



LAPA MASTER INDUSTRY

Manufacturer & Exporter all kinds of Surgical, Dental Instruments



**INSTRUMENTS SAVE LIVES SO
WE RECOMMEND USE QUALITY INSTRUMENTS**

Retractors



LAPA MASTER INDUSTRY

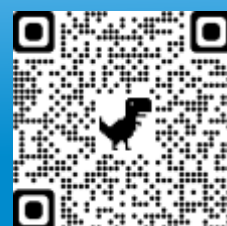
Roras Road, Muzaffar Pur
Sialkot 51310 Pakistan.

Tel: +92-52-3572582

Mobile: +92-312-8201181

E-mail: order@lmionlinestore.com / lapamasterind@gmail.com

URL: www.lapamasterind.com / www.lmionlinestore.com





LAPA MASTER INDUSTRY

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About Us

History

Serving more than 100 years in the field of Surgical, Dental, Manicure & Pedicure Implements, Veterinary and Jewelry Tools etc. Our grandfather was the pioneer who laid down the founding tone of the manufacturing of surgical instruments in Pakistan since 1908. This is our family business and we are the 3rd generation in this field.

Introduction

Lapa Master Industry was established in 2014 the company has, since the start, developed a stable and steady growth. The company success though, is due to the support of health authorities which have recognized our compromised to quality and punctuality.

Our Philosophy

Our philosophy is to share our knowledge and experience with our customers and give them all the professional assistance they might need.

Company Policy

Lapa Master Industry shall not compromise on quality of the products. We shall achieve quality excellence by using quality assurance programs and techniques. Prompt and dedicated services shall be ensured to customers and efficiently to the best of our ability.

Our Commitment

Our commitment to quality, based on our continuous monitoring at every stage of the manufacturing process has placed us at par with international standards, while maintaining very competitive prices.

Quality Management System

Lapa Master Industry manufacturing process emphasizes quality above all else. Our employees are having a ten to fifteen-years technical and practical experience in order to achieve, international standards. The proper stainless steel, stamping and forged materials used are meticulously selected and go through highly effective quality control. All surgical instruments are manufactured using the highest quality Pakistani, German, French and Japanese medical grade Stainless Steel. Every Instrument is Hand Examined from steel forging to final packing; no product passes to the next step unless Hand-Examined by a highly qualified and experienced technician.

100% Satisfaction Guaranteed

All our Instruments are produced with high quality stainless steel and are thoroughly checked and inspected during all phases of production, In order to ensure that they correspond to the international standards laid down by the **ISO 13485:2016, ISO 7153-1:2016 EN 10088-1:2005, ISO 9001:2015 and CE** standards and are confirmation of their compliance to use.

Product Materials

We are Manufacturing stainless steel Grades **AISI 410, 420, 304, 302 ASTM F899** steel according international standards.

Also French & German & Japanese's steel technology that removes calculus efficiently, while retaining its sharp Lapa Master Industry for a longer period of time.



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About Us

Lapa Master Industry Instruments holds the highest quality standards throughout the creation of the instrument from raw materials to finished product.

We believe in our products and provide the user with a 100% customer satisfaction guarantee. Lapa Master Industry that are stainless steel require periodic sharpening. Please feel free to contact us for any information.

Our Staff

We are convinced that a highly qualified staff brings trust in our company. We are tight team, consisting of people, who with their education and experience contribute to our company strength.

Support

Our friendly and well trained support staff is happy to assist you in any way even if you are looking for something not in our range of products, we will do our best to help you.

Terms & Condition

Processing of Ordered Goods: Once the contract is finalized, we start manufacturing the articles with zest and zeal, to ensure prompt delivery.

Minimum Order

The minimum order is Euro €.1000.00, US\$.1000.00

Price

We normally quote FOB prices. However, we can add freight, shipping and postage charges depending upon the requirement of the buyer.

Payment

This supplier also supports L/C, D/P, T/T, Western Union, Money Gram payments for conformed orders. We prefer 70% In Advance and the remaining 30% on completion of the goods but before shipment. The goods will remain the property of Lapa Master Industry the total amount of order is paid in full. We also accept Irrevocable Letter of Credit (L/C).

Mode of Shipment

It depends on the requirement of buyer.

Claim

We always supply the goods with utmost care in all aspects; but still out of human error, any claim arises for any loss or damage, it must be filed within 4 days of the date of receipt of goods. The claim is not negotiable after Twenty One Days from the date of invoice.

Returns

Returns are not acceptable without prior mutual consent. Any instruments that are custom made, modified, private labeled, custom etched or otherwise modified or hampered are not returnable for



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About Us

credit.

We reserve the right to inspect any returns prior to issuing any credit. Returned goods will be subject to 20% Re-stocking charges.

Repairs & Warranty Replacements

In case of any manufacturing defect, we guarantee to replace, repair any such piece(s), free of cost but this does not apply to instruments that are repaired, or hampered/mishandled at the importer's end. Instruments which have been repaired by a source other than

Lapa Master Industry

are void of this warranty.

Merchandise will be repaired or replaced at our discretion.

The instruments lost/damaged during this transit to us will not be our responsibility.

The freight of such articles will be borne by the consignee.

Written By: Production Manager

Signature:

Reviewed By: Quality Assurance Manager

Signature:

Approved By: CEO

Signature:

Dated: 01st January 2021 to 31st December 2021



LAPA MASTER INDUSTRY

Manufacturer & Exporter all kinds of Surgical, Dental Instruments

User Manual

Lapa Master Industry is Manufacturer and Exporter of all kinds of Surgical Instruments for ENT Diagnostic, Ophthalmology & Dermatology Pocket Instruments, Premium ENT Diagnostic and Ophthalmic Instruments, Laryngoscopes, Fibre Optic Laryngoscopes, Laryngoscopes with Direct Illumination, Disposable Laryngoscopes, Laryngoscope Sets, Gynecology Sets,

INSTRUCTION MANUAL – PLEASE READ BEFORE USE SURGICAL INSTRUMENTS

The Lapa Master Industry culture is one of responsibility and accountability, which means we take ownership of our projects with a clear view of the final objective. We are providing the responsiveness to customer needs of a small business, but with the added innovation, advanced manufacturing methods and qualified distribution network of a truly global company. This, in essence, created what Lapa Master Industry stands for today: world-class products and services for our customers.

INNOVATION

At Lapa Master Industry we foster innovation by combining decades of experience in developing and manufacturing diagnostic devices with out-of-the-box, innovative thinking. Our people are always eager to explore new technologies. As a result we are now in the great position of being able to launch innovative products every year, while still having a well-filled product pipeline for the future.

CUSTOMER SATISFACTION

Lapa Master Industry's customers expect nothing less than world-class products and services. Consequently, they are the center of all our efforts and activities, right across the company, from research and development through to manufacturing, marketing and sales. Designed for demanding, everyday use in doctors' practices and hospitals, many of our products are developed through close cooperation between our engineers and specialists from research centers and university hospitals.

During the development phase, our test procedures and facilities lay the foundation for products of outstanding quality, even before the actual manufacturing process starts.

EMPOWERMENT

Our employees are key to our success and we continue to invest in their development. From their initial training when they join Lapa Master Industry, followed by ongoing development programs and corporate management training, our employees are encouraged to contribute through excellence and teamwork. Our objective is to empower people and help them assume responsibility to help us, as a team, achieve our ambitious company goals.

PRODUCT LAUNCHES

Lapa Master Industry Product Launches Surgical Instruments for ENT, Ophthalmology & Dermatology Pocket Instruments - Premium ENT Diagnostic and Ophthalmic Instruments, Laryngoscopes, Fibre Optic (F.O.) Laryngoscopes, Laryngoscopes with Direct Illumination, Disposable Laryngoscopes, Laryngoscope Sets, Gynecology Sets, INTENDED USE These instructions for use are valid for Surgical instruments made of stainless steel, such as Extracting Forceps, instruments for Bone Surgery, Scalpels, Knives, Scissors, Forceps, Clamps, Retractors, Probes, Scalars Spatulas, Suture Root Elevators instruments with special instructions.



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User Manual

Lapa Master Industry sets higher standards than required by norms and guidelines. In order to comply with these exceptionally high internal standards, we only use high-grade materials from reliable suppliers and apply the latest manufacturing methods, with every product having to pass several intermediate and final quality checks. All our manufacturing personnel receive expert training to ensure world-class finishing and quality. Our products come with a minimum two year warranty.

TESTS

Surgical instruments are high-quality products whose proper handling and use will be described in the following. In order to minimize hazards for patients and users these directions must be closely obeyed. Application, maintenance and test of the instruments may only be carried out by specially skilled staff.

HANDLING

The instruments must not be over stressed by twisting or levering as this may lead to damages or cracking of the instruments.

PURPOSE / FIELD OF APPLICATION

These operating instructions are valid for standard surgical instruments of the production of Lapa Master Industry. The user decides according to his specialized knowledge whether the instrument may be suitable for the intended purpose.

DISPOSAL

Instruments that cannot be repaired or reprocessed should be disposed in accordance with the respective disposal guidelines of the hospital.

MATERIALS

Product Materials

We are using Materials as per international standards. We have expertise to remove calculus efficiently from the Materials while retaining its sharpness which is durable for a longer period of time. Lapa Master Industry Instruments hold the highest quality standards throughout the creation of the instrument from raw materials to finished product.

We believe in our products and provide our clients 100% satisfaction guarantee. Lapa Master Industry Instruments that are stainless steel require periodic sharpening. Please feel free to contact us for any information.

QUALITY

100% Satisfaction Guaranteed All our Instruments are produced with high quality stainless steel and are thoroughly checked and inspected during all phases of production, In order to ensure that they correspond to the international standards laid down by the **ISO 13485, ISO 9001, ISO7153-1 EN10088-1 and CE standards** and are confirmation of their compliance to use.

REPROCESSING DIRECTIONS

Surgical instruments may in general only be processed by specially skilled staff possessing the specific knowledge for this kind of work. Detailed information to the maintenance of instruments are available in the



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"Red Brochure" of the www.lapamasterind.com links to laws, norms and specialized maintenance committees can be found.

ADVICE

Instruments made of stainless steel must not be put in physiological saline solutions (NaCl), as longer contact may lead to corrosion damages. Instruments may only be sterilized after a previous cleaning and disinfection.

INSTRUCTION

Due to the design of surgical instruments and the used materials, it is not possible to determine a limited number of reprocessing cycles. The lifetime of surgical instruments is therefore determined by the function / wear of the device. In case of damage the device must be reprocessed before sending back to the manufacturer for repair.

REPROCESSING INSTRUCTIONS

Preparation at the point of use:

Remove gross soiling by submerging the instrument into cold water (<40°C) immediately after use.

Don't use a fixating detergent or hot water (>40°C) as this can cause the fixation of residuals which may influence the result of the reprocess- in process.

TRANSPORTATION

Safe storage and transportation in a closed container to the reprocessing area to avoid any damage and contamination to the environment.

PREPARATION FOR DECONTAMINATION

The devices must be reprocessed in an opened or disassembled state. Instruments must be placed on adequate supports or trays. The nature of the supports or trays must not have any negative influence on the result of the following cleaning and disinfection by rinsing or ultrasonic treatment.

MANUAL PRE CLEANING

Immerse the instrument into cold tap water for at least 5 minutes. Dismantle the instruments If possible and brush under cold tap water until all visible residues are removed. Inner lumen, threads and holes are flushed each with a water jet pistol for minimum 10 seconds in the pulsed mode. Immerse the instrument into an ultrasonic bath with an alkaline or enzymatic detergent (0,5%) and treat with ultrasound for 15 minutes at 40°C.

Remove the instruments from the bath and rinse again with cold tap water.

The cleaning bath must be changed at least once a day, or if required. Any pollution may influence the result of cleaning / disinfection and may favor corrosion.

MANUAL CLEANING

In case of manual cleaning, the cleaning process needs to be adapted to the pre-treatment. The used detergents must be compatible, in order to avoid any negative influence on the cleaning/disinfection result. The detergent must be suitable for the treatment of surgical instruments.



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The manufacturer's instructions regarding concentration and reaction time must be strictly obeyed. Use only soft brushes, no metal brushes. Channels and hollow parts must be rinsed thoroughly. If necessary, a high pressure hose must be used.

- Rinse the instruments with running clear water.
- Dry the instruments thoroughly.
- The cleaning bath must be changed at least once a day, or if required.

CHEMICAL DISINFECTION

The chemical disinfection follows the manual cleaning. A detergent, suitable for surgical instruments made of stainless steel must be used.

PACKAGING STORAGE

Storage of sterilized instruments in appropriate packaging in a dry, clean and dust free environment at modest temperatures of 5°C to 40°C, and at a constant humidity. The distance between shelf and floor should be at least 30cm. Storage duration time is to be determined by the user.

Reprocessing validation study information:

The following testing test devices, materials & machines have been used in this validation study; Detergent:

ADDITIONAL INSTRUCTIONS

If the described chemistry and machines are not available, it is the duty of the user to validate his process.

It is the duty of the user to ensure that the reprocessing processes including resources, materials and personnel are capable to reach the required results. State of the art and often national law requiring these processes and included resources to be validated and maintained properly.

WARRANTY

The products are made of high grade medical stainless steel and are controlled prior to sale. In case of any error or inconvenience, please feel free to contact our service.

Lapa Master Industry cannot provide any guarantee weather the instruments are suitable for the respective intervention. This has to be determined by the user.

Lapa Master Industry does not provide any liability for any damages arising from pure chance. Lapa Master Industry does not provide any liability for any damages deriving from contravening against this manual. In case of using the instruments on patients with Lapa Master Industry does not provide any liability for the reprocessing of the instruments.

Yours very sincerely,

Management and Staff Lapa Master Industry
Lapa Master Industry Product Launches

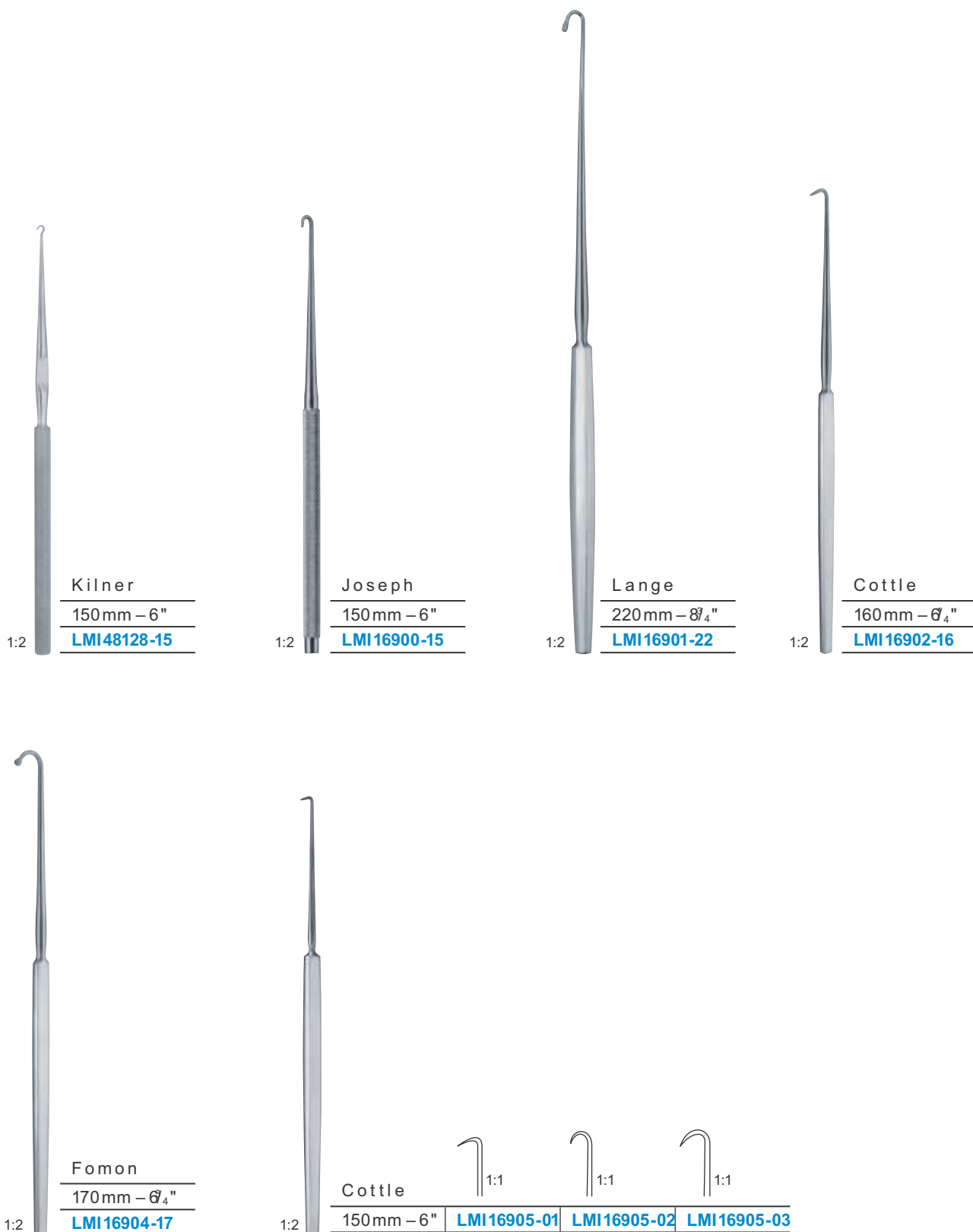


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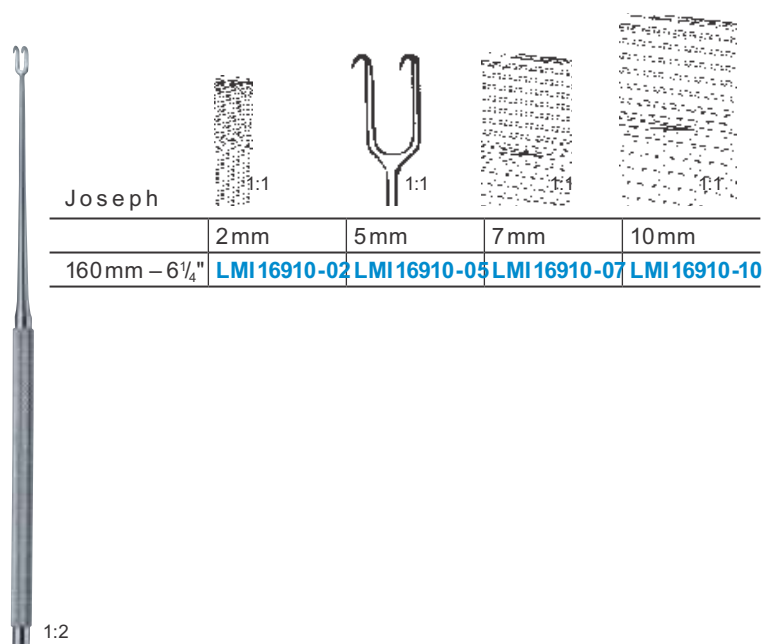
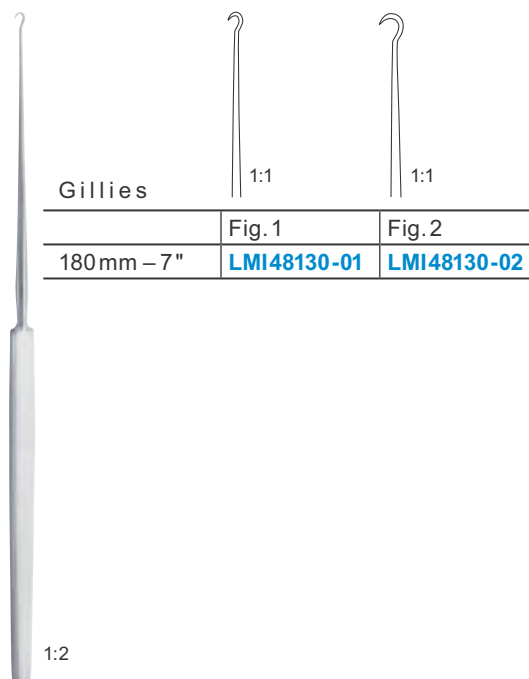
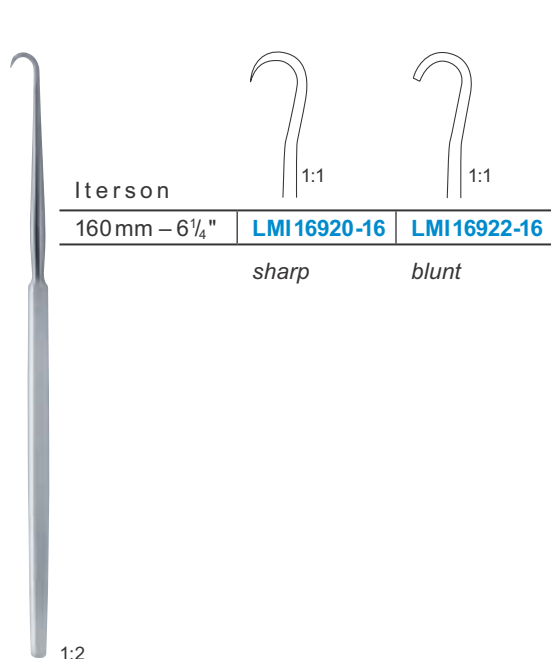
Nasal hooks

