

THE NEXT GENERATION OF PECTUS EXCAVATUM SURGERY



Park's **Pectus** System (NeoPectus Surgery)

Developed by;

Hyung Joo Park, MD, PhD, FCCP

Pectus and Chest Wall Institute Cleveland Clinic

Professor

Cleveland Clinic Lerner College of Medicine Case Western Reserve
University School of Medicine



World's Largest Pectus Surgery Experience: 8,000 Cases for 26 Years

Developing 35 New Surgical Technique & Devices: Park's Technique,

Remodel to Physiologically/Anatomically Normal Chest Wall

Safe and Less Complicated Procedure

Creating a Unique Method to Repair Pectus Carinatum and Mixed Deformities

Creating a Unique Method to Repair Pectus Arcuatum

Former President of Chest Wall International Group (CWIG)

Visiting Surgery to USA, France, Portugal, Spain, and Switzerland

Visiting Surgery to Hong Kong, China, Taiwan, Malaysia, Brunei, Vietnam, and Mexico

100 International Lectures Worldwide

Professor Emeritus, The Catholic University of Korea, Seoul St. Mary's Hospital

Director, NeoPectus Center, Gangnam Nanoori Hospital, Seoul, South Korea

- Park's Technique -

GOALS: To lift the depressed chest wall and reconstruct it to become functionally and aesthetically normal.

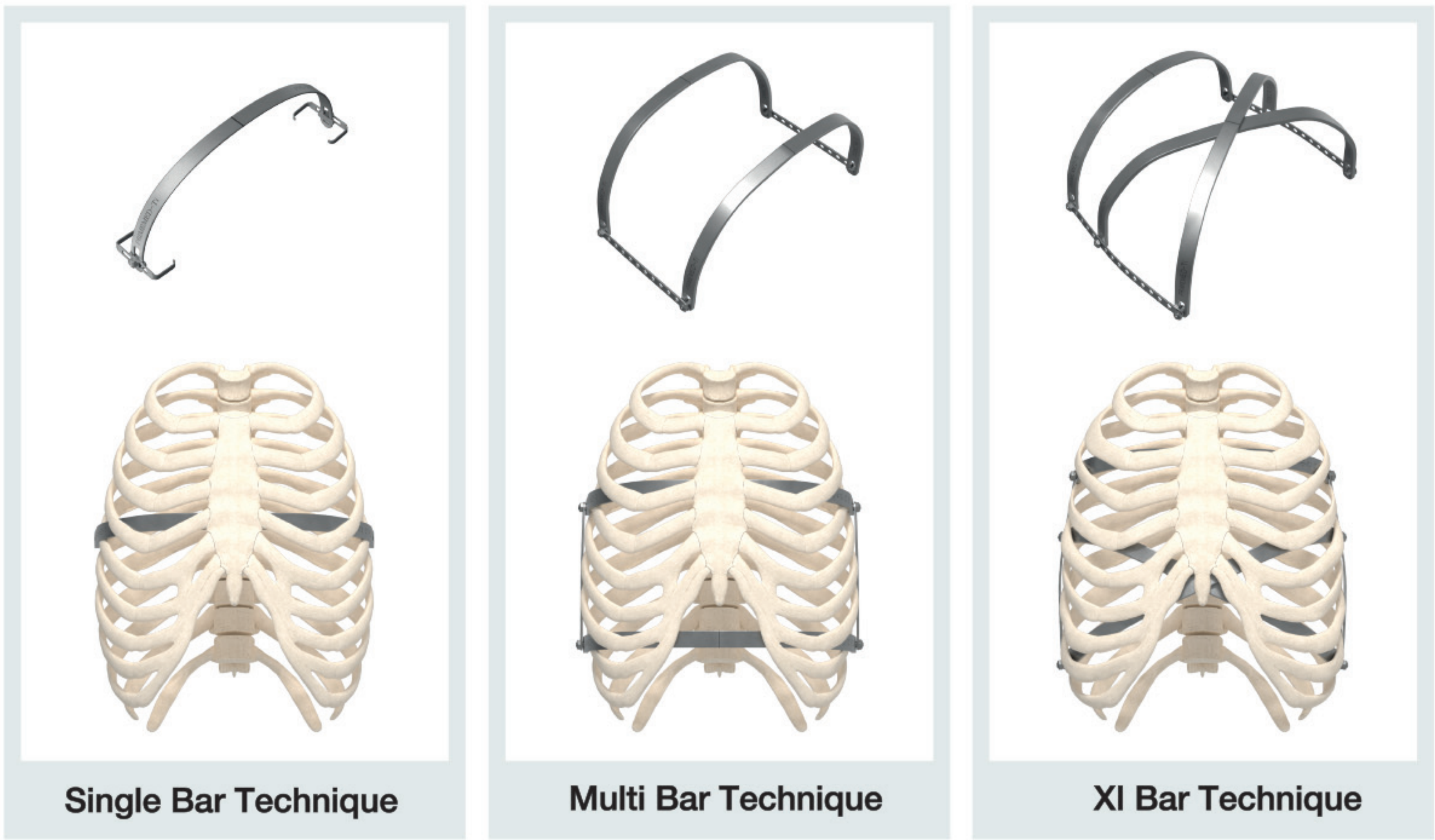
Park's pectus deformity correction approach aims to promote both physical and mental wellbeing by reducing heart compression and restoring a healthy chest wall.

1. Physiological Chest Wall: Relieving Cardiac Compression
2. Anatomical Chest Wall: Remodel to Normal Chest Wall

Park's Pectus System

A safe and simple technique for Pectus Excavatum Correction!

Dr. Park has developed simple and safest minimally invasive pectus implants to remodel the chest disorder. This congenital deformity appears in approximately one of every 1,000 children. This concave funnel shaped chest can pressure the vital organs, resulting in restricted organ growth and shortness of breath.



Bar displacement rate of Bridge Fixator

	POD5	POM4	Difference	P	
	Upper Bar	86.66 ± 5.31	86.89 ± 5.40	0.23	0.602
	Lower Bar	92.39 ± 5.14	92.04 ± 5.22	0.35	0.338

Park's Pectus System

Description ;

Park's Pectus System is used in a minimally invasive surgical procedure to correct pectus excavatum, a type of deformity of the thoracic wall, characterized by a concave shaped chest.

This device consists of pectus bar and stabilizer to lift the sternum upwards to lessen the severity of the deformity.

Park's Pectus System includes unique and special devices like the Claw Fixator and Bridge Fixator used in surgical procedures of chest wall deformities.

Features ;

Pectus bar's rounded and smooth ends prevent tissue damage.

The Pre-Bent Pectus Bar is pre-curved to match the chest contour, reducing intraoperative bending and shortening operation time.

It provides both titanium and stainless bar options

(Titanium is provided to the patients with nickel allergies).

The Claw Fixator stabilizer helps the bar to be attached firmly under the sternum.

The Immobilized Clip prevents inward sliding during installation to facilitate easy and accurate fixation, and locks securely onto the bar.

The Bridge Fixator is the connection between bars and fixed with clips and nuts.

Crane combo system makes it easy to lift a sternum and press a flare during surgery.

