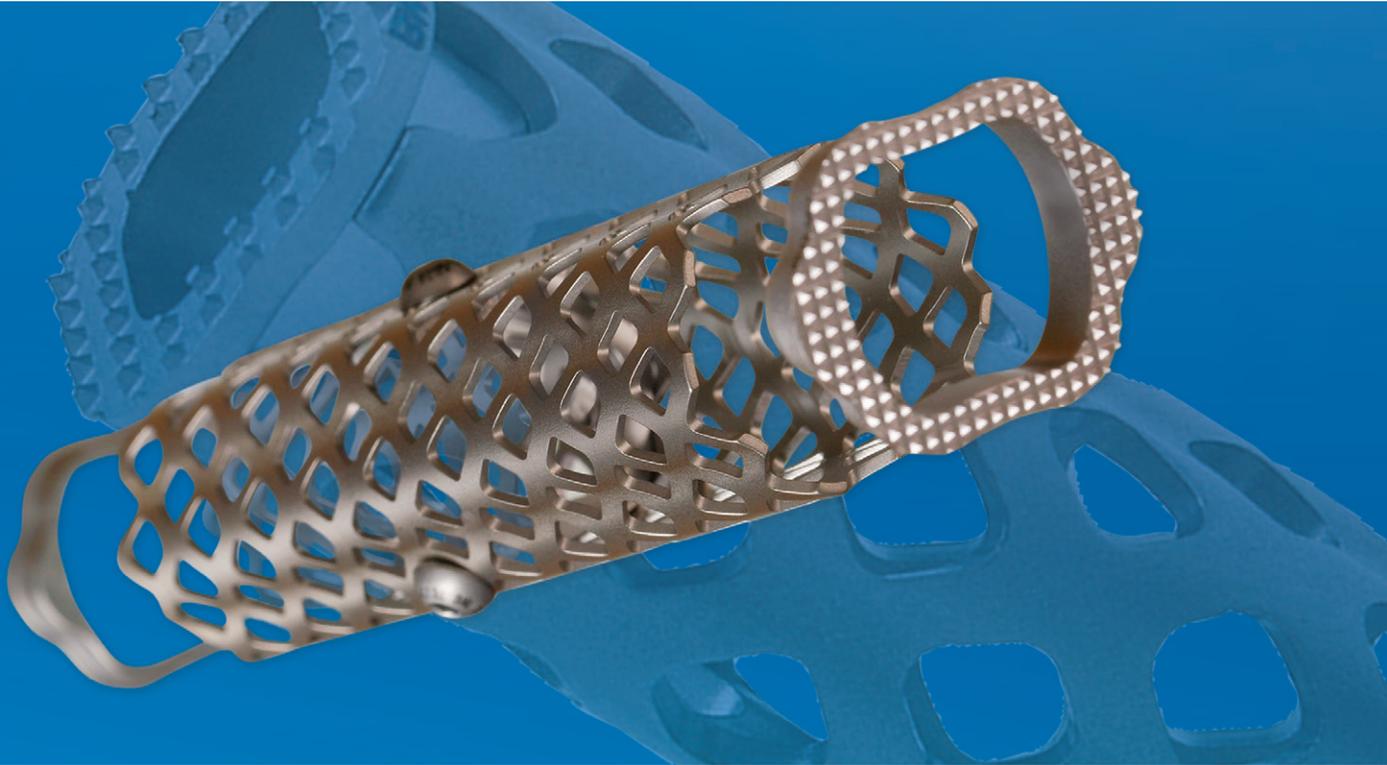


NGage[®]

Surgical Mesh System



NGage[®] **Surgical Mesh System**

OPERATIVE TECHNIQUE

- 1 INTRODUCTION**
- 2 SIZING CHART**
- 6 SURGICAL TECHNIQUE**
- 8 PARTS**
- 9 INSTRUMENTS**
- 10 IMPLANTS AND INSTRUMENTS**

The surgical technique shown is for illustrative purposes only. The technique(s) actually employed in each case will always depend upon the medical judgment of the surgeon exercised before and during surgery as to the best mode of treatment for each patient. Please see Instructions for Use for the complete list of indications, warnings, precautions, and other important medical information.

