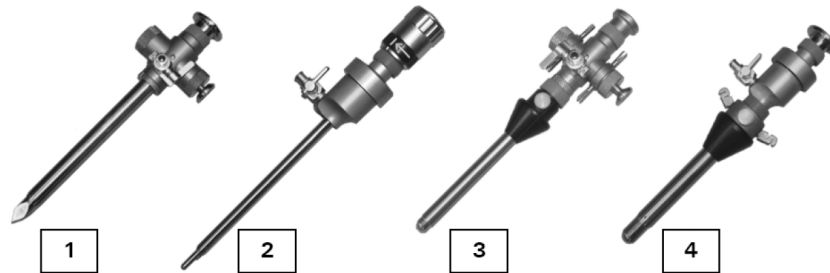




Laparoscopic Reusable Trocars and Sleeves

MILLENNIUM SURGICAL
 SURGICALINSTRUMENTS.COM
 UNMATCHED SERVICE · UNLIMITED INSTRUMENTS
 822 Montgomery Ave #205
 Narberth, PA 19072
 (800) 600-0428

High quality trocars and sleeves are essential during multi-puncture, minimally invasive surgical procedures. Our wide range of reusable trocars and sleeves are more economically beneficial and technologically superior to disposable systems. Only the highest-grade materials and superb craftsmanship are used in the manufacturing of our trocars and sleeves.



Stainless Steel Trocar Sleeves w/ Trumpet Valve

Note: 45° Angled Sleeves are available on all sizes & sheath types below.
 Ask a product specialist for information when ordering.

1a

- Trocar & Sleeves Feature:**
- All stainless steel trumpet valve body trocar sleeves with insufflation port.
 - All metal construction to avoid capacitance buildup.
 - Precision machined stainless steel valve body insuring smooth action and no gas loss.
 - Detachable sleeves for fast and economical replacement in the event of damage or for cleaning.
 - Standard and extra-long trocar sleeves with insufflation ports.
 - Pyramidal, conical and blunt trocars in standard and extra-long length.



Diameter	Standard 110 MM	Extra Long 150 MM	Standard 100 MM	Extra Long 150 MM
2 MM Ø	72-5220210	72-5220209	72-52520210 TS	72-5220209 TS
3 MM Ø	72-5220306	72-5220307	72-5220306 TS	72-5220307 TS
5 MM Ø	72-5220509	72-5220508	72-5220509 TS	72-5220508 TS
6 MM Ø	72-5220610	72-5220613	72-5220610 TS	72-5220613 TS
7 MM Ø	72-5220710	72-5220711	72-5220710 TS	72-5220613 TS
8 MM Ø	72-5220810	72-5220813	72-5220810 TS	72-5220813 TS
10 MM Ø	72-5221010	72-5221013	72-5221010 TS	72-5221013 TS
11 MM Ø	72-5211014	72-5211017	72-5211014 TS	72-5211017 TS
12 MM Ø	72-5221210	72-5221213	72-5221210 TS	72-5221213 TS

Stainless Steel Trocars

1b



Diameter	Pyramidal Trocar		Conical Trocar		Blunt Trocar	
	Standard	Extra Long	Standard	Extra Long	Standard	Extra Long
2 MM Ø	72-5220211	72-5220213	72-5220212	72-5220214	72-5220218	72-5220219
3 MM Ø	72-5220310	72-5220304	72-5220311	72-5220305	72-5220306	72-5220307
5 MM Ø	72-5220511	72-5220505	72-5220512	72-5220504	72-5220524	72-5220525
6 MM Ø	72-5220611	72-5220614	72-5220612	72-5220615	72-5220622	72-5220623
7 MM Ø	72-5220708	72-5220709	72-5220712	72-5220715	72-5220718	72-5220719
8 MM Ø	72-5220811	72-5220814	72-5220812	72-5220815	72-5220818	72-5220819
10 MM Ø	72-5221011	72-5221014	72-5221012	72-5221015	72-5221018	72-5221019
11 MM Ø	72-5211015	72-5211018	72-5211016	72-5211019	72-5211022	72-5211023
12 MM Ø	72-5221211	72-5221214	72-5221212	72-5221215	72-5221218	72-5221219



