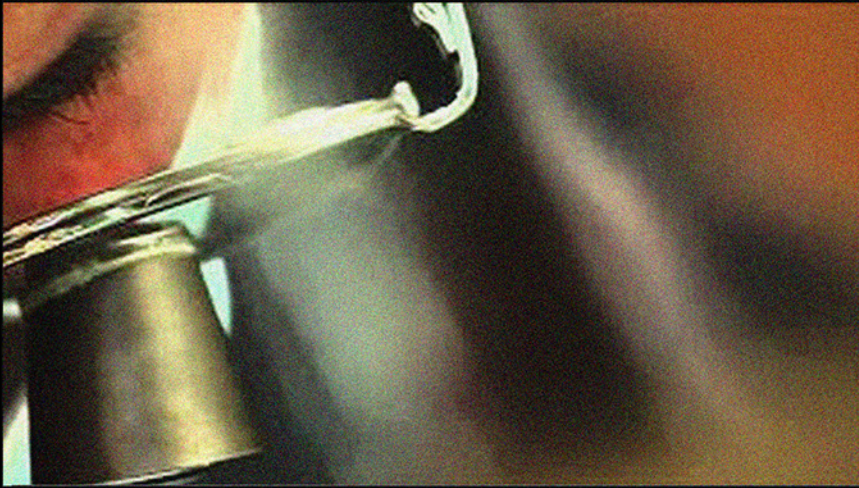




# **MICRO SURGERY**

*instruments*

**Le Bord**



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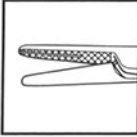
**Ph: +92-52-3553747 Fax: +92-52-3552417**

**info@lebord.com  
www.lebord.com**

# Needle Holders

## Paton Needle Holder

**LBO-101**



Heavy 11mm serrated jaws with lengthwise groove. Flat serrated handle  
Overall length 119mm, 4.7 inches.



## Catalano Needle Holder-Curved with Lock

**LBO-102**



Fine 9mm moderately curved jaws with flattened bottom. Large round knurled handle with lock. Overall length 135mm, 5.3 inches.



## Castroviejo Needle Holder-Curved

**LBO-103**  
**LBO-104**



Medium 11mm gently curved jaws. Flat serrated handle. Overall length 137mm, 5.4 inches.

**LBO-103** with Lock  
**LBO-104** without Lock

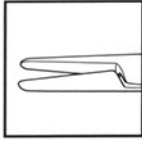


# Needle Holders



## Castroviejo Needle Holder-Straight with Lock

**LBO-105**



Heavy 12mm straight jaws. Flat serrated handle with lock.  
Overall length 138mm, 5.4 inches.

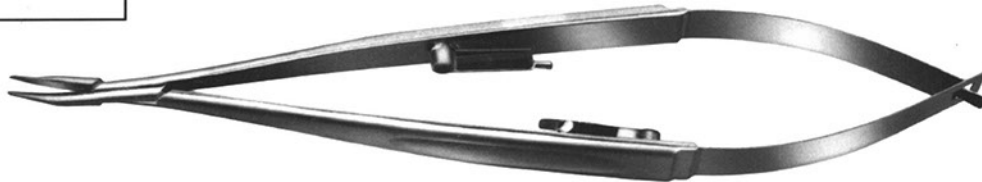


## Azar Needle Holder-Curved with Lock

**LBO-106**

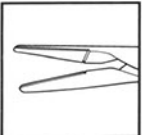


Fine 11mm gently curved jaws. Flat scalloped handle with lock.  
Overall length 136mm, 5.4 inches.



## Castroviejo Needle Holder-Straight with Lock

**LBO-107**

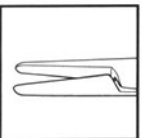


Medium 9mm tungsten carbide inlaid straight jaws. Flat serrated handle with lock. Overall length 148mm, 5.8 inches.

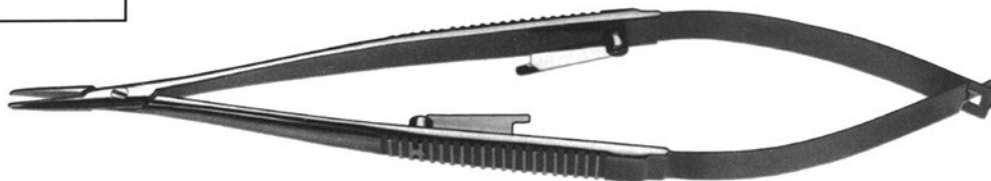


## Castroviejo Needle Holder-Straight with Lock

**LBO-108**



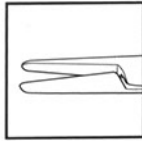
Medium 10mm straight jaws. Flat serrated handle with lock.  
Overall length 136mm, 5.4 inches.



# Needle Holders

## Castroviejo Needle Holder-Straight with Lock

**LBO-109**

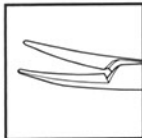


Fine 9mm straight jaws. Wide serrated handle with lock. Overall length 140mm, 5.5 inches.

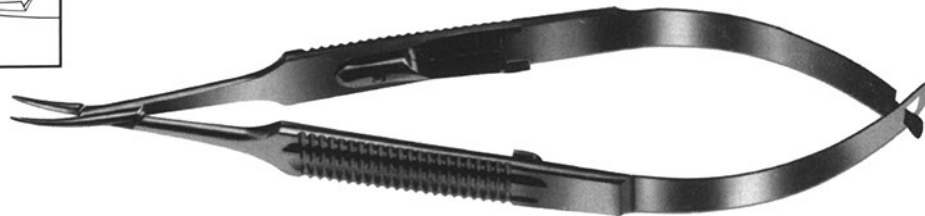


## Castroviejo Needle Holder-Curved with Lock

**LBO-110**

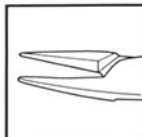


Fine 9mm curved jaws. Wide serrated handle with lock. Overall length 130mm, 5.1 inches.



## O' Gawa Needle Holder-without Lock Straight

**LBO-111**

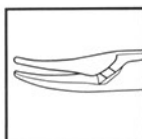


Delicate 8mm jaws. with well rounded edges to prevent cutting suture. Overall length 130mm, 5.1 inches.



## Needle Holder-Curved

**LBO-112**  
**LBO-113**



Delicate 6mm moderately curved jaws. Small round knurled handle. Overall length 128mm, 5.0 inches.

<b>LBO-112</b>	Without Lock
<b>LBO-113</b>	With Lock



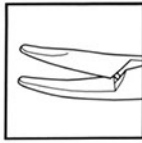


# Needle Holders



## Troutman Needle Holder-Curved

**LBO-114**  
**LBO-115**



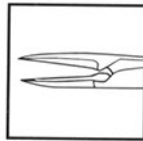
Medium 10mm gently curved jaws. Medium round "horizontally" serrated handle. Overall length 122mm, 4.8 inches.

<b>LBO-114</b>	Without Lock
<b>LBO-115</b>	With Lock



## Sinskey Needle Holder-Straight with Lock

**LBO-116**

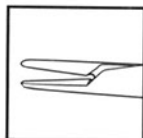


Delicate 7mm jaws. Smooth flat handle with lock. Overall length 111mm, 4.4 inches.



## Castroviejo Needle Holder

**LBO-117**



Straight 9mm medium jaws. Round knurled handle with lock. Overall length 134mm, 5.3 inches.

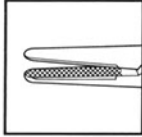


# Needle Holders



## Kalt Needle Holder

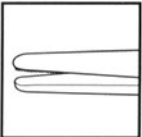
**LBO-118**



Heavy 12mm straight serrated jaws with tungsten carbide inserts. Flat serrated locking handle. Overall length 141mm, 5.6 inches.

## Kalt Needle Holder

**LBO-119**



Heavy 12mm straight jaws with edges of top jaw serrated. Flat serrated locking handle. Overall length 141mm, 5.6 inches.

## Kalt Needle Holder-Original Size Jaw

**LBO-120**



Medium 10mm straight serrated jaws. Flat serrated Locking handle. Overall length 141mm, 5.6 inches.

## Kalt Needle Holder

**LBO-121**



Medium 10mm straight serrated jaws with jaws 20% finer than original model. Flat serrated Locking handle. Overall length 137mm, 5.4 inches.

# Scissors



## Fine Straight Stitch Scissors

**LBO-122**



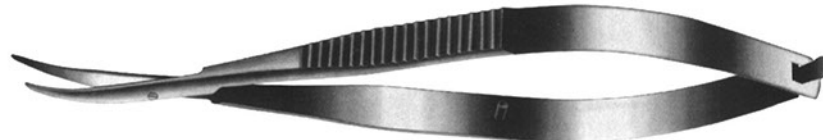
Sharp pointed tips. 16mm from mid-screw to tip. Wide serrated handle  
Overall length 132mm, 5.2 inches.

## Westcott Curved Tenotomy Scissors

**LBO-123**



**LBO-124**

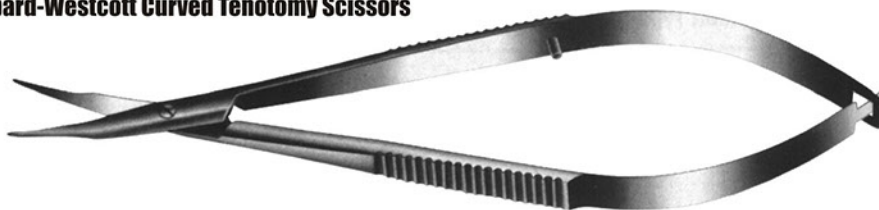


Rounded Westcott blades with blunt tips. 19mm from mid-screw to tip.  
Flat serrated handle. Overall length 115mm, 4.5 inches.

<b>LBO-123</b>	Right
<b>LBO-124</b>	Left

## Shepard-Westcott Curved Tenotomy Scissors

**LBO-125**



Right model. Westcott blades with blunt tips. Upper blade serrated. 21mm from mid-screw to tip.  
Flat serrated handle . Overall length 123mm, 4.8 inches.

## Fine Straight Stitch Scissors

**LBO-126**

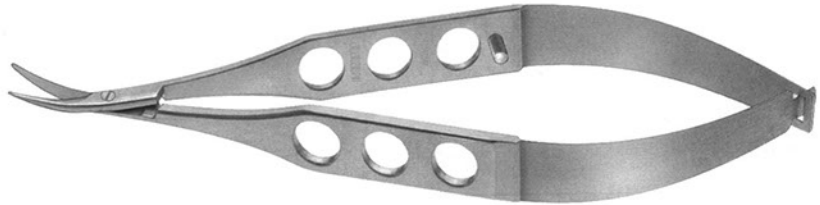


Sharp pointed tips. 17mm from mid-screw to tip. Flat serrated handle  
Overall length 112mm, 4.4 inches.