INTRODUCTION

Key Features

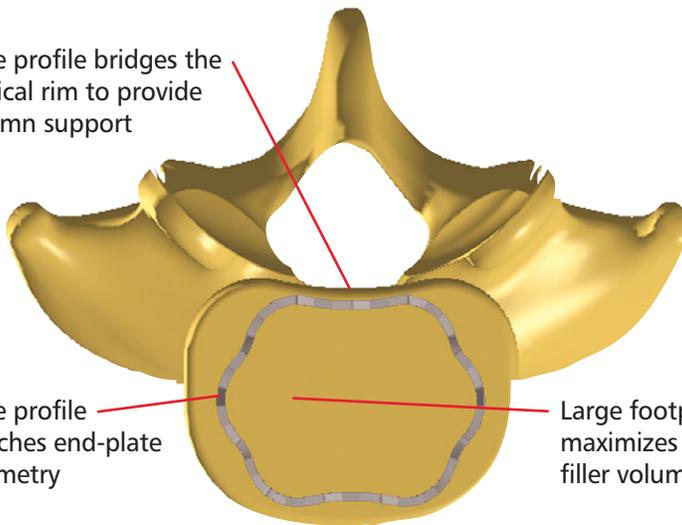
- Mesh body made of 1 mm thick commercially pure titanium
- End caps and standard rings made of titanium alloy
- Diamond shape cutouts guide the trimming process
- Spiked end caps NGage end plates
- End caps in 0, 2.5 and 5 degree configurations



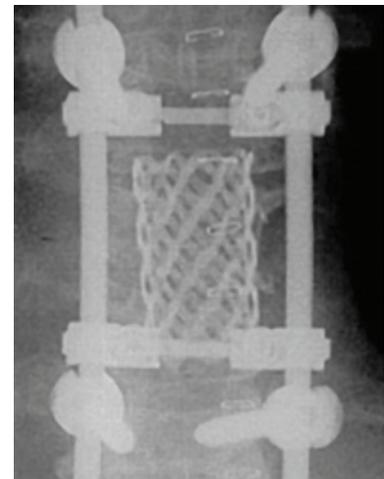
Lobe profile bridges the cortical rim to provide column support

Lobe profile matches end-plate geometry

Large footprint maximizes bone filler volume



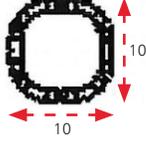
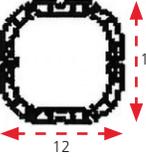
Profile of 6-Lobe NGage Surgical Mesh



6-Lobe NGage Surgical Mesh at T8 -T9.

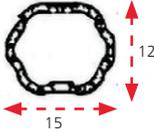
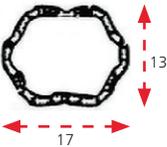
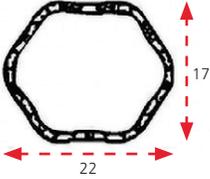
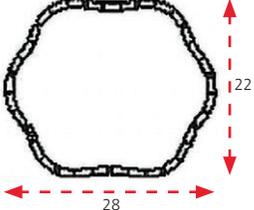
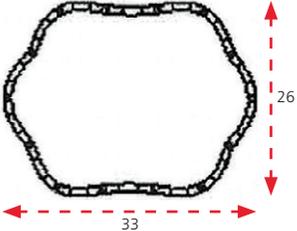
NGage[®]
Surgical Mesh System