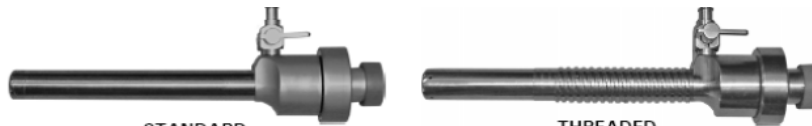
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Stainless Steel Trocars

2a



STANDARD
 STAINLESS STEEL SLEEVE
 WITH REMOVABLE SHEATH &
 INSUFFLATION PORT

THREADED
 STAINLESS STEEL SLEEVE
 WITH REMOVABLE SHEATH &
 INSUFFLATION PORT

Diameter	Standard 110 mm	Extra Long 150 mm	Standard 110 mm	Extra Long 150 mm
3 MM Ø	72-52203113	72-52203213	72-52203113TS	72-52203213TS
5 MM Ø	72-52205113	72-52205213	72-52205113TS	72-52205213TS
6 MM Ø	72-52206113	72-52206213	72-52206113TS	72-52206213TS
7 MM Ø	72-52207113	72-52207213	72-52207113TS	72-52207213TS
8 MM Ø	72-52208113	72-52208213	72-52208113TS	72-52208213TS
10 MM Ø	72-52210113	72-52210213	72-52210113TS	72-52210213TS
11 MM Ø	72-52110113	72-52110213	72-52110113TS	72-52110213TS
12 MM Ø	72-52212113	72-52212213	72-52212113TS	72-52212213TS

The Magna-Close Trocar Sleeve is light weight and the simplest reusable trocal sleeve to service and clean. It consists of three pieces: 1) The lower cannual housing, 2) the upper housing, and 3) the valve plate.

Magna-Close trocars and sleeves feature:

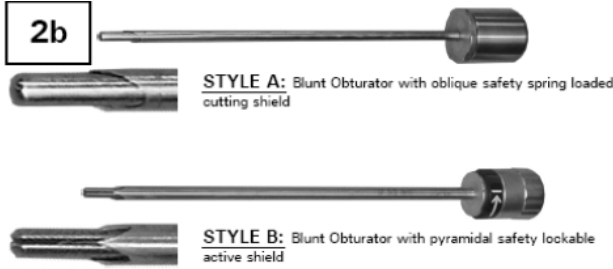
- Lightweight metal trocar sleeves with magnetic plate valve and insufflation port.

Safety trocars and sleeves with the magnetic "magna-close" valve are attractively priced. They may be purchased as units or separately for use with existing sleeves or trocars. These instruments provide optimal safety, besides dramatically reducing operating expenditures. In addition, the surgeon handles high-quality instrumentation in contrast to the relatively primitively-made disposables.

Stainless Steel Safety Trocars, Spring Loaded

Inner cutting assembly is spring loaded to protect contents of the abdominal cavity upon penetration

2b



STYLE A: Blunt Obturator with oblique safety spring loaded cutting shield

STYLE B: Blunt Obturator with pyramidal safety lockable active shield

Diameter	Style A		Style B
	Standard	Extra Long	Standard
2 MM Ø	72-52203112	72-52203212	
3 MM Ø	72-52205112	72-52205212	72-52205122
5 MM Ø	72-52206112	72-52206212	
6 MM Ø	72-52208112	72-52208212	
7/8 MM Ø	72-52210112	72-52210212	72-52210122
10 MM Ø	72-52110112	72-52110212	72-52110122
11 MM Ø	72-52212112	72-52212212	72-52212122
12 MM Ø	72-52203112	72-52203212	

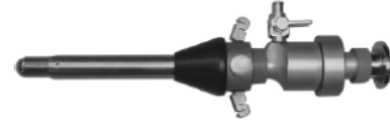
Hasson Cannula, for Open Laparoscopy - According to H.M.Hasson, M.D.