Surgery



Nasal hooks

Surgery





Nasal hooks

Surgery



Cottle-
Neivert

200mm – 8"

[LMI16912-20](#)

1:2



Fomon

160mm – 6 1/4"

[LMI16914-16](#)

1:2



Cottle

150mm – 6"

[LMI16915-01](#)

[LMI16915-02](#)

[LMI16915-03](#)

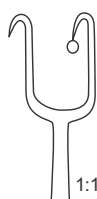
1:2



1:1



1:1



1:1



Neivert

160mm – 6 1/4"

[LMI16916-16](#)

1:2

Trachea and nose retractors

Surgery



Cottle

1:2

1:2

150mm – 6"

[LMI16917-15](#)

[LMI16918-15](#)



1:2

Aufricht

190mm – 6 $\frac{1}{4}$ "

[LMI16906-19](#)



1:2

Kilner

100mm – 4"

[LMI16907-10](#)

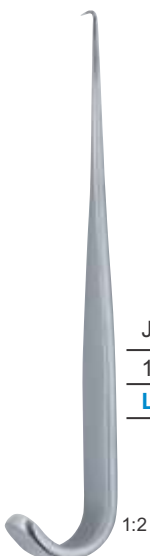


1:2

Converse

120mm – 4 $\frac{3}{4}$ "

[LMI16908-12](#)



1:2

Jackson

150mm – 6"

[LMI16930-15](#)



Lukens

170mm – 6 $\frac{2}{3}$ "

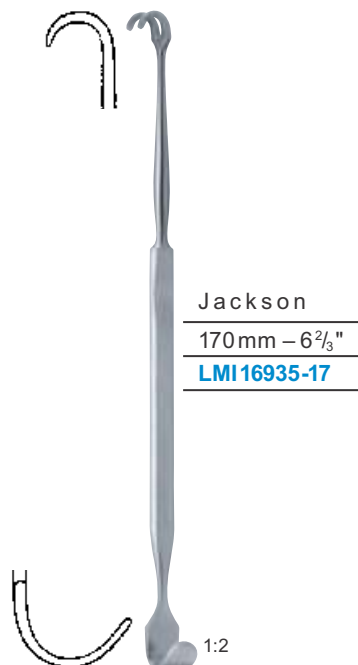
[LMI16933-17](#)

blunt

1:2

Trachea retractors

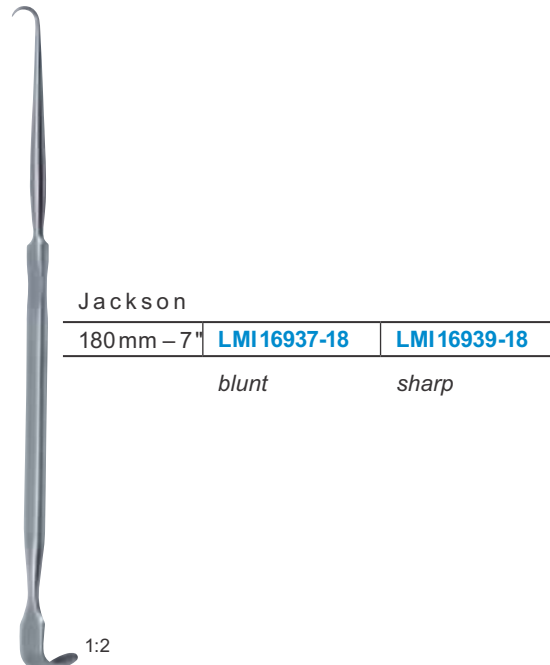
Surgery



Jackson

170mm – 6²/₃"

[LMI16935-17](#)



Jackson

180mm – 7"

[LMI16937-18](#)

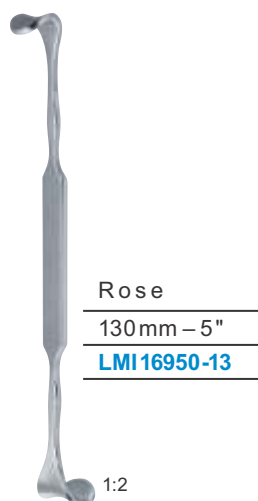
[LMI16939-18](#)

blunt

sharp

Retractors

Surgery



Rose

130mm – 5"

[LMI16950-13](#)



Luer

110mm – 4¹/₄"

[LMI16952-11](#)



Schoenborn

210mm – 8¹/₄"






[LMI16955-21](#)

Retractors

Surgery







1:2





| | | | | | |
|--|---|---|---|--|---|
| Emmet |  |  |  |  |  |
| | 1:1 | 1:1 | 1:1 | 1:1 | 1:1 |
| | Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 |
| 220 mm – 8 ³ / ₄ " | LMI16958-01 | LMI16958-02 | LMI16958-03 | LMI16958-04 | LMI16958-05 |



1:2

| | | | | |
|--|---|---|---|---|
| |  |  |  |  |
| | 1:1 | 1:1 | 1:1 | 1:1 |
| 160 mm – 6 ¹ / ₄ " | LMI17001-16 | LMI17002-16 | LMI17003-16 | LMI17004-16 |

sharp

| | | | | |
|--|---|---|---|---|
| |  |  |  |  |
| | 1:1 | 1:1 | 1:1 | 1:1 |
| 160 mm – 6 ¹ / ₄ " | LMI17011-16 | LMI17012-16 | LMI17013-16 | LMI17014-16 |

blunt

Retractors

Surgery



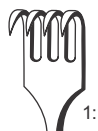
1:2



1:1



1:1



1:1

160 mm – 6 1/4"

LMI 17021-16

LMI 17022-16

LMI 17024-16

flexible, sharp



1:1



1:1



1:1

160 mm – 6 1/4"

LMI 17031-16

LMI 17032-16

LMI 17034-16

flexible, blunt



1:1

Desmarres



1:1



1:1



1:1

x = 8 mm

x = 10 mm

x = 12 mm

160 mm – 6 1/4"

LMI 17038-08

LMI 17038-10

LMI 17038-12



1:1



1:1



1:1

x = 14 mm

x = 16 mm

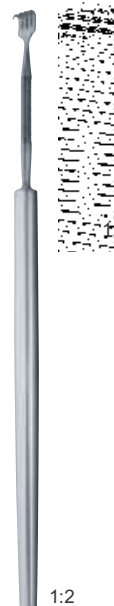
x = 18 mm

160 mm – 6 1/4"

LMI 17038-14

LMI 17038-16

LMI 17038-18



1:2

Knapp
(Rollet)

160 mm – 6 1/4"

LMI 17025-16

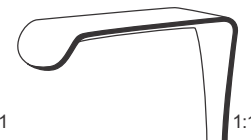
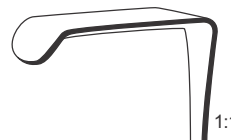
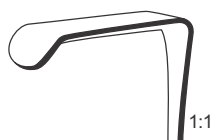
flexible, sharp

Retractors

Surgery

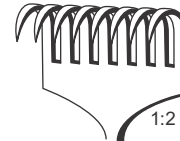
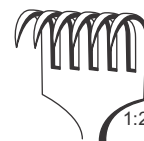


Mini-Langenbeck



| | | | | |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 10mmx6mm | 17 mmx5mm | 20mmx6mm | 22mmx8mm |
| 160 mm – 6 1/4" | LMI17039-10 | LMI17039-17 | LMI17039-20 | LMI17039-22 |

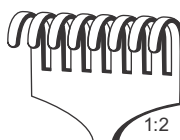
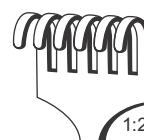
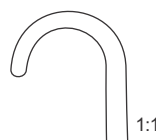
1:2



Kocher

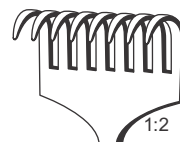
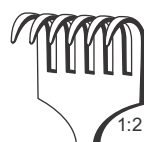
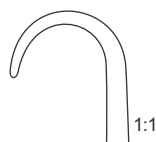
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| 220 mm – 8 3/4" | LMI17041-22 | LMI17042-22 | LMI17043-22 | LMI17044-22 | LMI17046-22 | LMI17048-22 |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

sharp



| | | | | | | |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 220 mm – 8 3/4" | LMI17051-22 | LMI17052-22 | LMI17053-22 | LMI17054-22 | LMI17056-22 | LMI17058-22 |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

blunt



| | | | | | | |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 220 mm – 8 3/4" | LMI17059-01 | LMI17059-02 | LMI17059-03 | LMI17059-04 | LMI17059-06 | LMI17059-08 |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

semi-sharp

1:2

Retractors

Surgery



Volkman

215mm – 8½"

sharp



LMI17061-21



LMI17062-21



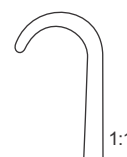
LMI17063-21



LMI17064-21



LMI17066-21



215mm – 8½"

blunt



LMI17071-21



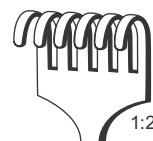
LMI17072-21



LMI17073-21



LMI17074-21



LMI17076-21



215mm – 8½"

semi-sharp



LMI17078-01



LMI17078-02



LMI17078-03



LMI17078-04



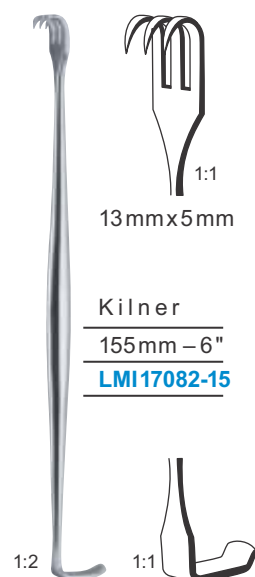
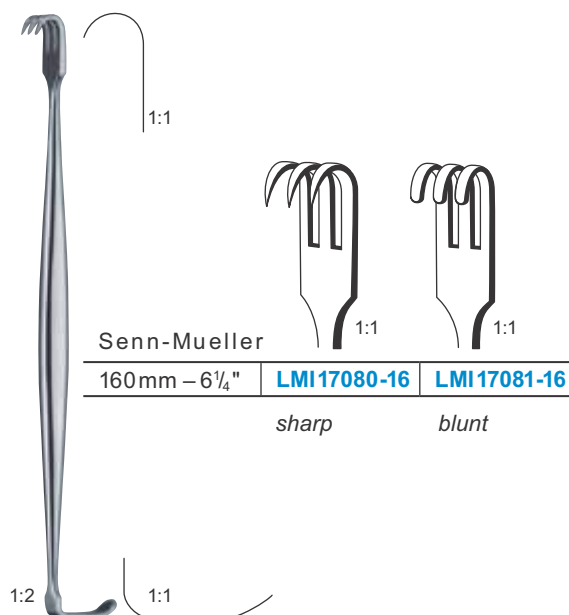
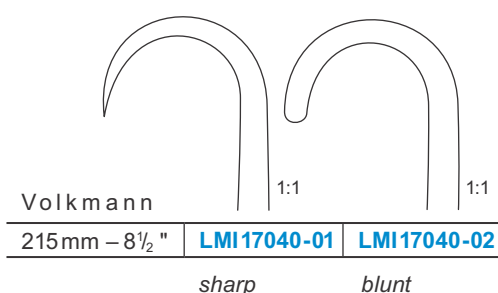
LMI17078-06

Retractors

Surgery

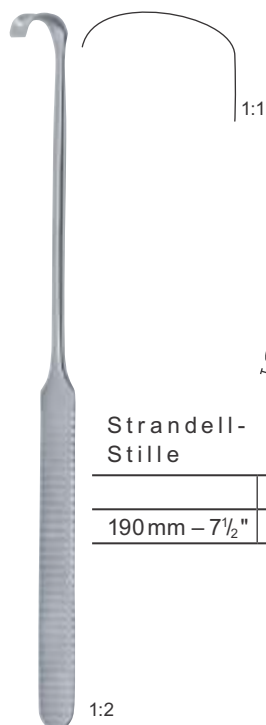


1:2



Retractors

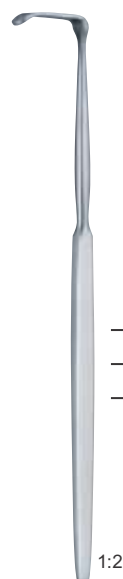
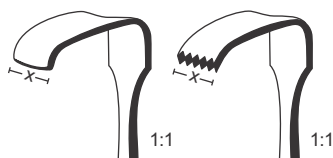
Surgery



Strandell-Stille

| | | |
|--------------|-----------------------------|-----------------------------|
| | 20 mm x 6 mm | 20 mm x 6 mm |
| 190 mm – 7½" | LMI17079-01 | LMI17079-02 |

saw edge



Senn-Green

| | | |
|-------------|-----------------------------|-----------------------------|
| | 20 mm x 6 mm | 10 mm x 6 mm |
| 150 mm – 6" | LMI17083-01 | LMI17083-02 |



Ragnell-Davis

| |
|-----------------------------|
| 140 mm – 5½" |
| LMI17084-14 |

15mmx5,5mm



Cottle

| |
|-----------------------------|
| 150 mm – 6" |
| LMI17085-15 |

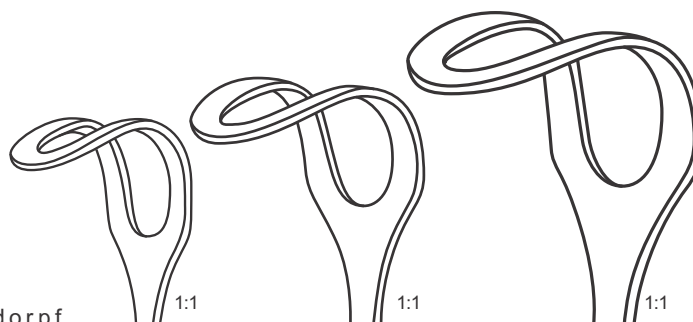


Crile

| |
|-----------------------------|
| 110 mm – 4¼" |
| LMI17088-11 |

Retractors

Surgery



Middeldorpf

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| 14 mm x 17 mm | 20 mm x 22 mm | 26 mm x 30 mm |
| 215 mm – 8½" | 220 mm – 8¾" | 235 mm – 9¼" |
| LMI17085-21 | LMI17086-22 | LMI17087-23 |



Meyerding

| | |
|--------------|-----------------------------|
| 18 mm x 7 mm | 10 mm x 3 mm |
| 180 mm – 7" | LMI17090-18 |
| | LMI17091-18 |



| | |
|--------------|-----------------------------|
| 16 mm x 5 mm | 7 mm x 4 mm |
| 180 mm – 7" | LMI17092-18 |
| | LMI17093-18 |



| | |
|--------------|-----------------------------|
| 10 mm x 4 mm | 7 mm x 4 mm |
| 180 mm – 7" | LMI17094-18 |
| | LMI17095-18 |



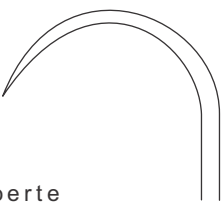
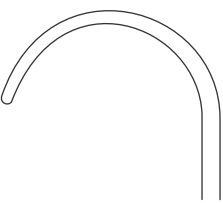
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Retractors

Surgery



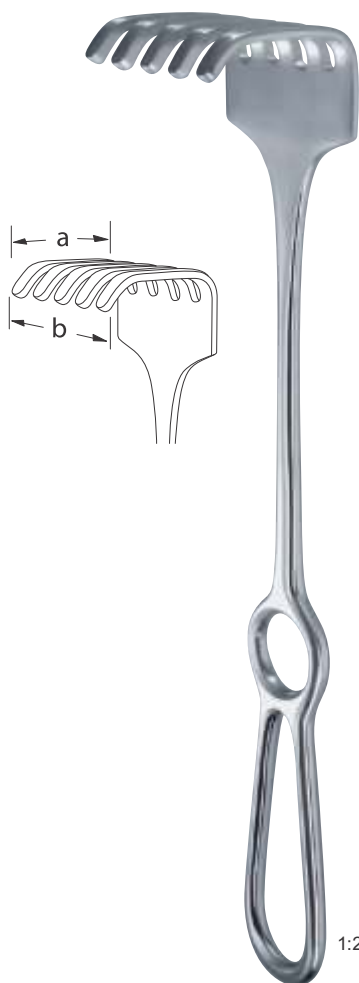
| | | |
|-------------|---|---|
| Koerte |  |  |
| | 1:1 | 1:1 |
| | 26mmx40mm | 26mmx40mm |
| 235mm – 9¼" | LMI17096-08 | LMI17097-08 |
| | sharp | blunt |



| |
|-----------------------------|
| Green |
| 215mm – 8½" |
| LMI17099-21 |

Retractors

Surgery



| | | |
|-------------|--------------------|--------------------|
| Israel | 1:1 | 1:1 |
| | a=40mm – b=40mm | a=45mm – b=50mm |
| 250mm – 9¾" | LMI17100-25 | LMI17101-25 |
| | 4 Teeth | 5 Teeth |

| | | |
|-------------|--------------------|--------------------|
| | 1:1 | 1:1 |
| | a=50mm – b=60mm | a=70mm – b=70mm |
| 250mm – 9¾" | LMI17102-25 | LMI17103-25 |
| | 6 Teeth | 6 Teeth |