4-Lobe NGage Surgical Mesh Sizing Chart

Size	Mesh Length (no end caps)	Mesh Length (two 0 deg. end caps)	Mesh Length (0 deg. + 2.5 deg. end caps)	Mesh Length (two 2.5 deg. end caps)
10mm x 10mm 	7mm 10mm 15mm 30mm	10mm 13mm 18mm 33mm	10.5mm 13.5mm 18.5mm 33.5mm	11mm 14mm 19mm 34mm
12mm x 12mm 	8mm 10mm 12mm 16mm 30mm	11mm 13mm 15mm 19mm 33mm	11.5mm 13.5mm 15.5mm 19.5mm 33.5mm	12mm 14mm 16mm 20mm 34mm
14mm x 14mm 	9mm 13mm 15mm 17mm 30mm 50mm	12mm 16mm 18mm 20mm 33mm 53mm	12.5mm 16.5mm 18.5mm 20.5mm 33.5mm 53.5mm	13mm 17mm 19mm 21mm 34mm 54mm
16mm x 16mm 	10mm 15mm 50mm 70mm	13mm 18mm 53mm 73mm	13.5mm 18.5mm 53.5mm 73.5mm	14mm 19mm 54mm 74mm

End Caps – 0 degree and 2.5 degree
 Each 0 degree end cap adds 1.5 mm in length
 Each 2.5 degree end cap adds in length
 Mesh wall thickness = 1mm

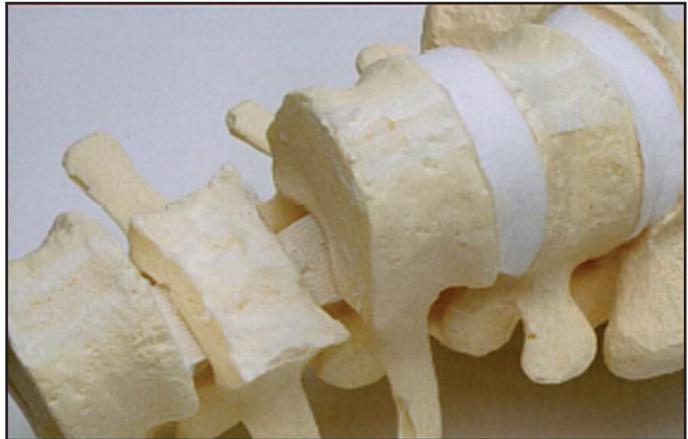
6-Lobe NGage Surgical Mesh Sizing Chart

Size	Mesh Length (no end caps)	Mesh Length (two 0 deg. end caps)	Mesh Length (0 deg. + 5 deg. end caps)	Mesh Length (two 5 deg. end caps)
<p>12mm x 15mm</p> 	8mm 12mm 13mm 16mm 17mm	11mm 15mm 16mm 19mm 20mm	12mm 16mm 17mm 20mm 21mm	13mm 17mm 18mm 21mm 22mm
<p>13mm x 17mm</p> 	9mm 10mm 13mm 15mm 20mm	12mm 13mm 16mm 18mm 23mm	31mm 14mm 17mm 19mm 24mm	14mm 15mm 18mm 20mm 25mm
<p>17mm x 22mm</p> 	10mm 15mm 70mm 90mm	13mm 18mm 73mm 93mm	14.5mm 19.5mm 74.5mm 94.5mm	16mm 21mm 76mm 96mm
<p>22mm x 28mm</p> 	10mm 15mm 70mm 90mm	13mm 18mm 73mm 93mm	15mm 20mm 75mm 95mm	17mm 22mm 77mm 97mm
<p>26mm x 33mm</p> 	10mm 15mm 70mm 90mm	13mm 18mm 73mm 93mm	15.5mm 20.5mm 75.5mm 95.5mm	18mm 23mm 78mm 98mm

End Caps – 0 degree and 5 degree
 Each 0 degree end cap adds 1.5 mm in length
 Each 5 degree end cap varies in length. For sizes, see chart
 Mesh wall thickness = 1mm