Benefits ;

Minimally invasive technique; no incision in the anterior chest wall, no resection of rib cartilages and no sternal osteotomy

Prevent bar displacement with excellent stability

Best cosmetic result

Reducing operating time

Minimal Blood Loss

Fast recovery

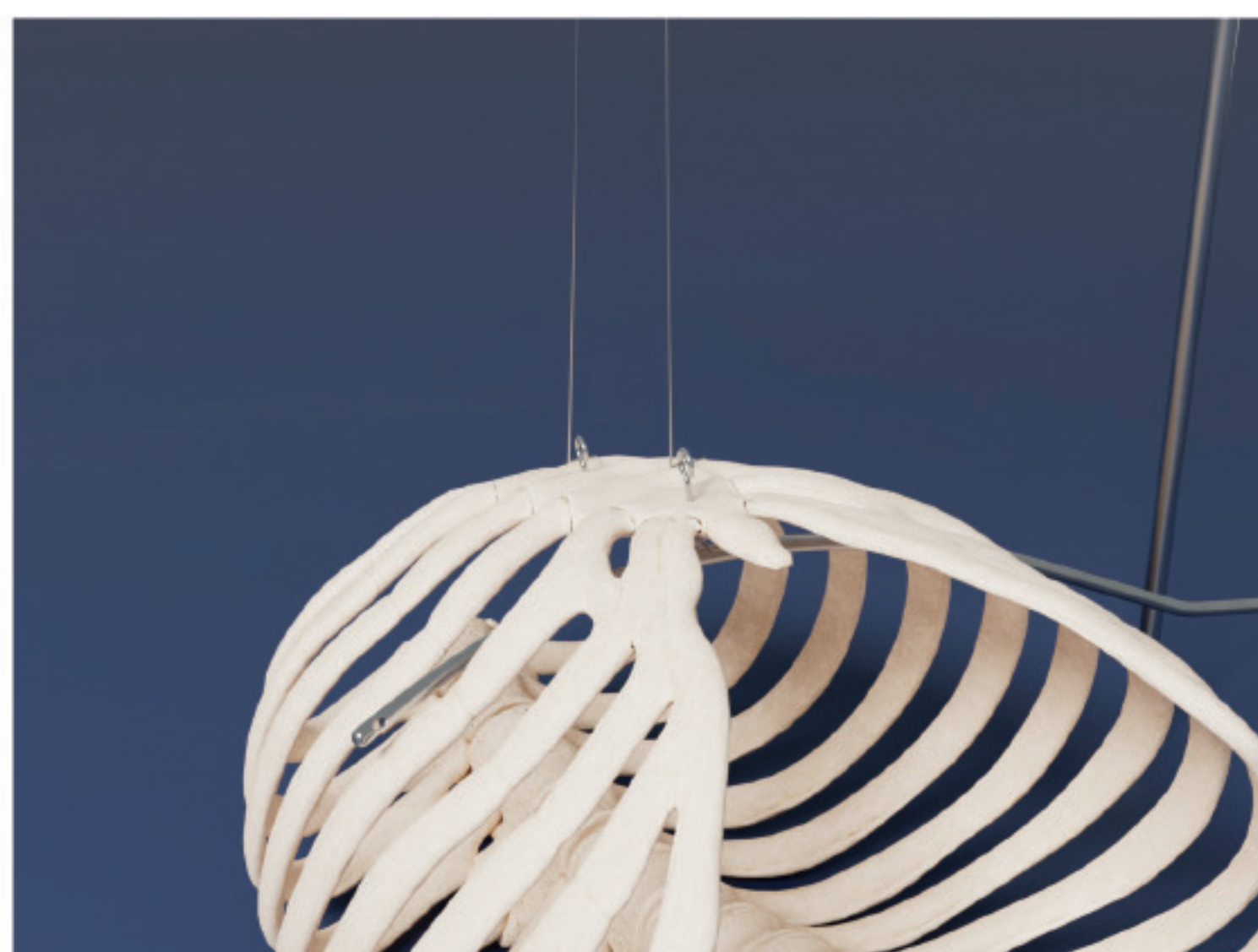
Distinctive Elements of Park's Method

Safe Procedure and Restoring the Anatomical Integrity of the Chest Wall are the Keys to Modern Minimally Invasive Repair of Pectus Deformity.

1 **Safety:** Crane Technique, Pectoscope (curved dissecting Scope)



