



PRODUCT CATALOGUE

PRODUCT CATALOGUE

Absorbable Sutures

Non-Absorbable Sutures

Medical Devices



Lotus Surgicals Pvt. Ltd.

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Trademarks and trade names of LOTUS SURGICALS PVT. LTD. (as at June 2018)

Solus[®] - Braided Coated Polyglycolic Acid Suture
Solus 910[®] - Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910] Suture
Solus 910 AM[®] - Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910] Suture with Antimicrobial (Chlorhexidine diacetate)
Solus 910 Swift[®] - Braided Coated Short-term Poly(Glycolide-co-L-lactide) [Polyglactin-910] Suture
Mass[®] - Poly(P-dioxanone) Monofilament Suture
Monolus[®] - Poly(Glycolide-co-caprolactone) [Poliglecaprone 25] Suture
Logut[™] - Chromic and Plain Catgut Suture
Esterlus[®] - Braided Coated Polyester Suture
Silkus[®] - Black Braided Silk Suture
Prolus[®] - Blue Monofilament Polypropylene Suture - Cardiovascular and Other Specialities
Nylus[®] - Black Monofilament Polyamide Suture
Stelus[®] - Monofilament 316 L Stainless Steel Suture
Ubersonic[™] - Ultrasonic Shear System
ProSec[®] - Surgical Staplers and Skin Staplers
ProLap[®] - Laparoscopic Instruments
Hemosec[®] - Titanium Clips and Appliers
Hemolus[™] - Absorbable Hemostat for Surgical Use
Pro-Visc[®] 3D - Composite Dual-side Mesh for Intra-peritoneal Placement
EndoTack[™] - Titanium Tacker for Surgical Mesh Fixation
Prolus[®] Mesh ♦ **Prolus**[®] Lite - Polypropylene Meshes for Hernia Repair
Pro-AB[®] - Partially Absorbable Light Weight Mesh for Hernia Repair
Freedom[®] - Trans-Obturator Needles and Sling System
ProLysate[®] - Handrub and Surgical Handwash

Acknowledgements

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Lotus Surgicals reserves the right to modify specifications without notice.

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Ultra-modern Clean Room (Class 10,000) Infrastructure

OVERVIEW



Lotus' ultra modern 60,000 square feet facility in Dehradun, India, is at par with the best Medical Device manufacturing facilities in the world. Since inception, Lotus has been committed to creating a world-class manufacturing facility capable of delivering superior quality Sterile Medical Devices to domestic and international markets. In pursuit of this objective, Lotus has spared no effort in selecting from the world market the highest quality manufacturing and testing equipment available.

Lotus Surgicals has an ultra-modern Clean Room facility for manufacturing various medical devices. The infrastructure complies with the specifications, testing and validation norms of International Regulatory Agencies such as COPP(WHO/GMP), ISO, CE, USFDA and EU.

The entire manufacturing area of 20,000 square feet is designed to meet Class 10,000 cleanliness standard of US FED 209E (i.e. not more than 10,000 particles of size 0.5 microns per cubic feet of air) equivalent to ISO Class 7. This provides an environment which not only protects from external contamination but also reduces the bio-burden on the product prior to sterilization, thus ensuring low amounts of endotoxins post-sterilization.

This catalogue enlists the various needle suture combinations along with other medical devices manufactured by Lotus which can be used with utmost confidence. Lotus can also provide needle-suture combinations that are not listed in this catalogue, on request.



As per International Manufacturing and Quality Standards — CE 2195, ISO 9001:2008, and EN ISO 13485:2012.

A Certificate of Pharmaceutical Product (WHO/GMP) Certified Company.

In technical consultation with H&A Consultants, Williamsburg, VA 23188, USA.

Meets Class 10,000 cleanliness standard of US FED 209E (i.e. not more than 10,000 particles of size 0.5 microns per cubic feet of air) equivalent to ISO Class 7. This includes individual Class 10,000 Clean Rooms for storage (critical components), preparation (sutures), assembly, packaging and sterilization.

Air handling systems designed to ISO requirements (ISO 14644), provide air of high quality with respect to particulates. Processing areas receive clean and filtered air with a minimum of 60 air changes per hour in the core process areas.

All process areas have terminal High Efficiency Particulate (HEPA) Filters with an efficiency of 99.97% down to 0.3 micron.

Differential pressure of 12-15 Pascals maintained effectively between adjacent rooms to prevent ingress of particulates (viable and non-viable).

Unidirectional air flow in a laminar fashion across all workstations, along with temperature and relative humidity control.

Pre-sterilized clothing and door inter-locking systems for personnel, as well as well-designed air locks and dynamic pass boxes for movement of materials.

Fully automatic in-line packaging system that eliminates human error and handling.










Product sterilization with 100% Ethylene Oxide Gas, Residual EtO compliance as per ISO 10993-7 and EtO Sterilization process have been validated as per ISO 11135:2014.

Quality Management System (QMS) developed to meet and exceed international standards.









LABEL INFORMATION







Lotus uses the following symbols (from European Standard EN980) on its product labels.

Symbol	Meaning
	CE-mark and identification number of notified body. Product conforms to the essential requirements of the Medical Device Directive 93/42/EEC
	See instructions for use
	Do not reuse
	Keep away from sunlight and direct heat
	Use by Month & Year
	Month & Year of Manufacture
	Lot Number
	Method of Sterilization – Ethylene Oxide
	Method of Sterilization – Irradiation

NEEDLE POINT PROFILES

Needle Profile	Symbol
TAPER POINT	
BLUNT POINT	
TAPER CUT	
CONVENTIONAL CUTTING	
REVERSE CUTTING	
SPATULATED	

NEEDLE SHAPE PROFILES

Needle Profile	Shape
5/8 CIRCLE	
1/2 CIRCLE	
3/8 CIRCLE	
1/4 CIRCLE	
STRAIGHT	
J TYPE	

SUTURE SIZE CHART

United States Pharmacopoeia (USP) Size	Metric Size (Gauge No.)
12--0	0.01
11--0	0.1
10--0	0.2
9--0	0.3
8--0	0.4
7--0	0.5
6--0	0.7
5--0	1
4--0	1.5
3--0	2
2--0	3
0	3.5
1	4
2	5
3 and 4	6
5	7

ABSORBABLE SUTURES

The Lotus range of Synthetic Absorbable Sutures:

Synthetic Absorbable Sutures (Braided)

- Solus® - Braided Coated Polyglycolic Acid
- Solus 910® - Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]
- Solus 910 AM® - Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910] with Antimicrobial (Chlorhexidine diacetate)
- Solus 910 Swift® - Braided Coated Short-term Poly(Glycolide-co-L-lactide) [Polyglactin-910]

Synthetic Absorbable Sutures (Monofilament)

- Mass® - Poly(P-dioxanone) Monofilament
- Monolus® - Poly(Glycolide-co-caprolactone) [Poliglecaprone 25]



Hermetically sealed aluminium peel-off pouches





Sterilization and Degassing Room

Since Synthetic Absorbable Sutures are hygroscopic in nature, each batch manufactured is subjected to moisture analysis using a Coulometric Karl Fischer Titrator. The batches are released only if the moisture content on the suture is less than 300 ppm. This ensures that the sutures have a shelf life of 5 years and there is no loss of strength during this shelf life.

The entire range of Synthetic Absorbable Sutures from Lotus is available in hermetically sealed aluminium peel-off pouches developed in consultation with Dupont, USA - world renowned experts in packaging and industrial polymers. These peel-off pouches are far more user-friendly than conventional tear-open packs. The Synthetic Absorbable Sutures are packed on a fully automatic in-line packaging machine where forming, sealing, trimming, printing and cutting are all done in a continuous motion, thus eliminating human error and handling. This enables not only increased productivity, but also ensures minimum human contact.



Custom-built In-line Automatic Packaging Machine



Solus®

Braided Coated Polyglycolic Acid

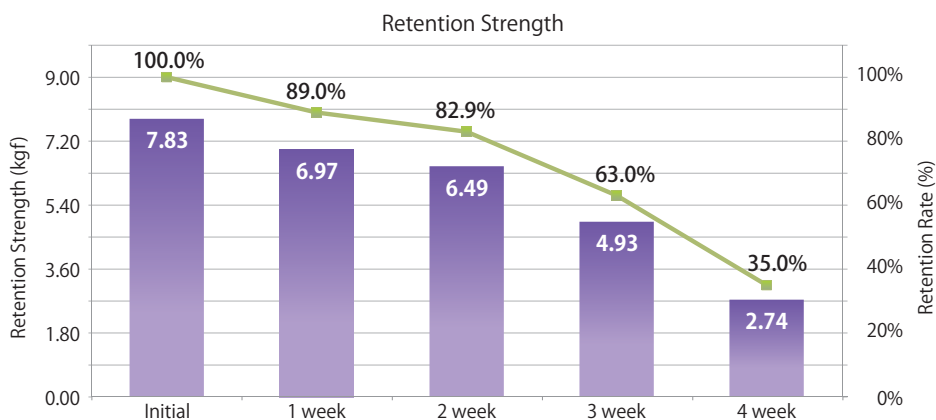
Product Details:

Composition	Polyglycolic Acid
Construction	Braided
Coating	Polycaprolactone and Calcium Stearate
In vitro retention of strength	83% at 2 weeks
Tissue Reaction	Non-antigenic, non-pyrogenic and elicits only a mild tissue reaction during the absorption process
Absorption Time	Completely absorbed in 60-90 days
Sterilization	100% Ethylene Oxide
Available in Sizes	8-0, 7-0, 6-0, 5-0, 4-0, 3-0, 2-0, 0, 1, 2
Colour	Violet and Undyed
Shelf Life	5 years
Packaging	Box of 12 and 36 sutures

Distinctive Features:

- ◆ Soft and smooth feel that helps in easy passage through the tissue with minimal trauma.
- ◆ Good knotting properties because of better and modern braiding technology.
- ◆ Very high initial tensile strength and excellent handling.
- ◆ No extra lubrication required.
- ◆ Smooth tie down.
- ◆ Less than 200 ppm of moisture ensuring full 5 years shelf life.
- ◆ Knot pull strength and needle swage strength greater than USP limits.










Tensile Strength Retention:



SOLUS® - Synthetic Absorbable Sutures

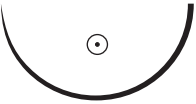



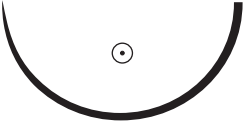
Braided Coated Polyglycolic Acid

TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
9 mm 	3/8 Circle	30 cm			LNW 9575 LNW 2672							
9.3 mm Double Armed 	3/8 Circle	30 cm	LNW 9577									
16 mm 	1/2 Circle	45 cm				LNW 2303						
		70 cm					LNW 2305					
20 mm 	1/2 Circle	45 cm					LNW 2304 S					
		45 cm (10 lengths per foil)						LNW 2504				
		70 cm					LNW 2304	LNW 2437				
25 mm 	1/2 Circle	70 cm Undyed						LNW 2123				
		90 cm						LNW 2528				
25 mm Double Armed 	1/2 Circle	90 cm						LNW 2528 DA				
27 mm 	5/8 Circle Premium	75 cm							LNW 2318 HAL			
30 mm 	1/2 Circle	30 cm							LNW 2030			
		45 cm							LNW 2317 M			
		45 cm (5 lengths per foil)							LNW 2508			
		45 cm (10 lengths per foil)							LNW 2503			
		70 cm							LNW 2341	LNW 2342		
		90 cm							LNW 2317	LNW 2338		
		90 cm Undyed							LNW 2317-3		LNW 2337	
		110 cm							LNW 2317 VS		LNW 2827 VS	
36 mm 	1/2 Circle	90 cm Undyed						LNW 945	LNW 946			








SOLUS® - Synthetic Absorbable Sutures
Braided Coated Polyglycolic Acid

TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
40 mm 	½ Circle	45 cm					LNW 2345 M	LNW 2346 M		
		45 cm (5 lengths per foil)						LNW 2507		
		45 cm (10 lengths per foil)						LNW 2502	LNW 2501	
		70 cm						LNW 2546		
		90 cm					LNW 2345	LNW 2346 LNW 2346-3	LNW 2360	
		90 cm Undyed						LNW 2346 U		
		110 cm						LNW 2346 VS LNW 2346 VS-3		
		120 cm							LNW 2360 L	
40 mm HEAVY 	½ Circle	20 cm							LNW 2347 SP	
		45 cm							LNW 2347 M	
		70 cm							LNW 2359	
		90 cm							LNW 2347 LNW 2347-3	LNW 2352
		90 cm Undyed							LNW 2344 LNW 2344-3	
		110 cm							LNW 2347 VS LNW 2347 VS-3	LNW 2352 VS
		120 cm							LNW 2350	
		45 mm HEAVY 	½ Circle	90 cm						
120 cm									LNW 2347 PB L	
50 mm 	½ Circle	75 cm							LNW 9251	
		90 cm						LNW 2346 SP		
50 mm HEAVY 	½ Circle	75 cm								LNW 2355
		100 cm							LNW 2448	
		110 cm							LNW 2448 L	










SOLUS® - Synthetic Absorbable Sutures
Braided Coated Polyglycolic Acid

TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
17 mm 	½ Circle	45 cm				LNW 2515				
30 mm 	½ Circle	45 cm					LNW 2511 HK			
		70 cm						LNW 2518 SP		
30 mm HEAVY 	½ Circle	45 cm							LNW 2511 G	
36 mm 	½ Circle	90 cm (OB-GY)				LNW 2516		LNW 2517		
38 mm 	½ Circle	45 cm					LNW 2511 A			
40 mm 	½ Circle	45 cm						LNW 1045		
		90 cm (OB-GY)						LNW 2518	LNW 2519	
		90 cm Undyed							LNW 2518 U	
		110 cm							LNW 2518 L	
40 mm HEAVY 	½ Circle	70 cm							LNW 2363	
		90 cm (OB-GY)								LNW 2364












SOLUS® - Synthetic Absorbable Sutures
Braided Coated Polyglycolic Acid

CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
16 mm 	3/8 Circle Premium	45 cm		LNW 2442		LNW 2471				
		70 cm Undyed			LNW 2443					
16 mm 	3/8 Circle	45 cm			LNW 2465					
19 mm 	3/8 Circle Premium	70 cm Undyed				LNW 2402 S				
		90 cm Undyed				LNW 2402				
22 mm 	3/8 Circle	45 cm				LNW 2401				
22 mm 	1/2 Circle	90 cm				LNW 2472				
25 mm 	3/8 Circle Premium	90 cm Undyed				LNW 2328				
26 mm 	3/8 Circle	90 cm Undyed					LNW 2404			
45 mm 	Straight	90 cm			LNW 2388					
60 mm 	Straight	76 cm					LNW 2390			
		90 cm								LNW 2354
		90 cm Undyed				LNW 2389				

SOLUS® - Synthetic Absorbable Sutures Braided Coated Polyglycolic Acid



REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
12 mm 	3/8 Circle	45 cm	LNW 2671		LNW 2494	LNW 2495				
12 mm 	3/8 Circle Premium	45 cm		LNW 2493						
23 mm 	1/2 Circle	30 cm Undyed					LNW 2693 SA(S)			
		45 cm					LNW 2510 SB			
		70 cm					LNW 2510 SB/L			
		90 cm Undyed					LNW 2693 SA			
23 mm HEAVY 	1/2 Circle	35 cm							LNW 2826	
		70 cm							LNW 2826 L	
24 mm 	3/8 Circle	70 cm Undyed				LNW 936				
24.3 mm 	3/8 Circle	70 cm				LNW 2522				
26 mm 	3/8 Circle	70 cm Undyed				LNW 2407				
27 mm 	5/8 Circle	45 cm					LNW 2694	LNW 2511 SB	LNW 2827	
		70 cm						LNW 2511 SB/L		
30 mm 	J Type	90 cm						LNW 2512	LNW 2828	
36 mm 	1/2 Circle	45 cm						LNW 2534 M		
								LNW 2534 DS		
		90 cm						LNW 2534		
									LNW 2534 T	
40 mm 	1/2 Circle	45 cm					LNW 2382 M			
		90 cm					LNW 2382	LNW 2422	LNW 2478	
		90 cm Undyed					LNW 2382 U			



SOLUS® - Synthetic Absorbable Sutures

Braided Coated Polyglycolic Acid

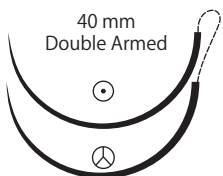
REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
40 mm HEAVY 	½ Circle	45 cm							LNW 2421 M	
		90 cm							LNW 2421 LNW 2421 T	LNW 2351
		(1 x 90 cm) (9 x 45 cm)							LNW 2509-9	
50 mm HEAVY 	½ Circle	90 cm							LNW 2438	LNW 2353

SPATULATED

Needle Length	Needle Profile	Suture Length	Suture Size							
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	
6 mm 	⅔ Circle Micro Point	30 cm	LNW 2348	LNW 2561						
8 mm Double Armed 	¼ Circle Premium Point	45 cm			LNW 2670					

DOUBLE ARMED

Needle Length	Needle Profile	Suture Length	Suture Size					
			4-0	3-0	2-0	0	1	2
40 mm Double Armed 	½ Circle Round Bodied, ½ Circle Taper Cut	140 cm				LNW 2340	LNW 2140 GF	
		160 cm					LNW 2160 GF	
		180 cm			LNW 2220 GF	LNW 2380 GF	LNW 2180 GF	LNW 2280 GF