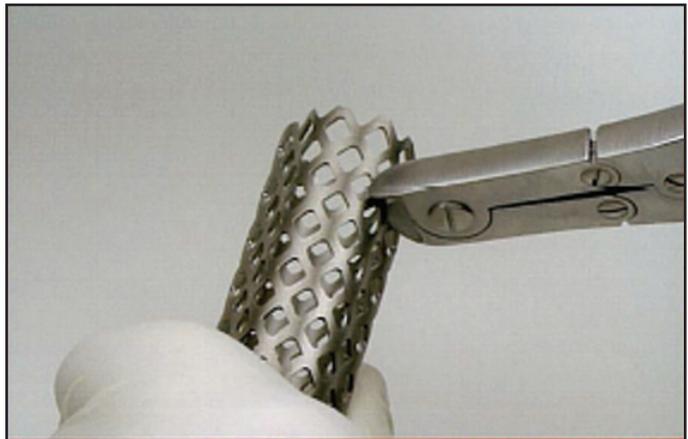
1. Site Preparation

Resect the affected vertebral bodies and adjacent disc material. Roughen the end plates using the rasp. With the caliper determine the desired mesh construct length.



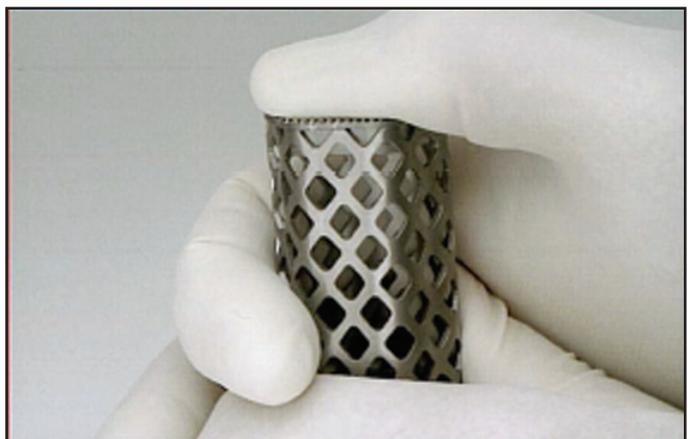
2. Mesh Sizing

Trim the mesh body taking into account additional length for each end cap used. The total length of the mesh construct can be determined using the sizing charts on pages 4 and 5.



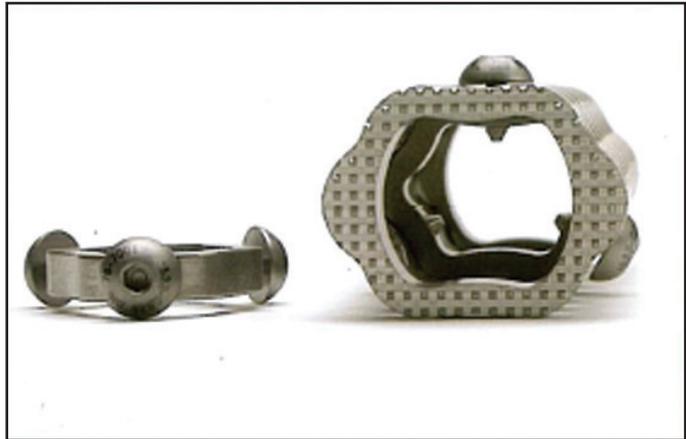
3. Mesh Assembly

After the mesh body has been cut to the desired length the ends can be further formed using the bending pliers. This will facilitate assembly of the end caps to the mesh body. Pack the mesh body with graft material and assemble the end caps in place using finger pressure or a mallet.