- Screw Crane Pre-Lifting of the Sternum

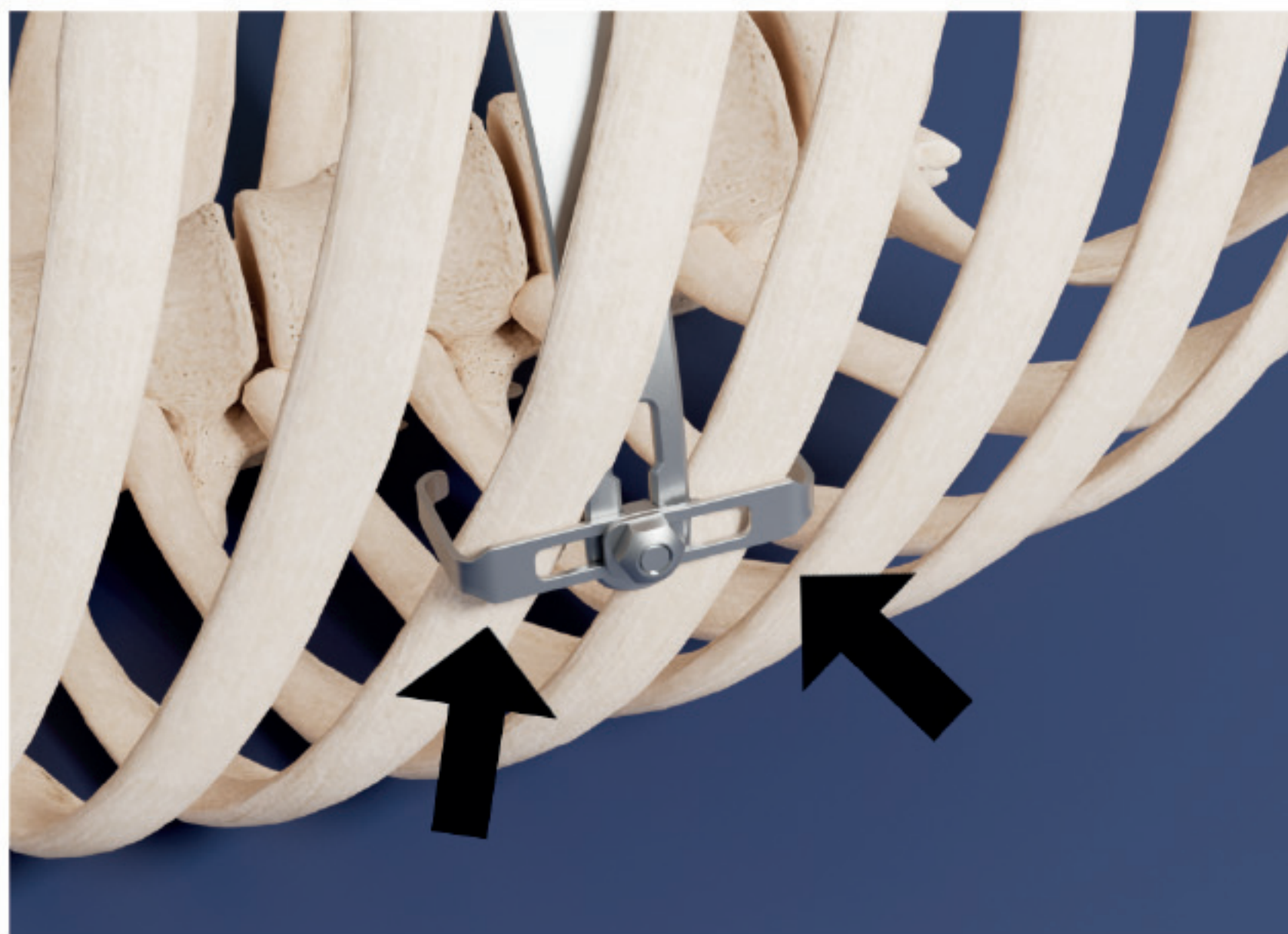


- Pectoscopic Dissection of the Mediastinum



Easy Crane System

2 Pectus Bar Stabilization: Claw Fixator for Single bar, Bridge Plate for Multiple Bars



- Claw Fixators Anchor the Pectus Bar to the Adjacent Ribs

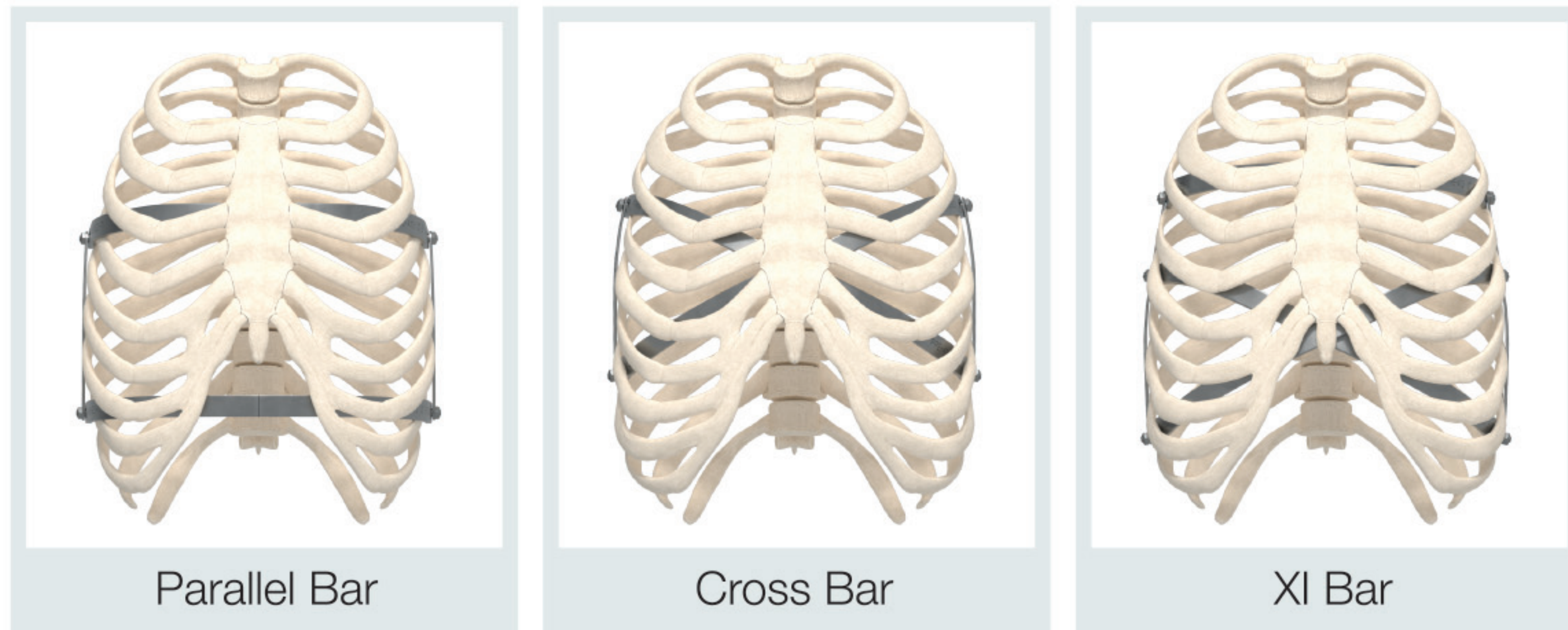


- Bridge Plate Connection of Multiple Bars to Anchor Together

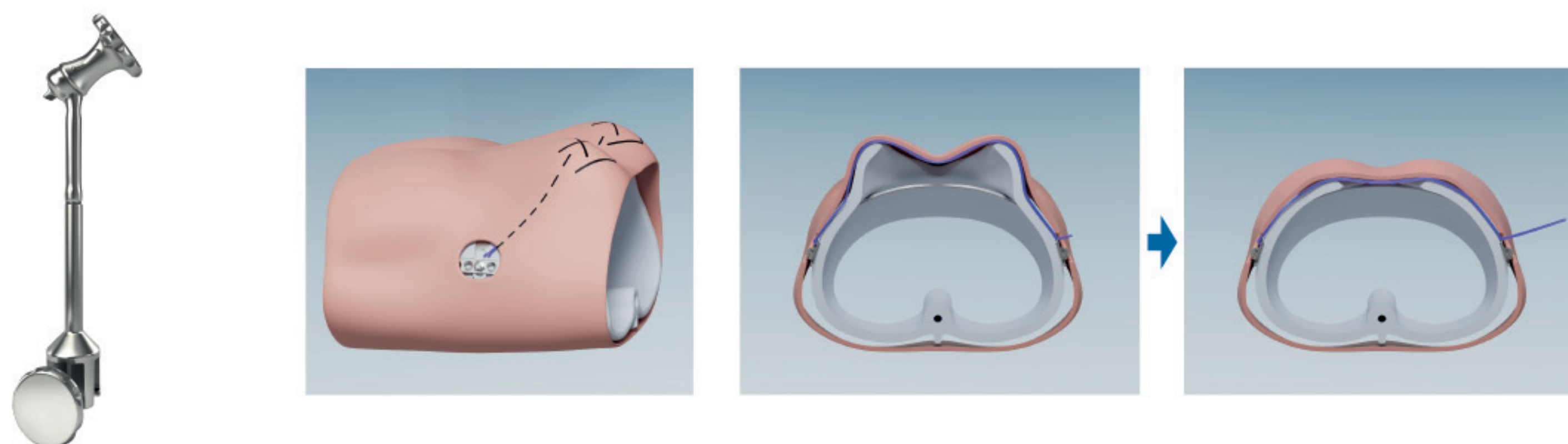


- Multiple Bars with the Bridge Stabilization

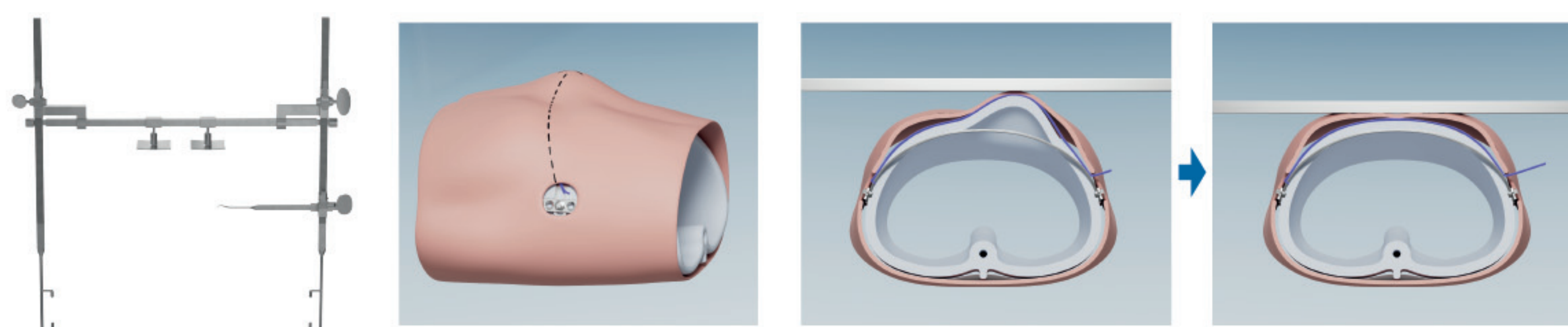
3 Entire Chest Wall Remodeling: Parallel bar, Cross bar, XI bar Technique