1:2



| | | | |
|-------------|--------------------|--------------------|--------------------|
| Langenbeck | 1:1 | 1:1 | 1:1 |
| | Fig. 1 | Fig. 2 | Fig. 3 |
| | 30mm x 11mm | 30mm x 14mm | 30mm x 16mm |
| 220mm – 8¾" | LMI17110-01 | LMI17110-02 | LMI17110-03 |

| | | |
|-------------|--------------------|--------------------|
| | 1:1 | 1:1 |
| | Fig. 4 | Fig. 5 |
| | 40mm x 11mm | 50mm x 11mm |
| 220mm – 8¾" | LMI17110-04 | LMI17110-05 |

1:2

Retractors

Surgery



Langenbeck



| | Fig. 1 | Fig. 2 | Fig. 3 |
|----------------|-----------------------------|-----------------------------|-----------------------------|
| | 30mm x 11mm | 30mm x 14mm | 30mm x 16mm |
| 210mm – 8 1/4" | LMI17112-01 | LMI17112-02 | LMI17112-03 |

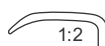


| | Fig. 4 | Fig. 5 |
|----------------|-----------------------------|-----------------------------|
| | 40mm x 11mm | 50mm x 11mm |
| 210mm – 8 1/4" | LMI17112-04 | LMI17112-05 |

1:2



Kocher-Langenbeck
(Obwegeser)



| | | | | |
|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 25mm x 7mm | 35mm x 8mm | 35mm x 11mm | 35mm x 15mm |
| 215mm – 8 1/2" | LMI17114-01 | LMI17114-02 | LMI17114-03 | LMI17114-04 |



| | | | |
|----------------|-----------------------------|-----------------------------|-----------------------------|
| | 42mm x 10mm | 55mm x 12mm | 70mm x 14mm |
| 215mm – 8 1/2" | LMI17114-05 | LMI17114-06 | LMI17114-07 |



| | | |
|----------------|-----------------------------|-----------------------------|
| | 80mm x 12mm | 80mm x 16mm |
| 215mm – 8 1/2" | LMI17114-08 | LMI17114-09 |

1:2

Retractors

Surgery



Cushing



| | x=8mm | x=10mm | x=12mm | x=14mm | x=16mm | x=18mm |
|-------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 200mm – 8" | LMI17200-08 | LMI17200-10 | LMI17200-12 | LMI17200-14 | LMI17200-16 | LMI17200-18 |
| 240mm – 9½" | LMI17201-08 | LMI17201-10 | LMI17201-12 | LMI17201-14 | LMI17201-16 | LMI17201-18 |



Obwegeser

1:1

1:1

| | | |
|-------------|-----------------------------|-----------------------------|
| | 42mm x 13mm | 60mm x 12mm |
| 220mm – 8¾" | LMI52715-01 | LMI52715-02 |

1:1

| | |
|-------------|-----------------------------|
| | 80mm x 16mm |
| 220mm – 8¾" | LMI52715-03 |

Retractors

Surgery

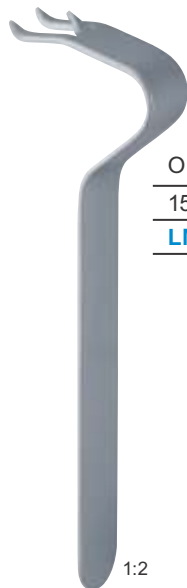


Obwegeser

1:1

1:1

| | | |
|-----------------|-----------------------------|-----------------------------|
| | 44 mm x 9,5 mm | 70 mm x 11,5 mm |
| 220 mm – 8 3/4" | LMI52717-22 | LMI52719-22 |



Obwegeser

155 mm – 6"

[LMI52723-16](#)

1:2



Obwegeser

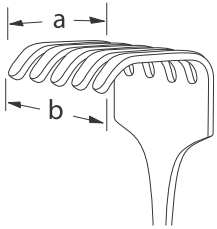
| | | |
|-----------------|-----------------------------|-----------------------------|
| | x = 8 mm | x = 10 mm |
| 160 mm – 6 1/4" | LMI52725-08 | LMI52725-10 |

malleable

1:2

Retractors

Surgery



Ollier

| | | |
|-------------|-----------------------------|-----------------------------|
| | a=36mm – b=30mm | a=36mm – b=60mm |
| 225mm – 8¾" | LMI17105-03 | LMI17105-04 |



Kocher

| | | |
|-------------|-----------------------------|-----------------------------|
| | 55mmx11mm | 40mmx12mm |
| 210mm – 8¼" | LMI17115-21 | LMI17116-21 |



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Retractors

Surgery



1:2

Langenbeck

| | |
|-------------|--------------------|
| | 60mmx20mm |
| 210mm – 8¼" | LMI17117-60 |



1:2

Langenbeck

| | |
|-------------|---------------------|
| | 85mmx15mm |
| 210mm – 8¼" | LMI 17117-85 |

Handle vertical to the blade

Retractors

Surgery

| | | | |
|---|-----------------------------|-----|-----------------------------|
| Sauerbruch | | 1:1 | 1:1 |
| | 45mm x 15mm | | 75mm x 20mm |
| 225mm – 8 ³ / ₄ " | LMI17120-22 | | LMI17121-22 |

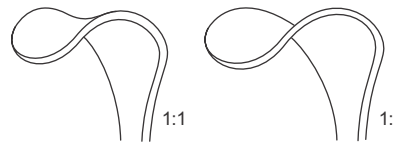
| | |
|---|-----------------------------|
| | 60mm x 23mm |
| 220mm – 8 ³ / ₄ " | LMI17122-22 |



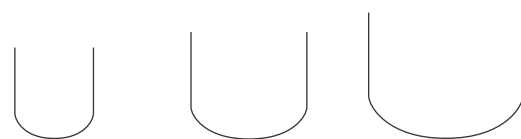
Lahey
190mm – 7¹/₂"
28mm x 6mm
[LMI17118-19](#)



| | | | |
|---|-----------------------------|-----|-----------------------------|
| Kocher | | 1:1 | 1:1 |
| | 19mm x 12mm | | 21mm x 14mm |
| 190mm – 7 ¹ / ₂ " | LMI17125-01 | | LMI17125-02 |



| | | | |
|---|-----------------------------|-----------------------------|-----------------------------|
| Kocher | | | |
| | 40mm x 10mm | 40mm x 15mm | 40mm x 20mm |
| 220cm – 8 ³ / ₄ " | LMI17127-01 | LMI17127-02 | LMI17127-03 |

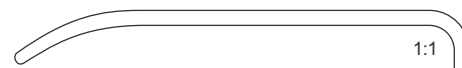


Retractors

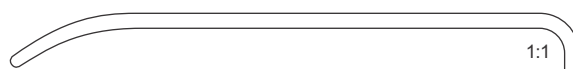
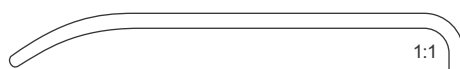
Surgery



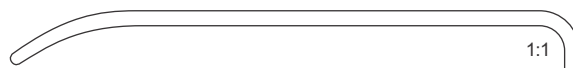
Kocher



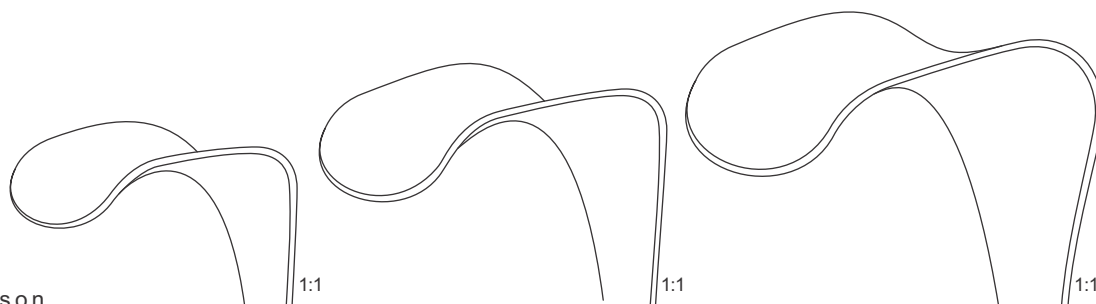
| | | |
|------------|------------------------------|------------------------------|
| | 40mmx18mm | 60mmx20mm |
| 230mm – 9" | LMI 17128-18 | LMI 17128-20 |



| | | |
|------------|------------------------------|------------------------------|
| | 60mmx25mm | 75mmx30mm |
| 230mm – 9" | LMI 17128-25 | LMI 17128-30 |

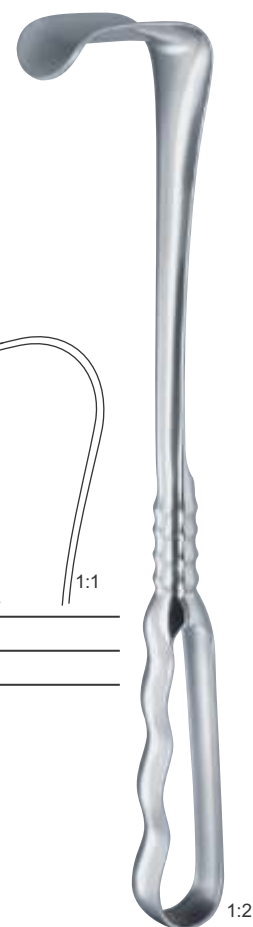


| | |
|------------|------------------------------|
| | 75mmx40mm |
| 230mm – 9" | LMI 17128-40 |



Richardson

| | | | |
|-------------|------------------------------|------------------------------|------------------------------|
| | 28mmx20mm | 36mmx28mm | 44mmx38mm |
| 240mm – 9½" | LMI 17130-24 | LMI 17131-24 | LMI 17132-24 |



Retractors

Surgery



Richardson-Eastman

1:2



Richardson

1:2



Kelly

1:2

| | Fig. 1 | Fig. 2 |
|-----------------------------|---------------|-----------------------------|
| | 280 mm – 11" | 260 mm – 10 $\frac{1}{4}$ " |
| | 49 mm x 38 mm | 36 mm x 28 mm |
| | 63 mm x 49 mm | 28 mm x 20 mm |
| LMI17135-01 | x | |
| LMI17135-02 | | x |
| LMI17135-00 | x | x |

| |
|-----------------------------|
| 240 mm – 9 $\frac{1}{2}$ " |
| 52 mm x 22 mm |
| LMI17133-24 |

| |
|-----------------------------|
| 260 mm – 10 $\frac{1}{4}$ " |
| 65 mm x 50 mm |
| LMI17134-26 |



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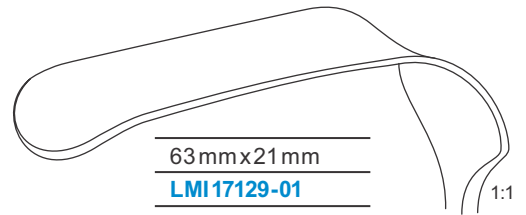
Retractors

Surgery



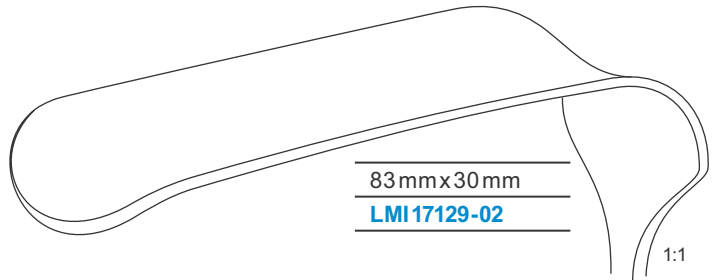
Hoesel
260mm – 10 1/4"

1:2



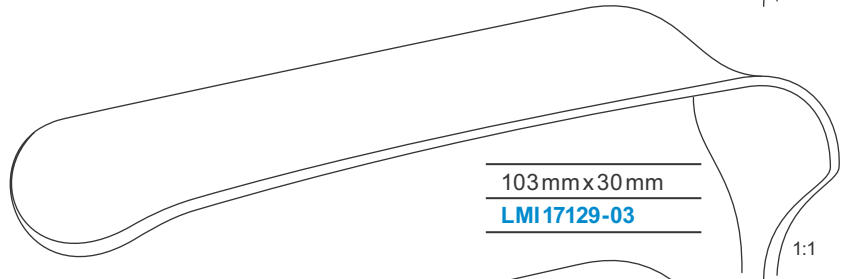
63mmx21mm
LMI17129-01

1:1



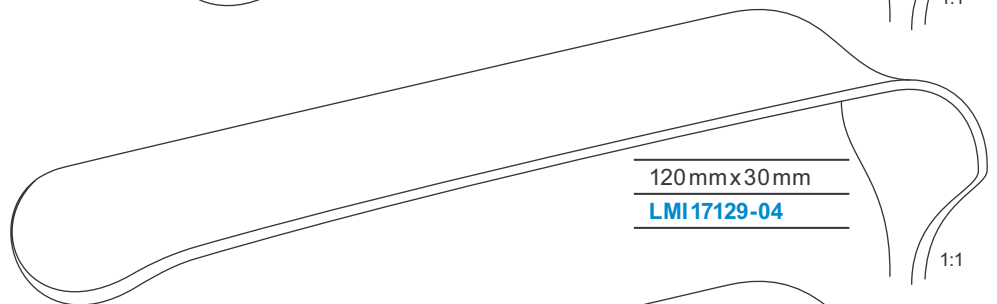
83mmx30mm
LMI17129-02

1:1



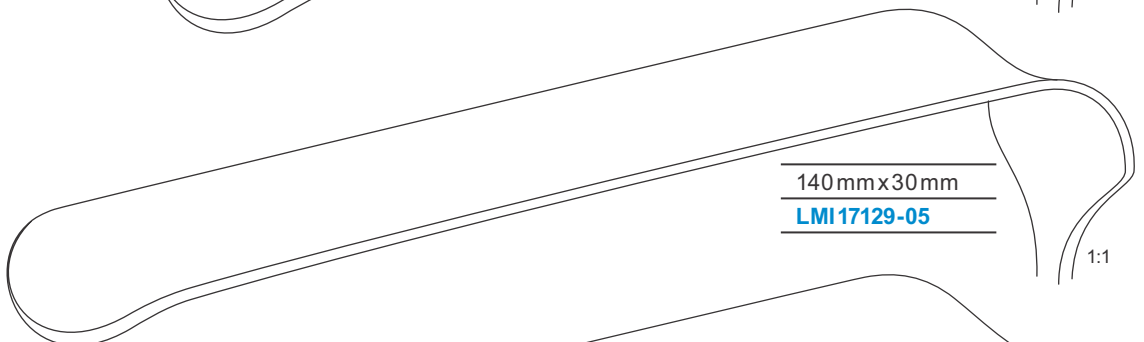
103mmx30mm
LMI17129-03

1:1



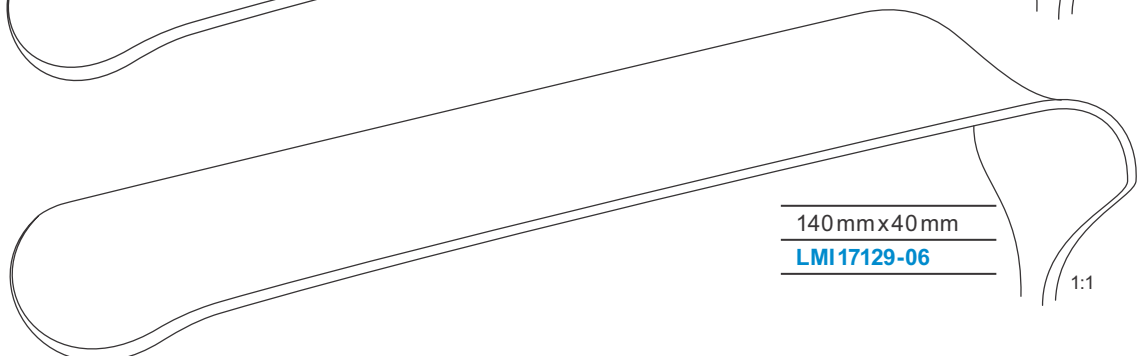
120mmx30mm
LMI17129-04

1:1



140mmx30mm
LMI17129-05

1:1



140mmx40mm
LMI17129-06

1:1

Retractors

Surgery



Meyerding

200mm – 8"

50mm x 16mm

[LMI17140-20](#)

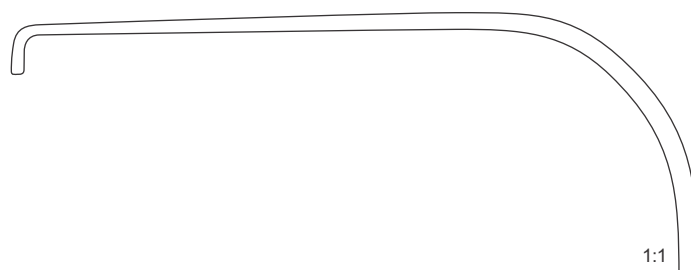
1:1

1:1

220mm – 8 $\frac{3}{4}$ "

75mm x 25mm

[LMI17141-22](#)



1:1

240mm – 9 $\frac{1}{2}$ "

90mm x 50mm

[LMI17142-24](#)



Fritsch

235mm – 9 $\frac{1}{4}$ "

240mm – 9 $\frac{1}{2}$ "

250mm – 9 $\frac{3}{4}$ "

250mm – 9 $\frac{3}{4}$ "

255mm – 10"

265mm – 10 $\frac{1}{2}$ "

a=37mm – b=31mm

a=38mm – b=40mm

a=43mm – b=51mm

a=49mm – b=61mm

a=48mm – b=75mm

a=65mm – b=85mm

[LMI17150-24](#)

[LMI17151-24](#)

[LMI17152-24](#)