3



CLASSIC HASSON CANNULA
 TRUMPET VALVE, INCLUDING TROCAR,
 SLEEVE & CONE W/ SUTURE POST

4



LIGHTWEIGHT HASSON CANNULA
 MAGNA-CLOSE, INCLUDING TROCAR,
 SLEEVE & CONE W/ SUTURE POST

Diameter	Standard	Standard
5 MM Ø	72-52205199	72-52205299
8 MM Ø	72-5220899	72-52208199
10 MM Ø	72-5221099	72-52210199
11 MM Ø	72-5211099	72-52110199
12 MM Ø	72-5221299	72-52212199



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Laparoscopic Reusable Trocars and Sleeves

Reducers



Diameter	Standard Reducer for Full Length of Sleeve	Reducer with Flip Valve for Sleeve Top Opening
5-3 MM Ø	72-5220308	72-5220580
12-5 MM Ø	72-5221216	72-5221280
10-5 MM Ø	72-5221016	72-5221080
11-5 MM Ø	72-5211030	72-5211080

Dilation Sets - Complete Sleeve & Prob

Cleaning Brushes for Trocars & Sleeves



Diameter	Dilation Set
5-11 MM Ø	72-5200122
10-15 MM Ø	72-5200123

Sealing Caps for Trocar Sleeves

72-5200315	For 3 MM Ø Trocar Sleeves
72-5200316	For 5 MM Ø Trocar Sleeves
72-5200317	For 6 MM Ø Trocar Sleeves
72-5200318	For 7 MM Ø Trocar Sleeves
72-5200319	For 8 MM Ø Trocar Sleeves
72-5200320	For 10 MM Ø Trocar Sleeves
72-5200350	For 5.5 MM Ø Magnet Trocar Sleeves
72-5200351	For 7/8 MM Ø Magnet Trocar Sleeves
72-5200352	For 10 MM Ø Magnet Trocar Sleeves

72-5200353	For 11 MM Ø Magnet Trocar Sleeves
72-5200360	For 11 MM Ø Trocar Sleeves
72-5200361	For 12 MM Ø Trocar Sleeves
72-52003905	For Hasson Cannula Cone 5 MM
72-52003907	For Hasson Cannula Cone 7 MM
72-52003908	For Hasson Cannula Cone 8 MM
72-52003910	For Hasson Cannula Cone 10 MM
72-52003911	For Hasson Cannula Cone 11 MM
72-52003912	For Hasson Cannula Cone 12 MM

Reusable Round Nylon Brushes with Stainless Steel Shaft

72-5200323	For 5/6 MM Ø Trocar Sleeves	72-5200327	For 10/11/12 MM Ø Trocar Sleeve
72-5200325	For 7/8 MM Ø Trocar Sleeves	72-5200343	Flat Brush w/ Handle for Trocar & Outside Sleeve



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Laparoscopic Reusable Trocars and Sleeves

“Lite” Trocar Cannula System



SHOWING:

THERMOPLASTIC 5MM DIA.
SMOOTH SLEEVE
W/ PYRAMIDAL TROCAR

STAINLESS STEEL 5MM DIA.
SMOOTH SLEEVE
W/ DILATING BLUNT TROCAR

THERMOPLASTIC 10MM DIA.
THREADED SLEEVE
W/ PYRAMID TROCAR

STAINLESS STEEL 12MM DIA.
THREADED SLEEVE
W/ “GAS PRESSURE SENSOR”
PYRAMIDAL TROCAR

Complete diameter sizes and lengths available in Thermoplastic or Stainless Steel

FEATURES	BENEFITS
• Durable 2-piece cannula construction in thermoplastic or stainless steel	= Cost-effective, simple, easy to clean and service
• Thermoplastic construction with luer port	= Cost-effective, durable, light-weight, completely radio-transparent for no image interference; pneumo-peritoneum inflow and out flow control
• High-grade stainless steel construction with stop cock	= Cost-effective, when extra strength and rigidity is needed; complete precise pneumo-peritoneum inflow and outflow control
• Threaded and smooth sheaths in standard, long and custom lengths	= Threaded sleeve ensures stability; smooth sleeve helps minimize trauma; various lengths satisfies selection for broad range of patient’s needs
• Reusable silicone valve and trocar seal	= Cost-effective, seal-tight, reusable, simple-to-replace valve that reduces loss of pneumo-peritoneum and minimizes instrument wear. Easy-to-clean, no trap doors, “O”-rings or moving parts
• Reusable stainless steel trocar in 3mm, 5mm, 10mm, 11mm, 12mm and 15mm diameters; standard, long and custom lengths with precise, machined tips.	= Cost-effective, durable, completely reusable and serviceable with precision machined tips for precise penetration
• Slide reducer conversion systems: 12-10-5mm, 10-5mm, 10-8mm and 12-5mm • Flip-top reducer size conversion systems 12-5mm, 11-5mm, 10-5mm	= Cost-effective, completely reusable, thermoplastic leak-proof trocar size conversion; simple, positive screw-on feature replaces upper housing of cannula
• Hasson “Lite” open laparoscopy cannula system available in 5mm, 10mm, 11mm and 12mm diameters constructed of thermoplastic or stainless steel; guide cone complete with suture attachment pegs and blunt obturator	= Cost-effective, reusable cannula system with the same feature as our “Lite” system, with the addition of a guide cone with suturing pegs that allow simple suture attachment with unsurpassed gripping performance, allowing cannula retention for precise vertical adjustment