4 Relief of Lower Rib Cage Flare and Focal Protuberances after Pectus Excavatum Repair: Flare-buster and the Magic String Technique with Flare-buster Tightener

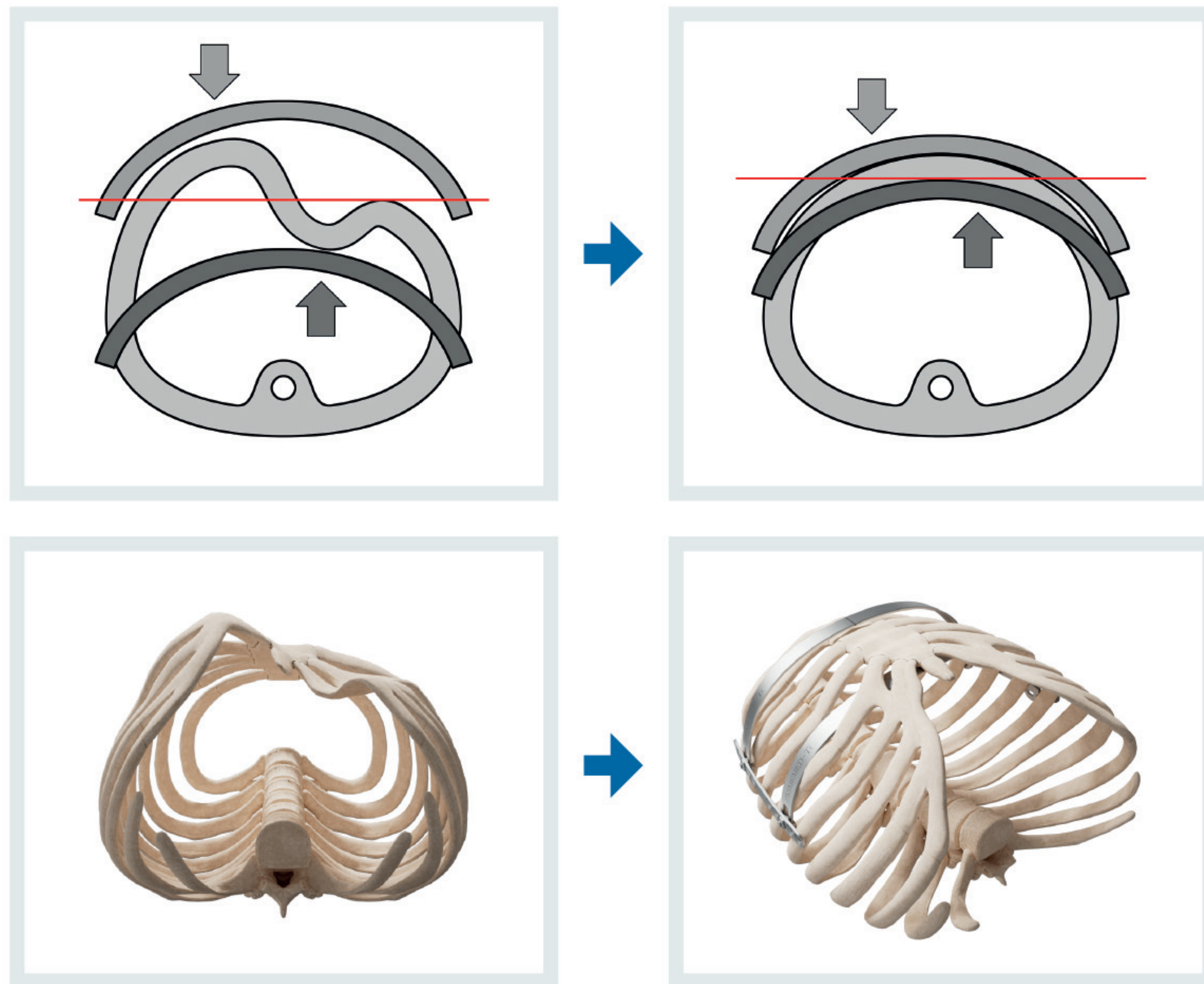


- Flare-buster to Relieve the Lower Costal Flare after PE Repair



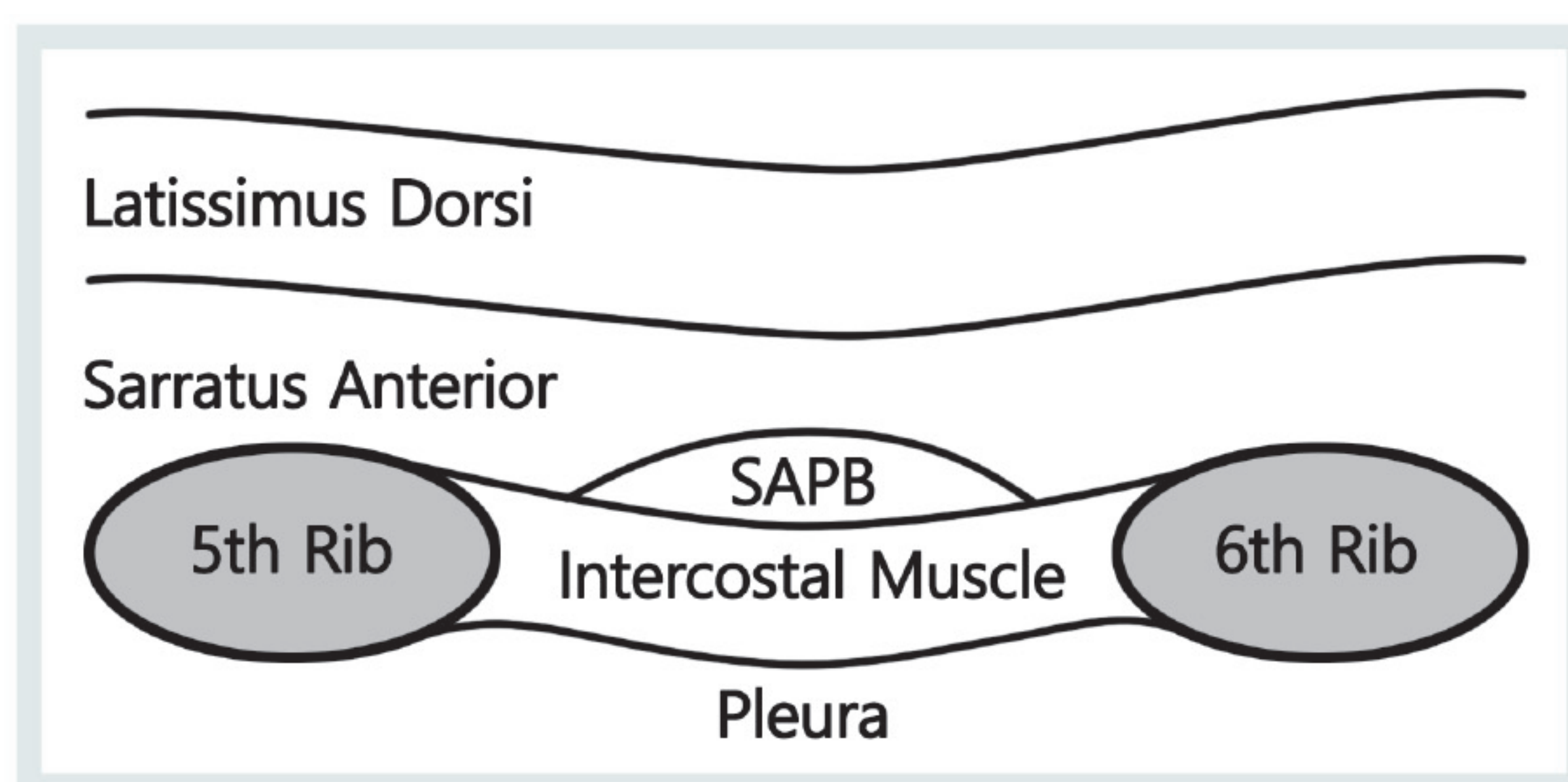
- Magic String Technique with compressor to Relieve the Focal Protuberances after PE Repair