## LBO-127

### Castroviejo

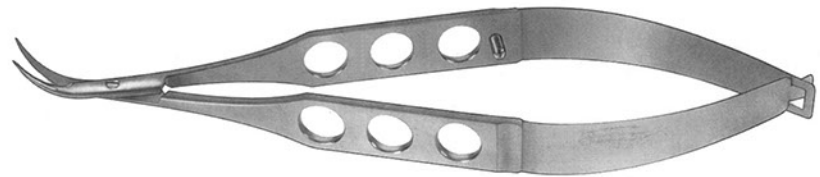
Universal Corneal Scissors  
curved blunt tips, large blades



## LBO-128

### Castroviejo

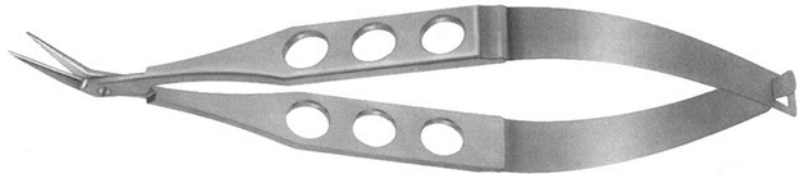
Universal Corneal Scissors  
strongly curved blunt tips, large blades



## LBO-129

### Castroviejo

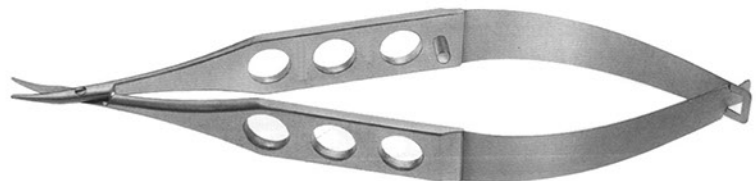
Keratoplasty Scissors angled to side  
blunt tips, medium blades



## LBO-130

### Castroviejo

Conjunctival Scissors curved  
blunt tips, small blades



## LBO-131 DeWecker Iris Scissors



Blunt and sharp points. 12mm from bend to tip. Flat serrated squeeze action handle.  
Overall length 114mm, 2.1 inches.

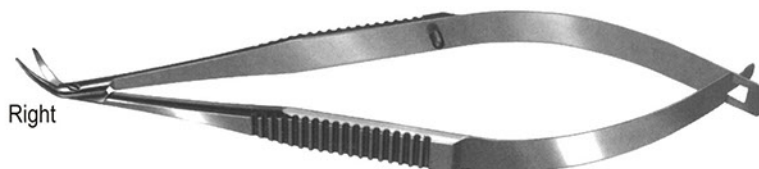


# Scissors

## Miniature Corneal Scissors

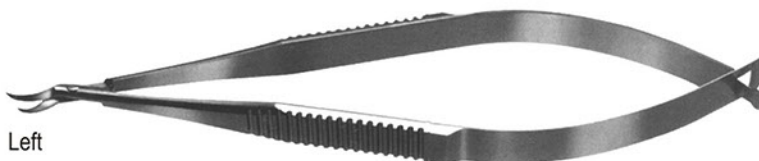
**LBO-132**

Right



**LBO-133**

Left

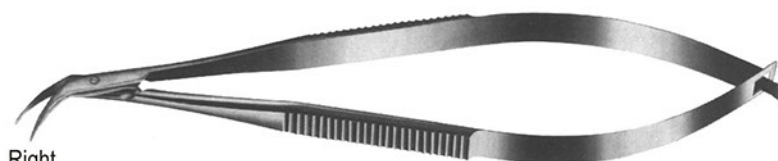


Delicate corneal scissors for use during corneal transplants to complete the corneal trephination. 9mm blades with lower blade extended 0.5mm. Overall length 100mm, 3.9 inches.

## Katzin Curved Corneal Transplant Scissors

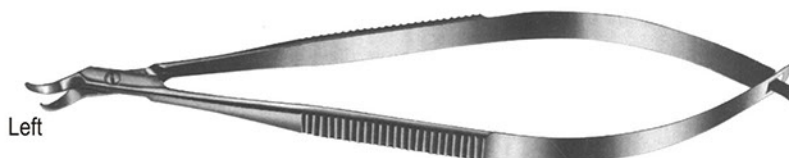
**LBO-134**

Right



**LBO-135**

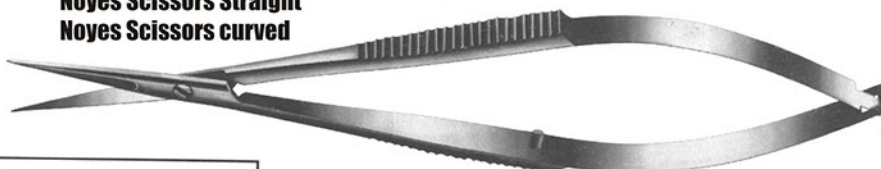
Left



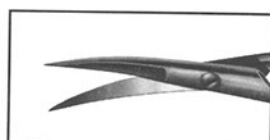
Miniature model with strongly curved blunt blades of uneven lengths. lower blade 12mm, upper blade 11mm (from mid-screw to tip). Flat serrated handle. Overall length 108mm, 4.2 inches.

## Noyes Scissors Straight Noyes Scissors curved

**LBO-136 STR**



**LBO-137 CVD**



Sharp pointed tips. 21mm from mid-screw to tip. Flat serrated handle. Overall length 121mm, 4.8 inches.

## Gills-Welsh Vannas Angled Micro Scissors

**LBO-138**



11mm blades with sharp pointed tips. 13mm from mid-screw to tip. Serrated handle Overall length 86mm, 3.4 inches.

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## Vannas Angled Capsulotomy Scissors

**LBO-139**



6mm blades with sharp pointed tips. 9mm from mid-screw to tip. Serrated handle. Overall length 81mm, 3.3 inches.

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## Capsule Scissors 10mm Angled Blades

**LBO-140**

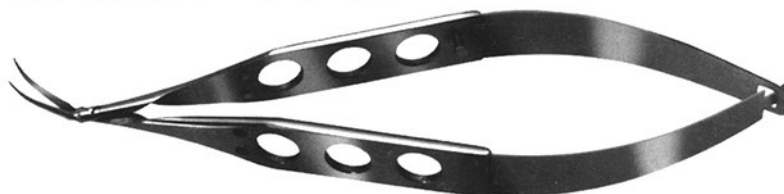


Delicate 10mm blades angled  $45^\circ$  for performing capsulotomies and snipping capsule tags, iris, and other Structures in the anterior chamber. Overall length 110mm, 4.3 inches.

---

## Capsule Scissors 10mm Curved Blades

**LBO-141**

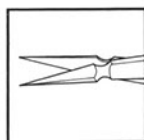


Delicate 10mm blades angled  $45^\circ$ . Blades gently curved to offer exceptional control in the anterior chamber when performing anterior capsulotomies and snipping capsule tags. Overall length 110mm, 4.3 inches.

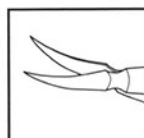
# Scissors

## Vannas Straight Scissors Vannas Curved Scissors

**LBO-142**



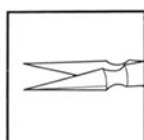
**LBO-143**



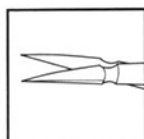
Sharp pointed tips. 7mm from mid-screw to tip. Smooth handle . Overall length 83mm, 3.2 inches.

## Vannas Straight Capsulotomy Scissors Vannas Curved Capsulotomy Scissors

**LBO-144**



**LBO-145**



6mm blades with sharp pointed tips. 8mm from mid-screw to tip. Serrated Overall length 84mm, 3.3 inches.

## Vannas Angled Capsulotomy Scissors

**LBO-146**



6mm blades with sharp pointed tips. 9mm from mid-screw to tip. Serrated handle . Overall length 81mm, 3.1 inches.

## Gills-Welsh Vannas Angled Micro Scissors

**LBO-147**

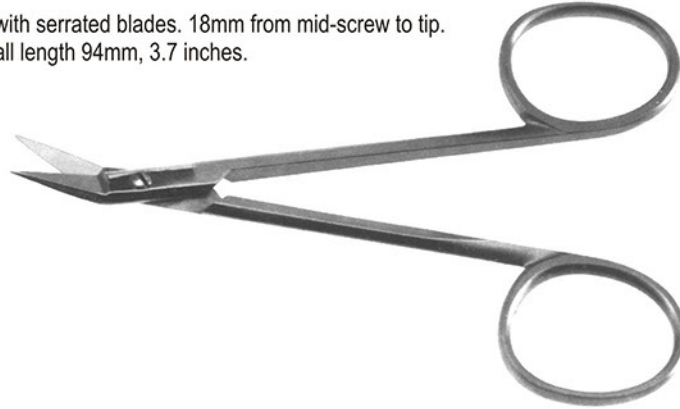


5mm blades with sharp pointed tips. 8mm from mid-screw to tip. Serrated handle . Overall length 80mm, 3.1 inches.

## Wilmer Angled Conjunctival and Utility Scissors

Sharp pointed tips with serrated blades. 18mm from mid-screw to tip. Ring handle. Overall length 94mm, 3.7 inches.

**LBO-148**

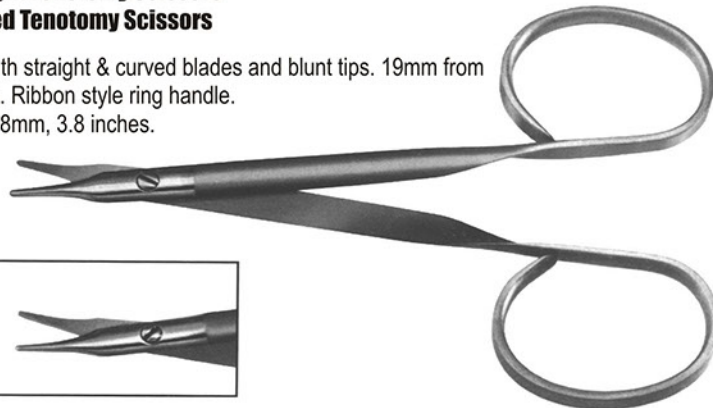
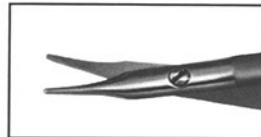


## Stevens Straight Tenotomy Scissors Stevens Curved Tenotomy Scissors

Heavy model with straight & curved blades and blunt tips. 19mm from mid-screw to tip. Ribbon style ring handle. Overall length 98mm, 3.8 inches.

**LBO-149 STR**

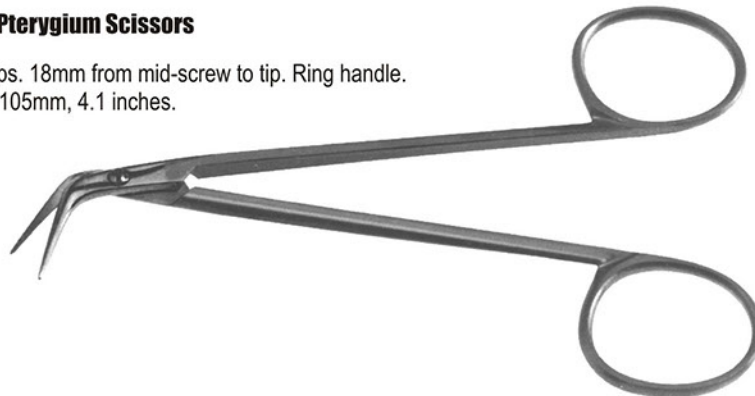
**LBO-150 CVD**



## McReynolds Pterygium Scissors

Blunt angled tips. 18mm from mid-screw to tip. Ring handle. Overall length 105mm, 4.1 inches.