PRE-CUT SUTURES

Suture Length	Suture Size					
	4-0	3-0	2-0	0	1	2
3 x 45 cm	WN 2604	WN 2603	WN 2602	WN 2601		

Packaging : Box of 12



Solus 910[®]

Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

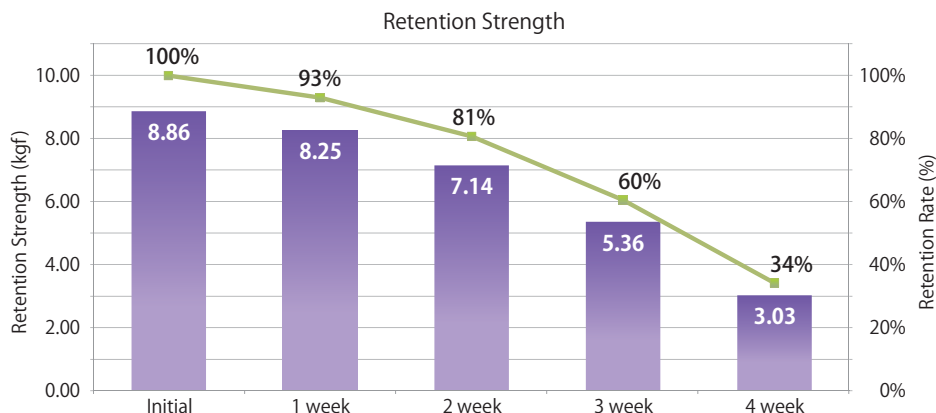
Product Details:

Composition	Poly(Glycolide-co-L-lactide) [Polyglactin-910]
Construction	Braided
Coating	Poly(Glycolide-co-L-lactide) [Glaconer 37] and Calcium Stearate
In vitro retention of strength	81% at 2 weeks
Tissue Reaction	Non-antigenic, non-pyrogenic and elicits only a mild tissue reaction during the absorption process
Absorption Time	Completely absorbed in 54-70 days
Sterilization	100% Ethylene Oxide
Available in Sizes	8-0, 7-0, 6-0, 5-0, 4-0, 3-0, 2-0, 0, 1,2
Colour	Violet and Undyed
Shelf Life	5 years
Packaging	Box of 12 and 36 sutures

Distinctive Features:











- ◆ Soft and smooth feel that helps in easy passage through the tissue with minimal trauma.
- ◆ Good knotting properties because of better and modern braiding technology.
- ◆ Very high initial tensile strength and excellent handling.
- ◆ Smooth tie down.
- ◆ Less than 200 ppm of moisture ensuring full 5 years shelf life.
- ◆ Very low capillarity.
- ◆ No extra lubrication required.

Tensile Strength Retention:



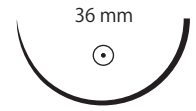
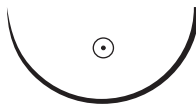




SOLUS 910® - Synthetic Absorbable Sutures
 Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size												
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1				
9 mm 	3/8 Circle	30 cm			LNW 9575-910 LNW 2672-910										
9.3 mm Double Armed 	3/8 Circle	30 cm	LNW 9577-910												
16 mm 	1/2 Circle	45 cm				LNW 2303-910									
		70 cm						LNW 2305-910							
19 mm 	1/2 Circle	70 cm						LNW 2420-910							
20 mm 	1/2 Circle	45 cm				LNW 2520-910	LNW 2304 S-910								
		45 cm (10 lengths per foil)							LNW 2504-910						
		70 cm						LNW 2304-910	LNW 2437-910						
22 mm 	1/2 Circle	70 cm							LNW 2322-910						
25 mm 	1/2 Circle	70 cm Undyed							LNW 2123-910						
		90 cm							LNW 2528-910						
25 mm Double Armed 	1/2 Circle	90 cm							LNW 2528 DA-910						
27 mm 	5/8 Circle Premium	75 cm								LNW 2318-910 HAL					
30 mm 	1/2 Circle	30 cm								LNW 2030-910					
		45 cm								LNW 2317 M-910					
		45 cm (5 lengths per foil)								LNW 2508-910					
		45 cm (10 lengths per foil)								LNW 2503-910					
		70 cm								LNW 2341-910	LNW 2342-910				
		90 cm								LNW 2317-910	LNW 2338-910				
										LNW 2317-3-910					
		90 cm Undyed										LNW 2337-910			
110 cm									LNW 2317 VS-910			LNW 2827 VS-910			


SOLUS 910® - Synthetic Absorbable Sutures
Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

TAPER POINT








Needle Length	Needle Profile	Suture Length	Suture Size										
			6-0	5-0	4-0	3-0	2-0	0	1	2			
 <p>36 mm</p>	½ Circle	90 cm						LNW 2436-910					
		90 cm Undyed						LNW 945-910	LNW 946-910				
 <p>40 mm</p>	½ Circle	45 cm						LNW 2345 M-910	LNW 2346 M-910				
		45 cm (5 lengths per foil)							LNW 2507-910				
		45 cm (10 lengths per foil)							LNW 2502-910	LNW 2501-910			
		70 cm							LNW 2546-910				
		90 cm						LNW 2345-910	LNW 2346-910	LNW 2360-910			
		90 cm Undyed							LNW 2346-3-910				
		110 cm							LNW 2346 U-910				
		120 cm							LNW 2346 VS-910				
 <p>40 mm HEAVY</p>	½ Circle	20 cm								LNW 2360 L-910			
		45 cm								LNW 2347 SP-910			
		70 cm								LNW 2347 M-910			
		90 cm								LNW 2359-910			
		90 cm Undyed								LNW 2347-910	LNW 2352-910		
										LNW 2347-3-910			
										LNW 2344-910			
										LNW 2344-3-910			
 <p>45 mm HEAVY</p>	½ Circle	90 cm								LNW 2347 PB-910			
		120 cm								LNW 2347 PB L-910			
 <p>48 mm</p>	½ Circle	90 cm								LNW 2548-910			
 <p>50 mm</p>	½ Circle	75 cm								LNW 9251-910			
		90 cm								LNW 2346-910 SP			

SOLUS 910® - Synthetic Absorbable Sutures
Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

TAPER POINT












Needle Length	Needle Profile	Suture Length	Suture Size						
			5-0	4-0	3-0	2-0	0	1	2
50 mm HEAVY 	½ Circle	75 cm							LNW 2355-910
		100 cm						LNW 2448-910	
		110 cm						LNW 2448 L-910	

TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
17 mm 	½ Circle	45 cm				LNW 2515-910				
30 mm 	½ Circle	45 cm					LNW 2511 HK-910			
		70 cm						LNW 2518-910 SP		
30 mm HEAVY 	½ Circle	45 cm							LNW 2511 G-910	
36 mm 	½ Circle	90 cm							LNW 2425-910	
		90 cm (OB-GY)				LNW 2516-910		LNW 2517-910		
38 mm 	½ Circle	45 cm					LNW 2511 A-910			
40 mm 	½ Circle	45 cm						LNW 1045-910		
		90 cm (OB-GY)						LNW 2518-910	LNW 2519-910	
		90 cm Undyed						LNW 2518 U-910		
		110 cm						LNW 2518 L-910		
40 mm HEAVY 	½ Circle	70 cm							LNW 2363-910	
		90 cm (OB-GY)							LNW 2364-910	













SOLUS 910® - Synthetic Absorbable Sutures
 Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
16 mm 	3/8 Circle Premium	45 cm		LNW 2442-910		LNW 2471-910				
		70 cm Undyed			LNW 2443-910					
16 mm 	3/8 Circle	45 cm			LNW 2465-910					
19 mm 	3/8 Circle Premium	70 cm Undyed				LNW 2402 S-910				
		90 cm Undyed				LNW 2402-910				
22 mm 	3/8 Circle	45 cm				LNW 2401-910				
22 mm 	1/2 Circle	90 cm				LNW 2472-910				
25 mm 	3/8 Circle Premium	90 cm Undyed				LNW 2328-910				
26 mm 	3/8 Circle	90 cm Undyed					LNW 2404-910			
45 mm  	Straight	90 cm			LNW 2388-910					
60 mm  	Straight	76 cm					LNW 2390-910			
		90 cm								LNW 2354-910
		90 cm Undyed				LNW 2389-910				




SOLUS 910® - Synthetic Absorbable Sutures
 Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

REVERSE CUTTING



Needle Length	Needle Profile	Suture Length	Suture Size								
			6-0	5-0	4-0	3-0	2-0	0	1	2	
12 mm 	3/8 Circle	45 cm	LNW 2671-910		LNW 2494-910	LNW 2495-910					
12 mm 	3/8 Circle Premium	45 cm		LNW 2493-910							
16 mm 	3/8 Circle	45 cm		LNW 2516-910							
		70 cm Undyed			LNW 2416-910						
19 mm 	3/8 Circle	70 cm Undyed			LNW 2419-910						
23 mm 	1/2 Circle	30 cm Undyed					LNW 2693 SA(S)-910				
		45 cm					LNW 2510 SB-910				
		70 cm					LNW 2510 SB/L-910				
		90 cm Undyed					LNW 2693 SA-910				
23 mm HEAVY 	1/2 Circle	35 cm							LNW 2826-910		
		70 cm							LNW 2826 L-910		
24 mm 	3/8 Circle	67 cm				LNW 2319-910					
		70 cm Undyed				LNW 936-910					
24.3 mm 	3/8 Circle	70 cm				LNW 2522-910					
26 mm 	3/8 Circle	70 cm Undyed				LNW 2407-910					
27 mm 	3/8 Circle	45 cm					LNW 2694-910	LNW 2511 SB-910	LNW 2827-910		
		70 cm						LNW 2511 SB/L-910			
30 mm 	J Type	90 cm						LNW 2512-910	LNW 2828-910		
36 mm 	1/2 Circle	45 cm						LNW 2534 M-910			
							LNW 2534 DS-910				
		90 cm						LNW 2534-910			
								LNW 2534 T-910			

SOLUS 910® - Synthetic Absorbable Sutures
Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]

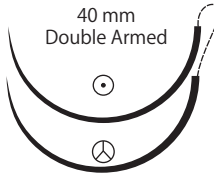
REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
 40 mm	½ Circle	45 cm					LNW 2382 M-910			
		90 cm					LNW 2382-910	LNW 2422-910	LNW 2478-910	
		90 cm Undyed					LNW 2382 U-910			
 40 mm HEAVY	½ Circle	45 cm							LNW 2421 M-910	
		90 cm							LNW 2421-910	LNW 2351-910
		(1 x 90 cm) (9 x 45 cm)							LNW 2421 T-910	
 50 mm HEAVY	½ Circle	90 cm							LNW 2438-910	LNW 2353-910

SPATULATED

Needle Length	Needle Profile	Suture Length	Suture Size						
			8-0	7-0	6-0	5-0	4-0	3-0	2-0
 6 mm	¾ Circle Micro Point	30 cm	LNW 2348-910	LNW 2561-910					
 8 mm Double Armed	¼ Circle Premium Point	45 cm			LNW 2670-910				

DOUBLE ARMED








Needle Length	Needle Profile	Suture Length	Suture Size						
			4-0	3-0	2-0	0	1	2	
 40 mm Double Armed	½ Circle Round Bodied, ½ Circle Taper Cut	140 cm				LNW 2340-910	LNW 2140 GF-910		
		160 cm					LNW 2160 GF-910		
		180 cm			LNW 2220 GF-910	LNW 2380 GF-910	LNW 2180 GF-910	LNW 2280 GF-910	

PRE-CUT SUTURES



Suture Length	Suture Size					
	4-0	3-0	2-0	0	1	2
3 x 45 cm	WN 2604-910	WN 2603-910	WN 2602-910	WN 2601-910		

Packaging : Box of 12






SOLUS 910 AM® - Synthetic Absorbable Sutures
 Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]
 with Antimicrobial (Chlorhexidine diacetate)
 TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size					
			5-0	4-0	3-0	2-0	0	1
16 mm 	½ Circle	45 cm	LAM 2303-910					
20 mm 	½ Circle	70 cm		LAM 2304-910				
		90 cm			LAM 2437-910			
30 mm 	½ Circle	70 cm				LAM 2341-910		
		90 cm				LAM 2317-910	LAM 2338-910	
36 mm 	½ Circle	90 cm Undyed				LAM 945-910	LAM 946-910	LAM 947-910
40 mm 	½ Circle	90 cm				LAM 2345-910	LAM 2346-910	
40 mm 	½ Circle GS Needle	90 cm				LAM 2357-910	LAM 2358-910	LAM 2360-910
40 mm HEAVY 	½ Circle	70 cm						LAM 2359-910
		90 cm						LAM 2347-910
		120 cm						LAM 2350-910






TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size					
			5-0	4-0	3-0	2-0	0	1
36 mm 	½ Circle	90 cm			LAM 2516-910			LAM 2319-910
		90 cm (OB-GY)					LAM 2517-910	
40 mm 	½ Circle	90 cm					LAM 2518-910	
		90 cm (OB-GY)						LAM 2519-910

SOLUS 910 AM® - Synthetic Absorbable Sutures
Braided Coated Poly(Glycolide-co-L-lactide) [Polyglactin-910]
with Antimicrobial (Chlorhexidine diacetate)
CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size						
			4-0	3-0	2-0	0	1	2	
16 mm 	3/8 Circle	45 cm	LAM 2465-910						
22 mm 	3/8 Circle	45 cm		LAM 2401-910					
22 mm 	1/2 Circle	90 cm		LAM 2472-910					
25 mm 	3/8 Circle	90 cm Undyed		LAM 2328-910					
26 mm 	3/8 Circle	90 cm Undyed			LAM 2404-910				

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size					
			4-0	3-0	2-0	0	1	2
23 mm HEAVY 	1/2 Circle	35 cm					LAM 2826-910	
		70 cm					LAM 2826E-910	
24 mm 	3/8 Circle	70 cm		LAM 2936-910				
		70 cm Undyed		LAM 936-910				
36 mm 	1/2 Circle	90 cm				LAM 2534-910		
40 mm 	1/2 Circle	90 cm			LAM 2382-910			LAM 2478-910
40 mm HEAVY 	1/2 Circle	90 cm					LAM 2421-910	



Solus 910 Swift®

Braided Coated Short-term Poly(Glycolide-co-L-lactide) [Polyglactin-910]

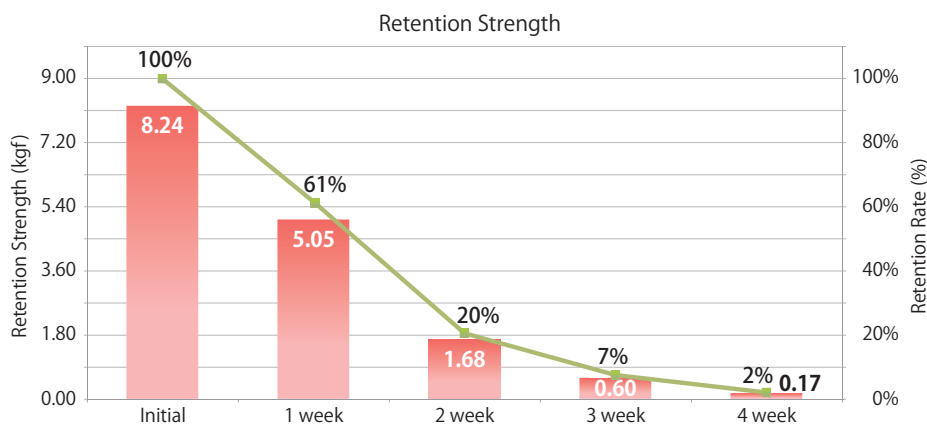
Product Details:

Composition	Poly(Glycolide-co-L-lactide) [Polyglactin-910]
Construction	Braided
Coating	Polycaprolactone and Calcium Stearate
In vitro retention of strength	61% at 1 week
Tissue Reaction	Non-antigenic, non-pyrogenic and elicits only a mild tissue reaction during the absorption process
Absorption Time	Completely absorbed in 40 to 60 days
Sterilization	100% Ethylene Oxide
Available in Sizes	6-0, 5-0, 4-0, 3-0, 2-0, 0, 1, 2
Colour	Undyed
Shelf Life	5 years
Packaging	Box of 12 sutures

Distinctive Features:



- ◆ High initial tensile strength.
- ◆ Soft and smooth feel that helps in easy passage through the tissue with minimal trauma.
- ◆ Good knotting properties because of better and modern braiding technology.
- ◆ Excellent handling and smooth tie down.