5 Pectus Carinatum/Pectus Concavo-convexus Repair: The Sandwich Technique



- Sandwich Technique to Repair Pectus Carinatum and Mixed Deformities

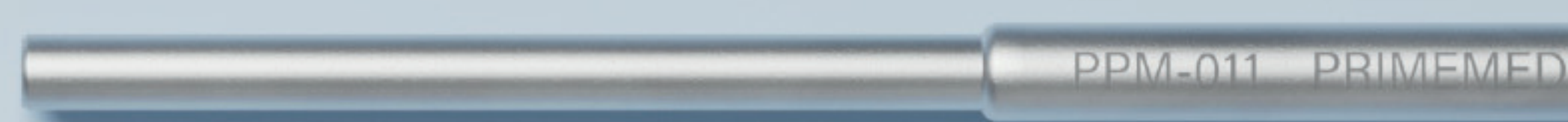
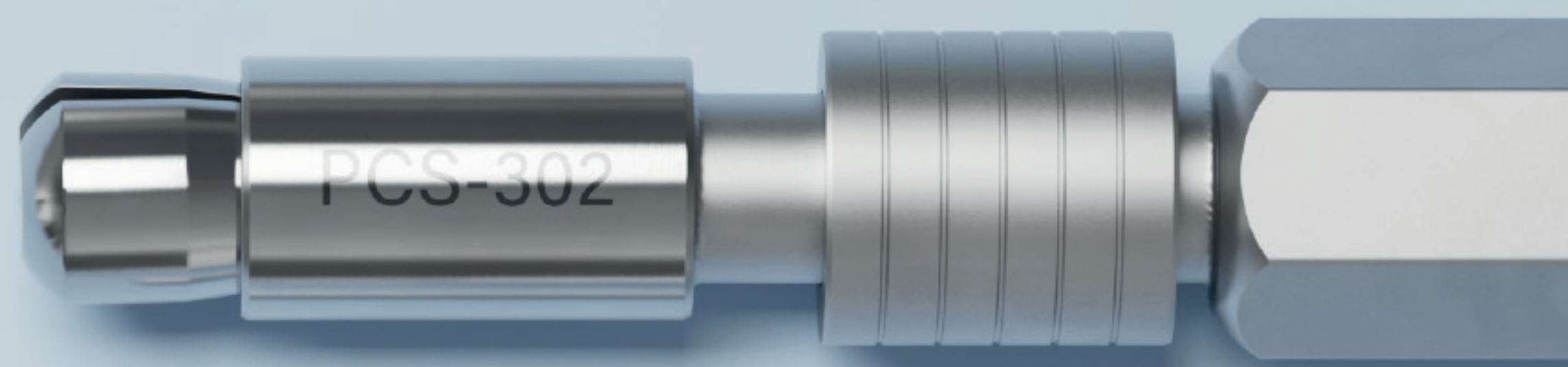
6 Postoperative Pain Management: Serratus Anterior Plane Block (SAPB)



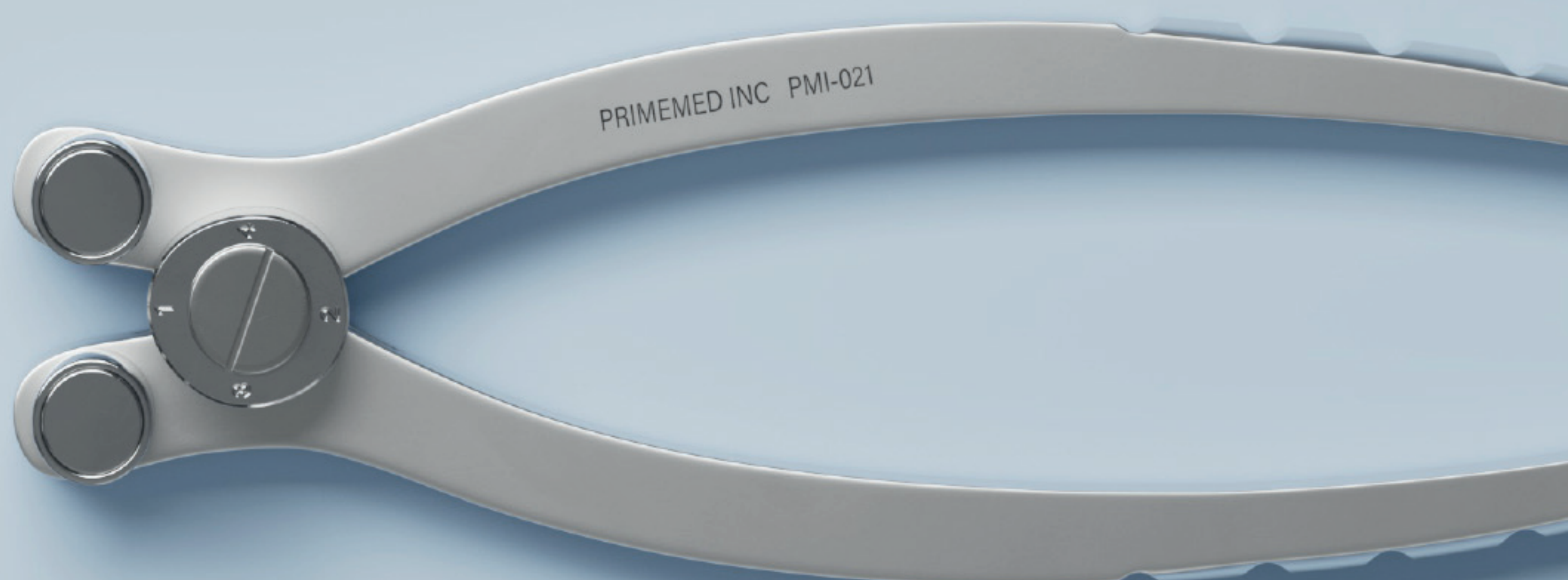
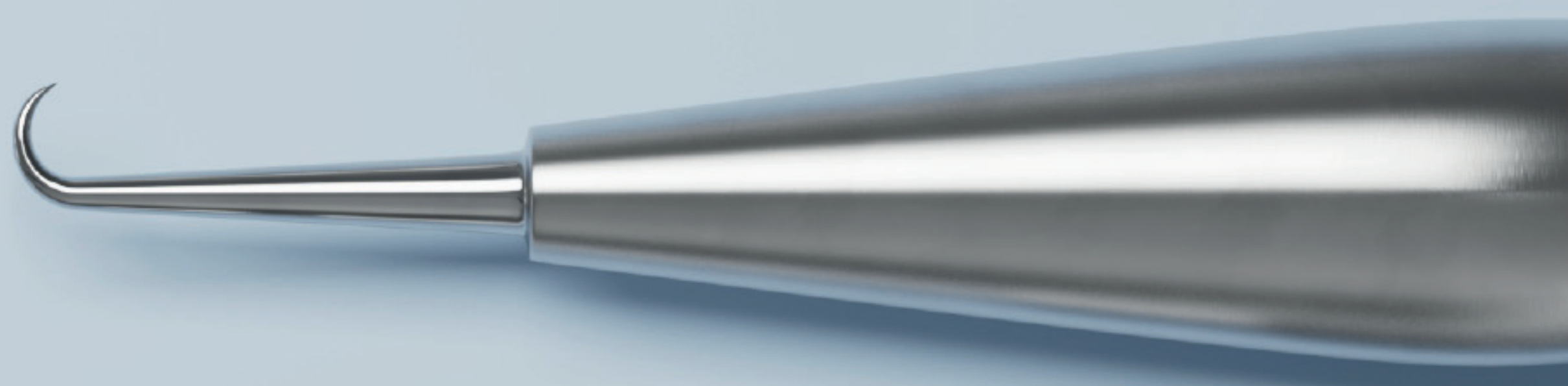
- Local Anesthetic Infusion into the Serratus Anterior Plane