**LBO-151**



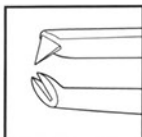


# Forceps



## Elsching Fixation Forceps

**LBO-152**



**LBO-153**



Straight shafts with 2.0mm, 1 x 2 Elschning style teeth.  
Serrated handle . Overall length 109mm, 4.3 inches.

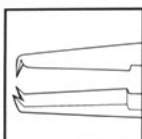
**Wide handle**

**HANDLE**

<b>LBO-152</b>	Narrow
<b>LBO-153</b>	Wide

## Oshre Conjunctival Fixation Forceps

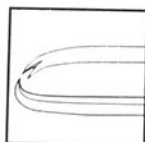
**LBO-154**



Straight shafts with 5.5mm tying platforms and 45 0.3mm teeth. Wide serrated handle  
Overall length 108mm, 4.3 inches.

## Bracken-Farkas Corneal Forceps with Neuman Modification

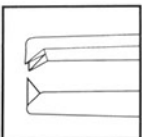
**LBO-155**



Straight shafts with delicate 0.12mm, 1 x 2 teeth. Stabilization pin prevents twisting of tissue.  
Serrated handle . Overall length 107mm, 4.2 inches.

## Iowa State Fixation Forceps

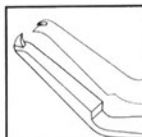
**LBO-156**



Straight shafts with 1 x 2 teeth. Flat handle . Overall length 86mm, 3.4 inches.

## Osher 0.12mm Forceps - 45 Angled Teeth

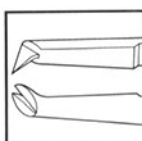
**LBO-157**



The teeth of this forceps permit precise control of the wound lips. 3mm tying platform handles the finest suture material. 0.12mm, 1 x 2 teeth. Overall length 104mm, 4.1 inches.

## Osher 0.12mm Forceps-Elschnig Teeth

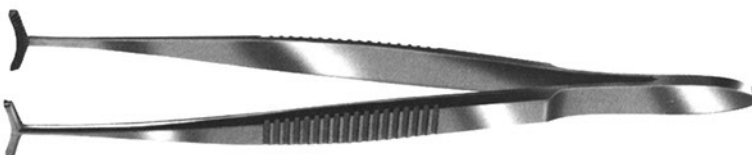
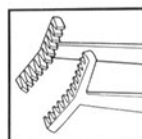
**LBO-158**



The Elschnig teeth of this forceps are ideal for grasping sclera during suturing. Delicate tying platform handle the finest suture material. 0.12mm, 1 x 2 teeth. Overall length 104mm, 4.1 inches.

## Green Fixation Forceps

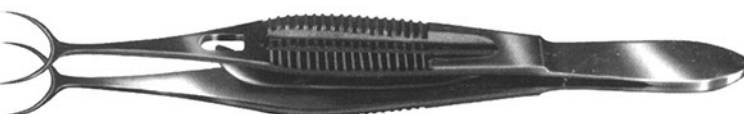
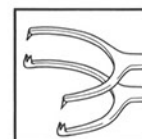
**LBO-159**



Narrow 12mm jaws with fine teeth. Serrated handle  
Overall length 100mm, 3.9 inches.

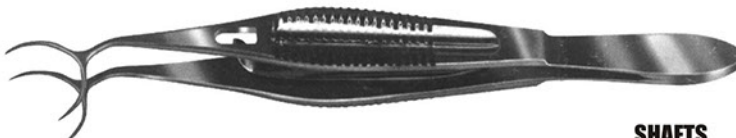
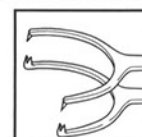
## Kremer Fixation Forceps

**LBO-160**



## Kremer Angled Fixation Forceps

**LBO-161**



Two point fixation, tips separated by 13mm.  
Each tip has 0.12mm, 1 x 2 teeth. Wide serrated handle with thumb catch lock.  
Overall length 105mm, 4.1 inches.

### SHAFTS

**LBO-160** Straight

**LBO-161** Angled

# Forceps



## Snellen Entropion Forceps-Small

**LBO-162**



Left

Solid lower plat with outside width 28mm. Open upper plat. Serrated handle wit locking thumb screw . Overall length 88mm, 3.5 inches.

**LBO-163**



Right

**LBO-162** Left  
**LBO-163** Right

## Wies Chalazion Forcep

**LBO-164**



Solid lower plate with outside width 15mm. Open serrated upper plate with inside dimensions 9mm x 12mm. Flattened top permits placement deep into the fornix. Serrated handle with locking thumb screw. Overall length 94mm, 3.7 inches.

## Demarres Chalazion Forceps

**LBO-165**



Overall solid 16mm wide lower plate. Open upper plate with inside dimensions 12mm x 14mm. Cross action serrated handle . Overall length 96mm, 3.8 inches.

## Demarres Chalazion Forceps

**LBO-166**



Oval solid 24mm wide lower plate. Open upper plate with inside dimensions 12mm x 20mm. Serrated handle with locking thumb screw . Overall length 92mm, 3.6 inches.

## Francis Chalazion Forceps

**LBO-167**



Oval solid 17mm wide lower plate. Open upper plate with dimension 12mm x 14mm. Serrated handle with locking thumb screw . Overall length 97mm, 3.8 inches.

## Heath Chalazion Forceps

**LBO-168**



Oval solid 16mm wide lower plate. Open upper plate with dimension 12mm x 14mm. Serrated handle with locking thumb screw . Overall length 96mm, 3.8 inches.

## Hunt Chalazion Forceps

**LBO-169**



Round solid 15mm wide lower plate. Open upper plate with inside diameter 12mm. Serrated handle with locking thumb screw . Overall length 97mm, 3.8 inches.

## Lambert Chalazion Forceps- Small

**LBO-170**



Round solid 10mm wide lower plate. Open upper plate with inside diameter 8mm. Serrated handle with locking thumb screw . Overall length 92mm, 3.6 inches.

## Baird Chalazion Forceps

**LBO-171**



Oval solid 15mm wide lower plate. Open upper plate with inside dimensions 11mm x 8mm. Serrated handle with locking thumb screw . Overall length 97mm, 3.8 inches.

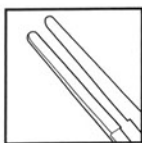


# Forceps



## Osher Capsule-Foreign Body Forceps

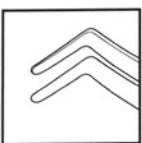
**LBO-172**



Fine 3.0mm platforms Angled 60 10mm from angle to tip. Serrated handle. Overall length 80mm, 3.1 inches.

## Gills-Welsh Capsule Forceps, Colibri Style

**LBO-173**



Smooth Colibri tip used to grasp and subsequently retract the capsule during nucleus delivery. Serrated handle. Overall length 73mm, 2.9 inches.

## Harms Corneal Utility Forceps, Colibri Style

**LBO-174**



0.12mm, 1 x 2 teeth set at 45 with 4.5mm tying platform. Serrated handle. Overall length 70mm, 2.7 inches.

## Cohan Corneal Utility Forceps, Colibri Style

**LBO-175**



0.12mm, 1 x 2 teeth set at 45 with 4.5mm tying platform. Serrated handle. Overall length 60mm, 2.4 inches.

## Capsulorhexis Forceps

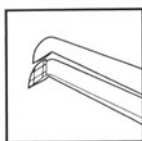
**LBO-176**



The ultra-fine tips are designed with an iris stop and angled platform tips for grasping delicate capsule. Overall length 85mm, 3.3 inches.

## Ultra Capsulorhexis Forceps

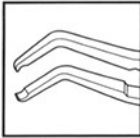
**LBO-177**



Fine angled tips ideal for grasping delicate capsule. Angled 12mm shafts with iris stop allows ease of movement in the anterior chamber. Flat handle. Overall length 80mm, 3.2 inches.

## Pierse Forceps-Colibri

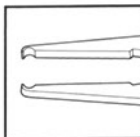
**LBO-178**



Pierse tips with 6mm platforms and 2.5mm angled tips. Flat serrated handle.  
Overall length 86mm, 3.3 inches.

## Pierse Forceps-Straight

**LBO-179**



Straight shafts with 6mm platforms and Pierse tips. Flat serrated handle.  
Overall length 85mm, 3.3 inches.

## Moody Curved Fixation Forceps

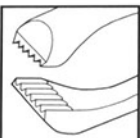
**LBO-180**



Curved shafts with 0.5mm, 1 x 2 teeth. Serrated handle with thumb catch lock . Overall length 108mm, 4.3 inches.

## Great Fixation Forceps

**LBO-181**



**LBO-182**



**With Lock**

### THUMB CATCH LOCK

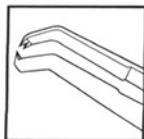
<b>LBO-181</b>	Narrow, 3.5mm jaws	Without
<b>LBO-182</b>	Wide, 4.5mm jaws	Without
<b>LBO-183</b>	Wide, 4.5mm jaws	With

Jaws with teeth. Serrated handle . Overall length 108mm, 4.3 inches.

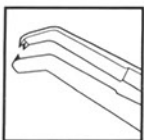
# Forceps

## Maumenee Corneal Forceps, Colibri style

**LBO-184**



**LBO-185**



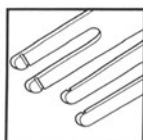
5mm tying platform, serrated cross action handle  
Overall length 121mm, 4.8 inches.

### TEETH

<b>LBO-184</b>	0.10mm, 1 x 2 set at 45
<b>LBO-185</b>	0.10mm, 1 x 2 set at 90

## Corneal Forceps, Colibri Style (Double)

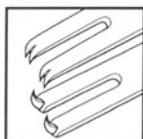
**LBO-186**



Two 2.75mm long tips separated 1mm with 0.4mm Pierse tips. Serrated handle. Overall length 72mm, 2.8 inches.

## Polack Double Corneal Forceps, Colibri Style

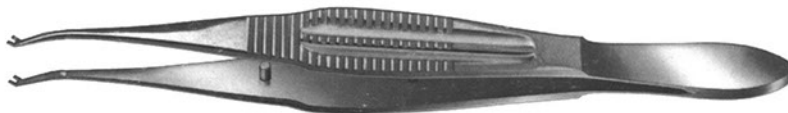
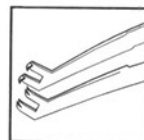
**LBO-187**



Two 2.75mm long tips separated 1mm with 1 x 2 teeth. Serrated handle. Overall length 71mm, 2.8 inches.

## Lieberman Suturing Forceps

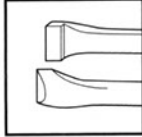
**LBO-188**



Colibri style tips. Double toothed tips with 0.10mm teeth spaced 1mm apart and 7mm tying platforms. Wide serrated handle. Overall length 109mm, 4.3 inches.

## Cilia Forceps

**LBO-189**



Oval solid 15mm wide lower plate. Open upper plate with inside dimensions 11mm x 8mm. Serrated handle with locking thumb screw . Overall length 97mm, 3.8 inches.