Tensile Strength Retention:





SOLUS 910 SWIFT® - Synthetic Absorbable Sutures
Braided Coated Short-term Poly(Glycolide-co-L-lactide) [Polyglactin-910]






TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
26 mm 	½ Circle	70 cm				LNW 2764			
36 mm 	½ Circle	90 cm						LNW 2036	
		100 cm					LNW 2761 RB		

TAPER CUT







Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
36 mm 	½ Circle	70 cm					LNW 2762 ML		
		90 cm					LNW 2762		
		100 cm					LNW 2761		
		110 cm					LNW 2762-ER	LNW 2763	
40 mm 	½ Circle	70 cm						LNW 2763 ML	
		110 cm						LNW 2763 SP	

CUTTING

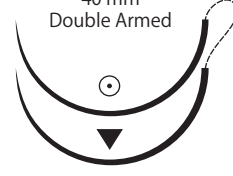
Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
12 mm 	¾ Circle Premium	45 cm	LNW 9913	LNW 9915					
16 mm 	¾ Circle	45 cm			LNW 2718	LNW 2719			
16 mm 	¾ Circle Premium	75 cm			LNW 9918	LNW 9919			
21.8 mm 	½ Circle	45 cm				LNW 9935			
22 mm 	½ Circle	70 cm				LNW 2735			

SOLUS 910 SWIFT® - Synthetic Absorbable Sutures
 Braided Coated Short-term Poly(Glycolide-co-L-lactide) [Polyglactin-910]

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
10 mm 	3/8 Circle	45 cm	LNW 2716	LNW 2717					
26 mm 	3/8 Circle	45 cm				LNW 2732 S			
		70 cm				LNW 2732			
26 mm 	3/8 Circle Premium	75 cm					LNW 9933		
35 mm 	3/8 Circle	60 cm						LNW 2721	
36 mm 	3/8 Circle	60 cm					LNW 2720		
40 mm 	1/2 Circle	60 cm					LNW 2720 SP		

DOUBLE ARMED

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
40 mm Double Armed 	1/2 Circle Round Bodied, 1/2 Circle Reverse Cutting	90 cm							LNW 2666	
		140 cm						LNW 2777		
		180 cm						LNW 2777 L		



Mass[®]

Poly(P-dioxanone) Monofilament

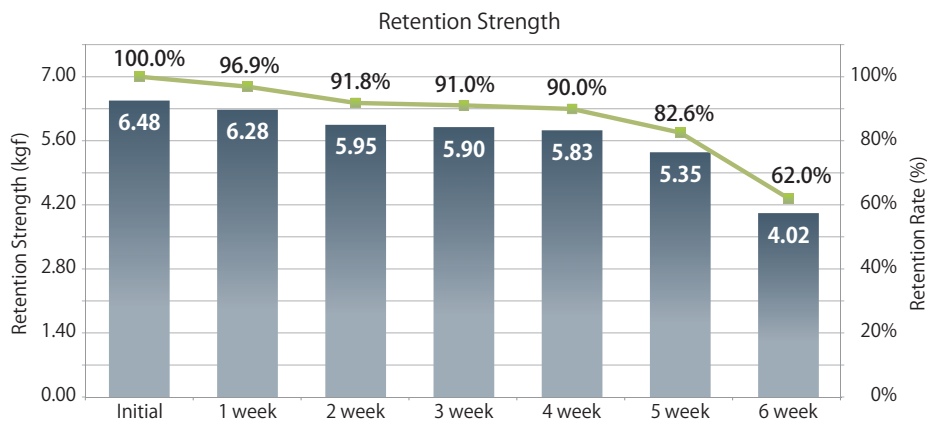
Product Details:

Composition	Poly(P-dioxanone)
Construction	Monofilament
Coating	None
In vitro retention of strength	90% at 4 weeks
Tissue Reaction	Non-antigenic, non-pyrogenic and elicits only a mild tissue reaction during the absorption process
Absorption Time	Completely absorbed in 180 to 240 days
Sterilization	100% Ethylene Oxide
Available in Sizes	6-0, 5-0, 4-0, 3-0, 2-0, 0, 1
Colour	Violet and Undyed
Shelf Life	5 years
Packaging	Box of 12 sutures

Distinctive Features:











- ◆ Ideal for internal tissues where a long lasting, absorbable suture is preferable.
- ◆ Very high initial tensile strength and excellent pliability.
- ◆ Smooth passage through tissue and lesser reactivity.

Tensile Strength Retention:



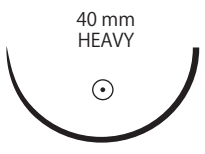
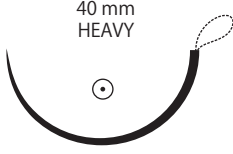
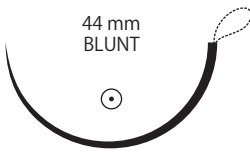

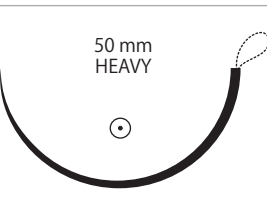
MASS® - Synthetic Absorbable Sutures
Poly(P-dioxanone) Monofilament

TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
13 mm 	3/8 Circle	70 cm		LNW 1013					
13 mm Double Armed 	3/8 Circle	70 cm		LNW 1013 DA					
13 mm 	1/2 Circle	45 cm			LNW 9102				
		70 cm		LNW 9513 SA					
13 mm Double Armed 	1/2 Circle	45 cm			LNW 9102 DA				
		70 cm	LNW 9613	LNW 9513					
17 mm 	1/2 Circle	90 cm			LNW 9109		LNW 9108		
20 mm 	1/2 Circle	70 cm			LNW 9304	LNW 9237			
20 mm Double Armed 	1/2 Circle	70 cm			LNW 9304 DA	LNW 9237 DA			
30 mm 	1/2 Circle	70 cm				LNW 9332			
30 mm HEAVY 	1/2 Circle	70 cm						LNW 9254	
31 mm 	1/2 Circle	70 cm					LNW 9133		




MASS® - Synthetic Absorbable Sutures
Poly(P-dioxanone) Monofilament

TAPER POINT



Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
 <p>40 mm HEAVY</p>	½ Circle	90 cm							LNW 9371	LNW 9352
 <p>40 mm HEAVY</p>	½ Circle	150 cm (LOOP)								LNW 9261
 <p>44 mm BLUNT</p>	½ Circle	150 cm (LOOP)								LNW 9367
 <p>45 mm HEAVY</p>	½ Circle	90 cm								LNW 9248
 <p>50 mm HEAVY</p>	½ Circle	150 cm (LOOP)								LNW 9262

MASS® - Synthetic Absorbable Sutures
Poly(P-dioxanone) Monofilament

TAPER CUT






Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
30 mm 	½ Circle	70 cm					LNW 9334		
40 mm 	½ Circle	90 cm							LNW 9218
45 mm 	½ Circle	90 cm							LNW 9354

CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
12 mm 	¾ Circle Premium	45 cm	LNW 9861						
16 mm 	¾ Circle Premium	45 cm		LNW 9872	LNW 9873				

MASS® - Synthetic Absorbable Sutures
 Poly(P-dioxanone) Monofilament

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
11 mm 	3/8 Circle	45 cm	LNW 9611							
19 mm 	3/8 Circle	70 cm		LNW 9519						
27 mm 	5/8 Circle	70 cm								LNW 9227
40 mm HEAVY 	1/2 Circle	90 cm								LNW 9221
48 mm 	1/2 Circle	90 cm								LNW 9374



Monolus[®]

Poly(Glycolide-co-caprolactone) [Poliglecaprone 25]

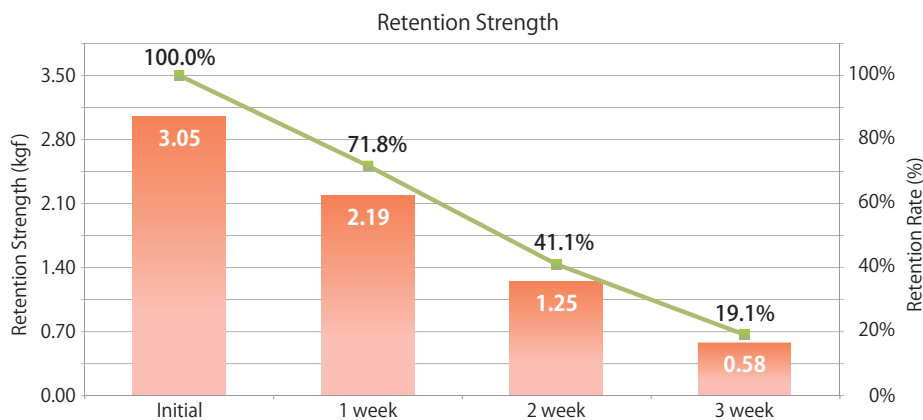
Product Details:

Composition	Poly(Glycolide-co-caprolactone) [Poliglecaprone 25]
Construction	Monofilament
Coating	None
In vitro retention of strength	41% at 2 weeks
Tissue Reaction	Non-antigenic, non-pyrogenic and elicits only a mild tissue reaction during the absorption process
Absorption Time	Completely absorbed in 80 to 120 days
Sterilization	100% Ethylene Oxide
Available in Sizes	6-0, 5-0, 4-0, 3-0, 2-0, 0, 1
Colour	Dyed and Undyed
Shelf Life	5 years
Packaging	Box of 12 sutures

Distinctive Features:



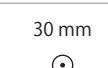

- ◆ High initial tensile strength.
- ◆ Soft and smooth feel that helps in easy passage through the tissue with minimal trauma.
- ◆ Excellent handling properties and high pliability.
- ◆ Ideal suture for use in sub cuticular closure.

Tensile Strength Retention:








MONOLUS® - Synthetic Absorbable Sutures
Poly(Glycolide-co-caprolactone) [Poliglecaprone 25]



TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
16 mm 	3/8 Circle	70 cm			LNW 1648				
25 mm 	1/2 Circle	70 cm				LNW 1664	LNW 1665		
30 mm 	1/2 Circle	70 cm					LNW 1641	LNW 1642	
36 mm 	1/2 Circle	70 cm					LNW 1666		

CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
12 mm 	3/8 Circle Premium	45 cm	LNW 833						
16 mm 	3/8 Circle Premium	45 cm		LNW 3204	LNW 3205				
25 mm 	3/8 Circle Premium	70 cm				LNW 1326			
25 mm 	3/8 Circle	70 cm					LNW 1602		
60 mm 	Straight	70 cm				LNW 1650			

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
16 mm 	3/8 Circle	70 cm			LNW 1205				
25 mm 	3/8 Circle	45 cm				LNW 3326 (M)-S			
		70 cm				LNW 3326 (M)			

CATGUT SUTURES

The Lotus range of Catgut Sutures:

Absorbable Sutures (Monofilament)

- Logut™ - Chromic and Plain





Logut™

Chromic and Plain Catgut

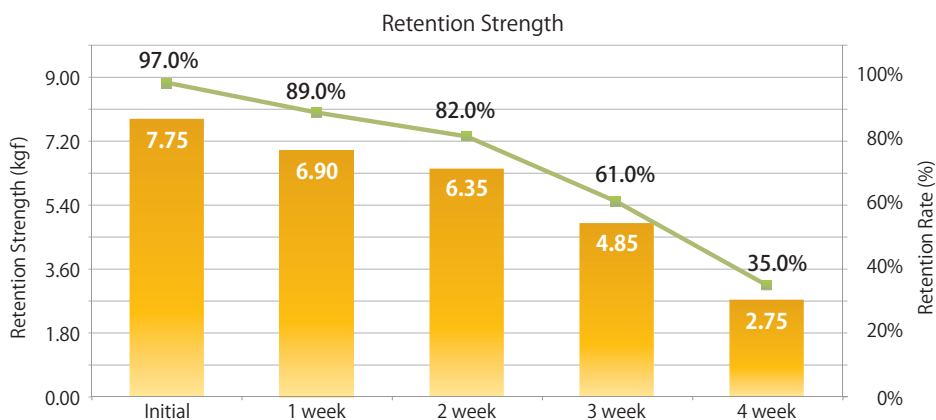
Product Details:

Composition	Purified connective tissue (collagen) derived from the sub-mucous layer of sheep (bovine) intestine
Construction	Monofilament
Coating	Plain sutures are without coating, Chromic sutures have been tanned by treatment with chromium salt in the trivalent form and coloured with oxidized pyrogallol, colour index 76515
In vivo retention of strength	Effective strength is usually lost between 10-12 days in case of plain catgut and by 21-30 days in case of chromic catgut
Tissue Reaction	Moderate tissue inflammation occurs which is characteristic of a foreign body response. Loss of tensile strength and loss of mass follows as the proteolytic enzymatic digestive process dissolves the surgical catgut
Absorption Time	Absorption is essentially complete in 60-90 days
Sterilization	Packed in sterilizing fluid, the constituents of which are Isopropanol, Water, Sodium Benzoate and Ethylene Oxide
Available in Sizes	5-0, 4-0, 3-0, 2-0, 0, 1, 2, 3
Colour	Beige and Tanned Brown
Shelf Life	5 years
Packaging	Box of 12 and 36 sutures









Distinctive Features:

- ◆ Soft and smooth feel that helps in easy passage through the tissue with minimal trauma.
- ◆ Very high initial tensile strength and excellent handling.
- ◆ Catgut suture with the highest quality collagen maintaining a composition of 97-98%. Higher percentage of collagen allows for superior tensile strength.








Tensile Strength Retention:



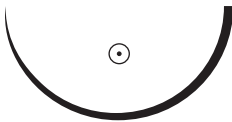


LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
CHROMIC
 TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			7-0	6-0	5-0	4-0	3-0	2-0	0	1	2	
16 mm 	1/8 Circle	76 cm					LNW 5048C					
17 mm 	1/2 Circle	75 cm				LNW 4317						
20 mm 	1/2 Circle	76 cm						LNW 4237				
25 mm 	1/2 Circle	76 cm						LNW 4238				
26 mm 	1/2 Circle	70 cm							LNW 4123STP			
		75 cm						LNW 4222				
30 mm 	3/8 Circle	76 cm							LNW 4216	LNW 4217		
									LNW 5033	LNW 4235		
30 mm 	1/2 Circle	75 cm						LNW 4237L	LNW 4241S			
		76 cm						LNW 4239	LNW 4241	LNW 4242	LNW 4257	
35 mm 	1/2 Circle	76 cm										LNW 4230

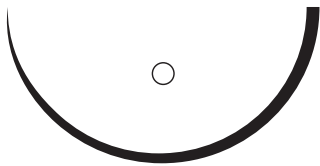
LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
CHROMIC
 TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			7-0	6-0	5-0	4-0	3-0	2-0	0	1	2	
40 mm 	3/8 Circle	76 cm							LNW 4220	LNW 4221		
40 mm 	1/2 Circle	75 cm							LNW 4245S	LNW 4258S		
		76 cm							LNW 4245	LNW 4246		LNW 4260
40 mm HEAVY 	1/2 Circle	76 cm								LNW 4258	LNW 4259	
		90 cm										LNW 4259L
		152 cm								LNW 4258XL	LNW 4259XL	
45 mm 	Straight	76 cm							LNW 4204	LNW 4205		
45 mm 	3/8 Circle	76 cm						LNW 4223	LNW 4225	LNW 4226		
		100 cm										LNW 4226L
45 mm 	1/2 Circle	75 cm										LNW 4228SL
		76 cm							LNW 4249			
		152 cm										LNW 4228L
45 mm HEAVY 	1/2 Circle	100 cm								LNW 4229	LNW 4227	LNW 4228



LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
CHROMIC
TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
48 mm HEAVY 	½ Circle	90 cm					LNW 4448C			
		100 cm							LNW 4348	LNW 4384
50 mm HEAVY 	½ Circle	76 cm							LNW 42485	
		100 cm							LNW 4248	
63 mm BLUNT 	¾ Circle	76 cm							LNW 4267	






BLUNT POINT

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
65 mm HEAVY 	½ Circle	90 cm							LNW 4365	






LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
CHROMIC
 TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size									
			6-0	5-0	4-0	3-0	2-0	0	1	2		
35 mm HEAVY 	½ Circle	75 cm										LNW 4231
40 mm 	½ Circle	100 cm							LNW 4279			

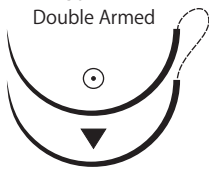
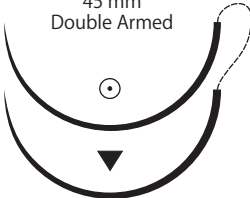
CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size									
			6-0	5-0	4-0	3-0	2-0	0	1	2		
16 mm 	⅜ Circle	76 cm			LNW 4280							
22 mm 	⅜ Circle	76 cm				LNW 4201						
24 mm 	⅜ Circle	76 cm					LNW 4826					
35 mm 	⅜ Circle	76 cm						LNW 4824				
60 mm 	⅜ Circle	76 cm								LNW 4262		

LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
CHROMIC
 REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size								
			6-0	5-0	4-0	3-0	2-0	0	1	2	
12 mm 	3/8 Circle	76 cm		LNW 4268							
16 mm 	1/2 Circle	76 cm				LNW 4284					
19 mm 	3/8 Circle	70 cm				LNW 4210					
		76 cm			LNW 4286						
20 mm 	3/8 Circle	75 cm			LNW 4828						
26 mm 	3/8 Circle	76 cm				LNW 4203					


LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
CHROMIC
DOUBLE ARMED

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	2
36 mm Double Armed 	1/2 Circle Round Bodied, 1/2 Circle Reverse Cutting	152 cm					LNW 4277			
45 mm Double Armed 	1/2 Circle Round Bodied, 1/2 Circle Reverse Cutting	152 cm						LNW 4276	LNW 4275	


PRE-CUT SUTURES

Suture Length	Suture Size							
	6-0	5-0	4-0	3-0	2-0	0	1	2
152 cm						WN 2214	WN 2215	WN 2216

LOGUT™ - Catgut Sutures
 Sterilised Surgical Gut
PLAIN
TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size								
			6-0	5-0	4-0	3-0	2-0	0	1	2	
30 mm 	3/8 Circle	76 cm						LNW 5033P			

CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size								
			6-0	5-0	4-0	3-0	2-0	0	1	2	
20 mm 	1/2 Circle	76 cm			LNW 4272						

PRE-CUT SUTURES

Suture Length	Suture Size							
	6-0	5-0	4-0	3-0	2-0	0	1	2
152 cm					WN 2003	WN 2004	WN 2005	

NON-ABSORBABLE SUTURES

The Lotus range of Non-Absorbable Sutures:

Non-Absorbable Sutures (Braided)

- Esterlus® - Braided Coated Polyester
- Silkus® - Black Braided Silk

Non-Absorbable Sutures (Monofilament)

- Prolus® - Blue Monofilament Polypropylene
- Nylus® - Black Monofilament Polyamide
- Stelus® - Monofilament 316 L Stainless Steel





Esterlus®

Braided Coated Polyester

Product Details:

Composition	Polyester
Construction	Braided
Coating	Coated with Silicon to provide for smoother and better handling
In vitro retention of strength	Esterlus® sutures are not subject to degradation or loss of tensile strength
Tissue Reaction	Esterlus® sutures elicit only a mild tissue reaction
Absorption Time	Non-absorbable
Sterilization	100% Ethylene Oxide
Available in Sizes	5-0, 4-0, 3-0, 2-0, 0, 1, 2, 3, 4, 5
Colour	Green and White
Shelf Life	5 years
Packaging	Box of 6 and 12 sutures







Distinctive Features:

- ◆ Coated with silicon which helps in easy passage through the tissue with minimal trauma.
- ◆ Excellent strength & handling properties.
- ◆ Dyed for good visibility in the surgical arena.
- ◆ Flexible, elongates to support for optimum knotting.
- ◆ Smooth tie-down properties.