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Park's Pectus System



PRODUCT INFO



Park's Pectus Bar

Pre Bent Pectus Bar - Rounded end



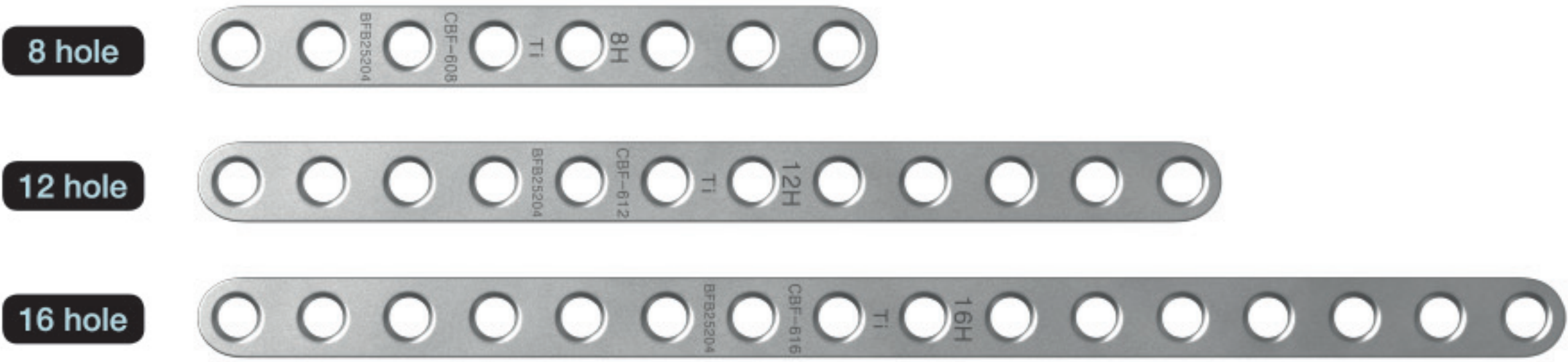
Cat #		Description	Thickness	Cat #		Description	Thickness
Titanium Alloy	Stainless Steel			Titanium Alloy	Stainless Steel		
PPE-406	PPE-406S	PRE BENT PECTUS BAR, 6"	2.8mm	PPE-406H	PPE-406SH	PRE BENT PECTUS BAR, 6.5"	2.8mm
PPE-407	PPE-407S	PRE BENT PECTUS BAR, 7"		PPE-407H	PPE-407SH	PRE BENT PECTUS BAR, 7.5"	
PPE-408	PPE-408S	PRE BENT PECTUS BAR, 8"		PPE-408H	PPE-408SH	PRE BENT PECTUS BAR, 8.5"	
PPE-409	PPE-409S	PRE BENT PECTUS BAR, 9"		PPE-409H	PPE-409SH	PRE BENT PECTUS BAR, 9.5"	
PPE-410	PPE-410S	PRE BENT PECTUS BAR, 10"		PPE-410H	PPE-410SH	PRE BENT PECTUS BAR, 10.5"	
PPE-411	PPE-411S	PRE BENT PECTUS BAR, 11"		PPE-411H	PPE-411SH	PRE BENT PECTUS BAR, 11.5"	
PPE-412	PPE-412S	PRE BENT PECTUS BAR, 12"		PPE-412H	PPE-412SH	PRE BENT PECTUS BAR, 12.5"	
PPE-413	PPE-413S	PRE BENT PECTUS BAR, 13"		PPE-413H	PPE-413SH	PRE BENT PECTUS BAR, 13.5"	
PPE-414	PPE-414S	PRE BENT PECTUS BAR, 14"		PPE-414H	PPE-414SH	PRE BENT PECTUS BAR, 14.5"	
PPE-415	PPE-415S	PRE BENT PECTUS BAR, 15"		PPE-415H	PPE-415SH	PRE BENT PECTUS BAR, 15.5"	
PPE-416	PPE-416S	PRE BENT PECTUS BAR, 16"		PPE-416H	PPE-416SH	PRE BENT PECTUS BAR, 16.5"	
PPE-417	PPE-417S	PRE BENT PECTUS BAR, 17"		PPE-417H	PPE-417SH	PRE BENT PECTUS BAR, 17.5"	

Park's Fixation System

Stabilizer-Immobilized Clip

Cat #		Description			
Titanium Alloy	Stainless Steel				
PCF-513	PCF-513S	CLIP, 17x5x8.0mm		Clip	
PCF-515	PCF-515S	CLIP, 17x5x11.0mm			
PCFB-612	PCFB-612S	Claw Fixator, S, 20x12mm, pre-bending type		Claw-Fixator, Pre-bending	
PCFB-115	PCFB-115S	Claw Fixator, S, 20x15mm, pre-bending type			
PCFB-118	PCFB-118S	Claw Fixator, S, 20x18mm, pre-bending type			
PCFB-122	PCFB-122S	Claw Fixator, S, 20x22mm, pre-bending type			
PCFB-212	PCFB-212S	Claw Fixator, M, 23x12mm, pre-bending type			
PCFB-615	PCFB-615S	Claw Fixator, M, 23x15mm, pre-bending type			
PCFB-218	PCFB-218S	Claw Fixator, M, 23x18mm, pre-bending type			
PCFB-222	PCFB-222S	Claw Fixator, M, 23x22mm, pre-bending type			
PCFB-618	PCFB-618S	Claw Fixator, L, 25x18mm, pre-bending type			
PCFB-312	PCFB-312S	Claw Fixator, L, 28x12mm, pre-bending type			
PCFB-315	PCFB-315S	Claw Fixator, L, 28x15mm, pre-bending type			
PCFB-318	PCFB-318S	Claw Fixator, L, 28x18mm, pre-bending type			
PCFB-322	PCFB-322S	Claw Fixator, L, 28x22mm, pre-bending type			
PCFB-622	PCFB-622S	Claw Fixator, XL, 30x18mm, pre-bending type			
PCF-714	PCF-714S	Nut		Nut	

Stabilizer-Connected Bridge Fixator



Cat #		Description	Thickness
Titanium Alloy	Stainless Steel		
CBF-604	CBF-604S	Bridge Stabilizer, 4hole	1.2mm
CBF-606	CBF-606S	Bridge Stabilizer, 6hole	
CBF-608	CBF-608S	Bridge Stabilizer, 8hole	
CBF-610	CBF-610S	Bridge Stabilizer, 10hole	
CBF-612	CBF-612S	Bridge Stabilizer, 12hole	
CBF-614	CBF-614S	Bridge Stabilizer, 14hole	
CBF-616	CBF-616S	Bridge Stabilizer, 16hole	
CBF-618	CBF-618S	Bridge Stabilizer, 18hole	
CBF-620	CBF-620S	Bridge Stabilizer, 20hole	
CBF-718	CBF-718S	Bridge Stabilizer, 18hole	1.5mm
CBF-720	CBF-720S	Bridge Stabilizer, 20hole	