## Cilia Forceps

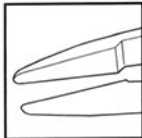
**LBO-190**



Narrow smooth jaws. Serrated handle  
Overall length 83mm, 3.3 inches.

## Barraquer Cilia Forceps

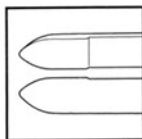
**LBO-191**



Also referred to as McLean-Putney suture forceps. Slightly curved 6mm long platforms. Serrated handle . Overall length 109mm, 4.3 inches.

## Ziegler Cilia Forceps

**LBO-192**



Slender 4.5mm long rounded platforms. Serrated handle  
Overall length 91mm, 3.6 inches.

## Berke Ptosis Forceps

**LBO-193**



	LENGTH OF BLADE	OVERALL LENGTH
<b>LBO-193</b>	27mm	104mm, 4.1 inches

Multi-curved shafts with straight blades and longitudinal serrations. Slide lock and serrated handle.

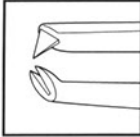


# Forceps



## O'Connor-Elsching Fixation Forceps

**LBO-194**



Straight shafts with heavy Elschning teeth. Flat serrated handle with slide style lock .  
Overall length 109mm, 4.3 inches.

## Schaaf Foreign Body Forceps

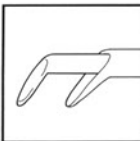
**LBO-195**



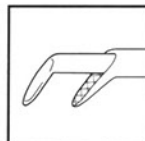
Fine pointed grooved jaws with smooth curve from tip to finger grip style handle.  
Overall length 105mm, 4.1 inches.

## Rappazzo Intraocular Foreign Body Forceps

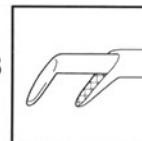
**LBO-196**



**LBO-197**



**LBO-198**



### JAWS

<b>LBO-296</b>	2.0mm smooth
<b>LBO-297</b>	1.5mm Electro Dusted
<b>LBO-298</b>	1.5mm Serrated

Inner jaw space 2.0mm-45 tip angulation. 20 gauge (.89mm) diameter shaft and stationary distal jaw. Lightweight squeeze handle. Overall length 163mm, 6.4 inches.

## Rizzuti Superior Rectus Forceps

**LBO-199**



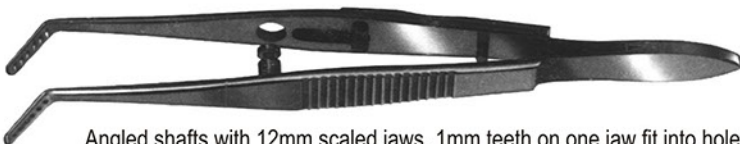
Shaft angled 45, 7mm from tip to bend. Tips curved with 1 x 2 teeth. Serrated cross action handle .  
Overall length 97mm, 3.8 inches.

## JAMESON MUSCLE FORCEPS

Left **LBO-200**



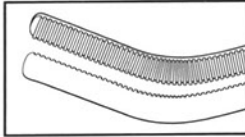
Right **LBO-201**



Angled shafts with 12mm scaled jaws. 1mm teeth on one jaw fit into holes on the other jaw.  
Slide lock and serrated handle . Overall length 100mm, 3.9 inches.

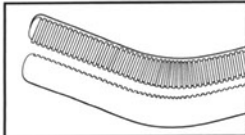
## Curved Dressing Forceps Serrations

**LBO-202**



Gently curved tips. Serrated handle . Overall length

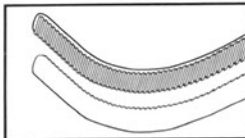
**LBO-203**



		OVERALL LENGTH
<b>LBO-202</b>	Delicate	99mm, 3.9 inches
<b>LBO-203</b>	heavy	98mm, 3.9 inches

## Curved Dressing Forceps Serrations

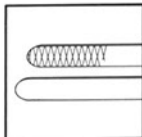
**LBO-204**



Delicate strong curved serrated tips. Serrated handle .  
Overall length 97mm, 3.8 inches.

## Bishop-Harmon Dressing Forceps

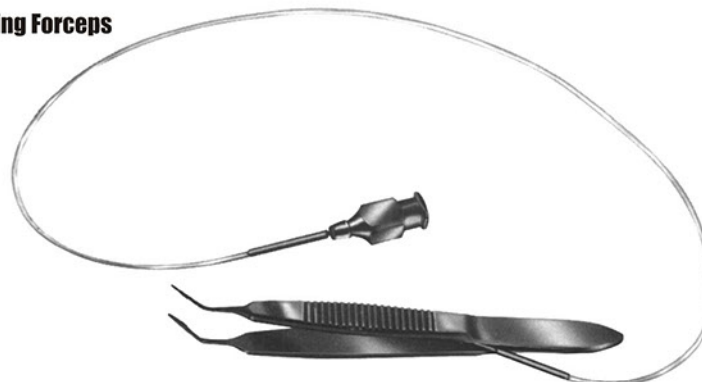
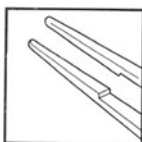
**LBO-205**



Cross serrated tips. Flat handle . Overall length 100 mm, 3.9 inches.

## Sinsky-Mcpherson Angled Tying Forceps

**LBO-206**



Angled 45 Shafts 7.5mm From Tip To Bend With 4mm Tying Platforms And Irrigator.  
Serrated Handle. Uses 40cm Of Silicone Tubing.

# Forceps



## Knolle-Shepard Lens Forceps

**LBO-207**

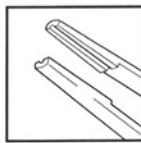


Curved shafts with 2.0mm wide serrated tips and 0.4mm pin in upper jaw. Serrated cross action handle. Overall length 121mm, 4.8 inches.



## Cozean-McPherson Angled Lens Forceps

**LBO-208**



Angled 45 shafts 7mm from tip to bend with grooved 2mm platform for grasping lens haptic. Serrated McPherson style handle. Overall length 80mm, 3.1 inches.



## Cozean Angled Lens Forceps

**LBO-209**

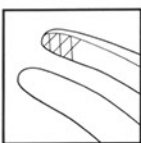


12mm jaws with 8mm angled tips. Serrated cross action handle. Overall length 98mm, 3.9 inches.



## Lehner IOL Forceps

**LBO-210**



Gently curved serrated tips make this lens forceps ideal for tunnel incisions. Round handle. Shaft angled 11mm from tip. Overall length 103mm, 4.1 inches.



## Clayman Curved Tying Forceps

**LBO-211**

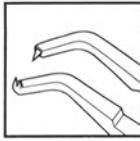


Curved shafts and tips with 6mm tying platforms. Wide smooth handle. Overall length 100mm, 3.9 inches.



## Nordan Colibri Forceps

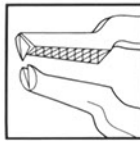
**LBO-212**



0.12mm 1 x 2 teeth with 5mm platforms and 2.0mm angled tips. Round knurled handle.  
Overall length 113mm, 4.5 inches.

## Kirby Corneoscleral Forceps.

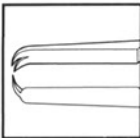
**LBO-213**



1 x 2 teeth, cross serrated 5mm 60 angled platforms. Round knurled handle .  
Overall length 107mm, 4.2 inches.

## Catalano Corneal Scleral Forceps

**LBO-214**



1 x 2 teeth and 5.5mm tying platforms.  
Round knurled handle.  
Overall length 113mm, 4.4 inches.

	TEETH
<b>LBO-214</b>	0.12mm
<b>LBO-215</b>	0.3mm

## Nordan Colibri Forceps

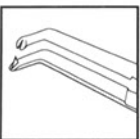
**LBO-216**



Stainless steel model of the popular Nordan titanium Colibri forceps. tying platform with 0.12mm teeth for grasping delicate structures. Flattened round handle  
Overall length 104mm, 4.1 inches.

## Katzin-Barraquer Corneal Utility Forceps, Colibri Style

**LBO-217**



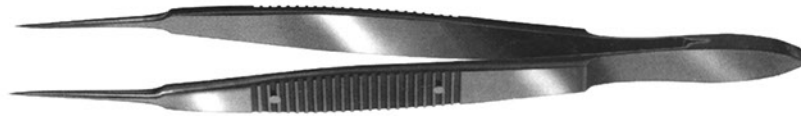
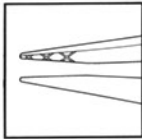
0.4mm, 1 x 2 teeth and 7mm tying platform. Serrated handle  
Overall length 73mm, 2.9 inches.

# Forceps

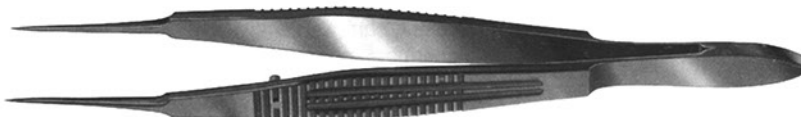


## Jeweler Type Forceps.

**LBO-218**



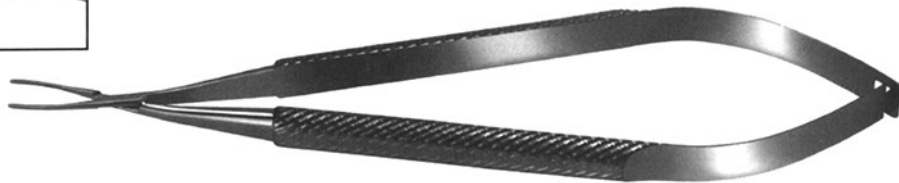
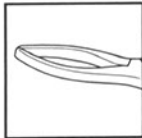
**LBO-219**



Straight shafts with 1mm, 45° angled tips. Fine serrations.  
Smooth jeweler's forceps style handle. Overall length 109mm, 4.3 inches.

## Hydro Insertion Forceps

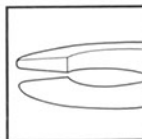
**LBO-220**



Forceps designed for insertion of foldable intraocular lenses. Unique cross-action design allows for easy insertion of most foldable lens style. Overall length 119mm, 4.7 inches.

## Mackool Micro Forceps

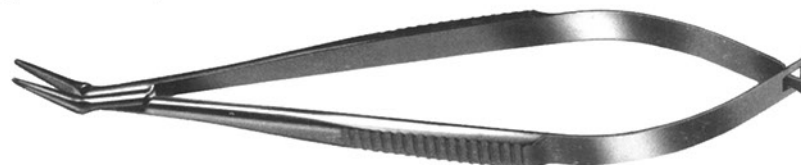
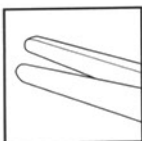
**LBO-221**



This instrument is ideal for cracking the lens nucleus as well as insertion of foldable intraocular lenses. Overall length 90mm, 3.5 inches.