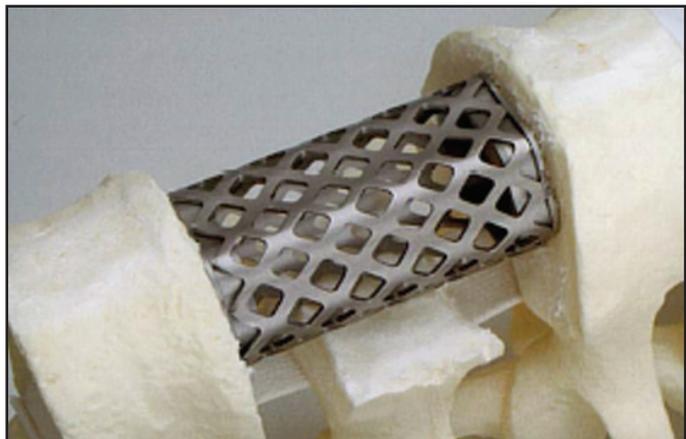
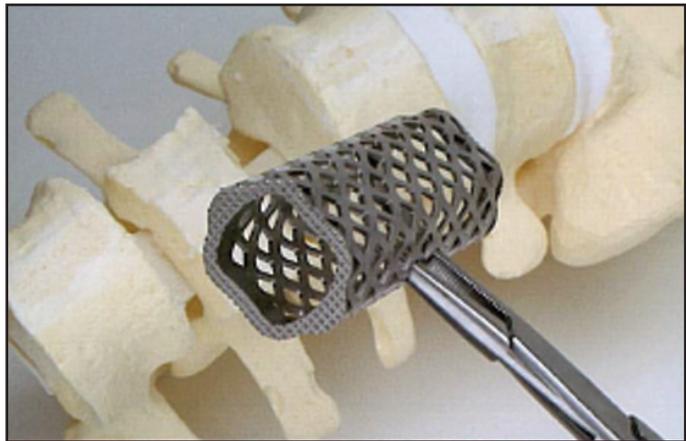
3. 6-Lobe Mesh Assembly

For longer constructs it may be necessary to pre-assemble a standard ring to the inner center of the mesh body. Secure each of the standard ring screws to the body and pack with graft material. Finally, assemble the end caps.



4. Mesh Insertion

The construct is positioned using a mesh holder and is inserted using an impactor. Graft material is implanted around the mesh construct to complete the procedure.



NGage Surgical Mesh Implants

4 Lobe

Catalog No.	Description
10mm x 10mm	
74-1007	Surgical Mesh, 4 lobe, 7 mm height
74-1010	Surgical Mesh, 4 lobe, 10 mm height
74-1015	Surgical Mesh, 4 lobe, 15 mm height
74-1030	Surgical Mesh, 4 lobe, 30 mm height
74-5010	End Caps, 0 degree, 10mm
74-6010	End Caps, 2.5 degree, 10 mm
12mm x 12mm	
74-1208	Surgical Mesh, 4 lobe, 8 mm height
74-1210	Surgical Mesh, 4 lobe, 10 mm height
74-1212	Surgical Mesh, 4 lobe, 12 mm height
74-1216	Surgical Mesh, 4 lobe, 16 mm height
74-1230	Surgical Mesh, 4 lobe, 30 mm height
74-5012	End Caps, 0 degree, 12 mm
74-6012	End Caps, 2.5 degree, 12mm
14mm x 14mm	
74-1409	Surgical Mesh, 4 lobe, 9 mm height
74-1413	Surgical Mesh, 4 lobe, 13 mm height
74-1415	Surgical Mesh, 4 lobe, 15 mm height
74-1417	Surgical Mesh, 4 lobe, 17 mm height
74-1430	Surgical Mesh, 4 lobe, 30 mm height
74-1450	Surgical Mesh, 4 lobe, 50 mm height
74-5014	End Caps, 0 degree, 14 mm
74-6014	End Caps, 2.5 degree, 14 mm
16mm x 16mm	
74-1610	Surgical Mesh, 4 lobe, 10 mm height
74-1615	Surgical Mesh, 4 lobe, 15 mm height
74-1650	Surgical Mesh, 4 lobe, 50 mm height
74-1670	Surgical Mesh, 4 lobe, 70 mm height
74-5016	End Caps, 0 degree, 16 mm
74-6016	End Caps, 2.5 degree, 16 mm