[LMI17153-24](#)

[LMI17154-24](#)

[LMI17155-24](#)



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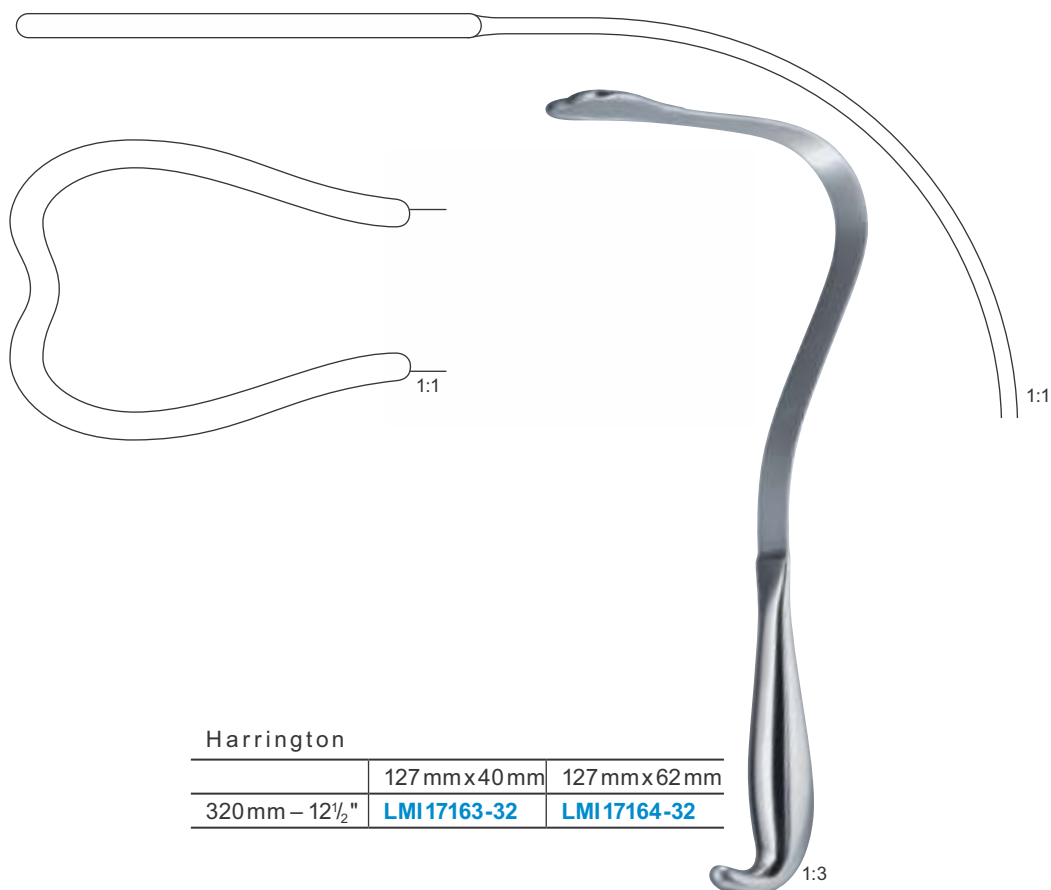
Retractors

Surgery



Simon

| | | |
|-------------|-----------------------------|-----------------------------|
| | 115mmx22mm | 115mmx27mm |
| 280cm – 11" | LMI17160-28 | LMI17161-28 |



Harrington

| | | |
|--------------|-----------------------------|-----------------------------|
| | 127mmx40mm | 127mmx62mm |
| 320mm – 12½" | LMI17163-32 | LMI17164-32 |

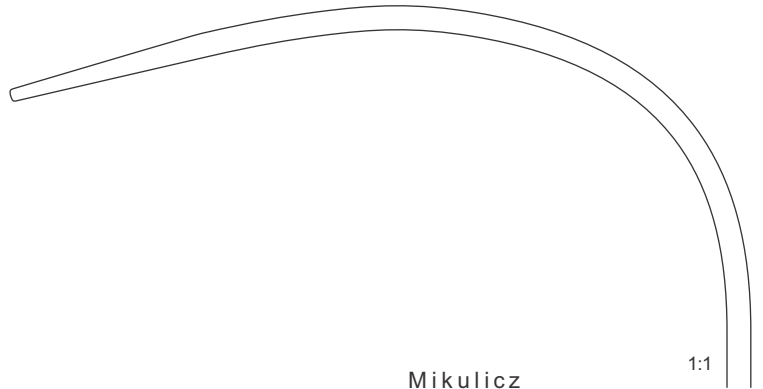


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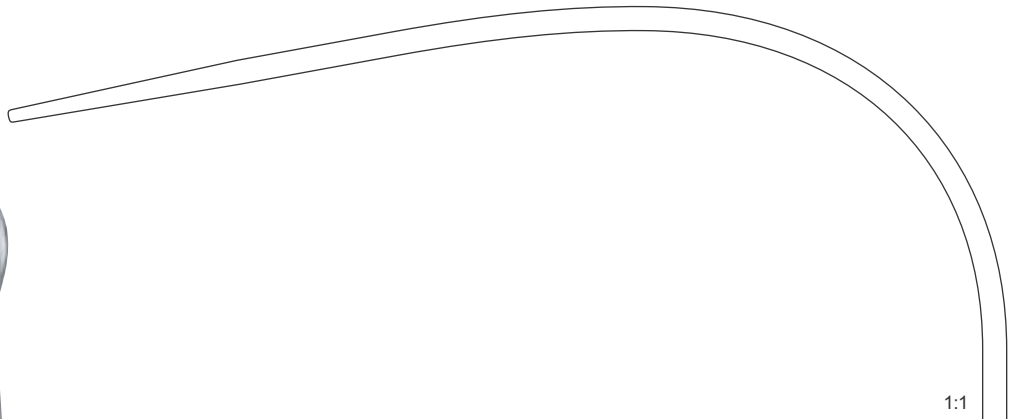
Mikulicz

1:1

95mmx35mm

260mm – 10 $\frac{1}{4}$ "

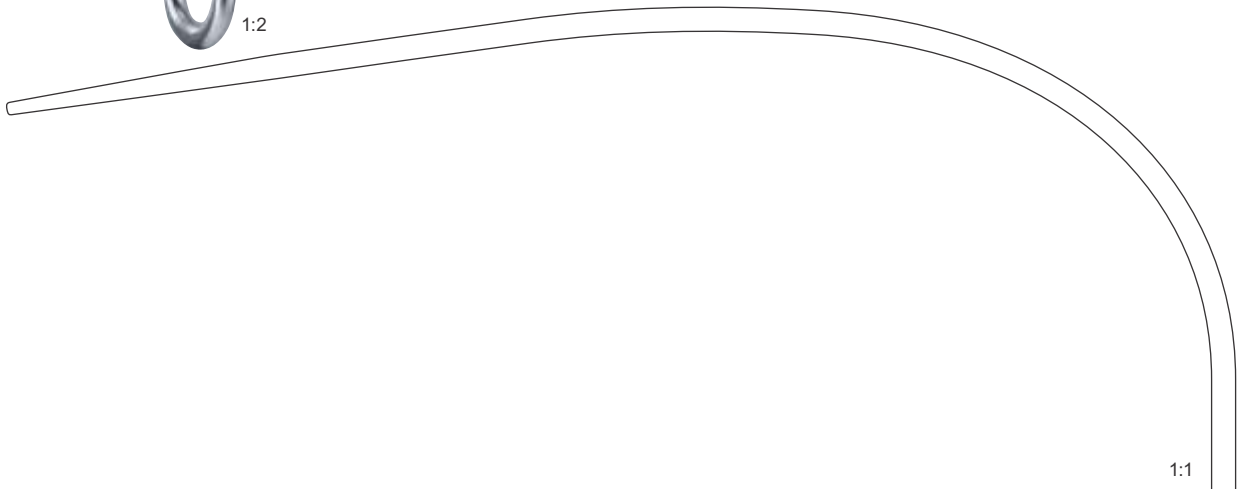
LMI 17170-26



1:1

120mmx50mm

LMI 17171-26



1:1

150mmx50mm

LMI 17172-26

Retractors

Surgery



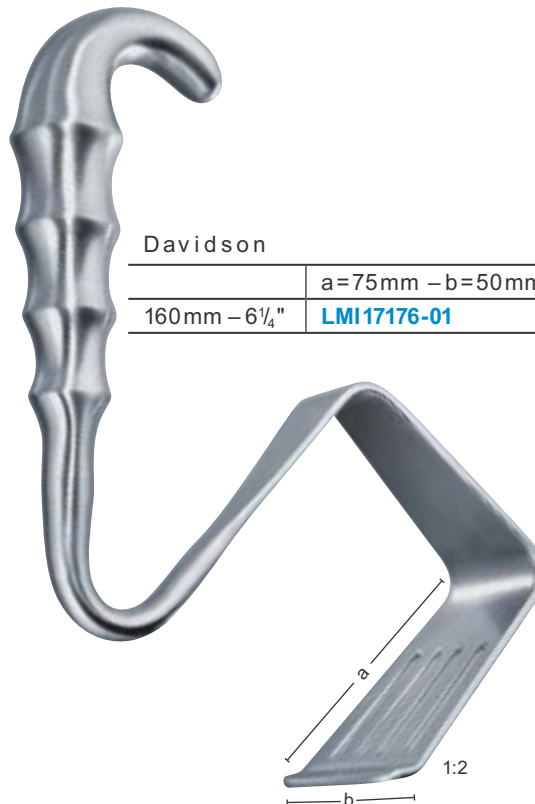
Mikulicz

260 mm – 10 1/4"

90 mm x 50 mm

[LMI17174-26](#)

1:2



Davidson

a=75 mm – b=50 mm

160 mm – 6 1/4"

[LMI17176-01](#)

a=75 mm – b=90 mm

[LMI17176-02](#)

1:2

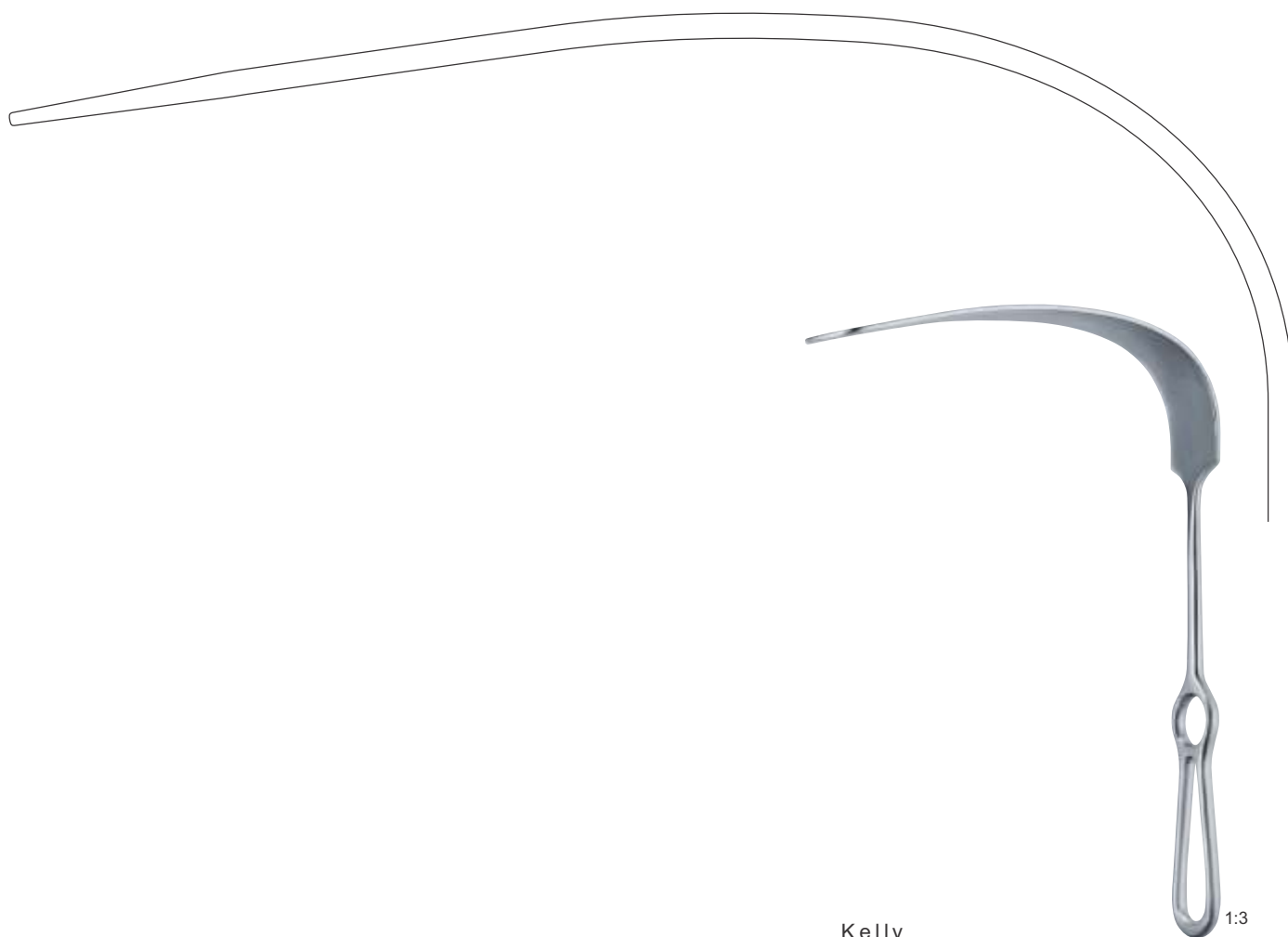


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Retractors

Surgery



Kelly

1:3

| | | |
|----------------------------|-----------------------------|-----------------------------|
| | 190mmx38mm | 190mmx57mm |
| 270mm – 10 $\frac{3}{4}$ " | LMI17178-01 | LMI17178-02 |

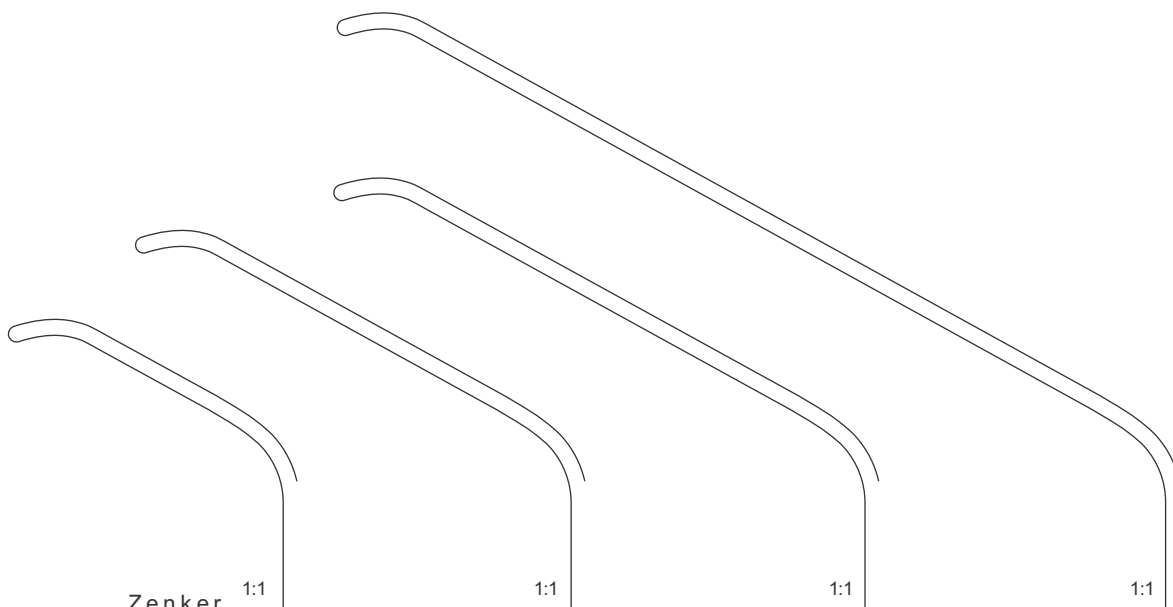


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Retractors

Surgery



| | | | |
|---|--|--|--|
| Zenker 1:1 | 1:1 | 1:1 | 1:1 |
| 250mm – 9 ³ / ₄ " | 260mm – 10 ¹ / ₄ " | 275mm – 10 ³ / ₄ " | 290mm – 11 ¹ / ₂ " |
| 35mmx8mm | 60mmx12mm | 75mmx12mm | 120mmx12mm |
| LMI17179-01 | LMI17179-02 | LMI17179-03 | LMI17179-04 |