## Beaupre Cilia Forceps

**LBO-222**



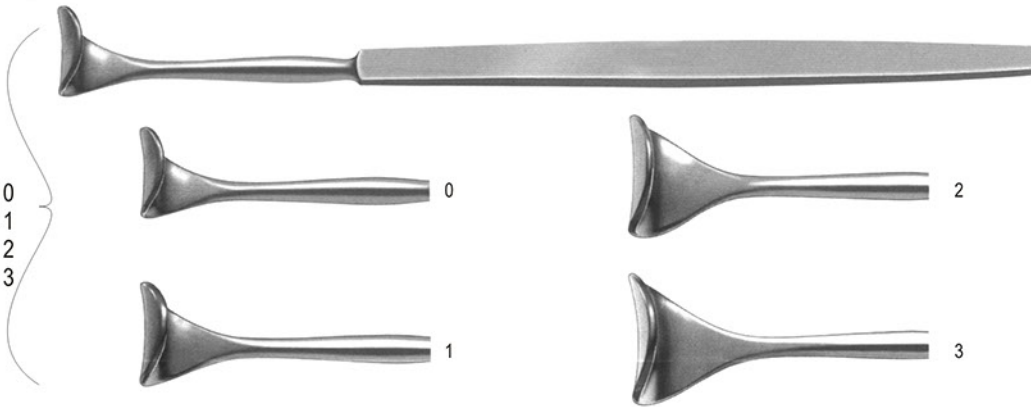
1mm smooth 45° angled jaws. Cross action serrated handle.  
Overall length 117mm, 4.6 inches.



## LBO-250 to LBO-253

**Desmarres**  
Lid Retractor  
thin solid blades

- LBO-250** size 0
- LBO-251** size 1
- LBO-252** size 2
- LBO-253** size 3



## LBO-254 to LBO-257

**Desmarres Lid Retractor**

### Blade Size

### Overall Length

<b>LBO-254</b>	11 mm	Wide retractor blade	140 mm, 5.5 inches
<b>LBO-255</b>	13 mm	Wide retractor blade	137 mm, 5.4 inches
<b>LBO-256</b>	15 mm	Wide retractor blade	143 mm, 5.6 inches
<b>LBO-257</b>	17 mm	Wide retractor blade	145 mm, 5.7 inches



**Knapp**

Lacrimal Retractor  
4 prongs

- A:** blunt
- B:** sharp

## LBO-258



## LBO-259

**Helveston**

Tissue Retractor  
thin curved blade

- A:** "Barbie"  
7mm wide
- B:** "Big Barbie"  
9mm wide
- C:** "Great Big Barbie"  
11mm wide concave blade



# Retractors



**Jaeger Lid Plate**

**LBO-260**



20mm x 35mm & 24mm x 35mm curved ends Clear Lucite Overall Length 93mm 3.7 inches

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**Berke-Jaeger**

**LBO-261**



Curved over length & width 20mm & 23mm wide blades. Overall length 109mm, 4.3 inches.

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**LBO-262**

**Double Ended Orbital Retractor-Elevator**



Thin ribbon retractor with a gentle "s" curve. Double ended 16mm wide & 25mm wide ends. Overall length 182mm, 7.2 inches.

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**Orbital Retractor-Elevator**

**LBO-263**



Thin ribbon retractor with a gentle "s" curve. Double ended 10mm wide & 14mm wide ends. Overall length 180mm, 7.1 inches.

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**Schepens Orbital Retractor**

**LBO-264**

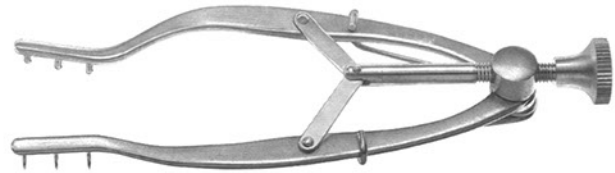


Smooth 14mm by 56mm blades with 4.5 wide notch in blade. Flat serrated handle. Overall length 148mm, 5.8 inches.

## LBO-265

### Stevenson

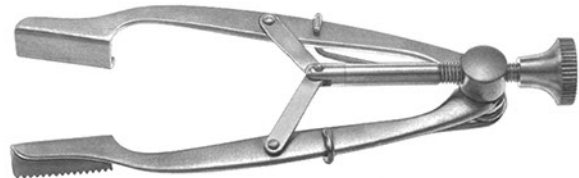
Lacimal Sac Retractor  
3 x 3 blunt prongs. Adjustable.



## LBO-266

### Stevenson

Lacimal Sac Retractor  
solid blades with serrated edge  
adjustable



## Kennerdell Spatulas



Set of 10 blades (two each of five sizes). Malleable  
Construction allows easy bending.

### LBO-267 to LBO-271

	SIZE (mm)	OVERALL LENGTH
LBO-267	6 x 49	92mm, 3.6 inches
LBO-268	6 x 74	117mm, 4.6 inches
LBO-269	14 x 62	105mm, 4.1 inches
LBO-270	18 x 60	104mm, 4.1 inches
LBO-271	20 x 66	110mm, 4.3 inches

# Retractors



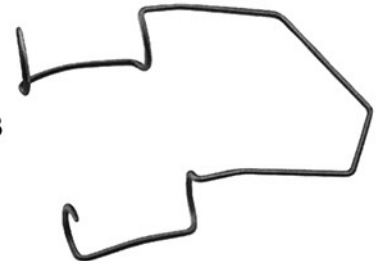
**LBO-272**



## **Barraquer Eye Speculum**

Wire 14mm blades. Blade spread 18mm.  
Overall length 38mm, 1.5 inches.

**LBO-273**



## **Kratz-Barraquer Eye Speculum**

Open 14mm blades. Blade spread 18mm.  
Overall length 41mm, 1.6 inches.

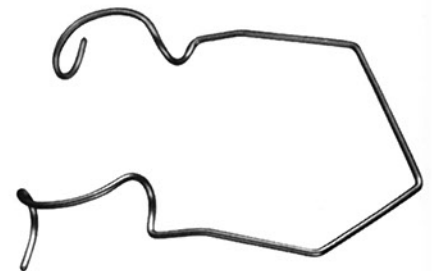
**LBO-274**



## **Temporal Approach Lid Speculum-Wire Blade**

Angled for temporal approach. Wire 14mm rounded blades for patient comfort. Blade spread 18mm.  
Overall length 38mm, 1.5 inches.

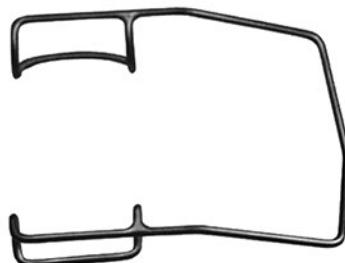
**LBO-275**



## **Temporal Approach Lid Speculum-Open Blade**

Angled for temporal approach. Open 14mm rounded blades for patient comfort. Blade spread 18mm.  
Overall length 41mm, 1.6 inches.

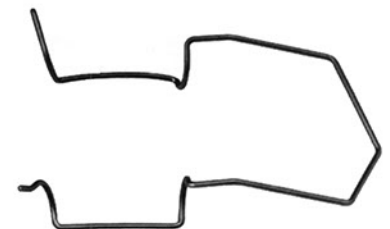
**LBO-276**



## **Barraquer Eye Speculum**

Open 14mm blades of heavy 1mm wire. Blade spread 20mm. Overall length 40mm, 1.6 inches.

**LBO-277**



## **Kratz-Nichamin Speculum**

Open wire style 16mm blade with a wing tip twist giving the surgeon better on-axis accessibility. Overall length 45mm, 1.8 inches.

**LBO-278**



**Barraquer Eye Speculum**

Solid 14mm blades. Blade spread 18mm.  
Overall length 41mm, 1.6 inches.

**LBO-279**



**Barraquer Eye Speculum-Pediatric**

Open 11mm Blade. Blade spread 19mm  
Overall length 34mm, 1.3 inches.

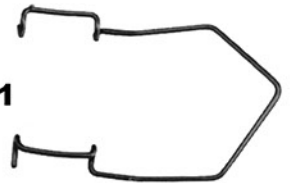
**LBO-280**



**Temporal Approach Lid Speculum-Solid Blade**

Angled for temporal approach. Solid 14mm blades.  
Blade spread 18mm. Overall length 41mm, 1.6 inches

**LBO-281**



**Kartz-Barraquer Eye Speculum-Pediatric**

Open 10mm blades. Blade spread 19mm.  
Overall length 35mm, 1.4 inches.

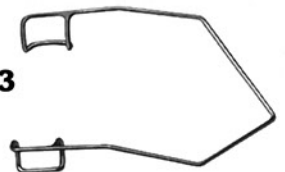
**LBO-282**



**Barraquer Pediatric Speculum-Solid Blade**

Solid 6mm solid blade speculum for newborn or  
pediatric use. Overall length 30mm, 1.2 inches

**LBO-283**



**Barraquer Pediatric Speculum-Wire Blade**

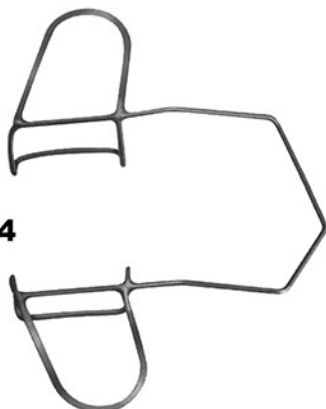
Closed wire 5mm blade with a wing tip twist  
giving th surgeon better on-axis accessibility.  
Overall length 30mm, 1.2 inches.



# Retractors



**LBO-284**



**Floyd-Barraquer Eye Speculum**

Open 14mm blades with 6mm lifting wings.  
Blade spread 18mm. Overall length  
40mm, 1.6 inches.

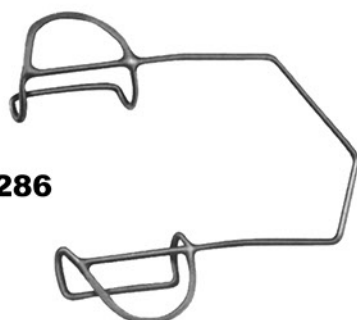
**LBO-285**



**Sauer Eye Speculum-Infant**

Solid 8mm blades. Blade spread 20mm.  
Overall length 35mm, 1.4 inches.

**LBO-286**



**Simcoe Eye Speculum**

Open 14mm blades with 10mm lifting wings.  
Lightweight wire. Blade spread 18mm.  
Overall length 40mm, 1.6 inches.

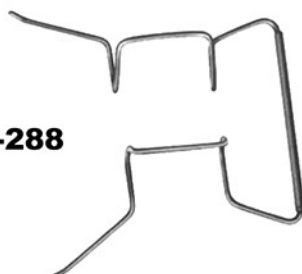
**LBO-287**



**Saunders Eye Speculum-Premature Infant**

Solid 4mm blades. Locking thumb screw.  
Blade spread 14mm. Holes in bar decrease  
weight of speculum.  
Overall length 35mm, 1.4 inches.

**LBO-288**



**Pierse Eye Speculum**

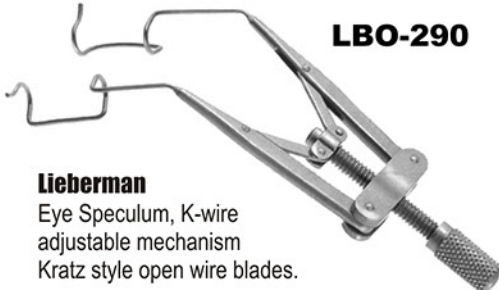
Open 11mm blades. Blade spread 20mm.  
Overall length 30mm 1.2 inches.