6 Lobe

Catalog No.	Description
12mm x 15mm	
76-1208	Surgical Mesh, 6 lobe, 8 mm height
76-1212	Surgical Mesh, 6 lobe, 12 mm height
76-1213	Surgical Mesh, 6 lobe, 13 mm height
76-1216	Surgical Mesh, 6 lobe, 16 mm height
76-1217	Surgical Mesh, 6 lobe, 17 mm height
76-5012	End Caps, 0 degree
76-6012	End Caps, 5 degrees
76-7012	Standard Ring
13mm x 17mm	
76-1309	Surgical Mesh, 6 lobe, 9 mm height
76-1310	Surgical Mesh, 6 lobe, 10 mm height
76-1313	Surgical Mesh, 6 lobe, 13 mm height
76-1315	Surgical Mesh, 6 lobe, 15 mm height
76-1320	Surgical Mesh, 6 lobe, 20, mm height
76-5013	End Caps, 0 Degree
76-6013	End Caps, 5 Degrees
76-7013	Standard Ring
17mm x 22mm	
76-1710	Surgical Mesh, 6 lobe, 10 mm height
76-1715	Surgical Mesh, 6 lobe, 15 mm height
76-1770	Surgical Mesh, 6 lobe, 70 mm height
76-1790	Surgical Mesh, 6 lobe, 90 mm height
76-5017	End Caps, 0 degree
76-6017	End Caps, 5 degrees
76-7017	Standard Ring
22mm x 28mm	
76-2210	Surgical Mesh, 6 lobe, 10 mm height
76-2215	Surgical Mesh, 6 lobe, 15 mm height
76-2270	Surgical Mesh, 6 lobe, 70 mm height
76-2290	Surgical Mesh, 6 lobe, 90 mm height
76-5022	End Caps, 0 degree
76-6022	End Caps, 5 degrees
76-7022	Standard Ring
26mm x 33mm	
76-2610	Surgical Mesh, 6 lobe, 10 mm height
76-2615	Surgical Mesh, 6 lobe, 15 mm height
76-2670	Surgical Mesh, 6 lobe, 70 mm height
76-2690	Surgical Mesh, 6 lobe, 90 mm height
76-5026	End Caps, 0 degree
76-6026	End Caps, 5 degrees
76-7026	Standard Ring
76-7001	Standard Ring Screw