Stabilizer – Hinge Plate

Cat #		Description	
Titanium Alloy	Stainless Steel		
PCF-410	PCF-410S	Hinge Plate, 65mm, 3.0T	
PCF-411	PCF-411S	Hinge Plate, 65mm, 1.5T	

Instruments List

Fixator Clip Applier

Cat #

PPM-011



Hercules Bar Removal Bender

Cat #

PPM-012



Pectus Clamp

Cat #

PPM-013



Short Clamp

Cat #

PPM-014



Narrow Flipper

Cat #

PPM-015



Fixator Driver

Cat #

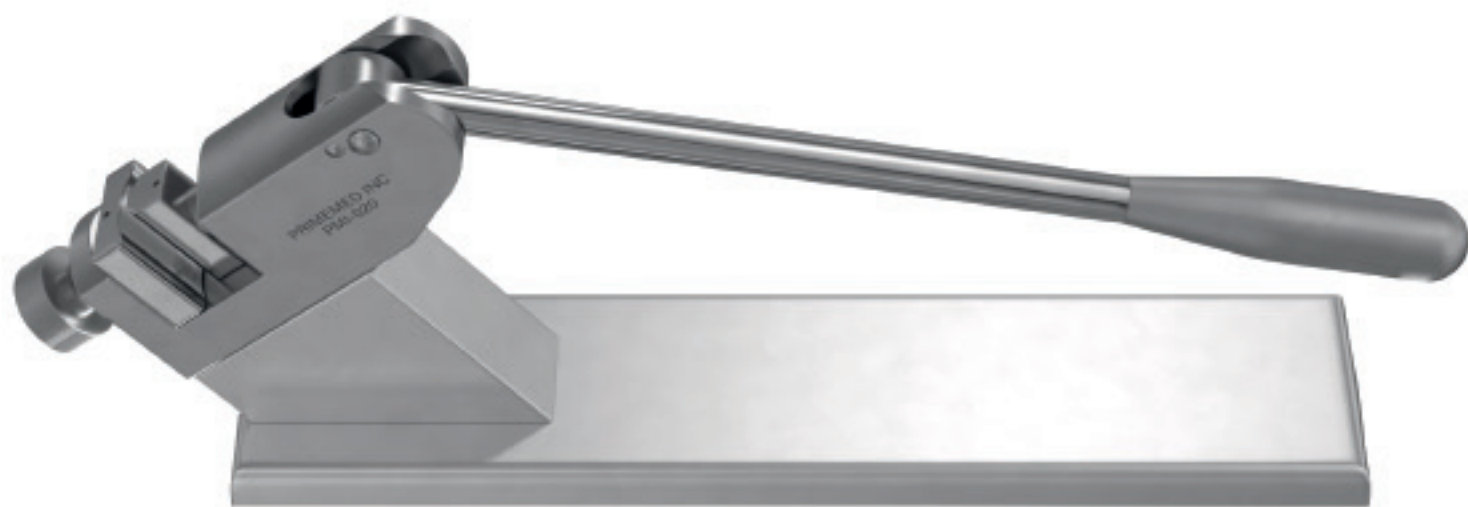
PPM-510



Table Top Bender

Cat #

PMI-020



Handheld Bar Bender

Cat #

PMI-021



Bar Introducer

Cat #

PMI-022 Small

PMI-023 Large



Rod Introducer

Cat #

PPM-123



Introducer Director

Cat #

PPM-124



Bar Positioning Hook

Cat #

PMI-053



Flare Buster Tunneler

Cat #

PMI-072



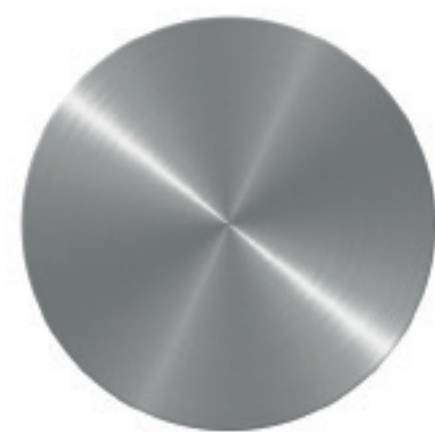
Flare Buster Tying Pusher

Cat #

PBF-505



Allergy Test Disk



Cat #

PPM-ATS Allergy test disk, SS, 1 x 10mm

PPM-ATT Allergy test disk, Ti, 1 x 10mm

Template Bar



Cat #	Description
PPE-208TP	Template bar 8 inch
PPE-209TP	Template bar 9 inch
PPE-210TP	Template bar 10 inch
PPE-211TP	Template bar 11 inch
PPE-212TP	Template bar 12 inch
PPE-213TP	Template bar 13 inch
PPE-214TP	Template bar 14 inch
PPE-215TP	Template bar 15 inch
PPE-216TP	Template bar 16 inch

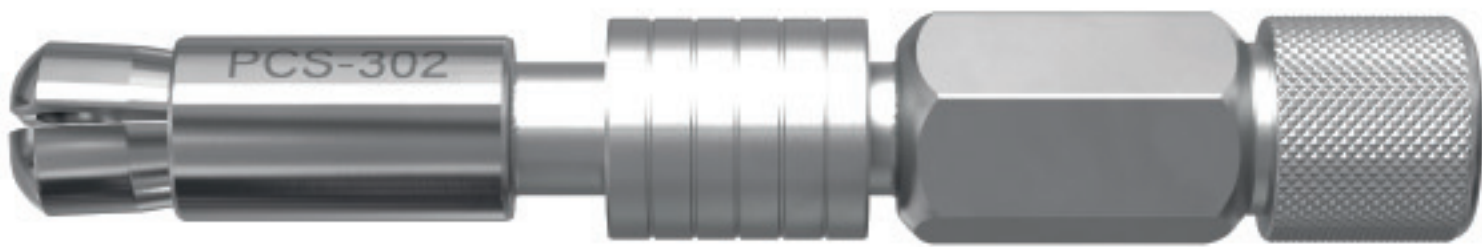
Easy Crane System (PPM-100)



Consist of ;

- PPM-102 Bottom Post x 1EA
- PPM-104 Supporting Bar x 1EA
- PPM-106 Crane Elevator x 1EA