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Laparoscopic Reusable Trocars and Sleeves

“Lite” Trocar Cannula System

Complete Reusable System Trocar & Sheath



THERMOPLASTIC 5MM DIA. SMOOTH SLEEVE
W/ PYRAMIDAL TROCAR

THERMOPLASTIC 11MM DIA. THREADED SLEEVE
W/ PYRAMID TROCAR

FEATURES	BENEFITS
• Durable 2-piece cannula construction in thermoplastic or stainless steel	= Cost-effective, simple, easy to clean and service
• Thermoplastic construction with luer port	= Cost-effective, durable, light-weight, completely radio-transparent for no image interference; pneumo-peritoneum inflow and out flow control
• High-grade stainless steel construction with stop cock	= Cost-effective, when extra strength and rigidity is needed; complete precise pneumo-peritoneum inflow and outflow control
• Threaded and smooth sheaths in standard, long and custom lengths	= Threaded sleeve ensures stability; smooth sleeve helps minimize trauma; various lengths satisfies selection for broad range of patient's needs
• Reusable silicone valve and trocar seal	= Cost-effective, seal-tight, reusable, simple-to-replace valve that reduces loss of pneumo-peritoneum and minimizes instrument wear. Easy-to-clean, no trap doors, "O"-rings or moving parts
• Reusable stainless steel trocar in 3mm, 5mm, 10mm, 11mm, 12mm and 15mm diameters; standard, long and custom lengths with precise, machined tips.	= Cost-effective, durable, completely reusable and serviceable with precision machined tips for precise penetration
• Slide reducer conversion systems: 12-10-5mm, 10-5mm, 10-8mm and 12-5mm • Flip-top reducer size conversion systems 12-5mm, 11-5mm, 10-5mm	= Cost-effective, completely reusable, thermoplastic leak-proof trocar size conversion; simple, positive screw-on feature replaces upper housing of cannula
• Hasson "Lite" open laparoscopy cannula system available in 5mm, 10mm, 11mm and 12mm diameters constructed of thermoplastic or stainless steel; guide cone complete with suture attachment pegs and blunt obturator	= Cost-effective, reusable cannula system with the same feature as our "Lite" system, with the addition of a guide cone with suturing pegs that allow simple suture attachment with unsurpassed gripping performance, allowing cannula retention for precise vertical adjustment



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Laparoscopic Reusable Trocars and Sleeves

"LITE" TROCAR CANNULA SYSTEM MINIMUM PARTS – SIMPLE TO CLEAN & SERVICE



SEALING CAP



UPPER VALVE HOUSING



SILICONE VALVE



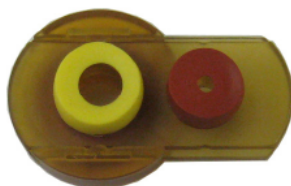
PNEUMO-PORT COVER CAP



LOWER VALVE HOUSING & SHEATH

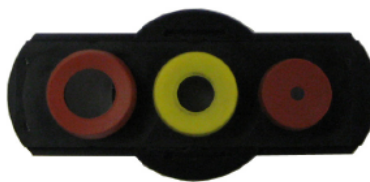
NOTE: System shown with Pyramid tip trocar – no charge substitution for conical or blunt tip trocar.

REUSABLE SLIDE & FLIP TOP REDUCER FOR ELMED "LITE" TROCAR CANNULA SYSTEM



DOUBLE SLIDE REDUCER

72-5290051	11 MM - 5 MM Dia.
72-5290053	10 MM - 5 MM Dia.
72-5290054	12 MM - 5 MM Dia.