ESTERLUS® - Non-Absorbable Sutures

Braided Coated Polyester

TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
13 mm Double Armed 	3/8 Circle	75 cm Green		LS 6890	LS 6891				
13 mm Double Armed 	1/2 Circle	75 cm Green			LS 6892				
		75 cm White			LS 6893				
13 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	75 cm Green			LS 6892-PL-3				
		75 cm White			LS 6893-PL-3				
25 mm 	1/2 Circle	100 cm Green				LS 655			
25 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	90 cm					LS 6226-PL-3		
26 mm Double Armed 	1/2 Circle	75 cm Green				LS 6832			
		100 cm Green				LS 6552			


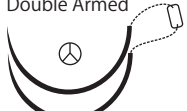



TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
17.5 mm Double Armed 	1/2 Circle	75 cm 5 Green & 5 White					LS 10B52		
		90 cm Green			LS 6935	LS 6936	LS 6937		
		90 cm White					LS 6917		
17.5 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	75 cm 5 Green & 5 White					LS 10B55-PL-3		
		90 cm Green				LS 6936-PL-3	LS 6937-PL-3		
		90 cm White					LS 6917-PL-3		
17.5 mm Double Armed  Pledget 6mm x 3mm x 1.5mm	1/2 Circle	75 cm 5 Green & 5 White					LS 10B55		
		90 cm Green					LS 6937-PL-6		
		90 cm White					LS 6917-PL-6		
		90 cm 4 Green					LS 4B37		



ESTERLUS® - Non-Absorbable Sutures

Braided Coated Polyester

TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size							
			3-0	2-0	0	1	2	3	4	5
26 mm Double Armed 	½ Circle	75 cm 5 Green & 5 White		LS 10B72						
		90 cm Green		LS 6977						
		90 cm White		LS 6987						
26 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	½ Circle	75 cm 5 Green & 5 White		LS 10B77-PL-3						
		90 cm Green		LS 6977 PL-3						
		90 cm White		LS 6987-PL-3						
26 mm Double Armed  Pledget 6mm x 3mm x 1.5mm	½ Circle	75 cm 5 Green & 5 White		LS 10B77						
		90 cm Green		LS 6977-PL-6						
		90 cm White		LS 6987-PL-6						
		90 cm 4 Green		LS 4B77						
45 mm HEAVY 	½ Circle	75 cm 1 Green per foil					LS 4842			
		75 cm 4 Green per foil (multi-strand)					LS 4843			
55 mm HEAVY 	½ Circle	75 cm 1 Green per foil								LS 4845
		75 cm 4 Green per foil (multi-strand)								LS 4846

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			4-0	3-0	2-0	0	1	2	3	
23 mm 	½ Circle	75 cm Green				LS 6517	LS 6942			
40 mm 	½ Circle	75 cm Green					LS 6941			



Silkus®

Black Braided Silk

Product Details:












Composition	Silk
Construction	Braided
Coating	Coated with Silicon to give 'hand' to the suture
In vitro retention of strength	Although Silkus® is classified as a non-absorbable suture, it loses most of its tensile strength in one year
Tissue Reaction	Silk being a natural fibre elicits an inflammatory reaction, which is followed by gradual encapsulation of the suture by fibrous connective tissue
Absorption Time	Although Silkus® is classified as a non-absorbable suture, it gets completely absorbed in 2 years. Hence, it can be considered as a very slow absorbing suture
Sterilization	100% Ethylene Oxide
Available in Sizes	8-0, 7-0, 6-0, 5-0, 4-0, 3-0, 2-0, 0, 1
Colour	Black
Shelf Life	5 years
Packaging	Box of 12 sutures

Distinctive Features:

- ◆ Coated with silicon to allow easy passage through tissue, limit absorption and increase ductility.
- ◆ Knot pull strength and needle swage strength greater than USP limits.
- ◆ Packed using Tyvek paper for extra security.
- ◆ Dyed black for better visibility.

SILKUS® - Non-Absorbable Sutures
Black Braided Silk

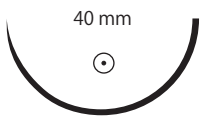

TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size						
			6-0	5-0	4-0	3-0	2-0	0	1
10 mm 	3/8 Circle	76 cm		LNW 5095					
12 mm 	3/8 Circle	76 cm		LNW 5027					
13 mm 	3/8 Circle	76 cm	LNW 5029						
16 mm 	3/8 Circle	76 cm		LNW 5081	LNW 5082				
16 mm 	1/2 Circle	76 cm			LNW 5049				
		90 cm			LNW 5050				
20 mm 	1/2 Circle	76 cm			LNW 5086	LNW 5087			
25 mm 	1/2 Circle	76 cm				LNW 5070			
		90 cm				LNW 5085			
30 mm 	3/8 Circle	76 cm						LNW 5017	
30 mm 	1/2 Circle	75 cm					LNW 5230		
		76 cm					LNW 5333	LNW 5334	
		90 cm					LNW 5331	LNW 5332	
35 mm 	3/8 Circle	90 cm				LNW 5100			
37 mm 	1/2 Circle	75 cm							LNW 5137


SILKUS® - Non-Absorbable Sutures

Black Braided Silk




TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size							
			5-0	4-0	3-0	2-0	0	1	2	
 40 mm	½ Circle	70 cm								LNW 5073
 50 mm	Straight	76 cm				LNW 5208				

TAPER CUT









Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
 25 mm	½ Circle	76 cm					LNW 5670			

CUTTING


Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	1-0	0	1
 16 mm	¾ Circle	76 cm			LNW 5001	LNW 5002				
		90 cm			LNW 5000	LNW 5003				
 60 mm	Straight	76 cm					LNW 5290			
 60 mm	¾ Circle	76 cm								LNW 5062
		90 cm								

SILKUS® - Non-Absorbable Sutures
Black Braided Silk

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
8 mm 	3/8 Circle Micro Point	38 cm	LNW 5043							
10 mm 	3/8 Circle Micro Point	38 cm	LNW 5012							
12 mm 	3/8 Circle	76 cm		LNW 5080						
		90 cm		LNW 5079						
26 mm 	3/8 Circle	76 cm				LNW 5028				
45 mm 	3/8 Circle	76 cm					LNW 5036	LNW 5037		
		90 cm					LNW 5036 L	LNW 5037 L		
45 mm 	1/2 Circle	76 cm						LNW 5038		
50 mm 	3/8 Circle	76 cm								LNW 5063
50 mm 	1/2 Circle	76 cm					LNW 5052			

SPATULATED

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
8 mm 	1/4 Circle Micro Point	38 cm	LNW 5088							

SILKUS® - Non-Absorbable Sutures
Black Braided Silk

PRE-CUT SUTURES

Suture Length	Suture Size							
	4-0	3-0	2-0	0	1	2	3	4
2 x 75 cm	WN 211	WN 212	WN 213	WN 214	WN 215	WN 216	WN 217	WN 218
2 x 35 cm		WN 222	WN 223	WN 224				

Packaging : Box of 12

SILKUS® REELS - Non-Absorbable Sutures
Black Braided Silk Reels
Non-Sterile

Suture Length per Reel	Suture Size							
	5-0	4-0	3-0	2-0	0	1	2	3
25 meters	LR 820	LR 821	LR 822	LR 823	LR 824	LR 825	LR 826	LR 828

Packaging : Box of 6 reels



Prolus[®]

Blue Monofilament Polypropylene

Cardiovascular and Other Speciality Sutures


Product Details:

Composition	Polypropylene
Construction	Monofilament
Coating	None
In vitro retention of strength	Prolus [®] is not subject to any degradation or loss of tensile strength
Tissue Reaction	Prolus [®] elicits a minimal inflammatory reaction in the tissue, followed by gradual encapsulation of the suture by fibrous tissue
Absorption Time	Non-absorbable
Sterilization	100% Ethylene Oxide
Available in Sizes	8-0, 7-0, 6-0, 5-0, 4-0, 3-0, 2-0, 0, 1
Colour	Blue
Shelf Life	5 years
Packaging	Box of 12 sutures









Distinctive Features:

- ◆ Extremely high tensile strength.
- ◆ Knot pull strength exceeds USP limits.
- ◆ Extremely smooth material resulting in minimal tissue trauma.
- ◆ Prolus[®] sutures used in cardiovascular surgery are straight packed to minimize memory.
- ◆ Allows for secured knot tying.
- ◆ Packed using Tyvek paper for extra security.









PROLUS® - Non-Absorbable Sutures
Blue Monofilament Polypropylene
CARDIOVASCULAR SUTURES
TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
6 mm CA-160 Double Armed 	3/8 Circle	60 cm	PL 2086-F									
6 mm CA-180 Double Armed 	3/8 Circle	60 cm		PL 2076								
8mm CA-180 Double Armed 	3/8 Circle	60 cm		PL 2078-F								
8 mm CA-200 Double Armed 	3/8 Circle	45 cm	PL 2088-S									
		60 cm	PL 2088	PL 2078								
		75 cm	PL 2088-L	PL 2078-L								
8 mm PCA-200 Double Armed 	3/8 Circle	60 cm	PL 2088-PV	PL 2078-PV								
9 mm CA-180 Double Armed 	3/8 Circle	60 cm	PL 2089									
9 mm CA-200 Double Armed 	3/8 Circle	60 cm		PL 2079								
		75 cm		PL 2079-L								
9mm CA-240 Double Armed 	3/8 Circle	60 cm		PL 2079-T	PL 8709							
		75 cm			PL 8709-L							







PROLUS® - Non-Absorbable Sutures
 Blue Monofilament Polypropylene
CARDIOVASCULAR SUTURES
 TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size										
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1		
10 mm CA-200 Double Armed 	3/8 Circle	60 cm	PL 2080										
10 mm CA-220 Double Armed 	3/8 Circle	60 cm		PL 2070									
				PL 2710									
10 mm AA-280 Double Armed 	3/8 Circle	60 cm			PL 8691								
					PL 8804								
		75 cm			PL 8804-L								
10 mm LTF 330 Double Armed 	1/2 Circle	60 cm			PL 8207								
10 mm LTF 330 Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	60 cm			PL 8207-PL-3								
10 mm Double Armed 	1/2 Circle	60 cm				PL 8803							
		75 cm				PL 8803-L							
10 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	60 cm				PL 8803-PL-3							
13 mm AA-240 Double Armed 	3/8 Circle	60 cm			PL 8726								
		75 cm			PL 8725								
		90 cm			PL 8723								







PROLUS® - Non-Absorbable Sutures
 Blue Monofilament Polypropylene
CARDIOVASCULAR SUTURES
 TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
13 mm AA-240 Double Armed  Pledget 3mm x 3mm x 1.5mm	3/8 Circle	60 cm			PL 8726-PL-3							
13 mm AA-280 Double Armed 	3/8 Circle	45 cm			PL 8726-T-S							
		60 cm			PL 8726-T							
		75 cm			PL 8725-T							
13 mm Double Armed 	3/8 Circle	75 cm				PL 8721						
13 mm LTF 330 Double Armed 	1/2 Circle	60 cm			PL 8206	PL 8205						
13 mm LTF 330 Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	60 cm			PL 8206-PL-3	PL 8205-PL-3						
13 mm LTF 430 Double Armed 	1/2 Circle	60 cm					PL 8204					
		75 cm					PL 8204 L					
13 mm LTF 430 Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	60 cm					PL 8204-PL-3					
13 mm Double Armed 	1/2 Circle	45 cm				PL 8710-S						
		75 cm				PL 8710						


PROLUS® - Non-Absorbable Sutures
Blue Monofilament Polypropylene
CARDIOVASCULAR SUTURES
TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size										
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1		
13 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	½ Circle	75 cm					PL 8710-PL-3						
16 mm Double Armed 	½ Circle	90 cm					PL 8556	PL 8557					
16 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	½ Circle	90 cm					PL 8556-PL-3						
20 mm Double Armed 	½ Circle	90 cm						PL 8761					
26 mm 	½ Circle	75 cm							PL 8832				
26 mm Double Armed 	½ Circle	90 cm						PL 8521					
								PL 8521 T	PL 8522				









PROLUS® - Non-Absorbable Sutures
 Blue Monofilament Polypropylene
CARDIOVASCULAR SUTURES
 TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
8 mm CCA-220 Double Armed 	3/8 Circle	60 cm		PL 2078-CC								
17.4 mm Double Armed 	1/2 Circle	90 cm				PL 8517						
17.5 mm Double Armed 	1/2 Circle	90 cm					PL 8935	PL 8936	PL 8937			
		150 cm								PL 8937-L		
17.5 mm Double Armed  Pledget 3mm x 3mm x 1.5mm	1/2 Circle	90 cm					PL 8935-PL-3					
25 mm Double Armed 	1/2 Circle	90 cm						PL 8976				
26 mm Double Armed 	1/2 Circle	90 cm							PL 8977			
		150 cm								PL 8977-L		



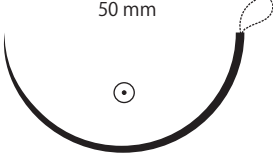
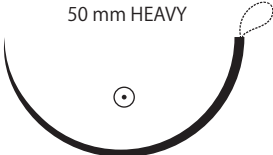
CARDIOVASCULAR SUTURES
 REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
12 mm RE 280 	3/8 Circle	70 cm			PL 878							







PROLUS® - Non-Absorbable Sutures
 Blue Monofilament Polypropylene
OTHER SPECIALITY SUTURES
TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
16 mm 	3/8 Circle	70 cm				LNW 881						
16 mm Double Armed 	3/8 Circle	70 cm				LNW 882						
16 mm 	1/2 Circle	70 cm					LNW 849					
		90 cm					LNW 848					
20 mm 	1/2 Circle	70 cm						LNW 887				
25 mm 	1/2 Circle	70 cm						LNW 838				
		90 cm						LNW 825				
26 mm 	1/2 Circle	90 cm								LNW 824		
30 mm 	1/2 Circle	70 cm							LNW 841	LNW 842		
		90 cm							LNW 844	LNW 846		
30 mm HEAVY 	1/2 Circle	70 cm								LNW 830	LNW 840	







PROLUS® - Non-Absorbable Sutures
Blue Monofilament Polypropylene
OTHER SPECIALITY SUTURES
TAPER POINT

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
40 mm 	½ Circle	150 cm (LOOP)									LNW 833	
40 mm HEAVY 	½ Circle	70 cm										LNW 843
		90 cm										LNW 843 L
50 mm 	½ Circle	150 cm (LOOP)									LNW 834	
50 mm HEAVY 	½ Circle	150 cm (LOOP)										LNW 835





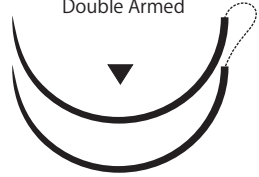
PROLUS® - Non-Absorbable Sutures
Blue Monofilament Polypropylene
OTHER SPECIALITY SUTURES
TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size								
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1
17 mm 	½ Circle	70 cm					LNW 899				
25 mm 	½ Circle	70 cm							LNW 807	LNW 805	
		90 cm							LNW 806		
25 mm Double Armed 	½ Circle	90 cm							LNW 877		
30 mm HEAVY 	½ Circle	90 cm								LNW 894	
		100 cm									LNW 896
36 mm 	½ Circle	90 cm							LNW 850		
45 mm HEAVY 	½ Circle	100 cm									LNW 845

PROLUS® - Non-Absorbable Sutures
Blue Monofilament Polypropylene
OTHER SPECIALITY SUTURES
CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size								
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1
13 mm 	3/8 Circle	70 cm			LNW 817						
16 mm 	3/8 Circle	45 cm					LNW 815				
		60 cm					LNW 816				
		70 cm					LNW 870				
16 mm Double Armed 	3/8 Circle	70 cm					LNW 870-DA				
22 mm 	3/8 Circle	70 cm						LNW 018			
25 mm 	3/8 Circle	45 cm						LNW 820			
		60 cm						LNW 821			
		70 cm						LNW 802			
60 mm 	Straight	70 cm						LNW 888			

PROLUS® - Non-Absorbable Sutures
 Blue Monofilament Polypropylene
OTHER SPECIALITY SUTURES
 REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size									
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	1	
12 mm 	3/8 Circle	45 cm					LNW 879					
		70 cm				LNW 880						
		90 cm				LNW 889						
13 mm 	3/8 Circle Premium	70 cm				LNW 862						
45 mm 	3/8 Circle	70 cm							LNW 863			
45 mm HEAVY 	1/2 Circle	100 cm										LNW 883
45 mm HEAVY Double Armed 	1/2 Circle	100 cm										LNW 883 DA



Nylus®

Black Monofilament Polyamide

Product Details:





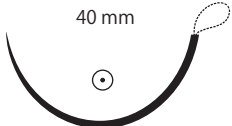

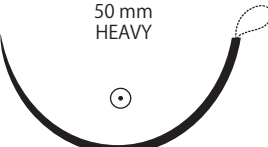
Composition	Nylon
Construction	Monofilament
Coating	None
In vitro retention of strength	Nylus® is non-absorbable. However, progressive hydrolysis may cause a gradual loss of up to 20% in its tensile strength each year
Tissue Reaction	Nylus® suture elicits a minimal inflammatory reaction in the tissue, followed by gradual encapsulation of the suture by fibrous connective tissue
Absorption Time	Non-absorbable
Sterilization	100% Ethylene Oxide
Available in Sizes	11-0, 10-0, 9-0, 8-0, 7-0, 6-0, 5-0, 4-0, 3-0, 2-0, 0, 1
Colour	Black
Shelf Life	5 years
Packaging	Box of 12 sutures

Distinctive Features:

- ◆ Easy passage through tissue because of low frictional co-efficient.
- ◆ Excellent elasticity.
- ◆ Knot pull strength and needle swage strength greater than USP limits.
- ◆ Packed using Tyvek paper for extra security.
- ◆ Superior cutting needles which are excellent for use in plastic surgery.
- ◆ Ideal for use in skin closures.