NGage Surgical Mesh Instrumentation



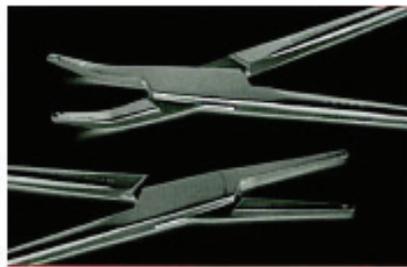
Trimmers



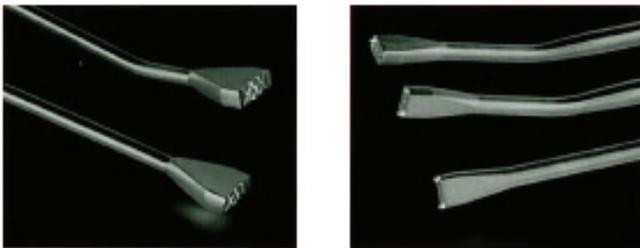
Vertebral Body Distractor



Rasp



Holders



Impactors

NGage Surgical Mesh Implants



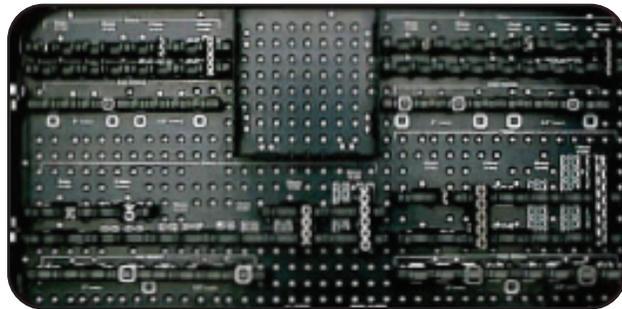
Middle Tray

Catalog No.	Description
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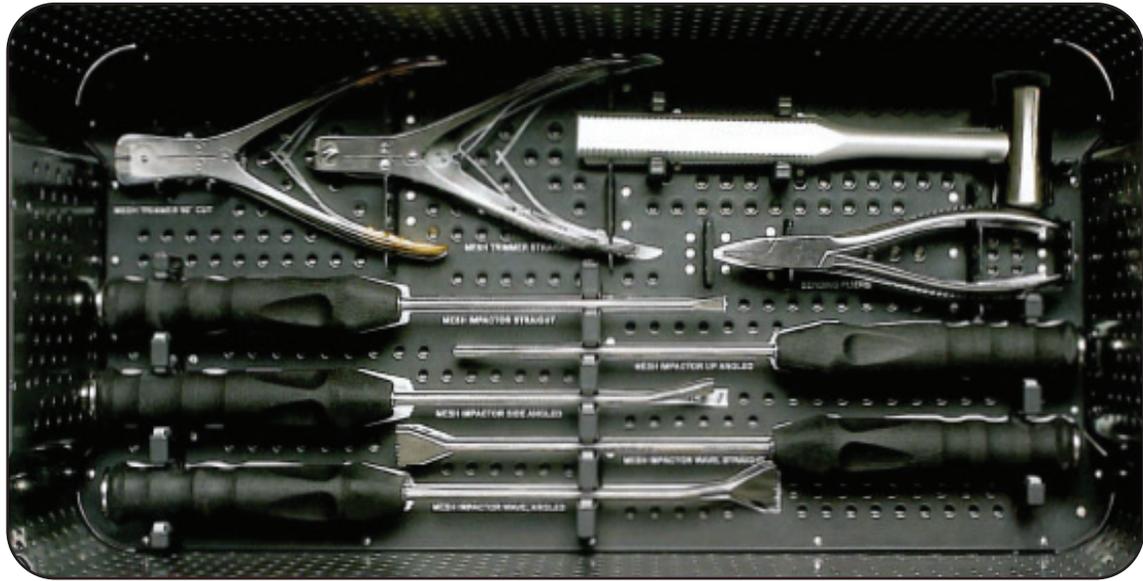
Middle Tray	
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74-0040	Mini Hex Driver
74-0060	Distractor
74-0061	Distractor Jaws, right, 5-63mm
74-0062	Distractor Jaws, left, 5-63mm
74-0063	Distractor Jaws, right, 60-98mm
74-0064	Distractor Jaws, left, 60-98mm
74-0010	Mesh Holder, Straight Small
74-0012	Mesh Holder, Angled Small
74-0014	Mesh Holder, Straight Large
74-0016	Mesh Holder, Angled Large
74-0070	Caliper
74-0055	Rasp

4 Lobe Implant Tray	
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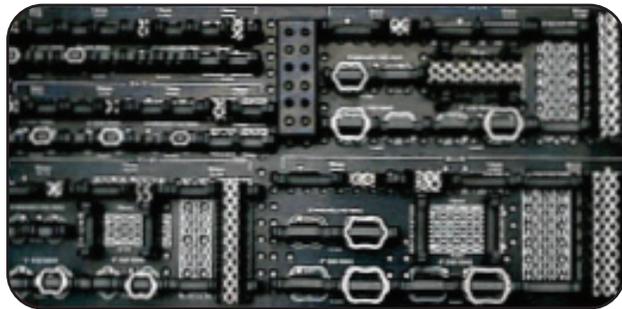
NGage Surgical Mesh Instruments



Bottom Tray

Catalog No.	Description
Bottom Tray	
74-0020	Mesh Trimmer, Straight
74-0022	Mesh Trimmer, 90 Degree Cut
74-0030	Mesh Impactor, Straight
74-0032	Mesh Impactor, Up Angled Mesh
74-0034	Impactor, Side Angled Mesh
74-0036	Impactor, Wave, Straight Mesh
74-0038	Impactor, Wave, Angled Bending
74-0045	Pliers
74-0050	Mallet

6 Lobe Implant Tray



Please visit [Orthofix.com/IFU](https://www.orthofix.com/IFU) for full information on indications for use, contraindications, warnings, precautions, adverse reactions and sterilization.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician. Proper surgical procedure is the responsibility of the medical professional. Operative techniques are furnished as an informative guideline. Each surgeon must evaluate the appropriateness of a technique based on his or her personal medical credentials and experience.



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