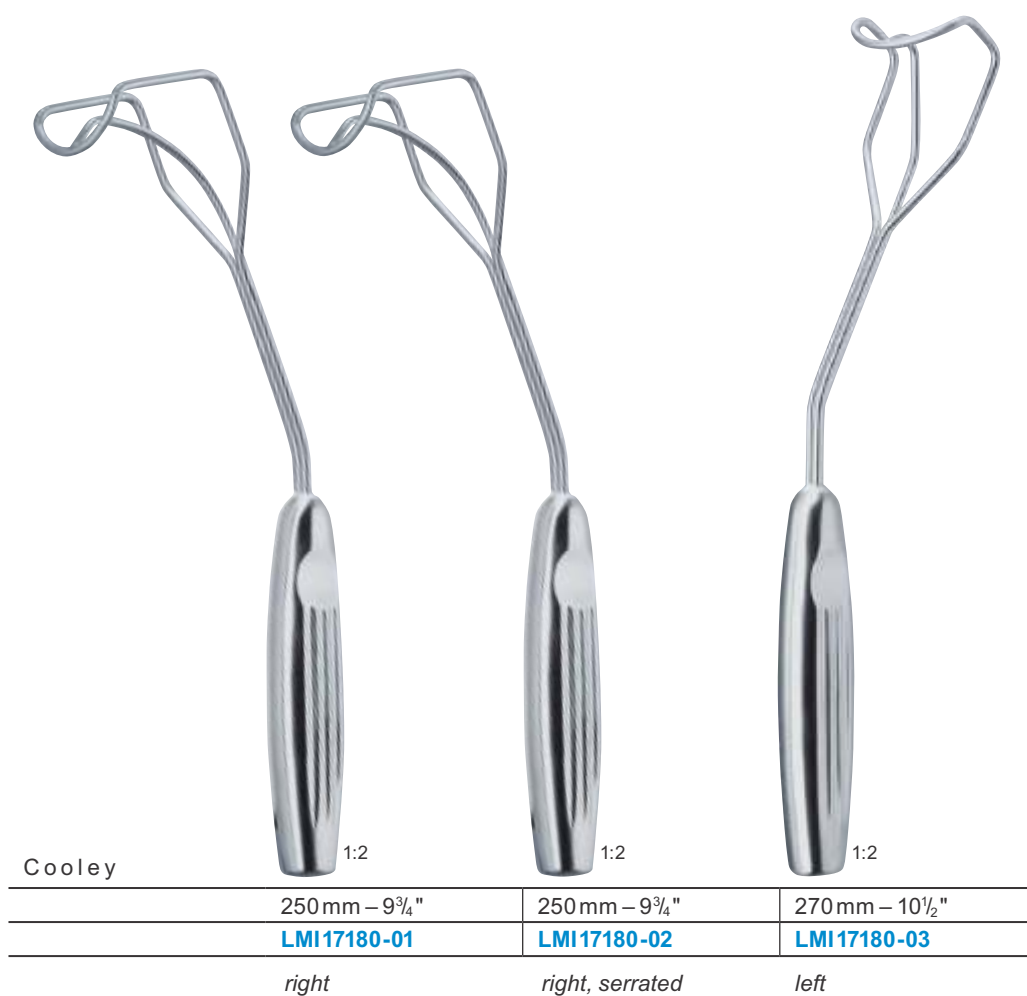


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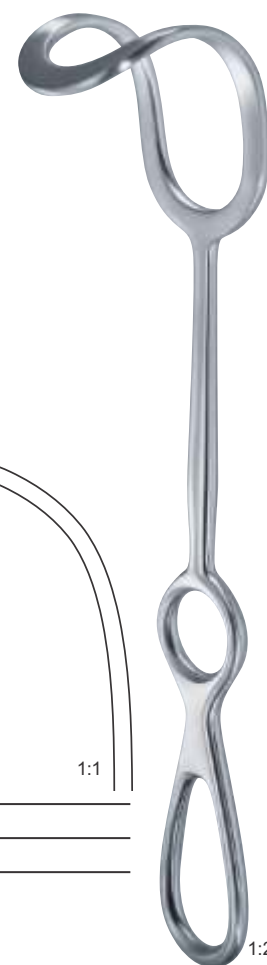
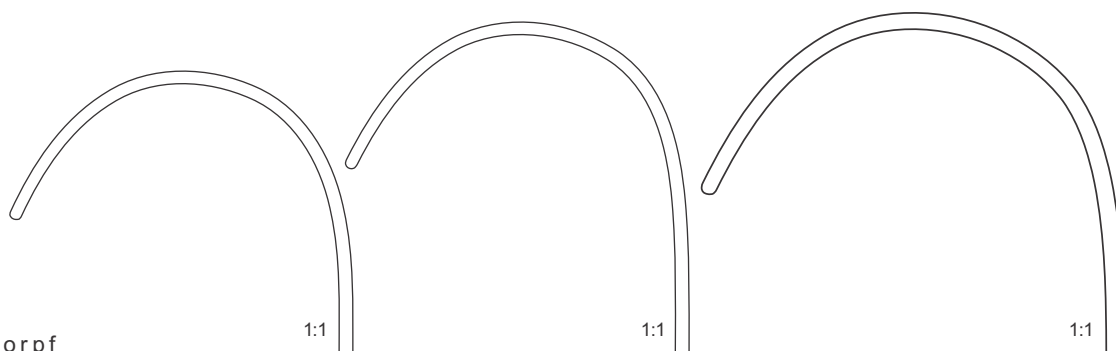


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Retractors

Surgery



| | | | |
|-------------|-----------------------------|-----------------------------|-----------------------------|
| Mideeldorpf | 1:1 | 1:1 | 1:1 |
| | 45mmx45mm | 45mmx50mm | 55mmx70mm |
| 255mm – 10" | LMI17181-01 | LMI17181-02 | LMI17181-03 |



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Retractors

Surgery

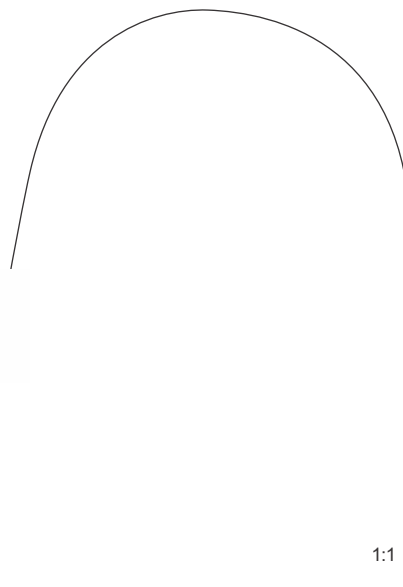


Doyen

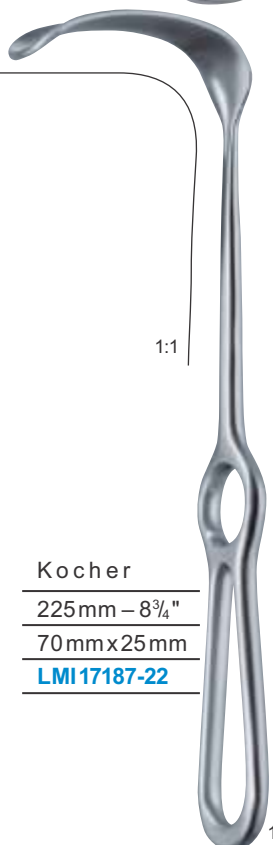
250mm – 9 $\frac{3}{4}$ "

50mmx85mm

[LMI17184-25](#)



1:1

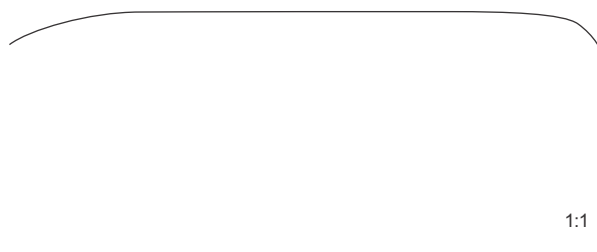


Kocher

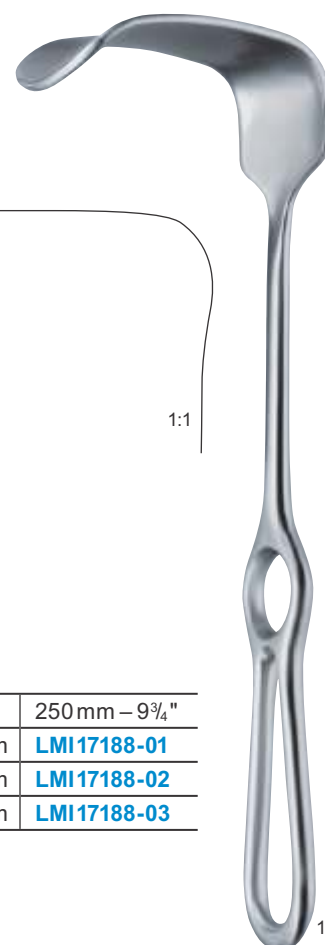
225mm – 8 $\frac{3}{4}$ "

70mmx25mm

[LMI17187-22](#)



1:1



1:2

Kocher

250mm – 9 $\frac{3}{4}$ "

80mmx45mm

[LMI17188-01](#)

80mmx55mm

[LMI17188-02](#)

80mmx65mm

[LMI17188-03](#)



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Retractors

Surgery



Tuffier

230mm – 9"

64mm x 60mm

[LMI17189-23](#)



Martin

250mm – 9 3/4"

105mm x 27mm

[LMI17192-25](#)



Sauerbruch



250mm – 9 3/4"

125mm x 37mm

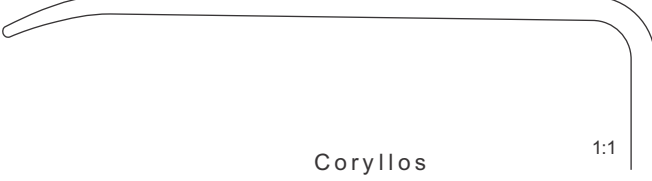
[LMI17196-25](#)

Retractors


Surgery

| | | |
|----------------------------|---|--|
| Heaney |  1:1 |  1:1 |
| | 45mmx25mm | 73mmx28mm |
| 270mm – 10 $\frac{3}{4}$ " | LMI17193-01 | LMI17193-02 |

| |
|--|
|  1:1 |
| 82mmx28mm |
| LMI17193-03 |

| | |
|---------------------------|---|
| Coryllos |  1:1 |
| | 82mmx22mm |
| 240mm – 9 $\frac{1}{2}$ " | LMI17194-01 |

| |
|---|
|  1:1 |
| 108mmx43mm |
| LMI17194-02 |

| |
|--|
|  1:1 |
| 115mmx65mm |
| LMI17194-03 |





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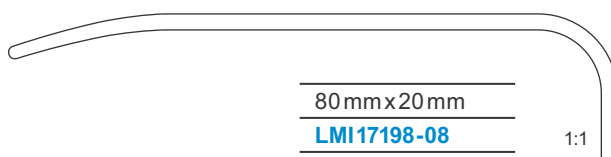
Retractors

Surgery



Brunner
250mm – 9 $\frac{3}{4}$ "

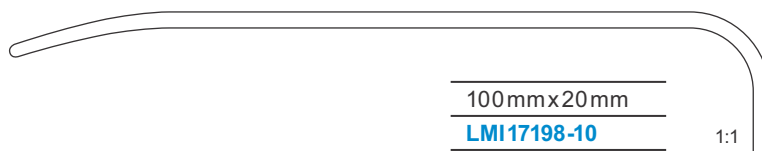
1:2



80mm x 20mm

LMI17198-08

1:1



100mm x 20mm

LMI17198-10

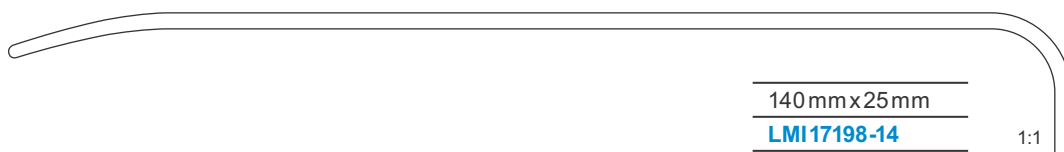
1:1



120mm x 25mm

LMI17198-12

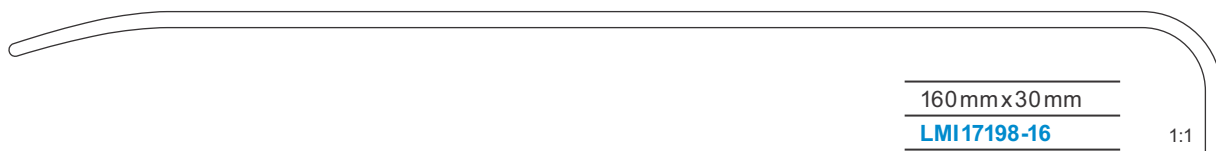
1:1



140mm x 25mm

LMI17198-14

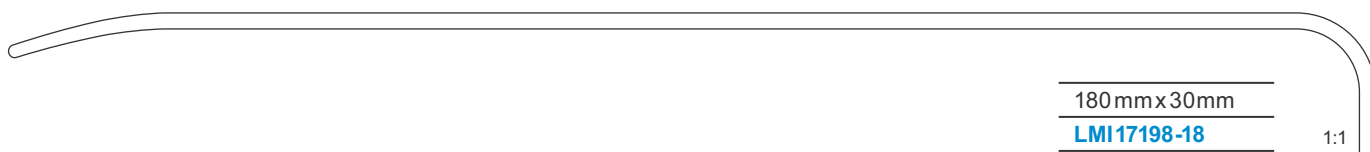
1:1



160mm x 30mm

LMI17198-16

1:1



180mm x 30mm

LMI17198-18

1:1



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Manufacturer & Exporter all kinds of Surgical, Dental Instruments

Retractors

Surgery



Retractors

Surgery

1:1



Gil-Vernet



1:1



1:1



1:1



1:1



1:1



1:1

| | x=8 mm | x=11 mm | x=15 mm | x=17 mm | x=20 mm | x=23 mm |
|--------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 240 mm – 9½" | LMI17203-08 | LMI17203-11 | LMI17203-15 | LMI17203-17 | LMI17203-20 | LMI17203-23 |

malleable

1:2



St. Marks

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| 290 mm – 11½" | 325 mm – 12¾" | 330 mm – 13" |
| 130 mm x 60 mm | 180 mm x 60 mm | 180 mm x 60 mm |
| LMI17214-01 | LMI17214-02 | LMI17214-03 |



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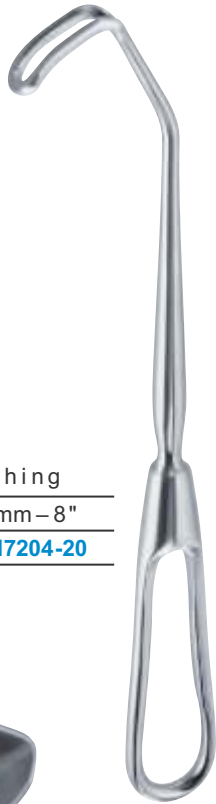
Retractors

Surgery

Cushing

200mm – 8"

[LMI17204-20](#)



1:2

Koerte

280mm – 11"

120mm x 47mm

[LMI17212-28](#)



1:2



1:2

Morris

210mm – 8 $\frac{1}{4}$ "

50mm x 55mm

[LMI17215-21](#)



1:2

Morris

| | | | |
|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 70mm x 40mm | 70mm x 50mm | 70mm x 65mm |
| 245mm – 9 $\frac{3}{4}$ " | LMI17900-40 | LMI17900-50 | LMI17900-65 |



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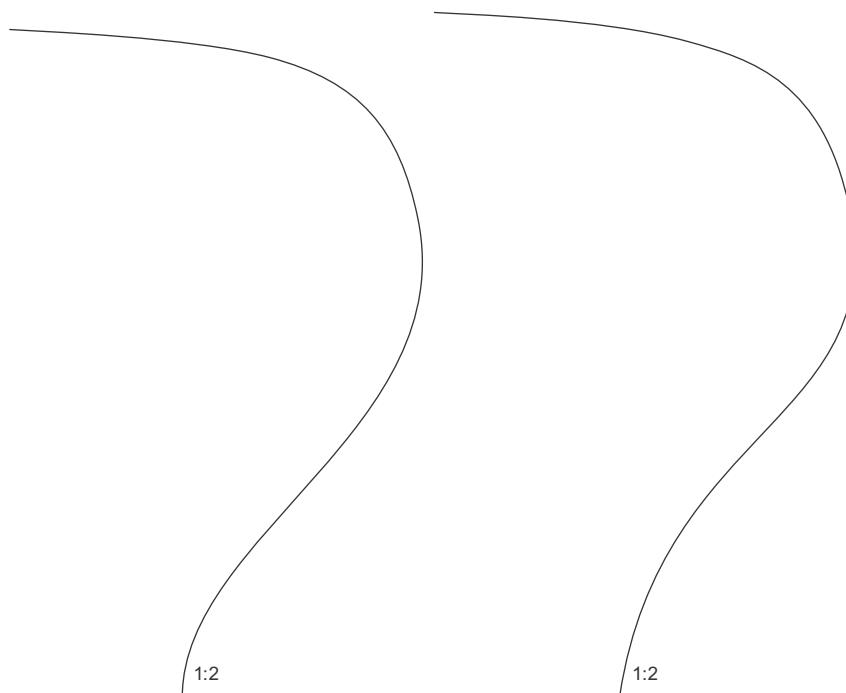
Retractors

Surgery



Deaver

| | | | |
|---------------|-----------------------------|-----------------------------|-----------------------------|
| | x=25 mm | x=38 mm | x=50 mm |
| 315 mm – 12½" | LMI17285-25 | LMI17285-38 | LMI17285-50 |



| | |
|-----------------------------|-----------------------------|
| x=75 mm | x=100 mm |
| LMI17285-75 | LMI17286-10 |

Retractors

Surgery



| Deaver | 180mm – 7" | 215mm – 8½" | 230mm – 9" |
|--------|-----------------------------|-----------------------------|-----------------------------|
| | x = 19mm | x = 22mm | x = 25mm |
| | LMI17219-18 | LMI17222-21 | LMI17225-23 |



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Retractors

Surgery



Deaver

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| 300mm – 12" | 330mm – 13" | 360mm – 14 $\frac{1}{4}$ " |
| x=25mm | x=25mm | x=25mm |
| LMI17225-30 | LMI17225-33 | LMI17225-36 |



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Retractors

Surgery



Deaver

1:2

1:2

1:2

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| 300mm – 12" | 300mm – 12" | 300mm – 12" |
| x=38mm | x=50mm | x=75mm |
| LMI17238-30 | LMI17250-30 | LMI17275-30 |

Retractors

Surgery



Roux

| | Fig. 1 | Fig. 2 | Fig. 3 |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 140mm – 5½" | 150mm – 6" | 170mm – 6¾" |
| | 24mmx20mm | 29mmx26mm | 33mmx29mm |
| | 30mmx28mm | 36mmx36mm | 38mmx43mm |
| | LMI17301-14 | LMI17302-15 | LMI17303-17 |
| LMI17300-00 | x | x | x |

Set



Parker

| | Fig. 1 | Fig. 2 |
|-----------------------------|-------------|-------------|
| | 135mm – 5¼" | 135mm – 5¼" |
| | 18mmx15mm | 22mmx15 mm |
| LMI17305-00 | x | x |

Set

Retractors

Surgery

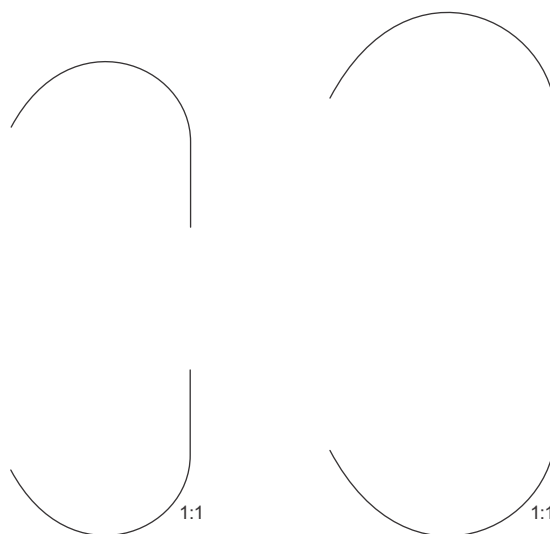


1:2

Parker

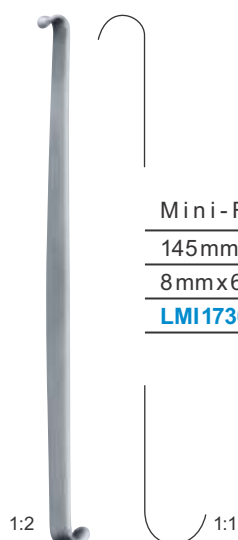
| 180 mm – 7" | Fig. 1 | Fig. 2 |
|--------------------|---------------|---------------|
| | 26 mm x 25 mm | 29 mm x 25 mm |
| | 27 mm x 25 mm | 27 mm x 25 mm |
| LMI17305-18 | x | x |