NYLUS® - Non-Absorbable Sutures
Black Monofilament Polyamide

TAPER POINT




Needle Length	Needle Profile	Suture Length	Suture Size								
			11-0	10-0	9-0	8-0	3-0	2-0	0	1	
3.8 mm 	3/8 Circle	13 cm	LNW 2881 G	LNW 2870 G							
5.1 mm 	3/8 Circle	13 cm		LNW 2850 G	LNW 2829 G						
6 mm 	3/8 Circle Micro Point	38 cm			LNW 3709	LNW 3708					
6.5 mm 	3/8 Circle	13 cm				LNW 2808 G					
		25 cm			LNW 2800 G						
40 mm 	1/2 Circle	150 cm (LOOP)								LNW 3340	
40 mm HEAVY 	1/2 Circle	100 cm								LNW 3346	LNW 3347
50 mm HEAVY 	1/2 Circle	150 cm (LOOP)									LNW 3348
		200 cm (LOOP)									LNW 3348 K

NYLUS® - Non-Absorbable Sutures Black Monofilament Polyamide

CUTTING









Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
13 mm 	3/8 Circle Premium	70 cm	LNW 3351							
16 mm 	3/8 Circle	35 cm		LNW 3315						
		70 cm			LNW 3318	LNW 3321				
		90 cm			LNW 3319					
19 mm 	3/8 Circle	45 cm			LNW 3356					
		60 cm			LNW 3357					
		70 cm			LNW 3567					
26 mm 	3/8 Circle	70 cm	LNW 3331							
55 mm 	Straight	100 cm						LNW 3255		
60 mm 	Straight	70 cm					LNW 3388	LNW 3390	LNW 3389	

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
10 mm 	3/8 Circle	38 cm			LNW 3326					
		70 cm	LNW 3320	LNW 3322						
12 mm 	3/8 Circle	70 cm		LNW 3317						
		90 cm		LNW 3316						
12 mm 	3/8 Circle Premium	70 cm			LNW 3752					




NYLUS® - Non-Absorbable Sutures
Black Monofilament Polyamide

REVERSE CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			6-0	5-0	4-0	3-0	2-0	0	1	
13 mm 	3/8 Circle	60 cm		LNW 3353						
16 mm 	3/8 Circle	70 cm				LNW 3332				
26 mm 	3/8 Circle	35 cm				LNW 3328 S				
		45 cm					LNW 3302			
		70 cm				LNW 3328				
		90 cm				LNW 3328 L				
40 mm 	3/8 Circle	70 cm					LNW 3333			
40 mm HEAVY 	1/2 Circle	100 cm						LNW 3334	LNW 3335	
45 mm 	3/8 Circle	35 cm					LNW 3336 S			
		70 cm					LNW 3336	LNW 3337		
		90 cm					LNW 3336 L			
		110 cm					LNW 3336 EL			
45 mm HEAVY 	1/2 Circle	100 cm							LNW 3338	
50 mm HEAVY 	1/2 Circle	100 cm							LNW 3362	

NYLUS® - Non-Absorbable Sutures
Black Monofilament Polyamide

SPATULATED

Needle Length	Needle Profile	Suture Length	Suture Size											
			11-0	10-0	9-0	8-0	7-0	6-0	5-0	4-0	3-0	2-0	0	
6 mm 	3/8 Circle Premium Micro Point	38 cm		LNW 3720										
6 mm Double Armed 	3/8 Circle Micro Point	38 cm			LNW 3714	LNW 3324								
6 mm Double Armed 	3/8 Circle Premium Micro Point	38 cm		LNW 3717										

PRE-CUT SUTURES

Suture Length	Suture Size					
	4-0	3-0	2-0	0	1	2
2 x 35 cm			WN 703	WN 704	WN 705	
2 x 76 cm			WN 903	WN 904	WN 905	WN 906

Packaging : Box of 12



Stelus®

Monofilament 316 L Stainless Steel

Product Details:

Composition	316 L Stainless Steel
Construction	Monofilament
Coating	None
In vitro retention of strength	Stelus® sutures have high tensile strength and exhibit very minimal loss over time
Tissue Reaction	Stelus® sutures show very low tissue reactivity
Absorption Time	Non-absorbable
Sterilization	100% Ethylene Oxide
Available in Sizes	1, 2, 4, 5, 6, 7
Colour	Metallic Silver
Shelf Life	5 years
Packaging	Box of 12 x 6 = 72 sutures Box of 12 x 4 = 48 sutures Box of 12 x 2 = 24 sutures Box of 12 x 1 = 12 sutures




Distinctive Features:

- ◆ Stelus® sutures are laser welded.




STELUS® - Non-Absorbable Sutures Monofilament 316 L Stainless Steel



BLUNT POINT

Needle Length	Needle Profile	Suture Length	Suture Size							
			0	1	2	3	4	5	6	
40 mm 	½ Circle	45 cm (4 x 45 cm)		LS 661	LS 662					
45 mm 	½ Circle	45 cm (4 x 45 cm)					LS 664	LS 651	LS 649	
		75 cm (2 x 75 cm)						LS 643	LS 645	
45 mm 	½ Circle	75 cm (6 x 75 cm)								LS 756 VS

TAPER CUT

Needle Length	Needle Profile	Suture Length	Suture Size							
			0	1	2	3	4	5	6	
40 mm 	½ Circle	45 cm (4 x 45 cm)		LS 660	LS 650					

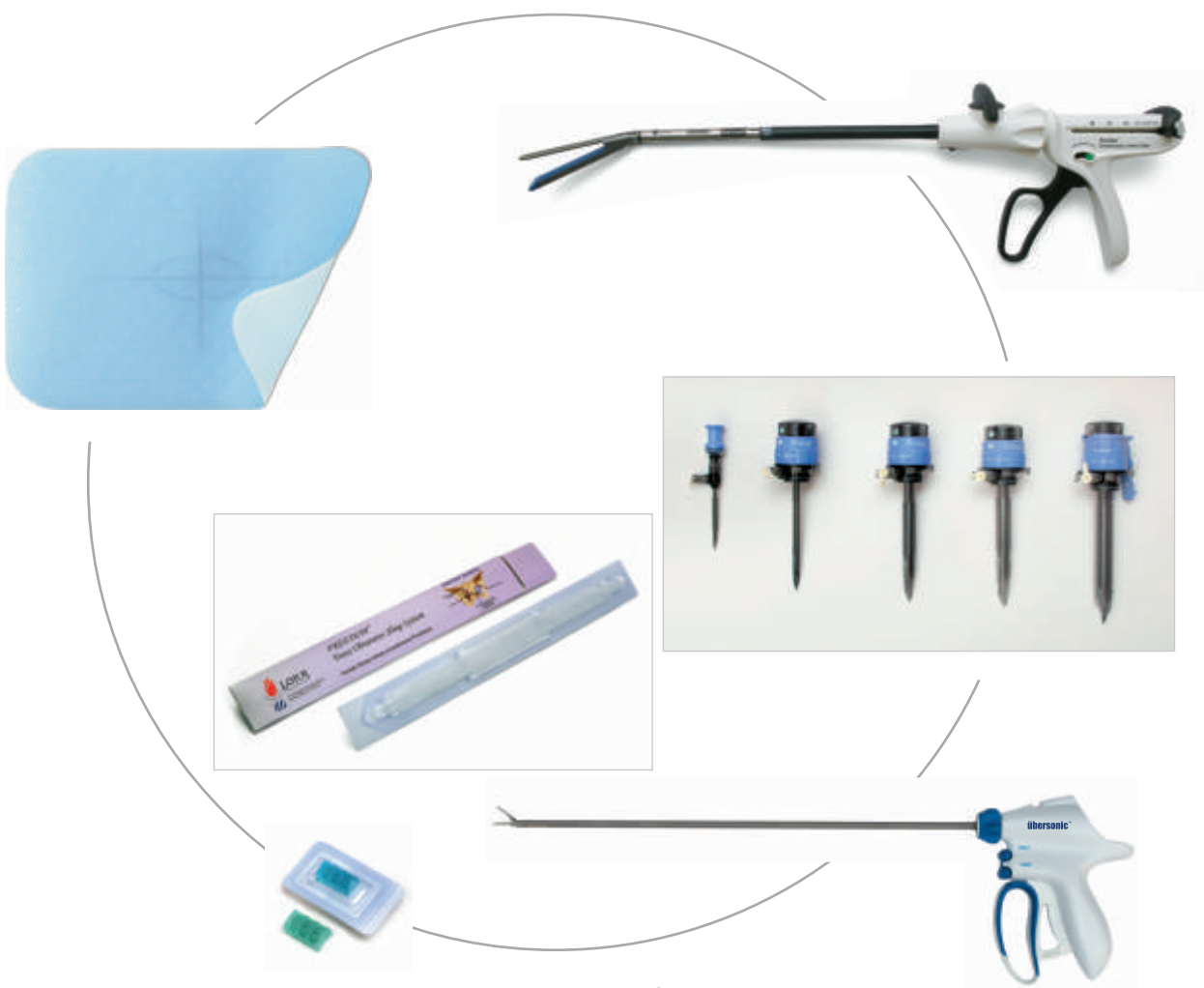
CONVENTIONAL CUTTING

Needle Length	Needle Profile	Suture Length	Suture Size							
			0	1	2	3	4	5	6	7
48 mm 	½ Circle	45 cm (4 x 45 cm)					LS 652	LS 653	LS 654	LS 654-T
		45 cm (6 x 45 cm)							LS 654-6	
		75 cm (2 x 75 cm)						LS 646	LS 644	
57 mm HEAVY 	¾ Circle	75 cm (2 x 75 cm)						LS 647		

MEDICAL DEVICES

Medical Devices from Lotus:

- **Ubersonic™** - Ultrasonic Shear System
- **ProSec®** - Surgical and Skin Staplers
- **ProLap®** - Laparoscopic Instruments
- **Hemosec®** - Titanium Clips and Appliers
- **Hemolus™** - Absorbable Hemostat for Surgical Use
- **Pro-Visc® 3D** - Composite Dual-side Mesh for Intra-peritoneal Placement
- **EndoTack™** - Titanium Tacker for Surgical Mesh Fixation
- **Prolus® Mesh ♦ Prolus® Lite** - Polypropylene Meshes for Hernia Repair
- **Pro-AB®** - Partially Absorbable Light Weight Mesh for Hernia Repair
- **Freedom®** - Trans-Obturator Needles and Sling System
- **ProLysate®** - Handrub and Surgical Handwash



übersonic™ Generator



for Open Surgery



for Laparoscopy



übersonic™ Transducer



Ubersonic™

Ultrasonic Shear System

Generator and Transducer

Product Description:

The Ubersonic™ Generator is a high-performance ultrasonic-energy surgical system that provides advanced technology and touchscreen simplicity in one sleek and user-friendly unit. The Ubersonic™ Transducer is the device that connects the Generator to the ultrasonic shears.

GENERATOR

Distinctive Features:

- ◆ Universal connector and automatic instrument recognition.
- ◆ Touchscreen for easy setup, operation, and on-screen diagnostics.
- ◆ High-resolution display with wider viewing angles.
- ◆ Compact design, takes up less space in the OR.
- ◆ Converts electrical energy to mechanical energy delivered via high-frequency vibrations.
- ◆ No electricity transfer to, or through, the patient.
- ◆ Blade vibrates 55,000 times per second to simultaneously seal and transect tissue.

TRANSDUCER

Distinctive Features:

- ◆ Multi-use component.
- ◆ Lighter hand piece capable of higher amplitude.
- ◆ Can be used over 150 surgeries.
- ◆ Universal industry-compatible design.
- ◆ Can fit existing ultrasonic generators in the market.
- ◆ Can also be used with other instruments in the market.

Ref. Code	Product Description	Ref. Code	Product Description
LUGEN	Ubersonic™ Generator	LUTD 55	Transducer – Laparoscopic
LUFWS	Generator Footswitch	LUTD 55M	Transducer – Open Surgery
LUBPC	Universal Bipolar Cable		

Packaging:

Generator along with Footswitch provided in 1 unit per pack.
Transducer provided in 1 unit per pack. To be sterilized before use.

übersonic™ PRO+
Ultrasonic Laparoscopic Shears



übersonic™ MAESTRO
Ultrasonic Shears for Open Surgery

Ubersonic™

Ultrasonic Shear System

übersonic™ PRO+ Ultrasonic Laparoscopic Shears

Product Description:

Ubersonic™ Pro+ is a surgical instrument used in laparoscopic procedures that uses ultrasonic vibrations to perform simultaneous cutting and coagulation of tissue. It provides secure grasping, precise cutting and reliable sealing to delicate structures without traumatizing underlying tissue.

Distinctive Features:

- ◆ Refined blade design.
- ◆ Delivers energy intelligently.
- ◆ Responds to changing tissue conditions.
- ◆ Provides enhanced audible feedback.
- ◆ Enables greater surgical precision and performance.
- ◆ Compatible with existing Ultrasonic Generators and Transducers in the market.

Ref. Code	Product Description	Diameter	Shaft Length
LULS 23	Ultrasonic Laparoscopic Shears	5mm	23cm
LULS 36	Ultrasonic Laparoscopic Shears	5mm	36cm
LULS 45	Ultrasonic Laparoscopic Shears	5mm	45cm

Packaging:

Instrument provided sterile in 1 unit per pack.

übersonic™ MAESTRO Ultrasonic Shears for Open Surgery

Product Description:

Ubersonic™ Maestro Shears for Open Surgery offer unmatched precision with strong sealing ability. They are designed for a wider range of surgical procedures in order to reduce the number of surgical devices needed to achieve hemostasis.

Ref. Code	Product Description	Length
LUOS 09	Ultrasonic Open Surgery Shears	9cm
LUOS 17	Ultrasonic Open Surgery Shears	17cm

Packaging:

Instrument provided sterile in 1 unit per pack.

übersonic™ MARVEL

Integrated Bipolar & Ultrasonic Laparoscopic Shears



Ubersonic™

Ultrasonic Shear System

übersonic™ MARVEL Integrated Bipolar & Ultrasonic Laparoscopic Shears

Product Description:

Ubersonic™ Marvel is a surgical instrument that provides dual system functionality of both bipolar as well as ultrasonic interface for its laparoscopic shears, enabling greater convenience through compatibility with existing RF Generators already in use.

Distinctive Features:

- ◆ Multi-function design.
- ◆ Can be used simultaneously as a Bipolar instrument.
- ◆ Convenient and time-saving operation.
- ◆ Compatible with existing RF Generators used in hospitals.
- ◆ Compatible with existing Ultrasonic Generators and Transducers in the market.

Ref. Code	Product Description	Diameter	Shaft Length
LULS 23RF	Ultrasonic + Bipolar Laparoscopic Shears	6mm	23cm
LULS 36RF	Ultrasonic + Bipolar Laparoscopic Shears	6mm	36cm
LUBPC	Universal Bipolar Cable	–	–

Packaging:

Instrument provided sterile in 1 unit per pack.

