scale assessment (1-4) based on his/ her sensory perception; skin moisture; physical activity; mobility; nutrition; friction and shear; (c) skin wrinkling should be limited; (d)> 95% ulcers in lower extremity devices and; (e) pre-existing ulcers should be monitored.





## **Gel Craft Healthcare (P) Ltd.**

WHO GMP Certified & QCI Approved Manufacturing Facility

ISO 9001 : 2015 & ISO 13485 : 2016

Technology Partner of DRDO (CBRN Ultra Devices)

Manufacturing Facility (India)

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