**LBO-289**



**Alfonso Eye Speculum-Newborn**

open 5mm blades. Blade spread 27mm.  
Overall length 45mm, 1.8 inches.



**LBO-290**

**Lieberman**

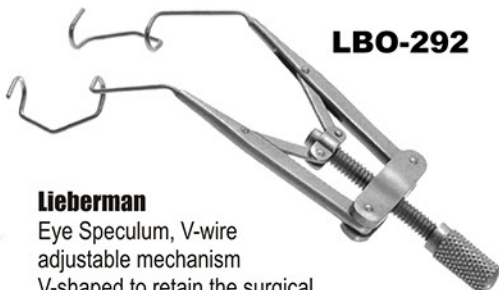
Eye Speculum, K-wire  
adjustable mechanism  
Kratz style open wire blades.



**LBO-291**

**Kratz**

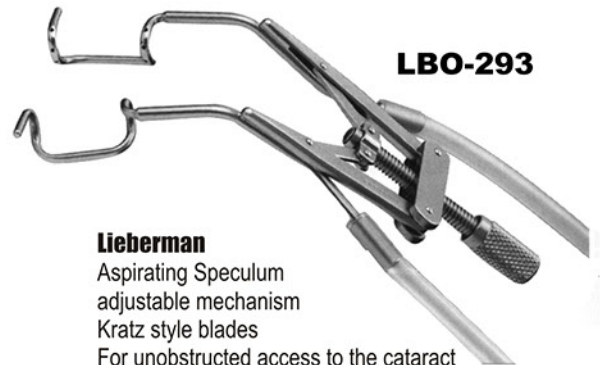
Aspirating Speculum  
with open blades  
For unobstructed access to the  
cataract incision with phaco or I/A tip.  
Supplied with silicone tubing and luer-lock adaptor.



**LBO-292**

**Lieberman**

Eye Speculum, V-wire  
adjustable mechanism  
V-shaped to retain the surgical  
drape under the eyelids.



**LBO-293**

**Lieberman**

Aspirating Speculum  
adjustable mechanism  
Kratz style blades  
For unobstructed access to the cataract  
incision with phaco or I/A tip.  
Supplied with silicone tubing and  
luer-lock adaptor.



**LBO-294**

**Lieberman**

Eye Speculum pediatric  
thin solid blades, adjustable  
mechanism, non-reflective finish  
Ideal for infants and small children.



**LBO-295**

**Lieberman**

Aspirating Speculum  
adjustable mechanism  
V-shaped blades are designed to retain  
the surgical drape under the eyelids.  
Supplied with silicone tubing and  
luer-lock adaptor.



**LBO-296**

**Lieberman**

Eye Speculum  
thin solid blades, adjustable  
mechanism, non-reflective finish.

# Retractors



**LBO-297**

## Mellinger Eye Speculum

Fenestrated 16mm blades. Self-locking Mechanism. Blade spread 27mm. Overall length 70mm, 2.8 inches.



**LBO-299**

## Gimble-Mellinger Eye Speculum

16mm open wire blades. Self locking mechanism. Blade spread 27mm. Overall length 70mm, 2.8 inches.



**LBO-301**

## Mellinger Eye Speculum

Solid 16mm blades. Self-locking mechanism. Blade spread 27mm. Overall length 70mm, 2.8 inches.

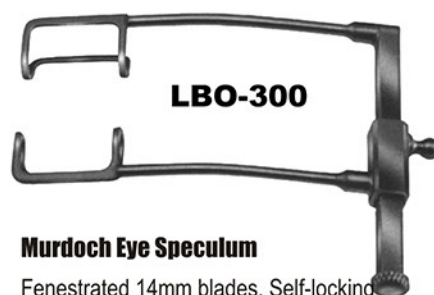


**LBO-298**

## Cook Eye Speculum

Solid blades with locking mechanism.

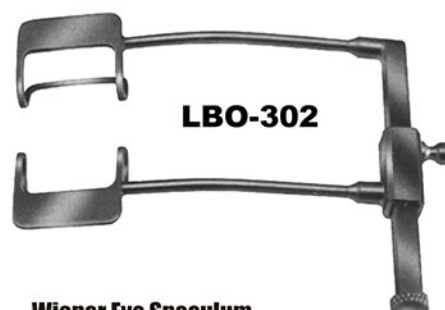
	MODEL	BLADES	BLADES SPREAD	OVERALL LENGTH
<b>R58-4908</b>	Infant	7mm	24mm	52mm, 2.0 inches
<b>R58-4909</b>	Pediatric	10mm	22mm	55mm, 2.5 inches



**LBO-300**

## Murdoch Eye Speculum

Fenestrated 14mm blades. Self-locking mechanism. Blade spread 24mm. Overall length 57mm, 2.2 inches.



**LBO-302**

## Wiener Eye Speculum

Fenestrated 14mm blades. Wide extension of blade for protection of lids. Self-locking mechanism. Blade spread 23mm. Overall length 55mm, 2.2 inches.



**LBO-303**

### McKinney Eye Speculum

Solid 15mm blades. Self-locking mechanism. Blade spread 31mm. Overall length 60mm, 2.4 inches.



**LBO-304**

### Keizer-Lancaster Eye Speculum

Solid 15mm blades with 8mm narrowed portion. Screw-controlled locking mechanism with stabilizing disk. Blade spread 30mm. Overall length 82mm, 3.2 inches.



**LBO-305**

### Knapp Eye Speculum

Open 13mm blades. Screw-controlled locking mechanism. Blade spread 60mm. Overall length 85mm, 3.3 inches.



**LBO-306**

### Lester-Burch Eye Speculum

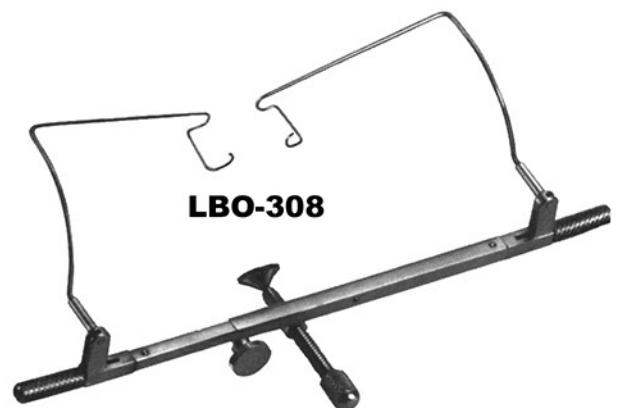
Solid 21mm blades. Screw-controlled locking mechanism. Blade spread 32mm. Overall length 80mm, 3.1 inches.



**LBO-307**

### Mauernsee-Park Speculum

Fenestrated 14mm blades and canthus bar. Adjustable blade locking screws on outside of branches. Blade spread 36mm. Overall length 80mm, 3.1 inches.



**LBO-308**

### Osher Lid Speculum

Open wire style blades allow complete manipulation of the phaco tip inside the eye. Lid control is excellent, exposure is maximized, and the likelihood of positive pressure is reduced. Overall length 150mm, 5.9 inches.



# Retractors

**LBO-309**



**Park Speculum**

Fenestrated 15mm blades and canthus bar. Adjustable blade locking screws on outside of branches. Blade spread 36mm. Overall length 82mm, 3.2 inches.

**LBO-310**



**Adult Model**

**Williams Eye Speculum**

Spring-controlled spread of blades with locking mechanism.

BLADES	BLADES SPREAD	OVERALL LENGTH
14mm	52mm	86mm, 3.4 inches

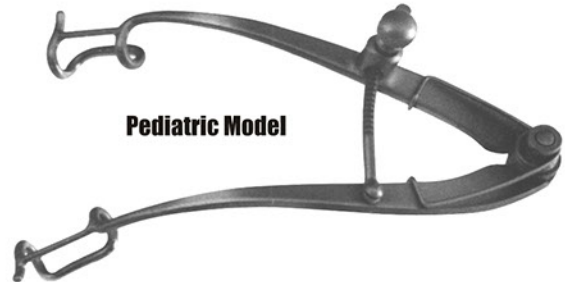
**LBO-311**



**Ilif-Park Speculum**

Solid 14mm blades and canthus bar. Adjustable blade locking screws on outside of branches. Blade spread 36mm. Overall length 82mm, 3.2 inches.

**LBO-312**



**Pediatric Model**

**Williams Eye Speculum**

Spring-controlled spread of blades with locking mechanism.

BLADES	BLADES SPREAD	OVERALL LENGTH
11mm	41mm	69mm, 2.7 inches

**LBO-313**



**McPherson Speculum**

Solid 14mm free-swinging blades, suture posts and stabilizing disk. Blade spread 30mm. Overall length 82mm, 3.2 inches.

**LBO-314**

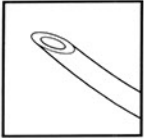


**Lancaster Eye Speculum**

Solid 15mm blades. Screw controlled locking mechanism with stabilizing disk. Blade spread 35mm. Overall length 82mm, 3.2 inches.

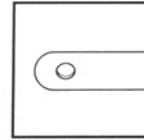


## Simcoe Anterior Chamber Receiving Cannulas



25 gauge with 35° curved shaft and beveled tip.  
Facilities exit of retaining wire.  
Overall length 15.5mm, 0.6 inches.

## McIntyre Straight Lacrimal Cannula



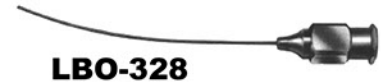
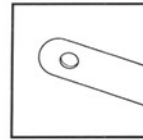
23 gauge cannula with blunt tip and side port. Straight Shaft  
Overall length 46mm, 1.8 inches.

## Simcoe Suturing Cannulas



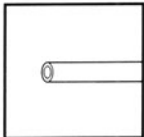
30 gauge cannula with beveled sharp tip. Hole for intraocular suturing. Overall length 17mm, 0.7 inches.

## McIntyre Curved Lacrimal Cannula

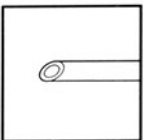


Curved Shaft  
23 gauge cannula with blunt tip and side port.  
Overall length 46mm, 1.8 inches.

## Lambert 33 Gauge Subretinal Cannulas



**LBO-329**

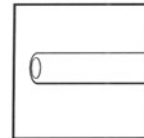


**LBO-330**

Designed for aspiration of fluid from subretinal space. 33 gauge tip. Overall length 35mm, 1.4 inches.

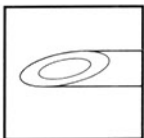
<b>LBO-329</b>	blunt
<b>LBO-330</b>	sharp

## Lacrimal Cannula



23 gauge cannula with blunt tip, straight shaft,  
Overall length 25mm, 1.0 inches.

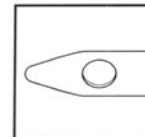
## Atkinson Retrobulbar Cannulas



Beveled sharp rounded point,  
Overall length 35mm, 1.4 inches.