Universal ELC Instrument



ProSec®

Surgical and Skin Staplers

Endoscopic Linear Cutter

Product Description:

ProSec® Endoscopic Linear Cutter is a single-use instrument that places two triple-staggered height-progressive rows of titanium staples and simultaneously divides the tissue between the two triple rows. The rotating and articulating reload has a stepped cartridge face having varied-height staples (in Variable Tissue Compression Reloads). The reload comprises a complete assembly of a cartridge, anvil and knife bar. The instrument is used with a 12mm trocar (15mm for extra-thick tissue) in endoscopic surgical procedures.

UNIVERSAL ELC INSTRUMENT

Distinctive Features:

- ◆ Two stapler shaft lengths.
- ◆ One-handed grasping mechanism.
- ◆ 2-way 45° articulation of reload angle.

CODE	DESCRIPTION	SHAFT LENGTH
LPECB	Endoscopic Linear Cutter Standard Shaft	160mm
LPECBL	Endoscopic Linear Cutter Extra-long Shaft	260mm

Packaging:

ELC Instrument provided sterile in 1 unit per pack.

ELC Reload Cartridge



Endoscopic Linear Cutter

ELC RELOAD CARTRIDGE

Distinctive Features:

- ◆ Stronger streamlined fixed anvil.
- ◆ Reinforced and integrated i-beam design.
- ◆ Brand-new knife blade in each firing.
- ◆ Stepped cartridge face (in Variable Tissue Compression Reloads).
- ◆ Variable staple heights from inner to outer (in Variable Tissue Compression Reloads).

CODE	DESCRIPTION	TROCAR Ø (mm)	OPEN LEG LENGTH (mm)	CLOSED STAPLE HEIGHT (mm)
LPECR60WC	ELC 60mm Articulating Reload for Thin/Vascular Tissue	12	2.5	1.0
LPECR45BC	ELC 45mm Articulating Reload for Medium Tissue	12	3.5	1.5
LPECR60BC	ELC 60mm Articulating Reload for Medium Tissue			
LPECR60GC	ELC 60mm Articulating Reload for Thick Tissue	15	4.8	2.0
LPECR60YC	ELC 60mm Articulating Reload for Thick+ Tissue	12	4.2	2.4

Variable Tissue Compression Reloads

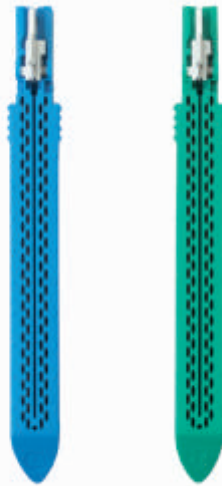
CODE	DESCRIPTION	TROCAR Ø (mm)	OPEN LEG LENGTH (mm)	CLOSED STAPLE HEIGHT (mm)
LPECR60W	ELC 60mm Articulating Reload for Vascular/Medium Tissue	12	2.0/2.5/3.0	0.88 ~ 1.5
LPECR45B	ELC 45mm Articulating Reload for Medium/Thick Tissue	12	3.0/3.5/4.0	1.5 ~ 2.25
LPECR60B	ELC 60mm Articulating Reload for Medium/Thick Tissue			
LPECR60G	ELC 60mm Articulating Reload for Extra-Thick Tissue	15	4.0/4.5/5.0	2.25 ~ 3.0

Packaging:

ELC Instrument provided sterile in 1 unit per pack.

ELC Reload cartridges are available separately in 6 units per pack.

Linear Cutter Instrument



Reload Cartridges

Linear Cutter

Product Description:

ProSec® Linear Cutter is a single-use instrument that places two double-staggered rows of titanium staples and simultaneously divides the tissue between the two rows. The reload comprises a complete assembly of a cartridge and knife bar. The instrument is used for resection and side-to-side anastomosis in open GI and Thoracic procedures.

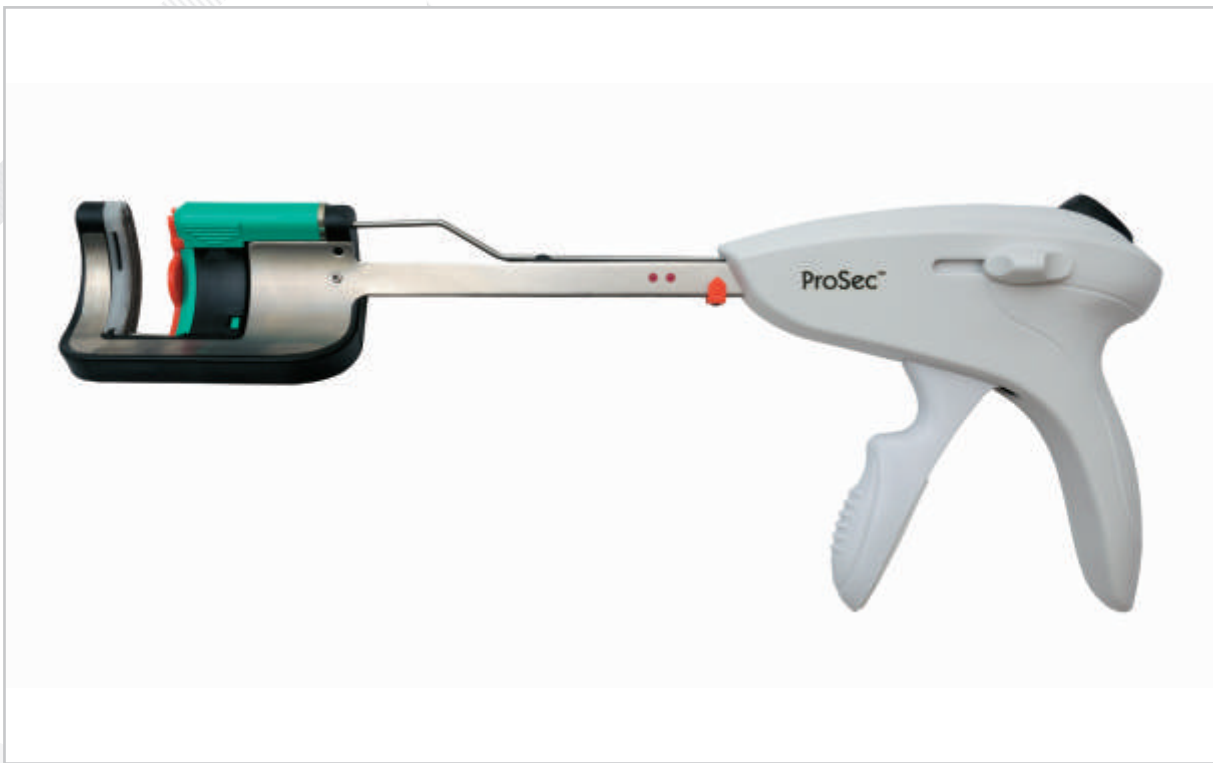
Distinctive Features:

- ◆ Reinforced instrument forks.
- ◆ Brand new knife blade in each cartridge.
- ◆ Unique cartridge surface provides minimum tissue slippage for precise transection.
- ◆ Better mucosal capture improves staple line integrity and leak resistance.
- ◆ Rear or centre hinge clamping for one-handed positioning.
- ◆ Adjustable firing knob.
- ◆ Quick release button.
- ◆ Safety lock-out.
- ◆ Ergonomic rubber inlay grips.

CODE	DESCRIPTION	OPEN LEG LENGTH	CLOSED STAPLE HEIGHT
LPLC60U	Linear Cutter 60mm Instrument	–	–
LPLCR60UB	Linear Cutter 60mm Reload for Medium Tissue	3.8mm	1.5mm
LPLCR60UG	Linear Cutter 60mm Reload for Thick Tissue	4.8mm	2.0mm
LPLC80U	Linear Cutter 80mm Instrument	–	–
LPLCR80UB	Linear Cutter 80mm Reload for Medium Tissue	3.8mm	1.5mm
LPLCR80UG	Linear Cutter 80mm Reload for Thick Tissue	4.8mm	2.0mm

Packaging:

Instrument provided sterile in 1 unit per pack.
Reload cartridges are available in separate packs.



Curved Cutter

Product Description:

ProSec® Curved Cutter is a single-use instrument used in colo-rectal procedures that require deeper access within the pelvis. Its unique curved head places 2 double staggered rows of staples and a curved blade cuts in between. Prosec® Curved Cutter allows for placement of a 40mm cutline in the width of a 30mm space with low pelvic access.

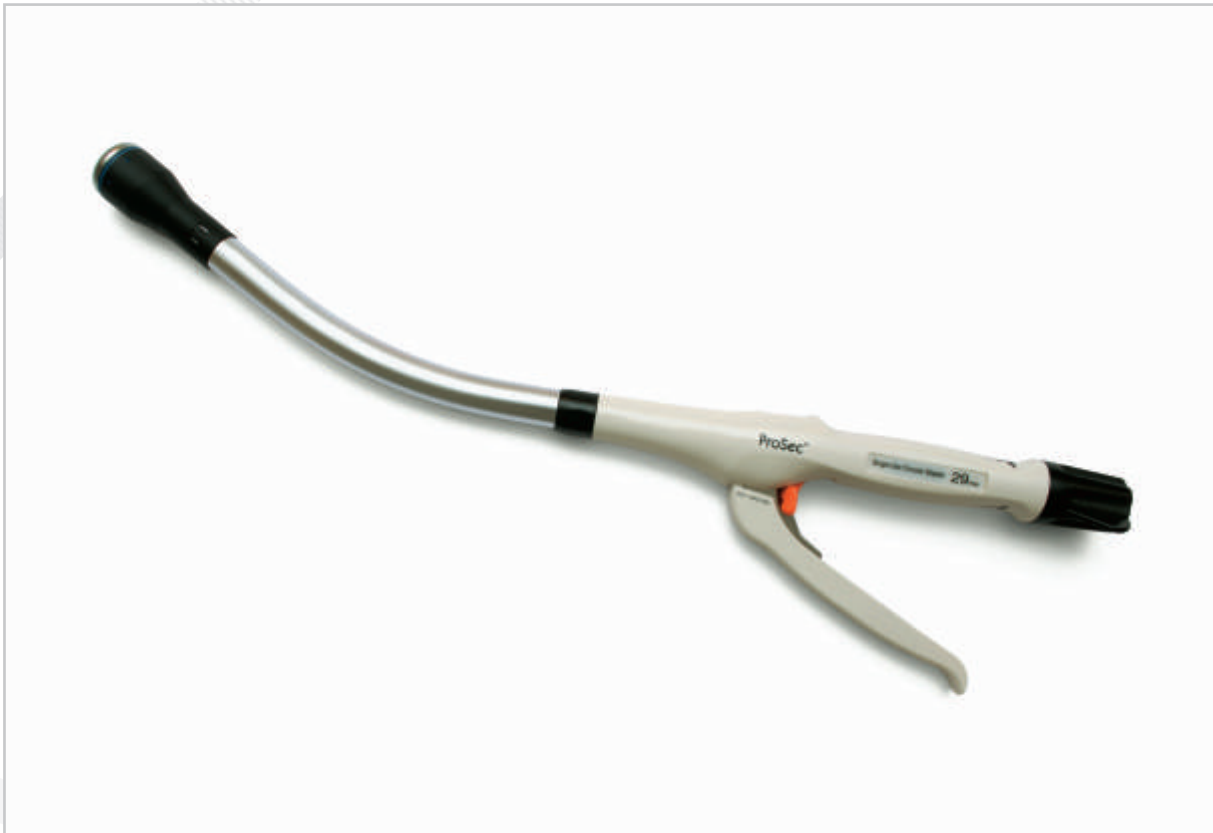
Distinctive Features:

- ◆ Curved head enables deep pelvic access.
- ◆ Easier placement for better tissue manipulation.
- ◆ Ability to transect perpendicular to the rectum helps avoid a longer staple line.
- ◆ Less tissue movement for more controlled transection.
- ◆ Simultaneous stapling and cutting.
- ◆ Optimized staple formation.

CODE	DESCRIPTION	LENGTH	STAPLE LEG LENGTH	CLOSED STAPLE HEIGHT
LPCC40G	Curved Cutter	40mm	4.8mm	2.0mm

Packaging:

Disposable instrument with built-in cartridge provided sterile in 1 unit per pack.



ProSec®

Surgical and Skin Staplers

Circular Stapler

Product Description:

ProSec® Circular Stapler is a single-use instrument that places two staggered circular rows of titanium staples and a circular knife divides the inner tissue. It is used in open and laparoscopic surgical procedures. Circular staplers are used for end-to-end anastomosis after bowel resection and in esophagogastric surgery.

Distinctive Features:

- ◆ Low profile anvil with atraumatic anvil edge.
- ◆ Detachable anvil for ease of tying purse-string suture over shaft.
- ◆ Extra staples per row.
- ◆ Extra-long shaft for versatile Open and Laparoscopic use.
- ◆ Airtight design.
- ◆ Barlocked cartridge attachment.
- ◆ Available in 4 different diameters.

CODE	OUTER DIAMETER	INNER DIAMETER	STAPLE	HEIGHT	FORMED HEIGHT
LPCS25	25mm	17mm	22	4.8mm	2.0mm
LPCS29	29mm	21mm	26	4.8mm	2.0mm
LPCS31	31mm	23mm	28	5.0mm	2.2mm
LPCS33	33mm	25mm	32	5.2mm	2.2mm

Packaging:

Instrument with cartridge provided sterile in 1 unit per pack.



ProSec®

Surgical and Skin Staplers

Hemorrhoid Stapler

Product Description:

ProSec® Hemorrhoid Stapler is a single-use instrument used for a stapled hemorrhoidectomy, also known as stapled hemorrhoidopexy. The procedure involves the removal of abnormally enlarged hemorrhoidal tissue, followed by the repositioning of the remaining rectal tissue back to its normal anatomical position.

Distinctive Features:

- ◆ Quick-close adjusting knob.
- ◆ 4 suture-threader ports.
- ◆ Clear anoscope reference markings.
- ◆ One-piece fixed anvil.
- ◆ More staples for better hemostasis.
- ◆ Available in 2 diameter sizes.

CODE	OUTER DIAMETER	INNER DIAMETER	STAPLE	HEIGHT	FORMED HEIGHT
LPHS32	32mm	24mm	32	4.0mm	0.8 - 2.0mm
LPHS34	34mm	26mm	34	4.0mm	0.8 - 2.0mm

Each sterile Instrument Set contains:

ProSec® Hemorrhoid Stapler	} Accessories
Suture Threader	
Transparent Circular Dilator	
Obturator	
Anoscope	

Packaging:

Instrument set provided sterile in 1 unit per pack.



ProSec®

Surgical and Skin Staplers

Skin Stapler

Product Description:

The ProSec® Skin Stapler is a sterile, single patient use instrument designed to deliver rectangular, stainless steel staples for routine wound closure. The staples are made of lubricant-coated stainless steel. The ProSec® Skin Stapler places single staples to close surgical incisions. It is supplied sterile and is preloaded for single patient use.

Product Details:

Staple Dimensions	Regular	Wide
Wire Diameter	0.50 mm	0.60 mm
Span	5.9 mm	7.2 mm
Leg Length	3.9 mm	4.9 mm

Packaging

ProSec® Skin Stapler	Box of 5
Staple Remover	Box of 20

Distinctive Features:

- ◆ Easy staple extraction.
- ◆ Superior cosmetic results - promotes blood supply and faster scar-free healing.
- ◆ Minimizes staple rotation.
- ◆ Uncompromised visibility, comfort and control.
- ◆ Staples are coated with lubricant.

Indications:

The ProSec® Skin Stapler has application for routine skin closure in a wide variety of surgical procedures.

Code	Description
LPSS	ProSec® Skin Stapler
LSR	Staple Remover



ProLap®

Laparoscopic Instruments




Single-use Laparoscopic Bladeless Trocars

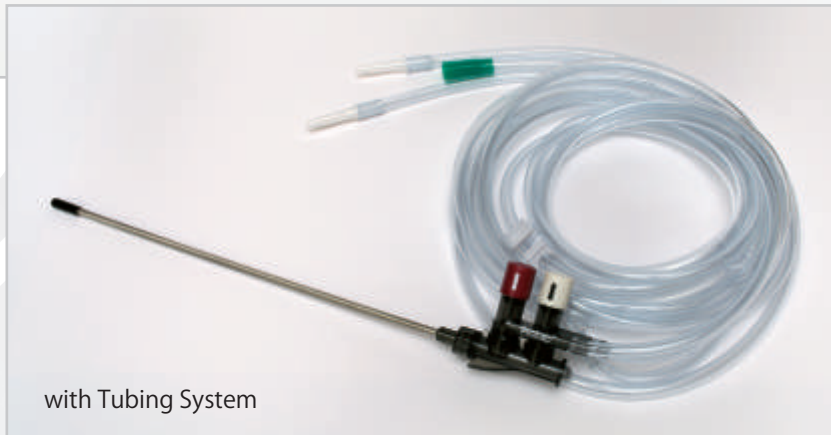
Product Description:

ProLap® Bladeless Trocar is a single-use instrument for Minimally Invasive Surgery (MIS) to puncture the abdominal wall for creating a working tunnel and maintaining the pneumoperitoneum during laparoscopic surgical procedures. The device finds use in laparoscopic surgery in gastro-enterology, colo-rectal, urology and gynaecology.