Set



1:1

1:1



1:2

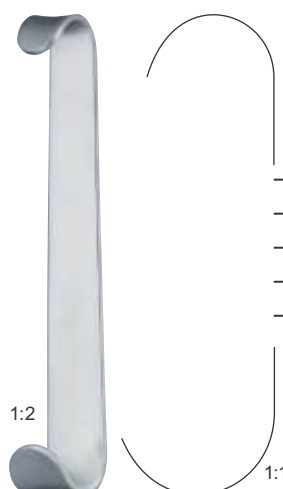
Mini-Roux

145 mm – 5³/₄"

8 mm x 6 mm

LMI17306-01

1:1



1:2

Baby-Roux

130 mm – 5"

17 mm x 16 mm

18 mm x 22 mm

LMI17306-02

1:1

Retractors

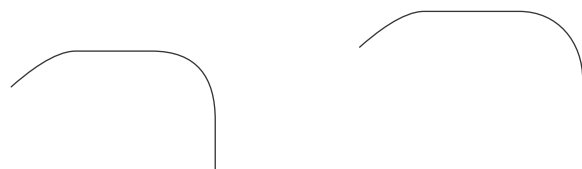
Surgery



Mayo-Collin

| 150mm – 6" | Fig. 1 | Fig. 2 |
|--------------------|-------------|-------------|
| | 25mm x 18mm | 28mm x 19mm |
| | 28mm x 18mm | 32mm x 19mm |
| LMI17307-00 | x | x |

Set



Parker-Longenbeck
(US Army)

| 210mm – 8 $\frac{1}{4}$ " | Fig. 1 | Fig. 2 |
|---------------------------|-------------|-------------|
| | 21mm x 24mm | 25mm x 24mm |
| | 40mm x 15mm | 45mm x 15mm |
| LMI17309-00 | x | x |

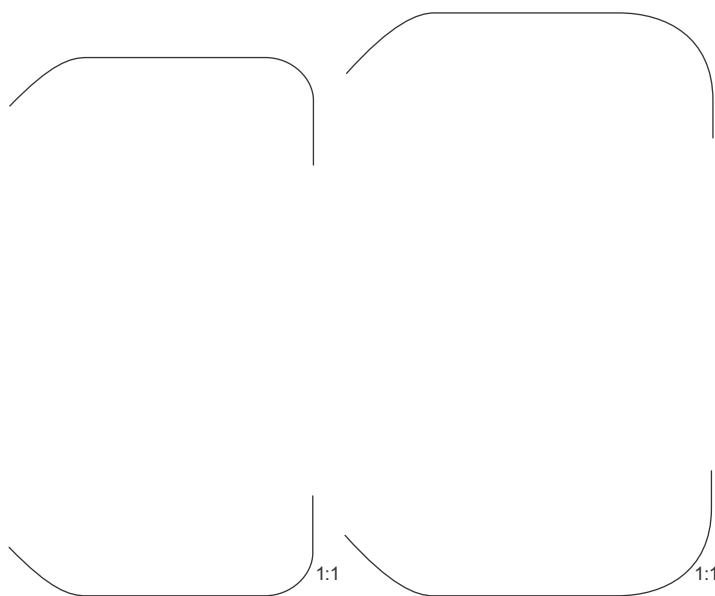
Set





Retractors

Surgery



Mathieu

200mm – 8"

| | Fig. 1 | Fig. 2 |
|--|-------------|-------------|
| | 42mm x 13mm | 47mm x 13mm |
| | 42mm x 26mm | 46mm x 26mm |

LMI17310-00

x

x

Set

1:2

Retractors

Surgery



1:2

Farabeuf

120mm – 4 $\frac{3}{4}$ "

Fig. 1

26mm x 10mm

30mm x 12mm

LMI17311-12

Set

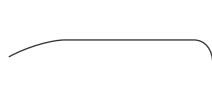
x

Fig. 2

30mm x 10mm

34mm x 12mm

x



1:1



1:1



1:2

Farabeuf

150mm – 6"

Fig. 1

23mm x 16mm

26mm x 16mm

LMI17312-15

Set

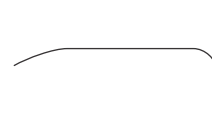
x

Fig. 2

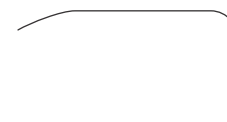
27mm x 16mm

30mm x 16mm

x



1:1



1:1

Self-retaining retractors

Surgery



Alm

| | | | |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|
| 70mm – 2 $\frac{3}{4}$ " | LMI17330-07 | LMI17330-17 | LMI17331-07 |
| 100mm – 4" | LMI17330-10 | LMI17330-20 | LMI17331-10 |

sharp

sharp

blunt

mousse

romo

smusso



Holtzheimer

| | | |
|------------|-----------------------------|-----------------------------|
| 100mm – 4" | LMI17336-10 | LMI17337-10 |
|------------|-----------------------------|-----------------------------|

sharp

blunt



Bose

| | |
|--------------------------|-----------------------------|
| 70mm – 2 $\frac{3}{4}$ " | LMI17395-07 |
|--------------------------|-----------------------------|



Jansen

| | | |
|---------------------------|-----------------------------|-----------------------------|
| 100mm – 4" | LMI17480-01 | LMI17480-02 |
| 110mm – 4 $\frac{1}{4}$ " | | LMI17482-11 |

sharp

blunt

Self-retaining retractors

Surgery



Cloward-Contour

140mm – 5½"

[LMI17406-01](#)

[LMI17406-02](#)

3x4
sharp

3x4
blunt



Wullstein

100mm – 4"

[LMI17408-01](#)

[LMI17408-02](#)

3x3
sharp

3x3
blunt



Weitlaner-Wullstein

130mm – 5"

[LMI17408-13](#)

[LMI17408-14](#)

3x3
sharp

3x3
blunt



Milligan

130mm – 5"

[LMI17409-13](#)

3x3
blunt

Self-retaining retractors

Surgery



Belucci

| | | |
|----------------|-----------------------------|-----------------------------|
| 110mm – 4 1/4" | LMI17410-11 | LMI17411-11 |
| 130mm – 5" | LMI17410-13 | LMI17411-13 |

1x2
left, blunt

1x2
right, blunt



Mollison

150mm – 6"

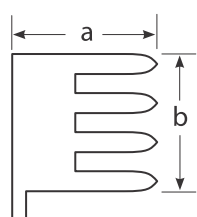
[LMI17419-15](#)

4x4
sharp

1:2

Self-retaining retractors

Surgery



Weitlaner-Loktite

| Length | Dimensions | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 |
|-----------------|-----------------------|--------------|-------------------|--------------|--------------|-------------------|--------------|
| 105mm – 4 1/4" | a = 17 mm – b = 13 mm | LMI17400-10 | LMI17400-20 | LMI17401-10 | | | |
| 130mm – 5" | a = 17 mm – b = 17 mm | | | | LMI17402-13 | LMI17402-23 | LMI17403-13 |
| 165mm – 6 1/2" | a = 17 mm – b = 17 mm | | | | LMI17402-16 | LMI17402-26 | LMI17403-16 |
| 200mm – 8" | a = 20 mm – b = 19 mm | | | | LMI17404-20 | LMI17404-30 | LMI17405-20 |
| 260mm – 10 1/4" | a = 26 mm – b = 21 mm | | | | LMI17404-26 | LMI17404-36 | LMI17405-26 |
| | | 2x3 sharp | 2x3 semi sharp | 2x3 blunt | 3x4 sharp | 3x4 semi sharp | 3x4 blunt |

Self-retaining retractors

Surgery



Plester

130mm – 5"

[LMI17450-13](#)

[LMI17451-13](#)

2x2
blunt

2x2
sharp



Plester

110mm – 4 1/4"

[LMI17452-11](#)

2x1
left, blunt



[LMI17453-11](#)

1x2
right, blunt



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Self-retaining retractors

Surgery



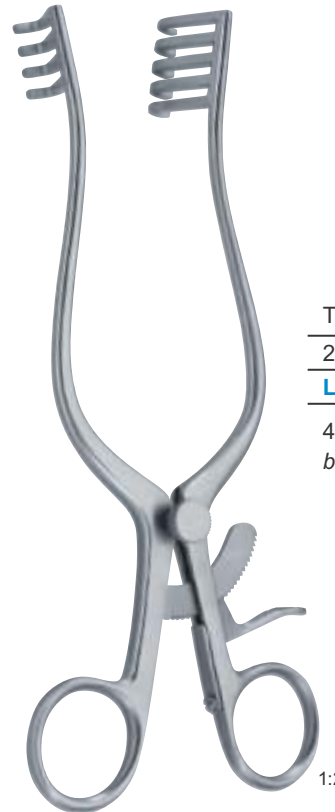
Norfolk
and Norwich

220mm – 8 $\frac{3}{4}$ "

[LMI17413-22](#)

4x5
blunt

1:2



Travers

215mm – 8 $\frac{1}{2}$ "

[LMI17412-20](#)

4x5
blunt

1:2



Anderson-Adson

195mm – 7 $\frac{3}{4}$ "

[LMI17417-19](#)

[LMI17418-19](#)

4x4

4x4

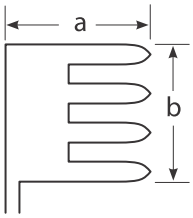
sharp

blunt

1:2

Self-retaining retractors

Surgery



Adson (Cone)

| | | | |
|------------------|-----------------------|-----------------------------|-----------------------------|
| 130 mm – 5" | a = 17 mm – b = 19 mm | LMI17423-13 | LMI17424-13 |
| 160 mm – 6 1/4" | a = 17 mm – b = 19 mm | LMI17423-16 | LMI17424-16 |
| 200 mm – 8" | a = 20 mm – b = 20 mm | LMI17423-20 | LMI17424-20 |
| 260 mm – 10 1/4" | a = 26 mm – b = 21 mm | LMI17423-26 | LMI17424-26 |

3x4
sharp

3x4
blunt



Beckmann-Eaton

320mm – 12 1/2"

[LMI17425-32](#)

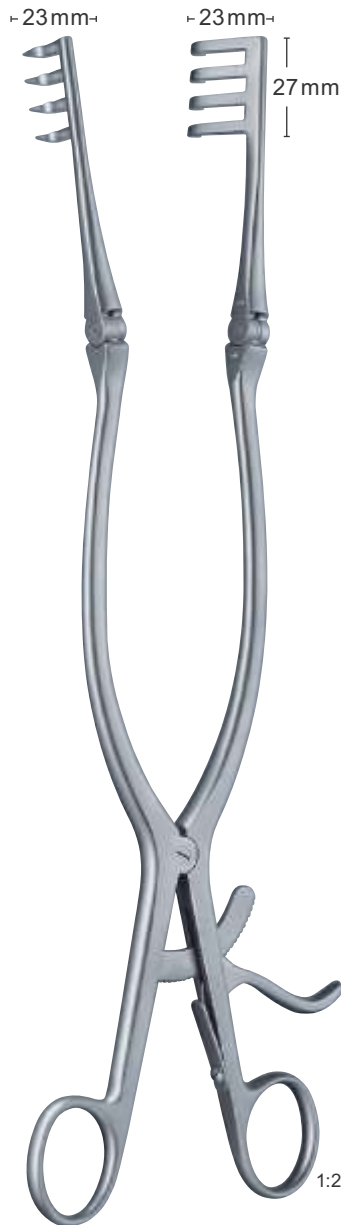
7x7

sharp

1:2

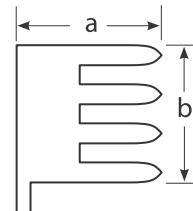
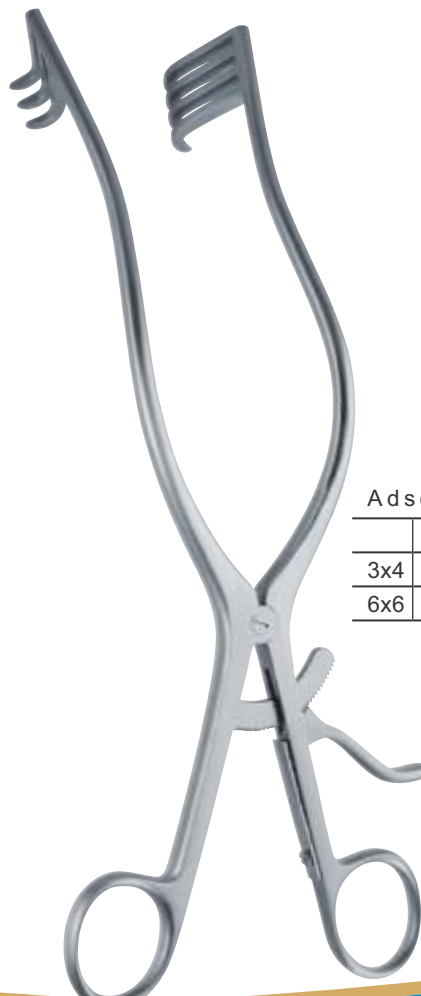
Self-retaining retractors

Surgery



Beckmann

| 310mm – 12¼" | LMI17427-31 | LMI17427-41 | LMI17428-31 |
|--------------|--------------|-------------------|--------------|
| | 4x4 sharp | 4x4 semi sharp | 4x4 blunt |

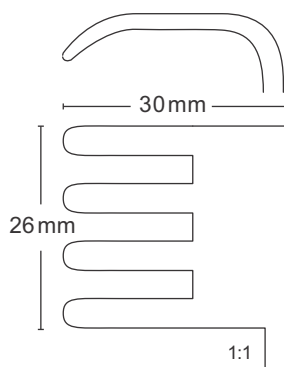
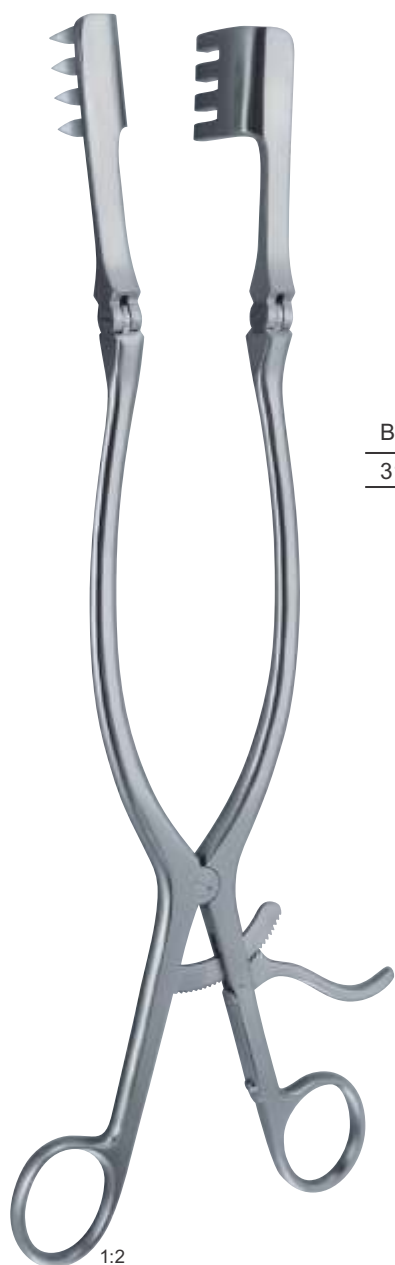


Adson

| | | 265mm – 10½" | 265mm – 10½" |
|-----|-----------------|--------------|--------------|
| 3x4 | a=24mm – b=24mm | LMI17432-26 | LMI17433-26 |
| 6x6 | a=40mm – b=40mm | LMI17438-26 | LMI17439-26 |
| | | sharp | blunt |

Self-retaining retractors

Surgery

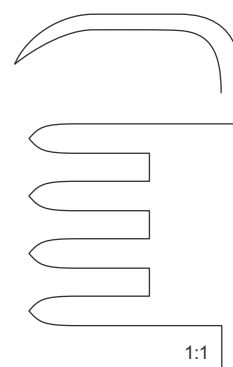


Beckmann-Adson

310mm – 12 1/4"

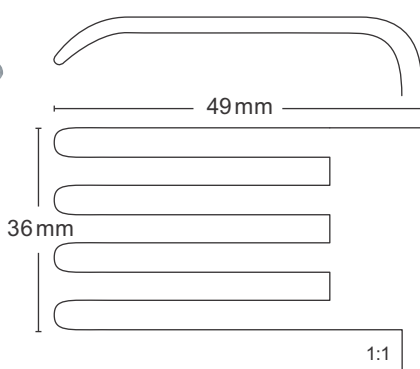
LMI17441-00

blunt



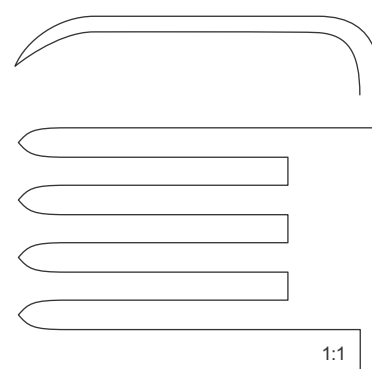
LMI17441-01

sharp



LMI17443-00

blunt, with deep blades



LMI17443-01

sharp, with deep blades

Self-retaining retractors

Surgery



Gelpi-Loktite

Markham-Meyerdung

| | | |
|-------------|-----------------------------|-----------------------------|
| 90mm – 3½" | LMI17470-09 | |
| 110mm – 4¼" | LMI17470-11 | |
| 130mm – 5" | LMI17470-13 | |
| 180mm – 7" | LMI17470-18 | LMI17471-18 |

| | | |
|------------|-----------------------------|-----------------------------|
| 180mm – 7" | LMI17476-18 | LMI17477-18 |
| | right | left |



Rigby

180mm – 7"

[LMI17490-18](#)

Self-retaining retractors

Surgery



Henley

165 mm – 6½"

[LMI17414-01](#)

[LMI17414-02](#)

3x4
sharp

3x4
blunt



19 mm x 16 mm

25 mm x 16 mm

32 mm x 16 mm

[LMI17472-19](#)