<b>LBO-332</b>	23 Gauge
<b>LBO-333</b>	25 Gauge

## R59-4933 Shahinian Lacrimal Cannula

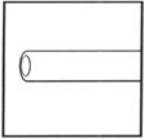


23 gauge cannula with blunt tapered tip and side port. Straight shaft. Overall length 11mm, 0.4 inches.

# Cannulas

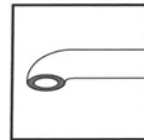


## Lacrimal Cannula LBO-335



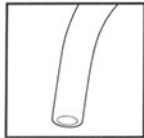
23 gauge cannula with reinforced shaft, straight 10mm tip, Overall length 31mm, 1.2 inches.

## LBO-337 Simcoe Posterior Capsule Polisher



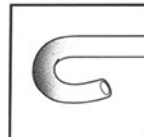
23 gauge cannula with sandblasted tip. Shaft angled 45°, 14mm from tip to bend. Overall length 16mm, 0.6 inches.

## Lacrimal Cannula LBO-336



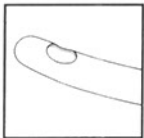
23 gauge cannula with reinforced shaft, curved 10mm tip, Overall length 31mm, 1.2 inches.

## LBO-338 Thornton Aspiring Capsule Polisher



Aspiring 27 gauge cannula with "U" shape tip permits aspiration of 12 o'clock cortex. The tip is sandblasted to act as a capsule polisher. Overall length 23mm, 0.9 inches.

## Weil Lacrimal Cannula LBO-339



21 gauge cannula with blunt tip and top port. Curved shaft. Overall length 34mm, 1.3 inches.

## Gills LBO-340



Aspiring Cannula smooth blunt tip end opening angled, 25 gauge

Tip Size  
**A:** 5mm tip  
**B:** 7mm tip  
**C:** 8mm tip  
**D:** 10mm tip

## Drews Capsule Polisher LBO-341



25 gauge cannula. 2.5mm diameter angled ring with port on inside at 6 o'clock. Sandblasted posterior surface, smooth anterior surface. Overall length 23mm, 0.9 inches.



## LBO-342

**Gimbel**  
 Irrigating Cannula blunt tip, angled to side end opening 26 gauge

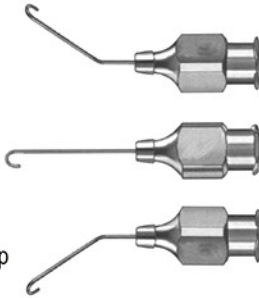
## LBO-343



### Wilbrandt-Binkhorst

Cannula smooth blunt tip  
end opening 23 gauge

- A: straight
- B: left
- C: right



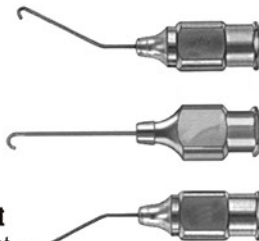
## LBO-346



### McIntyr-Binkhorst

Cannula smooth blunt  
tip end opening, 26 gauge

- A: right
- B: straight
- C: left



## LBO-347



### Kelman

Cystotome  
sharp point and  
sharp cutting edge  
22 gauge



## LBO-348



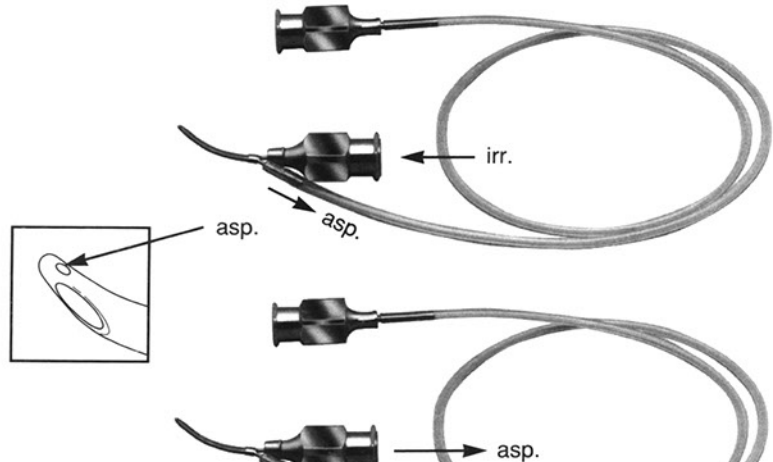
### Kratz

Cystotome sharp point and  
sharp cutting edge  
formed, 22 gauge



## LBO-344 Simcoe Double-Barreled Irrigating-Aspirating Unit

## LBO-345 Simcoe Reverse Double-Barreled Irrigating-Aspirating Unit



Both models feature 23 gauge  
thin wall irrigation and aspiration.  
Aspiration through 0.3mm top port, with  
irrigating through side opening. Curved shaft.  
Uses 32cm (12.6 inches) of silicone tubing  
Overall 15mm, 0.6 inches.

**LBO-344** Irrigation through main hub, aspiration through  
silicone tubing.

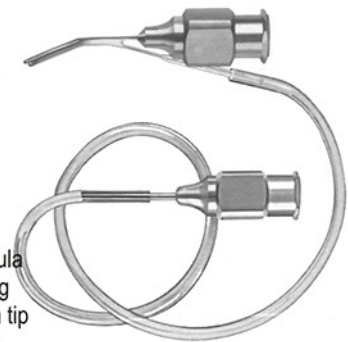
**LBO-345** Irrigation through silicone tubing,  
aspiration through main hub

## LBO-349



### Gills

Irrigating-Aspirating Cannula  
front opening with Irrigating  
port recessed 0.5mm from tip  
angled, 23 gauge thin wall.  
Supplied with silicone tubing  
and adaptor.



## LBO-350

**Silicone Tubing**  
For I/A Cannulas  
tubing and adaptor  
(Tubing only, 12")



# Hooks, Knives, Spoons, Spatulas & Picks



## Scobee Oblique Muscle Hook

**LBO-351**

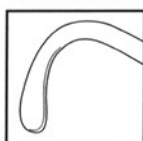


Curved shaft with flat 4.5mm hook. Flat serrated handle .  
Overall length 134mm, 5.3 inches.



## Culler Rectus Muscle Hook

**LBO-352**

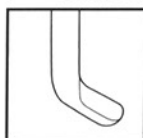


7mm flattened hook. Flat serrated handle . Overall length  
125mm, 4.9 inches.



## Culler Rectus Muscle Hook

**LBO-353**

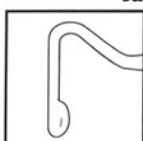


10mm flattened hook with angled tip. Flat serrated handle .  
Overall length 122mm, 4.8 inches.



## Jamson Muscle Hook

**LBO-354**



2.0mm bulbous tip with 6mm flat portion. Flat serrated handle .  
Overall length 136mm, 5.4 inches.



## Jamson Muscle Hook-Small

**LBO-355**



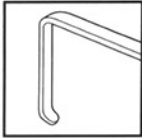
Small bulbous tip with flat sides. Flat serrated handle .  
Overall length 132mm, 5.1 inches.



# Hooks, Knives, Spoons, Spatulas & Picks

## Green Strabismus Hook

**LBO-356**

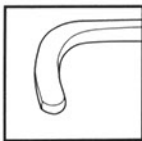


Flat 7mm wide hook. Flat serrated handle. Overall length 130mm, 5.1 inches.



## Graefe Strabismus Hook

**LBO-357**



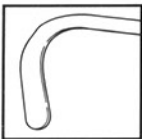
Flattened hook. Flat serrated handle. Choose from three sizes.

	HOOK	OVERALL LENGTH
<b>A:</b>	# 1 size 8mm	135mm, 5.3 inches
<b>B:</b>	# 2 size 10mm	140mm, 5.5 inches
<b>C:</b>	# 3 size 10mm	143mm, 5.7 inches



## Graefe Strabismus Hook-Non-Magnetic

**LBO-358**

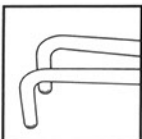


#2 Size 10mm hook. Flat serrated handle. Overall length 139mm, 5.5 inches.



## Manson Double Ended Strabismus Hook

**LBO-359**

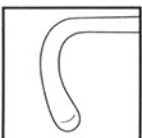


3mm forked angled blades. Blade spread 7mm. Flat serrated handle. Overall length 123mm, 4.8 inches.



## Stevens Curved Tenotomy Hook

**LBO-360**



6mm curved hook. Flat serrated handle. Overall length 119mm, 4.7 inches.



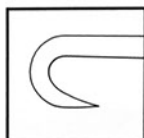


# Hooks, Knives, Spoons, Spatulas & Picks

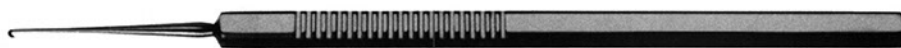


## Maumenee Iris Hook

**LBO-361**



Sharp, 1.5mm hook. Flat serrated handle .  
Overall length 123mm, 4.8 inches.



## Shepard Iris Hook

**LBO-362**

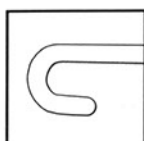


Curved 1.0mm hook. Flat serrated handle .  
Overall length 123mm, 4.8 inches.



## Bonn Iris Hook

**LBO-363**

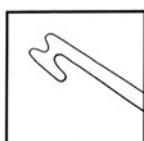


Curved 0.3mm hook. Flat serrated handle.  
Overall length 123mm, 4.8 inches.



## Hirschman Iris Hook

**LBO-364**

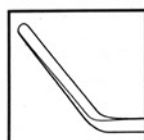


"H" shaped 0.75mm hook angled 45 , 9mm from tip to bend.  
Round knurled handle . Overall length 122mm, 4.8 inches.



## Kansas Nucleotome Bisection Spatula

**LBO-365**



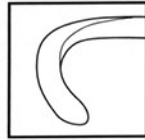
This semi-sharp blade is designed for use in the left hand in conjunction with the Kansas Nucleus Support Spatula to split the lens nucleus as described by the "Phacofracture" technique. Round knurled handle. Overall length 115mm, 4.5 inches.



# Hooks, Knives, Spoons, Spatulas & Picks

## Hardesty Tenotomy Hook

**LBO-366**

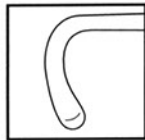


5mm curved hook with marking at 14mm and 20mm from tip.  
Flat serrated handle . Overall length 120mm, 4.7 inches.



## Smith Expressor Hook

**LBO-367**

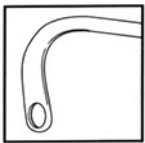


11.5mm curved hook with marking at 14mm and 20mm from tip.  
Flat serrated handle . Overall length 150mm, 5.9 inches.



## Gass Retinal Detachment Hook

**LBO-368**



Flattened 13mm "Graefe type" hook, with 1.5mm oval hole. Flat serrated handle . Overall length 143mm, 5.6 inches.



## Lewicky Hook

**LBO-369**

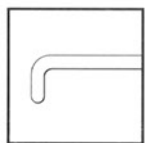


0.2mm, 90° angled tip with curved 9mm shaft. Flat smooth handle .  
Overall length 115mm, 4.5 inches.



## Azar Lens Manipulation Hook

**LBO-370**



0.2mm, 90° angled tip. Flat smooth handle .  
Overall length 120mm, 4.7 inches.