Distinctive Features:

- ◆ Bladeless obturator penetrates by dilating.
- ◆ 3-way stopcock design capable of rapid deflation, protecting against contamination.
- ◆ Blunt traumatic tip decreases the risk of damage to internal tissue.
- ◆ Tooth-like screw thread design to improve fixation.
- ◆ Universal seal provided for accommodation of 5mm to 10mm or 5mm to 12mm sized instruments.
- ◆ 5mm-12mm device can be used for visible trocar by inserting 10mm laparoscopic scope through obturator.

CODE	DEVICE	DESCRIPTION	PACKAGING
LBT3		Bladeless Trocar 3mm	1 unit per pack, 1 sealed pack per box
LBT5		Bladeless Trocar 5mm	
LBT10		Bladeless Trocar 5-10mm	
LBT12		Bladeless Trocar 5-12mm	
LBT15		Bladeless Trocar 15mm	
LBT10-2		Trocar Kit: Bladeless Trocar 5mm x 1 Bladeless Trocar 5mm Sleeve x 1 Bladeless Trocar 5-10mm x 1 Bladeless Trocar 5-10mm Sleeve x 1 Veress Needle x 1	1 unit each of kit contents in a single sealed pack, 1 sealed pack per box



ProLap®

Laparoscopic Instruments




Single-use Laparoscopic Suction & Irrigation Cannula

Product Description:

ProLap® Laparoscopic Suction & Irrigation Cannula with Tubing System is a single-use instrument for Minimally Invasive Surgery (MIS) procedures as a multi-purpose tool with suction and irrigation capabilities during laparoscopy.

Distinctive Features:

- ◆ Intuitive operation button for aspiration and irrigation.
- ◆ Ergonomic handle design for better control of instrument.
- ◆ Compatible with standard aspiration and irrigation machines in hospitals.

CODE	DEVICE	DESCRIPTION	PACKAGING
LLC 105-T		S&I Cannula w/Tubing System 5mm	3 sealed packs per box
LLC 110-T		S&I Cannula w/Tubing System 10mm	3 sealed packs per box
LLC 112-T		S&I Cannula w/Tubing System 12mm	3 sealed packs per box

Also available in single units in individual sealed packs.



Laparoscopic Retriever



Veress Needle

ProLap®

Laparoscopic Instruments

Single-use Laparoscopic Retriever

Product Description:

ProLap® Laparoscopic Retriever is a single-use instrument consisting of a tube and retrieval bag, designed for retrieving specimen in Minimally Invasive Surgery (MIS) procedures. The instrument is available in two sizes as per the dimensions of the retrieval bag.

Distinctive Features:

- ◆ Two sized bags to provide for adaptation to different specimens.
- ◆ Purse-string suture for easy closure of bag before withdrawal.
- ◆ Cost effective and convenient to use.

CODE	DEVICE	DESCRIPTION	PACKAGING
LLR90		Retriever 90mm x 155mm	6 sealed packs per box
LLR120		Retriever 120mm x 200mm	6 sealed packs per box

Also available in single units in individual sealed packs.

Single-use Veress Needle

Product Description:

ProLap® Veress Needle is a single-use instrument used to establish pneumoperitoneum prior to abdominal laparoscopy.

Distinctive Features:

- ◆ Spring-loaded blunt stylet mechanism.
- ◆ 14 gauge stainless steel needle.
- ◆ Comfortable gripping action on needle.

CODE	DEVICE	DESCRIPTION	PACKAGING
LVN120		Veress Needle	6 sealed packs per box

Also available in single units in individual sealed packs.

Hemosec®
Titanium Clips



Hemosec®
Clip Appliers

Hemosec®

Titanium Clips and Appliers

Product Description:

The Hemosec® Clip Applier is a reusable instrument designed to deliver and close metallic ligating clips. This instrument is used with Hemosec® Clips which are produced from titanium. The clips are designed for the ligation of tubular structures where a non absorbable ligating device is indicated.

The ligating clips are positioned around a tubular structure and closed by applying pressure to the handles of the applier.

Distinctive Features:

- ◆ Chevron shape of clips facilitates safe “tips-first” closing action.
- ◆ Serrated inner surface and heart-shaped cross-section of the clips allows secure closing.
- ◆ Diamond shaped grooving for atraumatic secure ligation.
- ◆ Triangular shaped wire for easy squeeze application.
- ◆ Adhesive cartridge backing ensures precise and effortless clip loading.
- ◆ **Control:** Jaws respond directly to the surgeon's hand, allowing complete control over clip closure.
- ◆ **Security:** Titanium clip manufacturing process ensures superior retention and reliability.
- ◆ **Comfort:** Ergonomically designed handle provides comfort and control.
- ◆ Colour-coded clips and corresponding colour-coded appliers for different sizes of clips.

TITANIUM CLIPS

Clip Size	Code	Packaging
Small	HTC S-6	Cartridge of 6 Small Clips; Box of 24 Cartridges
Medium	HTC M-6	Cartridge of 6 Medium Clips; Box of 24 Cartridges
Medium-Large	HTC ML-6	Cartridge of 6 Medium-Large Clips; Box of 18 Cartridges
Large	HTC L-6	Cartridge of 6 Large Clips; Box of 18 Cartridges

CLIP APPLIERS

Codes		Sizes
Open Appliers	Laparoscopic Appliers	for Clip Size
LOA-S	—	Small
LOA-M	LLA-M	Medium
LOA-ML	LLA-ML	Medium-Large
LOA-L	LLA-L	Large

Packaging: 1 Applier per Box



Hemolus™

Absorbable Hemostat (Oxidized Regenerated Cellulose)

Product Details:

Composition	Oxidized regenerated cellulose derivatives
Construction	Knitted fabric
Coating	None
Mechanism of Action	Absorbable hemostat upon contact with blood, transforms into a sticky, translucent gel that slows further diffusion of liquid molecules. It is fully bio-compatible and is broken down and completely absorbed by the body at rates that depend on the amount placed and the availability of fluid in the area where it has been applied
Tissue Reaction	When used properly in minimal amounts, Hemolus™ is absorbed from the sites of implantation with practically no tissue reaction
Degradation Time	2–4 weeks after in vivo implantation
Sterilization	Gamma Irradiation
Colour	White with pale yellow
Shelf Life	3 years
Packaging	Box of 12 pcs.

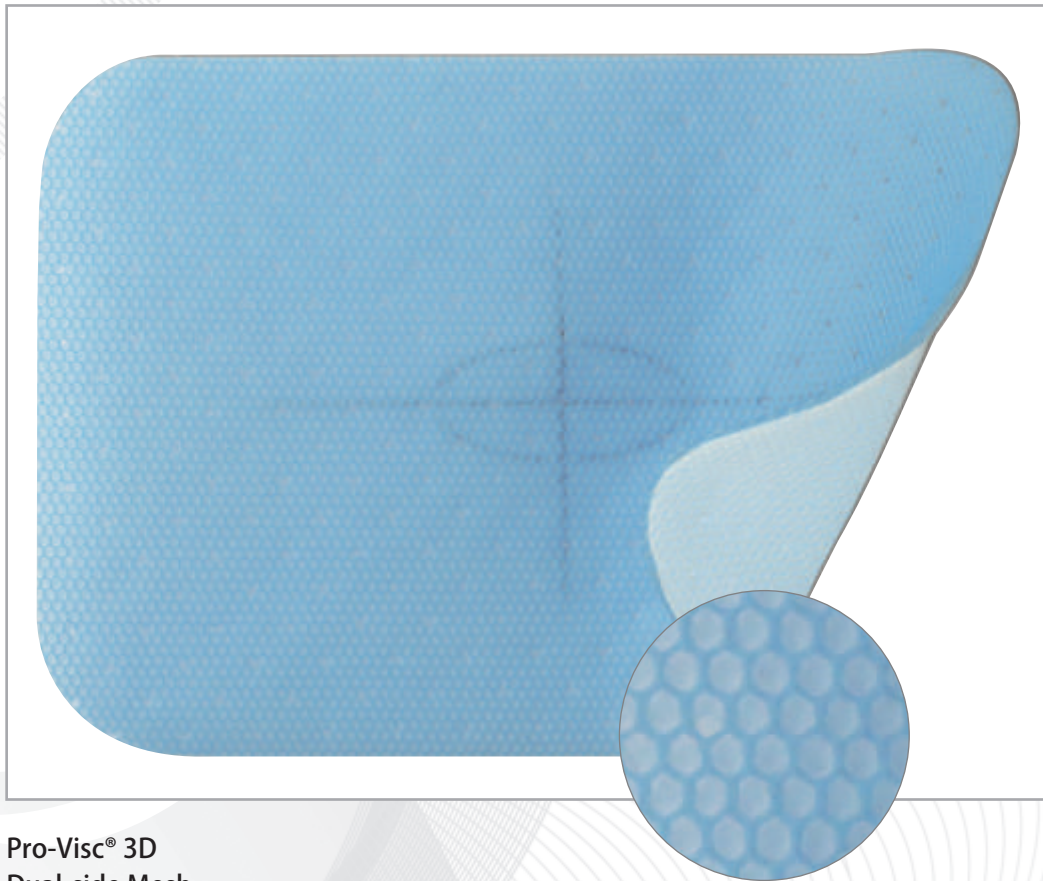
Distinctive Features:

- ◆ Material that drapes and wraps well.
- ◆ In addition to its local hemostatic properties, Hemolus™ is bactericidal In Vitro against a wide range of gram positive and gram negative organisms.

Available in Sizes

Oxidised Regenerated Cellulose [Original - Knit]

Code	Size
LH 1951	2 inch x 14 inch
LH 1952	4 inch x 8 inch
LH 1953	2 inch x 3 inch
LH 1954	½ inch x 2 inch



**Pro-Visc® 3D
Dual-side Mesh**

Pro-Visc® 3D

Composite Dual-side Mesh for Intra-peritoneal Placement

Product Description:

The first dual-side mesh in the market for intra-peritoneal placement, Pro-Visc® is a macro-perforated structure featuring two distinct sides – a permeable peritoneal side in polyester for good fibroblast colonization and rapid tissue fixation; and a non-absorbable and non-adherent smooth side in polyurethane allowing fluid transfer and contact with viscera. The dual-side mesh has a visual mark printed on it for easy mesh centering.

Product Details:

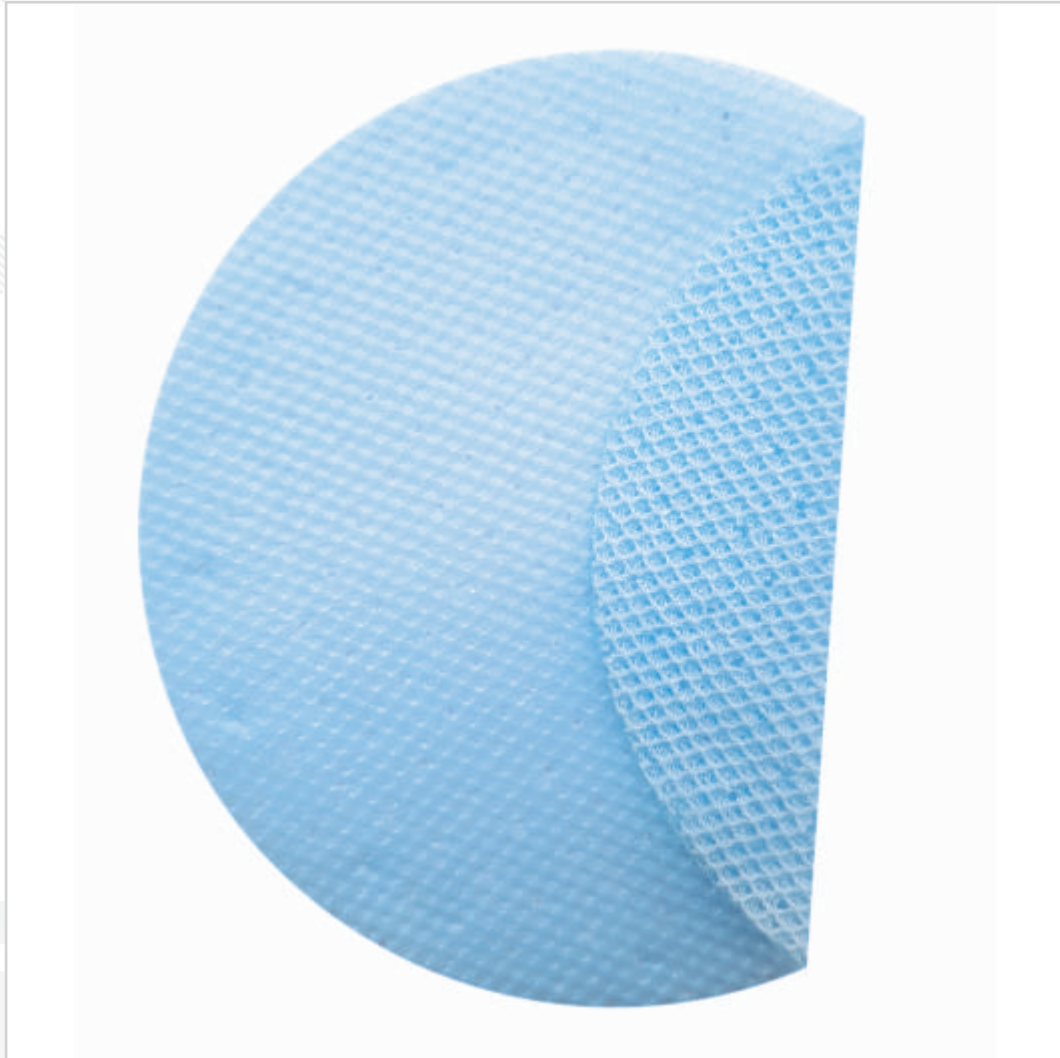
Composition	Polyester and Polyurethane
Absorption Time	Non-Absorbable
Sterilization	100% Ethylene Oxide
Mesh Weight	210 g/m ²
Mesh Thickness	1.5 mm
Elongation	32%
Maximum Force	23 kgf
Available in Sizes	Ø12 cm, 6 x 11 cm, 7.6 x 15 cm, 10 x 15 cm, 15 x 15 cm, 15 x 20 cm, 20 x 30 cm, 30 x 30 cm

Distinctive Features:

- ◆ Over 10 years human clinical experience.
- ◆ Pre-cut and entirely macro-perforated prosthesis.
- ◆ No viral contamination risk (100% synthetic materials).
- ◆ Excellent multidirectional mechanical properties and resistance to tearing.
- ◆ Ready for use prosthesis, with no preparation before implantation (minimum septic risks).
- ◆ Visual mark printed for easy mesh centering.
- ◆ 3D Honeycomb knitted structure for superior tissue integration and patient comfort.

Indications:








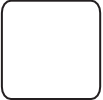
- ◆ Designed for intra-peritoneal placement.
- ◆ Treatment for ventral and umbilical hernias.
- ◆ Adapted to coelioscopy and laparotomy.



Pro-Visc® 3D
Dual-side Mesh (circular)

PRO-VISC® 3D
 Composite Dual-side Mesh for Intra-peritoneal Placement

3D Honeycomb Knitted Mesh

Mesh Shape	Mesh Size	Code	Packaging
	Ø 12 cm (Ø 4.7")	LH3D 1200	1 Unit per Box
	6 x 11 cm (2.3" x 4.3")	LH3D 66	1 Unit per Box
	7.6 x 15 cm (3" x 6")	LH3D 114	1 Unit per Box
	10 x 15 cm (4" x 6")	LH3D 150	1 Unit per Box
	15 x 15 cm (6" x 6")	LH3D 225	1 Unit per Box
	15 x 20 cm (6" x 8")	LH3D 300	1 Unit per Box
	20 x 30 cm (8" x 12")	LH3D 600	1 Unit per Box
	30 x 30 cm (12" x 12")	LH3D 900	1 Unit per Box



EndoTack™

Titanium Tacker

Product Description:

The EndoTack™ Titanium Tacker is a single-use instrument designed for the fixation of prosthetic material (surgical mesh) to soft tissue in laparoscopic and open hernioplasty. The instrument contains titanium alloy helical-shaped tacks which are fastened on firing of the device trigger. The instrument has a shaft diameter of 5 mm and can be used in laparoscopy through a 5 mm or larger trocar. The helical tacks deployed in the device are made of Ti-6Al-4V ELI Titanium alloy, compliant with the requirements of ASTM F136 standard for surgical implants.