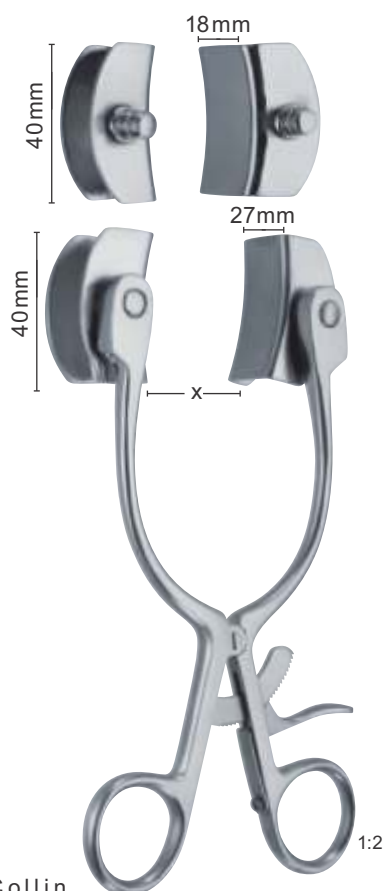
[LMI17472-25](#)

[LMI17472-32](#)

Center blades

Abdominal retractors

Surgery



Baby-Collin

| | | |
|--------------------|-----------|-----------|
| 180mm – 7" | | |
| x=80mm | | |
| LMI17500-00 | 40mmx18mm | 40mmx27mm |

complete with 2 pairs of blades



Collin

| | | |
|---|--|--|
| 220mm – 8 ³ / ₄ " | | |
| x=100mm | | |
| LMI17500-22 | | |



Collin

| | | |
|---|-----------------|-----------------|
| 225mm – 8 ³ / ₄ " | | |
| x=100mm | | |
| LMI 17501-22 | a=38mm – b=60mm | a=38mm – b=55mm |
| LMI 17502-22 | a=38mm – b=80mm | a=50mm – b=75mm |
| LMI 17503-22 | a=37mm – b=98mm | a=53mm – b=76mm |

complete with

Lateral blades

Center blade

Abdominal retractors

Surgery



Collin

| | | |
|----------------------------|----------------|--------------|
| 260mm – 10 $\frac{1}{4}$ " | | |
| x = 100mm | | |
| LMI17504-00 | 60mm x 80mm | 60mm x 75mm |
| complete with | Lateral blades | Center blade |

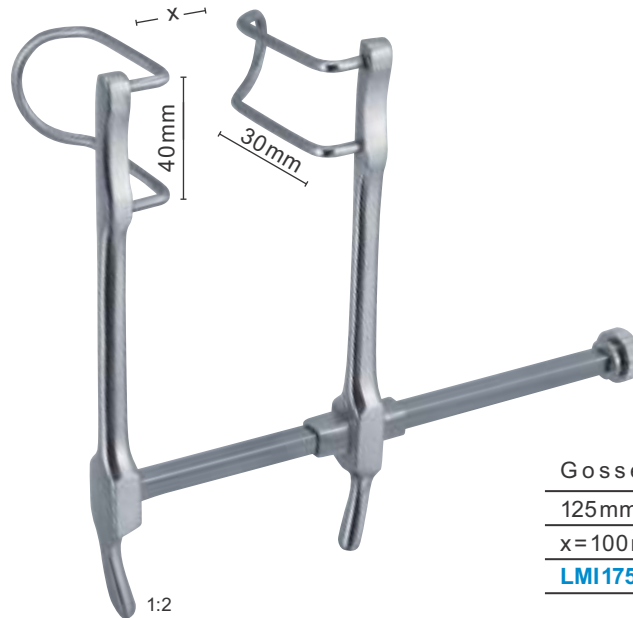


Holzbach

| | | |
|----------------------------|----------------|--------------|
| 260mm – 10 $\frac{1}{4}$ " | | |
| x = 100mm | | |
| LMI17507-00 | 62mm x 80mm | 80mm x 80mm |
| complete with | Lateral blades | Center blade |

Abdominal retractors

Surgery

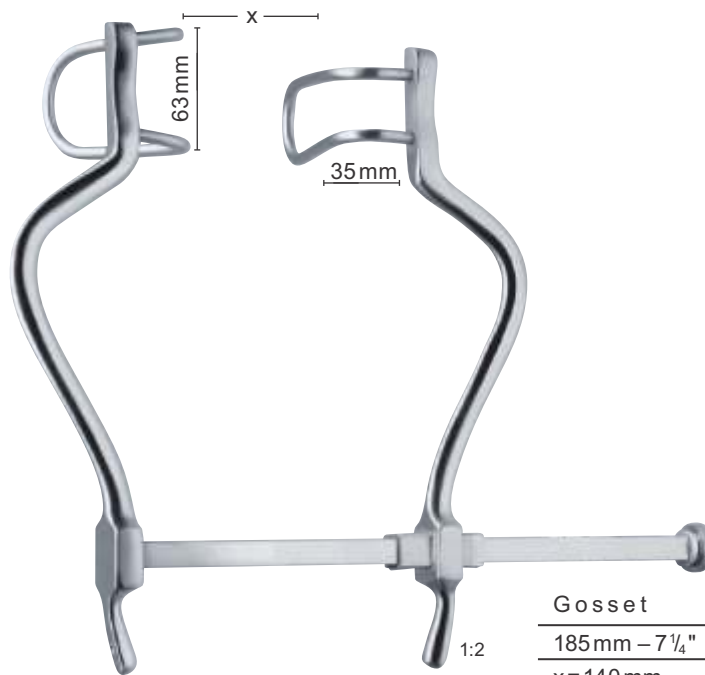


Gosset

125mm – 5"

x = 100mm

LMI17510-90



Gosset

185mm – 7 1/4"

x = 140mm

LMI17520-14

Abdominal retractors

Surgery



Gosset

| | | |
|--------------------|-----------|-----------|
| x=160mm | | |
| LMI17530-16 | 35mmx63mm | 65mmx70mm |

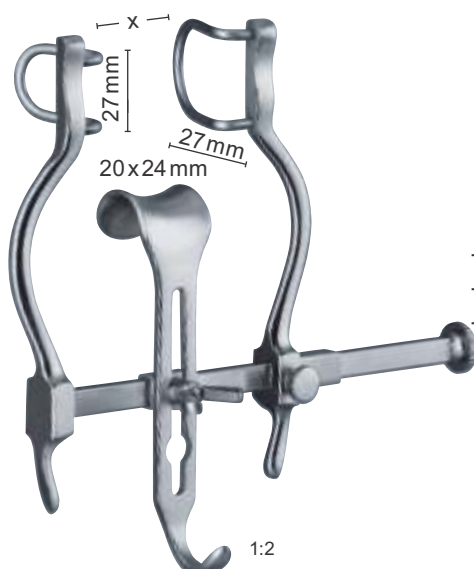
complete with Lateral blades Center blade



Balfour

| | | |
|--------------------|------------|------------|
| x=200mm | | |
| LMI17540-20 | 35mmx100mm | 70mmx100mm |

complete with Lateral blades Center blade



Balfour-Baby

| | | |
|--------------------|-----------|-----------|
| x=90mm | | |
| LMI17550-09 | 27mmx27mm | 20mmx24mm |

complete with Lateral blades Center blade

Abdominal retractors

Surgery



Balfour

| | | |
|--------------------|----------------|--------------|
| x= 180 mm | | |
| LMI17570-18 | 35 mmx70 mm | 45 mmx80 mm |
| complete with | Lateral blades | Center blade |

| | | |
|--------------------|----------------|--------------|
| x= 250 mm | | |
| LMI17560-25 | 35 mmx100 mm | 70 mmx85 mm |
| complete with | Lateral blades | Center blade |

| | |
|-------------|--------------------|
| 45 mmx80 mm | LMI17571-80 |
| 70 mmx85 mm | LMI17572-85 |
| 80 mmx90 mm | LMI17573-90 |

Center blades, only

Abdominal retractors

Surgery



Ricard

1:3

| | | |
|---------------------|-----------|-----------|
| LMI 17618-00 | 60mmx80mm | 55mmx70mm |
|---------------------|-----------|-----------|

complete with Lateral blades Center blade



O'Sullivan-O'Connor

1:3

| | | |
|---------------------|-----------|------------|
| LMI 17610-00 | 45mmx90mm | 70mmx100mm |
|---------------------|-----------|------------|

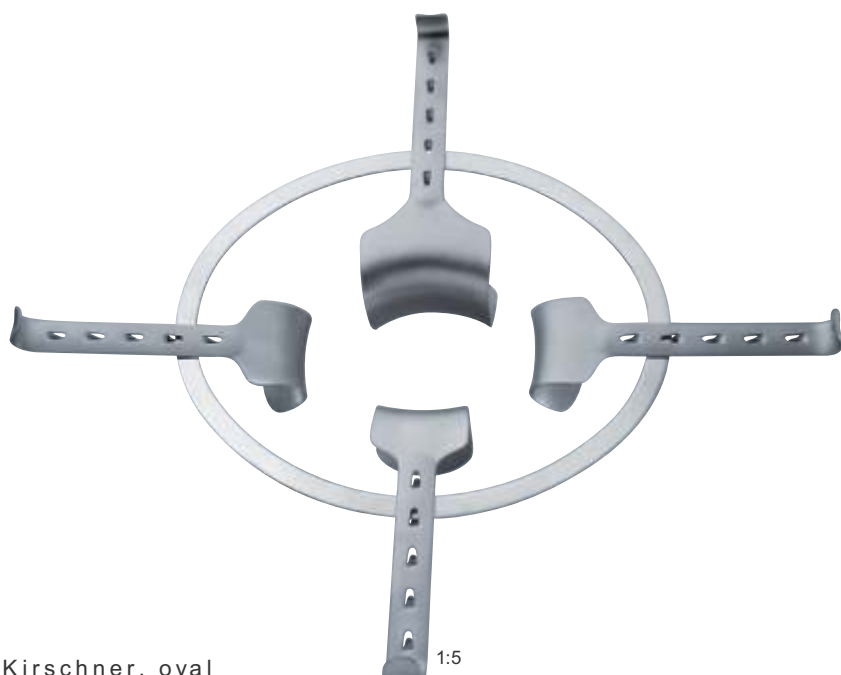
complete with Lateral blades Center blades

| | | |
|---------------------|-----------|-----------|
| LMI 17620-00 | 70mmx85mm | 80mmx90mm |
|---------------------|-----------|-----------|

complete with Lateral blades Center blade

Abdominal retractors

Surgery



Kirschner, oval

| | 240mmx300mm | 50mmx65mm | 80mmx90mm | 50mmx98mm | 35mmx105mm |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | LMI17625-01 | LMI17640-02 | LMI17640-06 | LMI17640-07 | LMI17640-08 |
| | 1 Frame | 3 Blades | 1 Blade | 1 Blade | 1 Blade |

| | | | | |
|-------------------------------|---|---|---|---|
| LMI17625-00 x | x | x | x | x |
|-------------------------------|---|---|---|---|

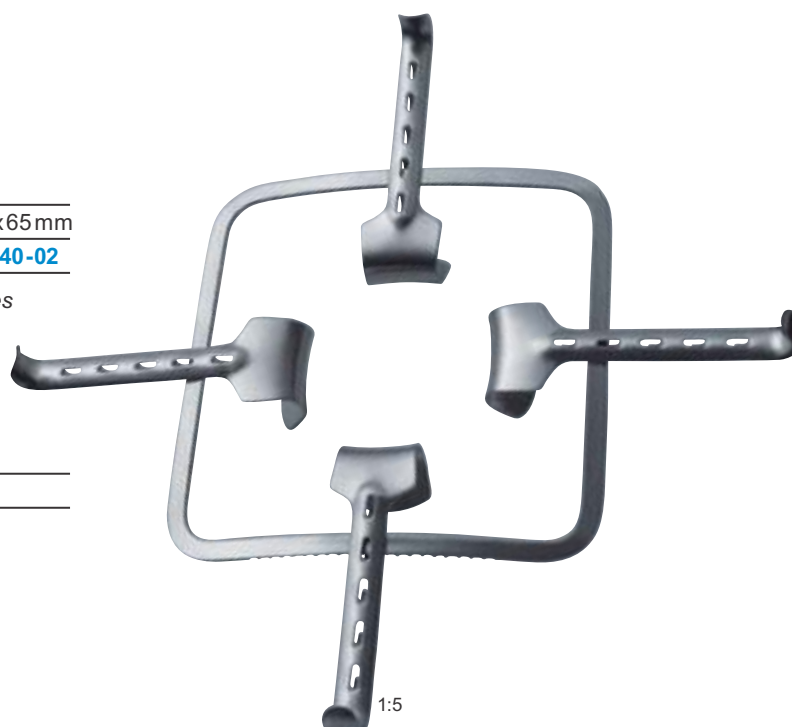
Set

Kirschner

| | 240mmx240mm | 40mmx55mm | 50mmx65mm |
|--|-----------------------------|-----------------------------|-----------------------------|
| | LMI17630-01 | LMI17640-01 | LMI17640-02 |
| | 1 Frame, rigid | 2 Blades | 2 Blades |

| | | |
|-------------------------------|---|---|
| LMI17630-00 x | x | x |
|-------------------------------|---|---|

Set



Abdominal retractors

Surgery



Franz

| | | | | | |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 300mmx300mm | 40mmx60mm | 45mmx80mm | 50mmx65mm | 60mmx85mm |
| | LMI17645-01 | LMI17632-06 | LMI17632-08 | LMI17640-02 | LMI17640-03 |
| | 1 Frame, foldable | 2 Blades | 2 Blades | 2 Blades | 2 Blades |

| | | | | | |
|-----------------------------|---|---|---|---|---|
| LMI17645-00 | x | x | | x | |
| LMI17650-00 | x | x | x | x | x |

Set



Frame foldable

Abdominal retractors

Surgery



Blades for Kirschner- and Franz-frames



1:3



1:3



1:3



1:3

| | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 40mmx60mm | 45mmx80mm | 40mmx55mm | 50mmx65mm |
| LMI17632-06 | LMI17632-08 | LMI17640-01 | LMI17640-02 |



1:3



1:3



1:3



1:3

| | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 60mmx85mm | 80mmx90mm | 50mmx98mm | 35mmx105mm |
| LMI17640-03 | LMI17640-06 | LMI17640-07 | LMI17640-08 |

Abdominal spatulas

Surgery



| | 30mm | 40mm | 50mm |
|-------------|-----------------------------|-----------------------------|-----------------------------|
| 330mm – 13" | LMI17882-30 | LMI17882-40 | LMI17882-50 |

malleable



Martin

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| 200mm – 8" | 200mm – 8" | 250mm – 9 $\frac{3}{4}$ " |
| 12mm | 17mm | 25mm |
| LMI17884-12 | LMI17884-17 | LMI17884-25 |

soft

| | 6,5mm | 9,5mm | 13mm | 16mm | 19mm | 25mm |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 200mm – 8" | LMI17880-06 | LMI17880-09 | LMI17880-13 | LMI17880-16 | LMI17880-19 | LMI17880-25 |

malleable, very soft



Abdominal spatulas

Surgery



Haberer

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| 200mm – 8" | 280mm – 11" | 300mm – 12" |
| 17 mm/25 mm | 25mm/30mm | 37 mm/45mm |
| LMI17886-25 | LMI17886-30 | LMI17886-45 |

malleable



Reverdin

| |
|-----------------------------|
| 280mm – 11" |
| 46mmx60mm |
| LMI17887-28 |

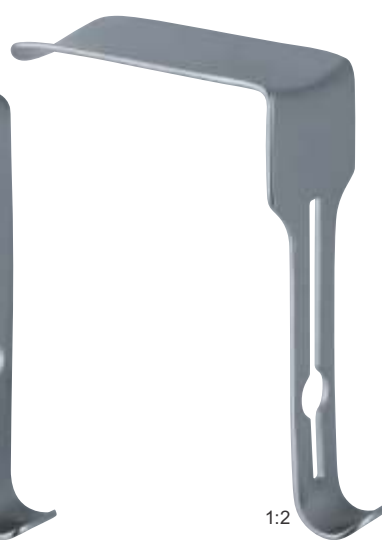
1:2

Retractors

Surgery



O'Sullivan-O'Connor



| | Fig. 1 | Fig. 2 | Fig. 3 |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 45mmx17mm | 90mmx37mm | 90mmx45mm |
| | LMI34138-03 | LMI34138-04 | LMI34138-05 |
| LMI34138-00 | x | x | x |

complete



Friedmann

100mm – 4"

[LMI34139-10](#)

Laminectomy retractors

Surgery



Cloward

160 mm – 6 $\frac{1}{4}$ "

[LMI17783-00](#)

complete with 2 blades ea. Fig. 1 - Fig. 5



1:3

250 mm – 9 $\frac{3}{4}$ "

[LMI 17781-00](#)

complete with 2 blades ea. Fig. 1 - Fig. 5

[LMI17782-00](#)

Retractor without blades

[LMI17780-00](#)