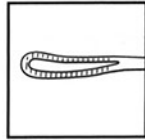


# Hooks, Knives, Spoons, Spatulas & Picks



## Wilder Lens Loop

**LBO-371**

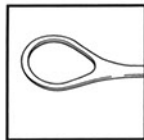


4mm wide x 15mm long loop with serrations on top of loop. Flat serrated handle  
Overall length 135mm, 5.3 inches.



## Lewis Lens Loop

**LBO-372**

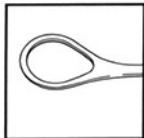


6mm wide x 7mm long loop. Flat serrated handle .  
Overall length 135mm, 5.3 inches.



## Gills-Welsh Modified Lens Loop

**LBO-373**

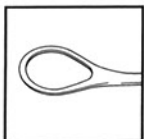


6mm wide x 7mm long loop. Flat serrated handle .  
Overall length 135mm, 5.3 inches.

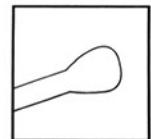


## Gills-Welsh Lens Loop with Olive Tip

**LBO-374**

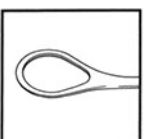


5mm wide x 7mm long loop ultra thin loop. Olive tip on opposite end.  
Flat serrated handle . Overall length 121mm, 4.8 inches.

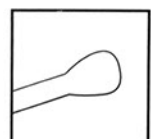


## Gills-Welsh Morrison Lens Loop with Olive Tip

**LBO-375**



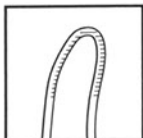
5mm wide x 7mm long loop ultra thin loop with 20 additional curvature.  
Olive tip on opposite end. Flat serrated handle .  
Overall length 121mm, 4.8 inches.



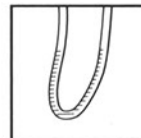
# Hooks, Knives, Spoons, Spatulas & Picks

## Simcoe Nucleus Loop-Double Ended

**LBO-376**



4mm wide x 20mm long left and right with serrations on top of loop.  
Round knurled handle . Overall length 140mm, 5.5 inches.



## Orleans Eye and Ear Lens Loop

**LBO-377**

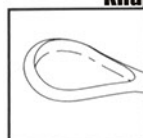


5mm wide x 10mm long oval loop. Flat serrated handle .  
Overall length 142mm, 5.6 inches.



## Knapp Lens Spoon

**LBO-378**



5mm wide spoon shape tip. Flat serrated handle .  
Overall length 134mm, 5.3 inches.



## Kirby Intra-Capsular Lens Loop

**LBO-379**



5mm wide x 10mm long loop. Round knurled handle .  
Overall length 138mm, 5.4 inches.

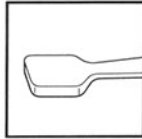


# Hooks, Knives, Spoons, Spatulas & Picks



## Kallan Nucleus Rotator

**LBO-382**



Multi-purpose manipulator with broad tip provides stability and control of the nucleus during phacoemulsification. The instruments can also be introduced through the side port incision during implantation of the IOL guide the lens down into the capsular bag. Round knurled handle. Overall length 125mm, 5.0 inches.



## MINI O'Gawa Mini Lens Dialer

**LBO-383**



Nucleus manipulator facilitates lens rotation during phacoemulsification. Overall length 120mm, 4.7 inches.



## Nichamin Double Ended Nucleus Chopper-Spatula

**LBO-384**



Wedge-shaped chopper designed to allow nucleus chopping in three directions. Rounded tip highly polished to protect the posterior capsule. 0.5mm spatula end is used to manipulate softer nuclei. Round knurled handle. Overall length 140mm, 4.6 inches.



## Minami "M" Hook

**LBO-385**



This tear drop-shaped tip with multi-angled shaft is ideal for the "Miracle Multiple-Cut" technique and is used for dividing and manipulating nucleus material from all directions in the capsule. Round knurled handle. Overall length 117mm, 4.6 inches.



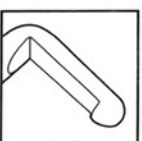
## Nagahara Nucleus Chopper

**A:** Left  
**B:** Right



Nucleus divider with 1.25mm tip and blade offset at a 60 angle is ideal for performing the "Phaco Chop" technique. Round knurled handle. Overall length 114mm, 4.5 inches.

**LBO-386**

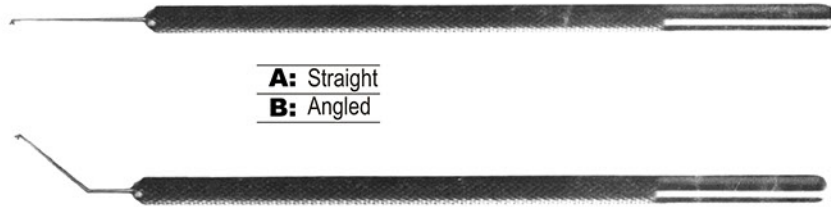
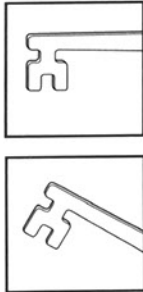




# Hooks, Knives, Spoons, Spatulas & Picks

## Osher Nucleus Manipulator

**LBO-387**



**A:** Straight  
**B:** Angled

Multi-purpose manipulator with broad tip provides stability and control of the nucleus during phacoemulsification. The instruments can also be introduced through the side port incision during implantation of the IOL guide the lens down into the capsular bag. Round knurled handle. Overall length 125mm, 5.0 inches.

## Castroviejo Double Ended Synechia Spatula

**LBO-388**

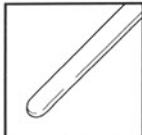


Double ended with 0.5mm by 10mm and 0.5mm by 15mm blades. Both ends are sharp with gently curved blades. Square serrated Overall length 139mm, 5.5 inches.



## Clayman™ Spatula

**LBO-389**



0.5mm x 10mm angled blade with blunt tip. Flat smooth handle with polished finish. Overall length 128mm, 5.0 inches.



## Barraquer Cyclodialysis Spatula

**LBO-390**



0.5mm x 15mm angled round blade with smoothly pointed tip and gently curved blade. Round knurled handle. Overall length 120mm, 4.7 inches.

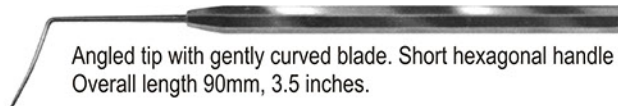


## Barraquer Iris Spatula

**LBO-391**



Angled tip with gently curved blade. Short hexagonal handle. Overall length 90mm, 3.5 inches.



**TIP**

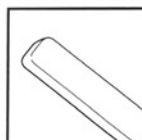
**A:** 0.5mm x 15cm  
**B:** 0.25mm x 15cm

# Hooks, Knives, Spoons, Spatulas & Picks



## Thornton Phacoemulsification Spatula

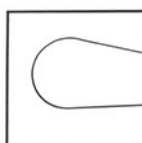
**LBO-392**



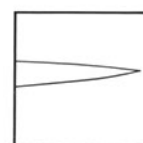
Short handled spatula for use through the side port stab incision. The malleable silver 0.5mm tip can be shaped to the surgeon's preference for maximum control. Round serrated handle. Overall length 86mm, 3.4 inches.



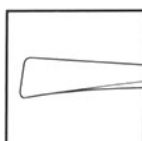
**LBO-393**



Double ended with needle point and 5mm by 14mm thin curved blade. Flat serrated handle . Overall length 138mm, 5.4 inches.



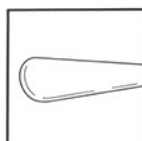
**LBO-394**



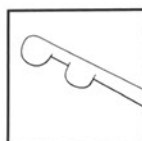
Flared 3mm wide by 14mm long platinum blade on 35mm shaft. Flat serrated handle . Overall length 140mm, 5.5 inches.



**LBO-395**



**LBO-396**



# Hooks, Knives, Spoons, Spatulas & Picks

## Drysdale Nucleus Manipulator

**LBO-397**

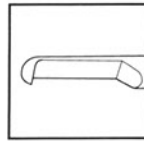


Flattened paddle tip with generous surface area is ideal for manipulating tissue, rotating, and cracking the nucleus. Round knurled handle. Overall length 110mm, 4.3 inches.



## Olk Angled Retinal Spatula

**LBO-398**

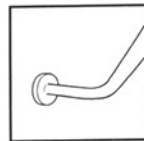


Triangular 0.5mm angled tip with 4mm flat surface. Round knurled handle with dull finish. Overall length 125mm, 4.9 inches. Tip Angles 115



## Barrett Micro Mushroom Manipulator

**LBO-399**



Ideal for nucleus manipulator during phacoemulsification. Also used for manipulating and rotating IOLs within the anterior chamber. Round knurled handle. Overall length 118mm, 4.6 inches.



**LBO-400**



**LBO-401**

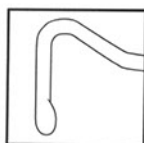


# Hooks, Knives, Spoons, Spatulas & Picks



## Kirby Expressor Hook and Loop-Double Ended

**LBO-402**



5mm wide x 10mm long loop. 10mm wide muscle/expressor hook. Round knurled handle . Overall length 155mm, 6.1 inches.

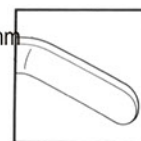


## Paton Double Ended Spatula

**LBO-403**



6mm wide by 15mm long thin blade with three grooves. 2mm wide by 31mm blade with last 7mm angle tip. Flat serrated handle . Overall length 143mm, 5.6 inches.



## Nordan Lens Manipulator

**LBO-404**

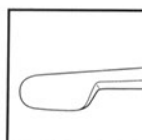


Rounded "donut tip" of this instrument minimize chances of posterior capsule rupture. Design also facilitates rotation and cracking of the nucleus. Angled tip for increased range of motion when used through a scleral tunnel or clear corneal incision. Round knurled handle. Overall length 120mm, 4.7 inches.



## Kellan Nucleus Segmenter

**LBO-405**



This nucleus segmenter is shaped to fit conveniently into the trough cut into the nucleus by the phacoemulsification tip. With a spreading motion between the phaco tip and the segmenter, the nucleus is cracked. Round knurled handle. Overall length 125mm, 5.0 inches.

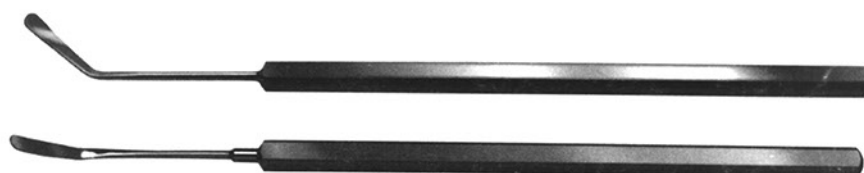


## Kansas Nucleus Support Spatula

**LBO-406**



This 3mm wide spatula was designed to slide under the lens nucleus and act as a support for the "Phacofracture" technique using either the Kansas Bisection Spatula or the Kansas Trisector. Flat smooth handle. Overall length 132mm, 5.2 inches.



**A:** Right hand use

**B:** Left hand use