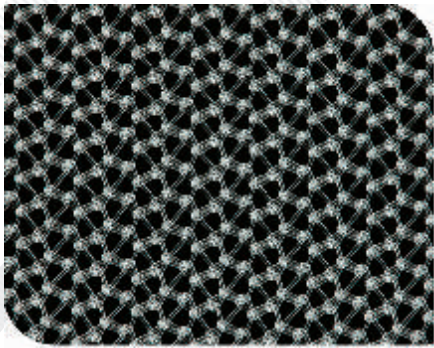
Product Details:

Material	Ti-6Al-4V ELI titanium alloy
Absorption	Non-absorbable
Tack Diameter	4 mm
Tack Height	3.8 mm
Tacker Shaft Diameter	5 mm
Trocar Usage	5 mm trocar or larger
Target Tissue Thickness	Minimum 5 mm
Mesh Usage	4 mm or larger pores
Shelf Life	4 years
Packaging	1 unit per pack

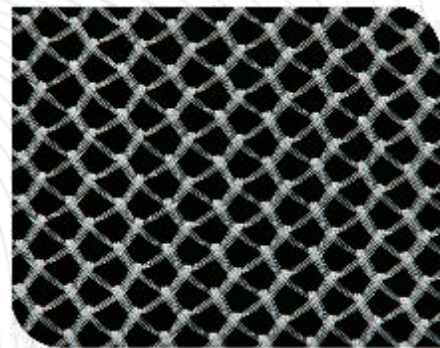
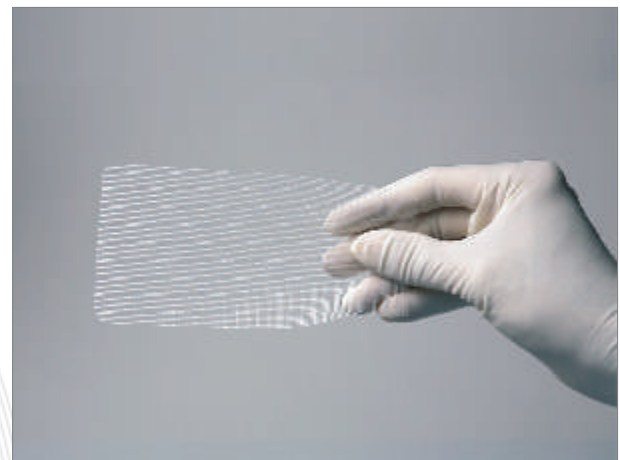
Distinctive Features:

- ◆ Titanium alloy tacks fully compliant with surgical implant standards.
- ◆ Easy and permanent mesh fixation with reliable effects.
- ◆ Precise and convenient tack firing through trigger mechanism.

Code	Shaft Length	Number of Tacks
LETT30L	360 mm	30 Helical Tacks



Prolus® Mesh - Standard
(magnified view)



Prolus® Mesh - Lite
(magnified view)

Prolus® ♦ Prolus® Lite

Polypropylene Meshes for Hernia Repair

Product Details:

Composition	Polypropylene
Construction	Monofilament
Absorption Time	Non-Absorbable
Sterilization	100% Ethylene Oxide

	Prolus® Standard	Prolus® Lite
Mesh Weight	80 g/m ²	45 g/m ²
Mesh Thickness	0.50 mm	0.43 mm
Pore Size	0.5 x 0.7 mm	1.3 x 1.0 mm
Elongation	89%	77%
Maximum Force	25 kgf	19 kgf
Available in Sizes	6 x 11 cm, 7.6 x 15 cm, 10 x 15 cm, 12 x 15 cm, 15 x 15 cm, 15 x 30 cm, 30 x 30 cm	
Shelf Life	5 years	
Packaging	1, 3 and 6 sheets per box	

Distinctive Features:





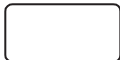
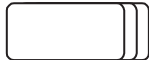






- ◆ Laser cut providing precise shape and preventing edges from fraying.
- ◆ Permeable giving it high capacity for colonization, good tissue ingrowth and integration.
- ◆ Transparent and flexible for easy use in coelioscopy and laparotomy. Fits perfectly against the cavity wall and avoids fragmentation.
- ◆ Excellent multi-directional mechanical properties and exceptional resistance to tearing.
- ◆ No shrinkage providing long term material stability.
- ◆ High strength and burst resistance for permanent support.
- ◆ Good shape memory.

Indications:

- ◆ Abdominal wall reinforcement.
- ◆ Treatment of incisional, inguinal, femoral, umbilical and ventral hernias.
- ◆ Use in both coelioscopy and laparotomy.

PROLUS® Mesh
Polypropylene Meshes for Hernia Repair

PROLUS® STANDARD : PROLUS® LITE

Mesh Shape	Mesh Size	Code	Packaging
	6 x 11 cm (2.3" x 4.3")	LM 66-1	1 Rectangular Sheet per Box
	6 x 11 cm (2.3" x 4.3")	LM 66-3	3 Rectangular Sheets per Box
	6 x 11 cm (2.3" x 4.3")	LM 66-6	6 Rectangular Sheets in a Plastic Box
	6 x 11 cm (2.3" x 4.3")	LM-PS	1 Pre-shaped Mesh per Box
	7.6 x 15 cm (3" x 6")	LM 114-1	1 Rectangular Sheet per Box
	7.6 x 15 cm (3" x 6")	LM 114-3	3 Rectangular Sheets per Box
	7.6 x 15 cm (3" x 6")	LM 114-6	6 Rectangular Sheets in a Plastic Box
	10 x 15 cm (4" x 6")	LM 150-1	1 Rectangular Sheet per Box
	12 x 15 cm (4.6" x 6")	LM 180-1	1 Rectangular Sheet per Box
	15 x 15 cm (6" x 6")	LM 225-1	1 Square Sheet per Box
	15 x 30 cm (6" x 12")	LM 450-1	1 Rectangular Sheet per Box
	30 x 30 cm (12" x 12")	LM 900-1	1 Square Sheet per Box

PROLUS® Mesh
 Polypropylene Meshes for Hernia Repair

HERNIA KIT

Kit Contents	Code	Packaging
1 Kit = Mesh : LM 66-1; Sutures : 1 Foil each of LNW 841, LNW 842, and either LNW 2407-910 or LNW 3326 (M)	HK 66-1	1 Hernia Kit per Box
1 Kit = Mesh : LM 114-1; Sutures : 1 Foil each of LNW 841, LNW 842, and either LNW 2407-910 or LNW 3326 (M)	HK 114-1	1 Hernia Kit per Box



Pro-AB®
Partially Absorbable Mesh

Pro-AB®

Partially Absorbable Light Weight Mesh for Hernia Repair

Product Details:

Composition	Poly (glycolide-co-caprolactone), Polypropylene
Construction	Monofilament
Absorption Time	Partially Absorbable
Sterilization	100% Ethylene Oxide
Shelf Life	5 years
Packaging	1 unit per box

Mesh Size	Code
Ø12 cm (Ø4.7")	LAM 1200
6 x 11 cm (2.3" x 4.3")	LAM 66
7.6 x 15 cm (3" x 6")	LAM 114
10 x 15 cm (4" x 6")	LAM 150
15 x 15 cm (6" x 6")	LAM 225
15 x 20 cm (6" x 8")	LAM 300
20 x 30 cm (8" x 12")	LAM 600
30 x 30 cm (12" x 12")	LAM 900

Distinctive Features:

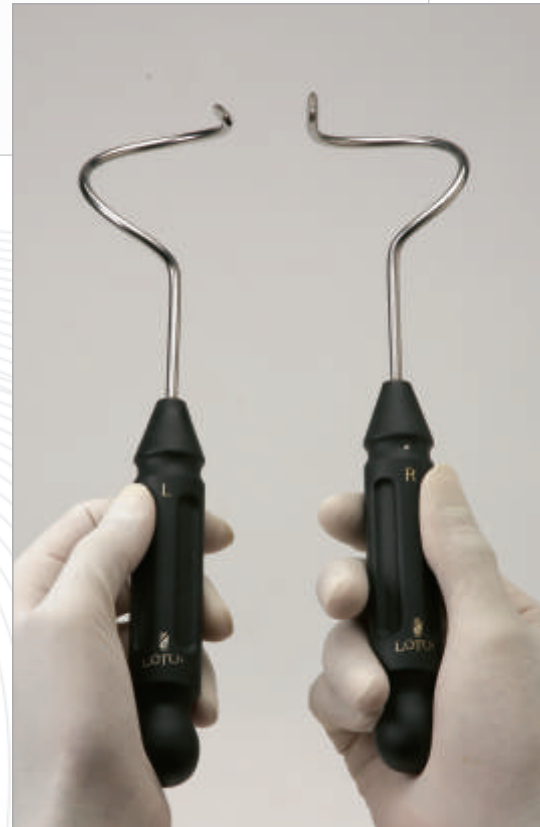
- ◆ Light weight mesh (Polypropylene amount < 30 gms/m²).
- ◆ Excellent handling and better patient comfort.
- ◆ Good initial stiffness during implantation.
- ◆ Excellent burst strength.
- ◆ Good flexibility after absorption.
- ◆ Better tissue integration due to large pores.
- ◆ Blue visible strips aid orientation and placement.
- ◆ Composed from tried and tested materials over a long period of time.

Indications:

- ◆ Treatment of inguinal and ventral hernias.



Freedom®
Trans-Obturator Sling



Freedom®
Trans-Obturator Needles

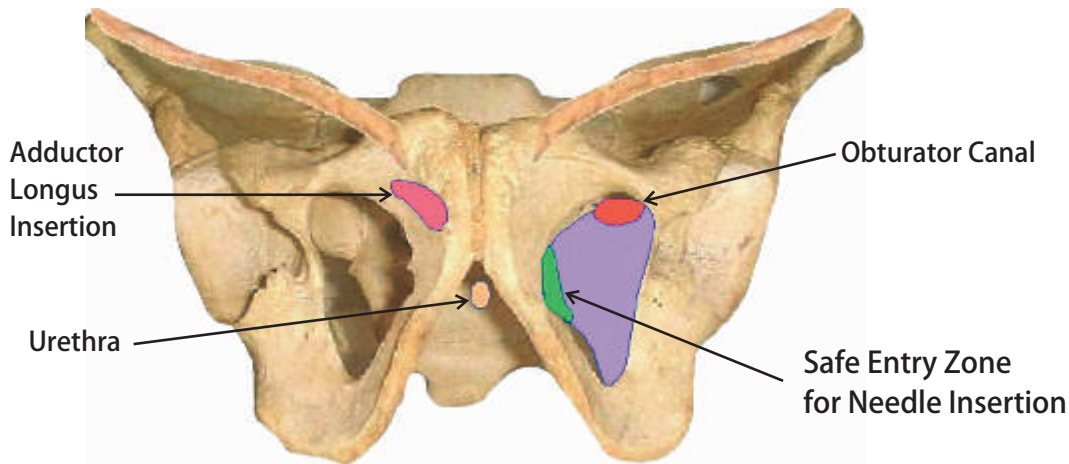
Freedom[®] Trans-Obturator Needles and Sling System

for Female Stress Urinary Incontinence


Product Description:

The Freedom[®] Trans Obturator Sling System is intended for the placement of a sub-urethral mesh for the treatment of female stress urinary incontinence (SUI) resulting from urethral hyper mobility and/or intrinsic sphincter deficiency.

Obturator Anatomy:



Product Details:

Sling:	Monofilament Dia. mm (in)	Typical Pore Size mm (in)	Burst Strength kpa (psi)	Break Strength N/2.5 cm (lbs/in)		Break Elongation (%)		Thick mm (in)	Wt. g/m ² (oz/yd ²)
				MD	CMD	MD	CMD		
	0.15 (.006)	1.3 x 1.0 (.051 x .039)	1172 (162)	526 (118)	492 (111)	107	175	0.59 (.023)	100 (2.9)

Code	Description
F VM-S	Freedom [®] Trans-Obturator Sling System
F RM-NDL	1 Set of Freedom [®] Trans-Obturator Needles with CD
F RM-KIT	Kit of 1 Set Freedom [®] Needles + 3 Freedom [®] Trans-Obturator Sling System + CD



ProLysate®

Handrub and Surgical Handwash

Product Description:

ProLysate® is a combination of Chlorhexidine and Ethanol, engineered to provide instant and cumulative protection against micro-organisms residing on intact skin surfaces. ProLysate® works by disrupting the microbe's cell membrane, thereby causing cell lysis and killing the organism.

Product Details:

ProLysate® Handrub

Chlorhexidine/Alcohol Skin Antiseptic

Chlorhexidine Gluconate Solution IP 2.5% v/v
(equivalent to 0.5% w/v Chlorhexidine Gluconate)

Ethanol IP (Absolute Alcohol) 70% v/v

Emollient and Moisturiser

Colour: Carmosine

ProLysate® Surgical Handwash

Chlorhexidine Skin Antiseptic

Chlorhexidine Gluconate Solution IP 20% v/v
(equivalent to 4% w/v Chlorhexidine Gluconate)

Non-ionic detergent base q.s.

Emollient and Moisturiser

Colour: Carmosine

Distinctive Features:

- ◆ Instant and cumulative protection against microbes.
- ◆ Well balanced formulation containing emollients and moisturisers.
- ◆ Extremely skin friendly and non-irritating.

Indications:

ProLysate® Handrub has application for instant hand antisepsis and skin antisepsis.

ProLysate® Surgical Handwash has application for antimicrobial hand washing, surgical hand washing and body wash.

Code	Description	Packaging
PHR 100	ProLysate® Handrub	100 ml.
PHR 500	ProLysate® Handrub	500 ml.
PHW 100	ProLysate® Surgical Handwash	100 ml.
PHW 500	ProLysate® Surgical Handwash	500 ml.





MISCELLANEOUS PRODUCTS

Miscellaneous Medical Products for Various Surgical Procedures:

LOTUS® UMBILICAL COTTON TAPE

Lotus® Sterile Umbilical Cotton Tape is available in pre-cut lengths to tie off the umbilical stump during the catheterization process. It is also used to tie off the umbilical cords of newborn infants. The Umbilical Cotton Tape also finds application in a wide range of procedures, as well as for a variety of veterinary purposes.

Product Details:

Composition	White Woven Cotton
Sterilization	100% Ethylene Oxide
Shelf Life	5 years
Packaging	12 pouches packed in a mono carton

Code	Size	Quantity per Pack	Quantity per Box
LW 276	3 mm x 75 cm Cotton Tape	1 length	12 Foils
LW 276 A	3 mm x 25 cm Cotton Tape	3 lengths	12 Foils

LOTUS® TEMPORARY CARDIAC PACING WIRE

Lotus® Temporary Cardiac Pacing Wire is a sterile single use product that provides a conductive connection between an external pacemaker and the myocardium. It is used for treating post-operative cardiac arrhythmia of heart surgery.

Product Details:

Composition	Sheathed Multi-filament Steel Wire with Needles
Sterilization	100% Ethylene Oxide
Shelf Life	5 years
Packaging	12 pouches packed in a mono carton

Code	Needle Description	Wire Type	Quantity per Pack	Quantity per Box
LFEP 13	18 mm ½ Circle Taper Cut and 63 mm Straight Cutting Edge, Breakaway Needle	Electrode Blue 60 cm Pacing Wire	1	12 Foils
LFEP 15	26 mm ½ Circle Taper Cut and 63 mm Straight Cutting Edge, Breakaway Needle	Electrode Blue 60 cm Pacing Wire	1	12 Foils

LOTUS® BONE WAX

Lotus® Bone Wax is a sterile mixture of beeswax and isopropyl palmitate, a wax-softening agent, used to help control bleeding from bone surfaces.

Product Details:

Composition	Bees Wax I.P., Iso Propyl Palmitate U.S.P.
Colour	Opaque
Odour	Waxy Odour
Sterilization	Sterilized by Gamma Radiation
Shelf Life	5 years
Packaging	12 pouches packed in a mono carton

Distinctive Features:

- ◆ Helps local haemostasis by functioning like a mechanical barrier.
- ◆ Bio-chemically inert and minimally resorbable.
- ◆ Compatible with body tissues, does not induce skin irritation or any allergic reactions.

Code	Contents per Pack	Quantity per Pack	Quantity per Box
LW 810	2.5 grams	1	12 Foils

LOTUS® PLEDGETS

Lotus® Pledgets are sterile single use products, pre-cut rectangular and square-shaped, for use where the surgeon may consider it advantageous to buffer the suture line.

Product Details:

Composition	PTFE (Polytetrafluoroethylene)
Sterilization	100% Ethylene Oxide
Shelf Life	5 years
Packaging	6 pledgets per pouch; 10 pouches per mono carton

Code	Pledget Size	Quantity per Pouch	Quantity per Box
LCP 10	3 mm x 3 mm x 1.5 mm	6 sterile pledgets per foil	10 foils per box
LCP 10-T	3 mm x 3 mm x 0.5 mm	6 sterile pledgets per foil	10 foils per box
LCP 20	6 mm x 3 mm x 1.5 mm	6 sterile pledgets per foil	10 foils per box

LOTUS[®] SURGICAL KITS

Ready Kits for Specific Surgical Procedures:

Lotus[®] Surgical Kits are ready combinations of sutures (and meshes, where required), to be utilized for specific surgical procedures. Each kit is configured for single patient use.

HERNIA KIT

Kit Contents	Code	Packaging
1 Kit = Mesh : LM 66-1; Sutures : 1 Foil each of LNW 841, LNW 842, and either LNW 2407-910 or LNW 3326 (M)	HK 66-1	1 Hernia Kit per Box
1 Kit = Mesh : LM 114-1; Sutures : 1 Foil each of LNW 841, LNW 842, and either LNW 2407-910 or LNW 3326 (M)	HK 114-1	1 Hernia Kit per Box

C-SECTION KIT

Kit Contents	Code	Packaging
1 Kit = Sutures : 1 Foil each of LNW 2364-910, LNW 2518-910, LNW 3326 (M)	LCS KIT	4 Kits per Box

ABDOMINAL HYSTERECTOMY KIT

Kit Contents	Code	Packaging
1 Kit = Sutures : 3 Foils of LNW 2364-910, and 1 Foil of LNW 3326 (M)	LAH KIT	4 Kits per Box

Lotus[®] Surgical Kits can also be customised to suit individual doctor requirements.





LOTUS



Lotus Surgicals Pvt. Ltd.

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ISO 9001:2008



EN ISO 13485:2012