Retractor without blades



| | | |
|--------|--------|-----------------------------|
| Fig. 1 | x=60mm | LMI17783-01 |
| Fig. 2 | x=55mm | LMI17783-02 |
| Fig. 3 | x=50mm | LMI17783-03 |
| Fig. 4 | x=45mm | LMI17783-04 |
| Fig. 5 | x=40mm | LMI17783-05 |

blunt

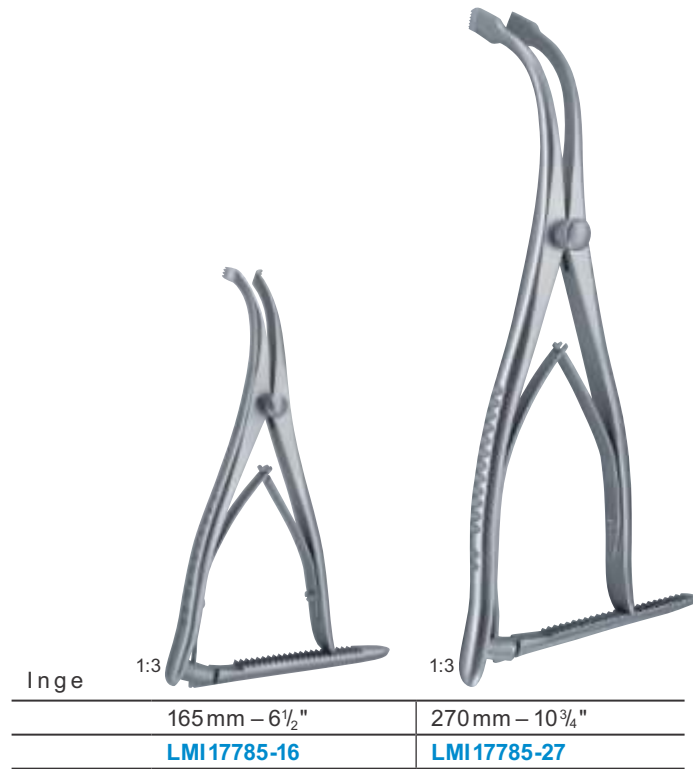


| | | |
|--------|--------|-----------------------------|
| Fig. 1 | x=60mm | LMI17781-01 |
| Fig. 2 | x=55mm | LMI17781-02 |
| Fig. 3 | x=50mm | LMI17781-03 |
| Fig. 4 | x=45mm | LMI17781-04 |
| Fig. 5 | x=40mm | LMI17781-05 |

toothed

Laminectomy retractors

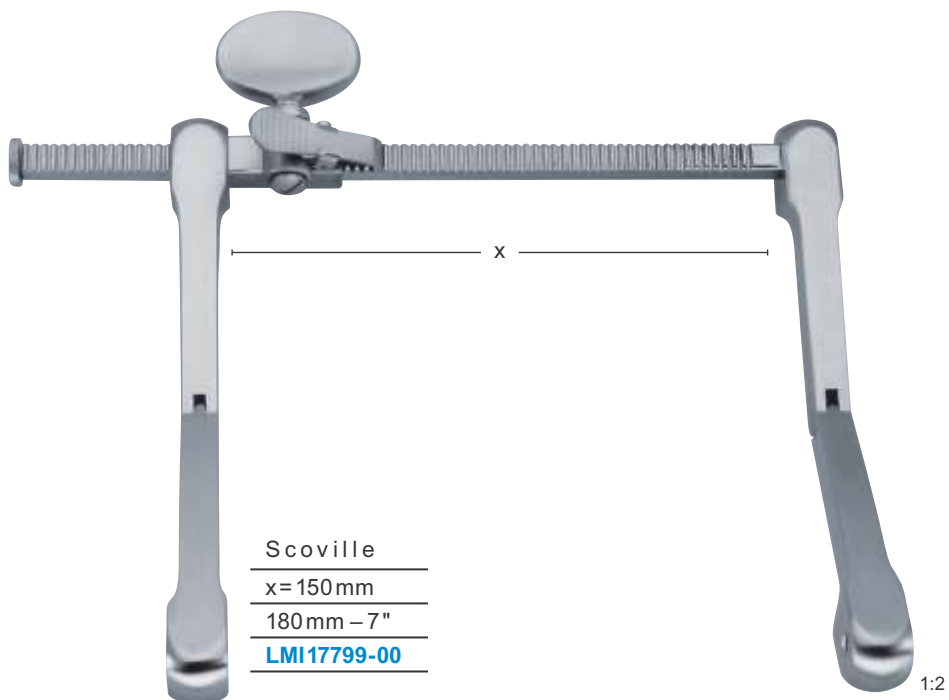
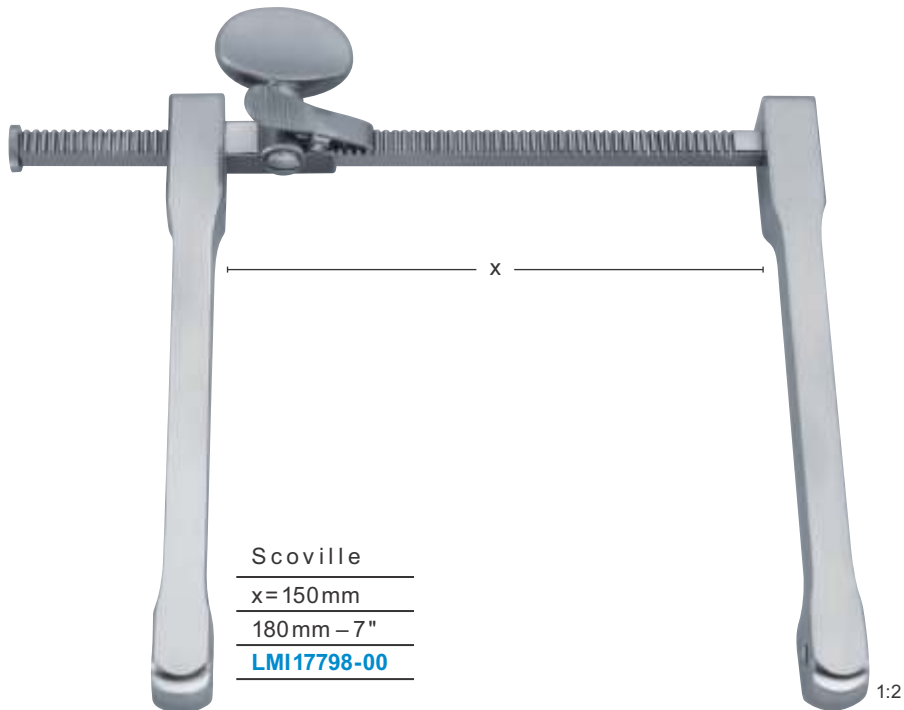
Surgery





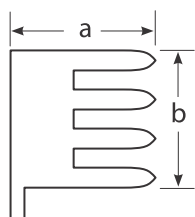
Laminectomy retractors

Surgery



Laminectomy retractors

Surgery



Scoville

| | | |
|-------------|-----------------------------|-----------------------------|
| 50 mm – 2" | LMI17800-05 | LMI17801-05 |
| 70 mm – 2¾" | LMI17800-07 | LMI17801-07 |

blunt

sharp



Taylor

| | |
|-----------------------------|-----------------------------|
| a=48 mm – b=50 mm – 2"x2" | LMI17802-05 |
| a=63 mm – b=50 mm – 2½"x2" | LMI17802-06 |
| a=64 mm – b=64 mm – 3¼"x2¼" | LMI17802-08 |



Scoville

| | |
|-----------------------------|-----------------------------|
| a=40 mm – b=37 mm – 1½"x1½" | LMI17803-04 |
| a=65 mm – b=44 mm – 2½"x1¾" | LMI17803-06 |

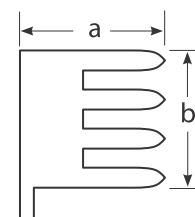


Taylor

| | |
|-----------------------------|-----------------------------|
| a=100 mm – b=42 mm – 4"x1⅞" | LMI17804-02 |
|-----------------------------|-----------------------------|

Laminectomy retractors

Surgery



Meyerding



| | |
|---------------------------------|-----------------------------|
| a=57 mm – b=25 mm – 2 1/4" x 1" | LMI17805-01 |
| a=76 mm – b=25 mm – 3 1/2" x 1" | LMI17805-02 |
| a=88 mm – b=51 mm – 3 1/2" x 2" | LMI17805-03 |

Scoville



| | |
|-------------------------------------|-----------------------------|
| a=57 mm – b=25 mm – 2 1/4" x 1" | LMI17806-01 |
| a=57 mm – b=38 mm – 2 1/4" x 1 1/2" | LMI17806-02 |
| a=64 mm – b=50 mm – 2 1/2" x 2" | LMI17806-03 |
| a=75 mm – b=25 mm – 3" x 1" | LMI17806-04 |

Epstein



| | |
|---------------------------------|-----------------------------|
| a=56 mm – b=25 mm – 2 1/4" x 1" | LMI17807-01 |
|---------------------------------|-----------------------------|

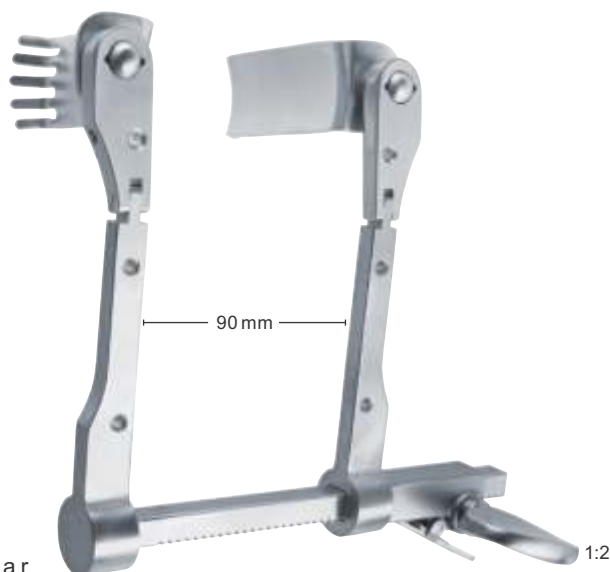
Hibbs



| | |
|--------------------------------------|-----------------------------|
| a= 50 mm – b=20 mm – 2" x 3/4" | LMI17808-01 |
| a= 50 mm – b=25 mm – 2" x 1" | LMI17808-02 |
| a= 50 mm – b=50 mm – 2" x 2" | LMI17808-03 |
| a= 63 mm – b=25 mm – 2 1/2" x 1" | LMI17808-04 |
| a= 63 mm – b=37 mm – 2 1/2" x 1 1/2" | LMI17808-05 |
| a= 76 mm – b=25 mm – 3" x 1" | LMI17808-06 |
| a= 76 mm – b=38 mm – 3" x 1 1/2" | LMI17808-07 |
| a= 76 mm – b=50 mm – 3" x 2" | LMI17808-08 |
| a= 76 mm – b=63 mm – 3" x 2 1/2" | LMI17808-09 |
| a= 90 mm – b=25 mm – 3 1/2" x 1" | LMI17808-10 |
| a= 90 mm – b=37 mm – 3 1/2" x 1 1/2" | LMI17808-11 |
| a=102 mm – b=25 mm – 4" x 1" | LMI17808-12 |
| a=102 mm – b=50 mm – 4" x 2" | LMI17808-13 |

Laminectomy retractors

Surgery



Caspar

LMI17829-00

complete with 5 medial blades LMI 17826-01 - LMI 17826-05



1:2

LMI17823-00

complete with 5 blades LMI 17824-01 - LMI 17824-05

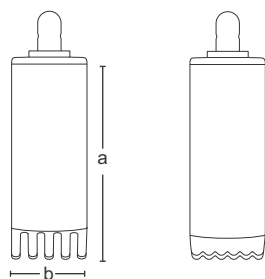
e con 5 valve laterali LMI 17827-01 - LMI 17827-05

LMI17829-01

Retractor without blades

LMI17823-01

Retractor without blades



Caspar

| | medial | lateral |
|------------------|-----------------------------|-----------------------------|
| a= 40mm – b=23mm | LMI17826-01 | LMI17827-01 |
| a= 45mm – b=23mm | LMI17826-02 | LMI17827-02 |
| a= 50mm – b=23mm | LMI17826-03 | LMI17827-03 |
| a= 55mm – b=23mm | LMI17826-04 | LMI17827-04 |
| a= 60mm – b=23mm | LMI17826-05 | LMI17827-05 |



Caspar

| | |
|------------------|-----------------------------|
| a= 45mm – b=23mm | LMI17824-01 |
| a= 50mm – b=23mm | LMI17824-02 |
| a= 55mm – b=23mm | LMI17824-03 |
| a= 60mm – b=23mm | LMI17824-04 |
| a= 65mm – b=23mm | LMI17824-05 |

blunt

Laminectomy retractors

Surgery



Caspar

LMI 17828-00

complete with 6 blades LMI 17831-01 and LMI 17832-02 - 06



LMI 17830-00

complete with 5 blades LMI 17824-01 - LMI 17824-05

LMI 17828-10

Retractor without blades

LMI 17823-01

Retractor only, with key

LMI 17830-02

Key



Laminectomy retractors

Surgery



Caspar

| | |
|-----------------------------|-----------------------------|
| 38mm | 58mm |
| LMI17831-01 | LMI17831-02 |



| | |
|------------------|-----------------------------|
| a= 35mm – b=22mm | LMI17832-01 |
| a= 40mm – b=22mm | LMI17832-02 |
| a= 45mm – b=22mm | LMI17832-03 |
| a= 50mm – b=22mm | LMI17832-04 |
| a= 55mm – b=22mm | LMI17832-05 |
| a= 60mm – b=22mm | LMI17832-06 |
| a= 65mm – b=22mm | LMI17832-07 |
| a= 70mm – b=22mm | LMI17832-08 |



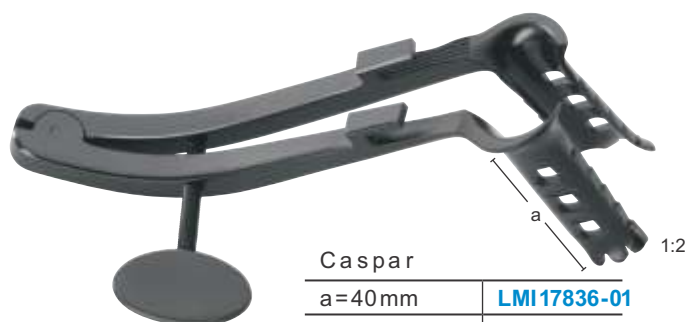
| | |
|------------------|-----------------------------|
| a= 35mm – b=37mm | LMI17833-01 |
| a= 40mm – b=37mm | LMI17833-02 |
| a= 45mm – b=37mm | LMI17833-03 |
| a= 50mm – b=37mm | LMI17833-04 |
| a= 55mm – b=37mm | LMI17833-05 |
| a= 60mm – b=37mm | LMI17833-06 |
| a= 65mm – b=37mm | LMI17833-07 |
| a= 70mm – b=37mm | LMI17833-08 |



| | |
|------------------|-----------------------------|
| a= 35mm – b=52mm | LMI17834-01 |
| a= 40mm – b=52mm | LMI17834-02 |
| a= 45mm – b=52mm | LMI17834-03 |
| a= 50mm – b=52mm | LMI17834-04 |
| a= 55mm – b=52mm | LMI17834-05 |
| a= 60mm – b=52mm | LMI17834-06 |
| a= 65mm – b=52mm | LMI17834-07 |
| a= 70mm – b=52mm | LMI17834-08 |

Retractors for Micro-Lumbar Disectomy

Surgery



With black finish

Caspar

| | |
|--------|-----------------------------|
| a=40mm | LMI17836-01 |
| a=45mm | LMI17836-02 |
| a=50mm | LMI17836-03 |
| a=55mm | LMI17836-04 |
| a=60mm | LMI17836-05 |
| a=65mm | LMI17836-06 |
| a=75mm | LMI17836-07 |
| a=85mm | LMI17836-08 |



Caspar

[LMI17837-00](#)



With black finish

Caspar

| | | |
|--------|-----------------------------|-----------------------------|
| a=35mm | LMI17837-01 | |
| a=40mm | LMI17837-02 | LMI17838-01 |
| a=45mm | LMI17837-03 | LMI17838-02 |
| a=50mm | LMI17837-04 | LMI17838-03 |
| a=55mm | LMI17837-05 | LMI17838-04 |
| a=60mm | LMI17837-06 | LMI17838-05 |
| a=65mm | LMI17837-07 | LMI17838-06 |
| a=70mm | | LMI17838-07 |
| a=75mm | LMI17837-08 | |
| a=85mm | LMI17837-09 | |

Speculum for hypophysectomy

Surgery



With black finish



| | |
|-----------|-----------------------------|
| x = 70mm | LMI24927-70 |
| x = 90mm | LMI24927-90 |
| x = 110mm | LMI24928-10 |

Speculum for trans-sphenoidal hypophysectomy



LAPA MASTER INDUSTRY

Manufacturer & Exporter all kinds of Surgical, Dental Instruments

Manufacturing Process

Manufacturing Capabilities

All of our production departments are well equipped with the latest, machinery which is imported from Germany and England, and well staffed with the expert technicians.

Raw Material Department

Lapa Master Industry always purchases best quality stainless steel raw material from steel manufacturers or import directly from Japan, France and Germany when need to do so.

Two kinds of series i.e. 304, 410 and 420 of stainless steel are used for production of Surgical Instruments. At Lapa Master Industry, we believe that quality can only be achieved through quality raw material. As such, the best quality Raw-materials (Stainless Steel Strips, Round Bars, Stainless Steel Coils and Stainless Steel Tubes) are purchased and are subjected to composition and hardness testing through our in-house laboratory in order to ensure that only the best materials are passed on to production departments.

Forging Department

Lapa Master Industry has its own forging section where forgings are made through Drop Hammer process by seasoned operators using dyes made of the best quality imported D-2 Steel.

Forging is done by keeping in mind that the geometry of this process is a starting point and does not on any way limit your design freedom.

Milling Department

Milling is used in the surgical instruments industry, defined as the process of cutting, shaping and finishing of an instrument. It is the process that includes turning, welding and fringing. At the Lapa Master Industry we use the best milling technology which involve cutting away pieces of metal to create dovetails, threads, bevels, slots and ridges.

Grinding (Filing & Setting)

In order to give a final shape to the instrument, our highly skilled craftsman use filling and grinding processes which removes the material from the instrument by abrasion. Then the instrument is keenly observed and set to perform perfect.

Hardness Test (Heat Treatment)

For surgical instruments, the term harness refers to the resistance to bending, scratching, abrasion or cutting. We have in-house Heat Treatment Department equipped with top quality Vacuum Furnace where qualified staff and engineers are engaged in treating the instruments in order to add strength to the steel and perfect the metallurgical composition for further processes.

Polishing Department

The Polishing Department is manned by seasoned workmen using imported chemicals and best quality grinding wheels to ensure the best quality finish. In this department, the instruments are given final finish which includes mirror, satin or matt finishes. The finish is per customers requirements.



Manufacturing Process

Tungsten Carbide Department

Lapa Master Industry tungsten carbide department is installed with the best quality imported machinery being manned by the exceptionally well trained experts using the German Technology. We use German tungsten carbide tips for our instruments.

Coating Department

Our coating department is capable of providing gold plated instruments as well as powder coated instruments depending upon the requirements of the instruments or the customers. Best quality coating related raw materials are used so that no compromise can be made on quality. Furthermore, each coating is inspected for quality before any instrument is passed on to the next department.

Passivation Department

We use high quality imported chemicals in our Passivation Department. Every instruments is boil test and passivate for 24 hours before packing. If need arises, the instruments are re-passivated so as to eliminate any chances of rusting or corrosion during the life of the instrument. Our instruments are rust-free for life though we give guarantee for five years.

Sandblasting Department

For sandblasting our instruments, we use the machines as well as the best quality sandblasting material, which are operated by skilled & well trained operators.

Stamping/Etching

We use permanent and long life high quality laser etching which produces a wide variety of text and graphic images including our customer's logo with very detailed and fine image quality.

Quality Control

Our quality control department is involved at all of the processes of manufacturing but before the instrument goes to the packing department, its quality and function is thoroughly checked by our qualified engineers.

Labeling and Packing

Each instrument is initially packed in a poly bag to prevent scratches and then packed in the middle box. Middle boxes are then packed in the carton. The middle boxes are labeled which includes the article number, types and sizes of instruments. We can also arrange packaging and labeling **according to the customers demand**.

Warehouse

After the instruments are packed and labeled, cartons are then move to our in house warehouse where the complete record of shipments are maintained by our qualified warehouse management.



LAPA MASTER INDUSTRY

Manufacturer & Exporter all kinds of Surgical, Dental Instruments

SURGICAL INSTRUMENTS