TRIPLE SLIDE REDUCER

72-5290052	12 MM - 10/11 MM - 5 MM.
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FLIP TOP REDUCER

72-5290055	10-11 MM - 5 MM Dia.
72-5290056	12 MM - 5 MM Dia.



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Laparoscopic Reusable Trocars and Sleeves

Magna-Close™ Trocar Cannula System



SHOWING:

MAGNA-CLOSE™ 11MM DIA.,
SMOOTH SLEEVE
W/ BLUNT TROCAR

MAGNA-CLOSE™ 10MM DIA.,
THREADED SLEEVE
W/ PYRAMIDAL TROCAR

HASSON MAGNA-CLOSE™ 10MM DIA.,
CANNULA SYSTEM
COMPLETE W/ CONE & BLUNT OBTURATOR

Complete sizes available in light alloy or stainless steel

Based on many years of experience and collaboration with prominent laparoscopic surgeons, Elmed has developed this light-weight stainless steel/light alloy magnetic Magna-Close™ valve trocar cannula system.

FEATURES	BENEFITS
• Rigid, durable 3-piece stainless steel light alloy construction	= Cost-effective, completely reusable light-weight; minimum parts and the simplest trocar cannula to clean and service
• Light alloy upper 2-piece, same size valve body	= Cost-effective, light weight with extra strength and rigidity and complete, precise pneumo-peritoneum inflow and outflow control, minimal replacement parts needed due to same size
• Threaded and smooth sheaths in standard, long and custom lengths in diameter sizes ranging from 2mm to 12mm	= Cost-effective, rigid construction threaded sleeve ensures stability; smooth sleeve helps minimize trauma; various lengths and broad diameter satisfies a range of patient needs and surgical applications
• Exclusive, unique magnetic Magna-Close™ valve system	= Cost-effective, 1-piece stainless steel plate guarantees a tight seal and minimum loss of pneumo-peritoneum and no resistant instrument insertion and wear
• Reusable stainless steel trocars in 2mm to 12mm diameters; in standard, long and custom lengths with precise, machined tips	= Cost-effective, durable, completely reusable and serviceable with precision machined tips for precise penetration
• Flip-top reducer size conversion systems 12-5mm, 11-5mm, 10-5mm diameter	= Cost-effective, simple snap-on attachment with positive seal for minimum pneumo-peritoneum loss and easy instrument insertion
• Hasson light-weight Magna-Close™ open laparoscopy cannula system available in 3mm to 12mm diameter range, complete with guide cone with suture attachment pegs and blunt obturator	= Cost-effective, light-weight reusable cannula system with guide cone with attached suture pegs that allow simple suture attachment with unsurpassed gripping performance, allowing cannula retention for precise vertical adjustment



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Magna-Close™ Trocar Cannula System

MAGNA-CLOSE™ TROCAR CANNULA SYSTEM MINIMUM PARTS – SIMPLE TO CLEAN & SERVICE



SEALING CAP



UPPER VALVE HOUSING
WITH MAGNET



VALVE PLATE



LOWER VALVE HOUSING & SHEATH



Laparoscopic Reusable Trocars and Sleeves

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Trocars for "Lite" and Magna-Close™ Cannula Systems





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Trocars for “Lite” and Magna-Close™ Cannula Systems

- A**  **PYRAMIDAL TIP TROCAR**
High-grade stainless steel construction with precision machined tip for precise straight insertion
- B**  **CONICAL TIP TROCAR**
High-grade stainless steel construction with precision machined sharp tip for precise rotating insertions
- C**  **DILATING TIP TROCAR**
High-grade stainless steel construction with precision machined blunt conical tip for precise rotating—less traumatic rotating insertion
- D**  **BLUNT TIP TROCAR**
High-grade stainless steel construction with precision machined blunt tip for precise rotating—less traumatic rotating insertions
- E**  **SAFETY TIP TROCAR**
High-grade stainless steel construction with precision machined cutting edge and spring-loaded blunt safety plunger
- F**  **PYRAMIDAL PNEUMO-PRESSURE SENSOR SAFETY TROCAR**
High-grade stainless steel construction with precision machined tip for precise straight insertions
- G**  **CONICAL PNEUMO-PRESSURE SENSOR SAFETY TROCAR**
High-grade stainless steel construction with precision machined tip for precise rotating insertions