Crane Screw Driver Cat # PCS-302



Flare Buster Tightener
Cat # PFB-500

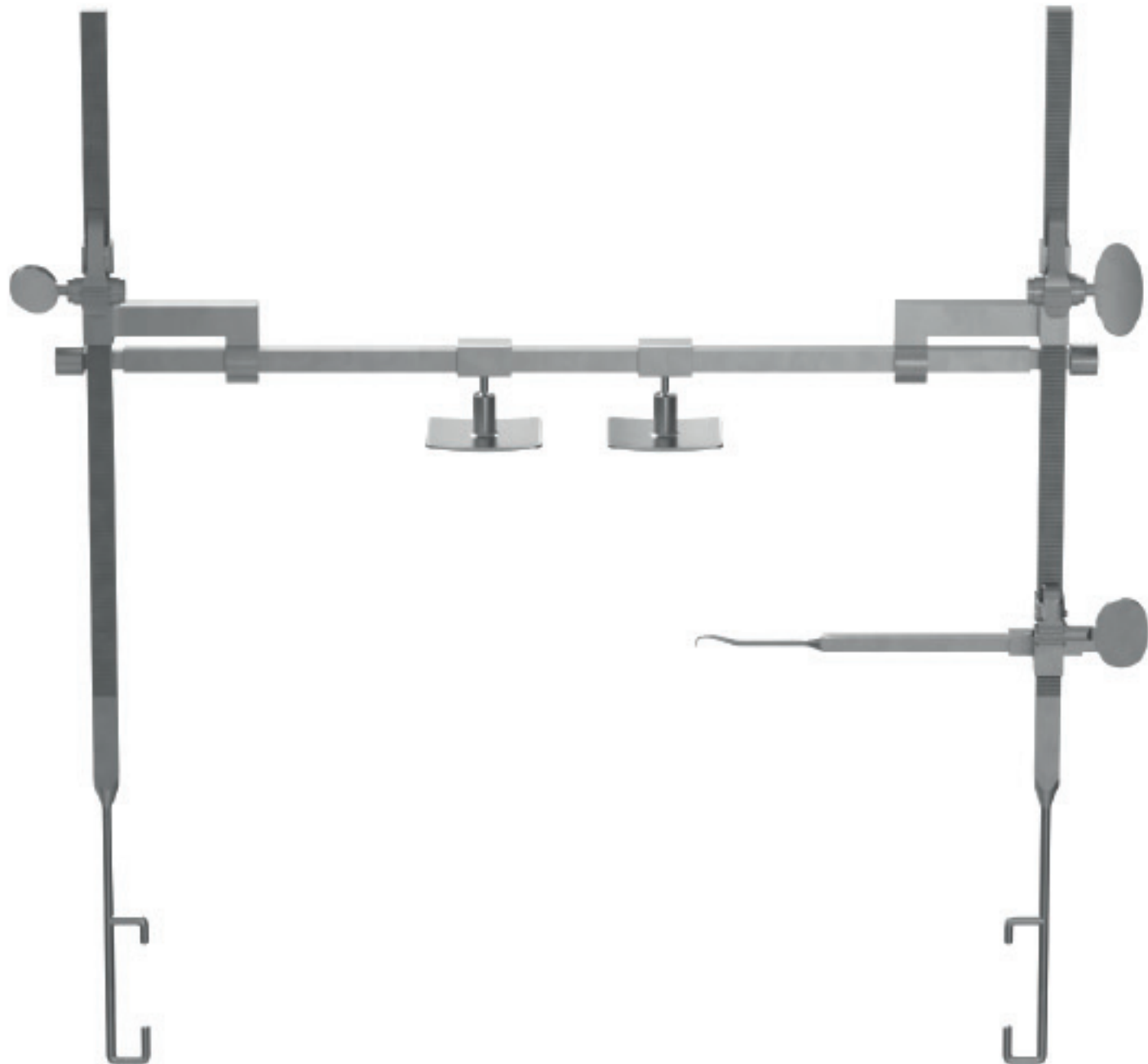


Pectus Crane Screw



Length	Ø	2.0 x 8MM	2.5 x 10MM
8MM		PSF - 3208	PSF - 4208
10MM		PSF - 3210	PSF - 4210
12MM		PSF - 3212	PSF - 4212
14MM		PSF - 3214	PSF - 4214
16MM		PSF - 3216	PSF - 4216

Compressor for Sandwich Technique (PPM-200)



Consist of ;

- PPM-202 Bottom Post x 2EA
- PPM-204 Supporting Cross Bar x 1EA
- PPM-206 Compressing Plate x 2EA
- PPM-208 Hook Puller x 1EA

PARK'S PECTUS SURGERY KIT

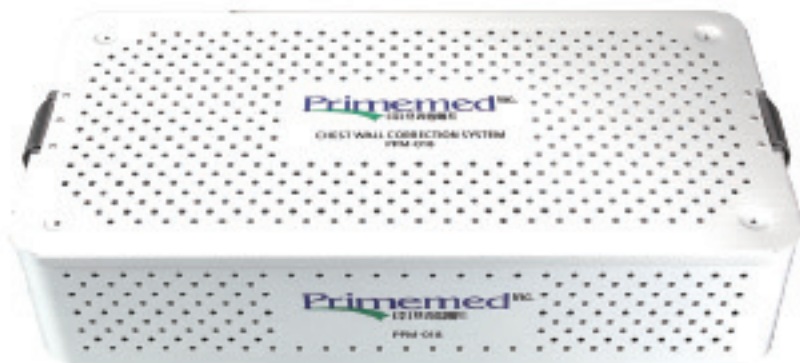
INDEX

NO	ITEM	DESCRIPTION	Q'TY
1	PPM-010	Fixator Driver	
2	PPM-011	Fixator Clip Applier	2EA
3	PPM-012	Hercules Bar Removal Bender	1EA
4	PPM-013	Pectus Clamp	1EA
5	PPM-014	Short Clamp	1EA
6	PPM-015	Narrow Flipper	2EA
7	PPM-018	Container Box	1EA
8	PPM-019	Fixator Container	1EA
9	PPM-021	Easy Crane & Compressor Container	1EA
10	PPM-023	Crane Screw Container	1EA
11	PPM-510	Fixator Driver, Silicon handle	2EA
12	PMI-020	Table Top Bender	1EA
13	PMI-021	Handheld Bar Bender	1EA
14	PMI-022	Bar Introducer (Small)	1EA
15	PMI-023	Bar Introducer (Large)	1EA
16	PPM-123	Rod Introducer	1EA
17	PMI-053	Bar Positioning Hook	2EA
18	PMI-072	Flare Buster Tunneler	1EA
19	PMI- 512	Handheld bar bender, Silicon handle	1EA
20	PPM-ATS	Allergy Test Disk (SS)	1EA
21	PPM-ATT	Allergy Test Disk (Ti)	1EA
22	PCS-302	Crane Screw Driver	1EA
23	PFB-500	Flare Buster Tightener	1EA
24	PFB-505	Flare Buster Tying Pusher	1EA
25	PPM-100	Easy Crane System	1EA
26	PPM-200	Compressor for Sandwich Technique	1EA

Container Box

Cat #

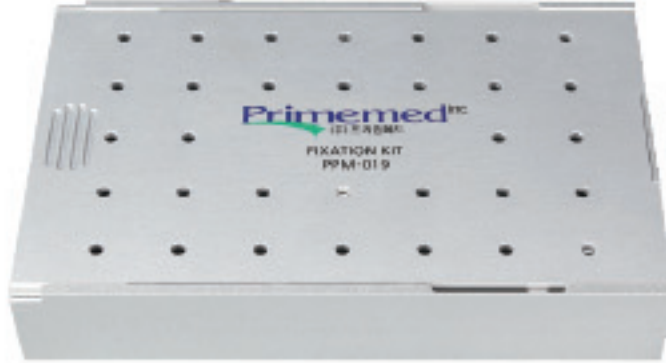
PPM-018



Fixator Container

Cat #

PPM-019



Easy Crane & Compressor Container (PPM-021)

Cat #

PPM-021



Crane Screw Container

Cat #

PPM-023



For more information on Pectus Produres,
Please see on [YouTube](#) “Park’s Pectus Surgery”



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(주)프라임메드

1F Intium, 1244 Sungnam-daero, Sujung-Gu, Sungnam-City, Gyunggi-Do, 13311, Korea

Tel : + 82 31 758 3007 Fax : + 82 31 758 3008 Email : primemedinc@naver.com

www.primemedinc.com