

Laparoscopic Instruments

Product Catalog



Aesculap Laparoscopy

AESCULAP[®]

Table of Contents

Introduction	4-5	Access & Closure	85-99
Monopolar Instruments	7-61	Access Instruments	86
Single Use	8-11	Insufflation	87
Reusable	12-13	Rigid Trocars	88-95
Reusable	14-61	3.5 mm	88-89
3.5 mm mini	16-19	5 mm	90
Scissors	20-25	10 mm	91
Dissecting Forceps	26-31	12 mm	92
Grasping Forceps	32-51	HASSON	93
Biospy Forceps	52-53	Accessories & Spare Parts	94
Spare parts 3.5 mm, 5 mm & 10 mm	54-55	Additional Instruments	95
Assembly/Disassembly	56-58	Flexible Trocars	96-97
Electrodes	60-61	7 mm & 13 mm	96
Bipolar Instruments	62-64	Accessories & Spare Parts	97
Single use	62-63	Closure	98-99
Reusable	64	Instruments	98-99
Assembly/Disassembly	65	Endoscopes	101-103
Specialty Instruments	66-67	Endoscopes	102
Slide Lock Graspers	68	Light Cables	103
Bulldog Clips	69		
Advanced Urology	70-71		
Needle Holders & Suturing	72-73		
Retractors	74-75		
Suction/Irrigation	76		
Miscellaneous Instruments	77		
Ligation	79-83		
DS Clips	80-81		
Challenger™ Ti-P	82-83		

History

Blending Old World Craftsmanship with Modern Technology



Aesculap AG World Headquarters in Tuttlingen, Germany



Our founding father:
Gottfried Jetter

Aesculap

As the world's largest surgical instrument manufacturer, Aesculap designs and produces surgical instruments, implants and motors for several surgical specialties including: ENT, plastic and reconstructive, thoracic, cardiovascular, orthopedic, gynecologic and general surgery as well as neurosurgery and minimally-invasive surgery.

The company was founded in 1867 by master craftsman Gottfried Jetter in Tuttlingen, Germany. For 150 years, the name Aesculap has been synonymous with quality throughout the world.

Today, modern technology blends with Aesculap Old World tradition to provide healthcare professionals with the widest array of surgical instrumentation available from a single manufacturer.

Aesculap's success derives from a history of:

- Quality craftsmanship
- Surgeons' designs united with instrument expertise
- Total commitment to customer service
- Intense communication with our customers
- National sales force
- National hands-on workshops, specialized by discipline
- Decades of international training at the *Aesculap Academy* – Tuttlingen, Germany

Aesculap's product range:

- Endoscopy
- Surgical instruments for all disciplines
- SterilContainer™ systems
- Neuroendoscopy
- Aneurysm clips
- Power systems
- Spinal implants
- Orthopaedics
- Per-procedure programs
- Repair services
- Consulting services

U.S. Headquarters



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Fax: 610-791-6880
www.aesculapusa.com

U.S. Headquarters

Our U.S. Headquarters, located in Center Valley, Pennsylvania, was established in 1977 to serve the needs of the U.S. market.

Our primary goal is to exceed the expectations of the medical professionals who depend on our products to deliver healthcare to their patients.

Our Customer Service Professionals are dedicated to serving the needs of all of our valued customers.

Please call customer service for:

- Placing orders
- Product information
- Pricing
- Custom product information

Customer Service:

Phone: 800-282-9000

Fax: 610-791-6886

Monopolar Instruments



AdTec™ Single Use Monopolar Instruments



AdTec Single Use

- Single use instruments
- Insulated to the tips
- Ergonomic handle
- One-to-one tactile feedback



AdTec Reposable

- Convenience of single use instrument with cost savings of a reusable
- Easy assembly - one click mechanism
- Insulated to the tips
- Ergonomic handle
- One-to-one tactile feedback

AdTec™ Single Use Monopolar Instruments

mini 3.5 mm

Box of 5	Description	Item No.	Diam.	Length
	METZENBAUM Scissors	P0830SU	3.5 mm	29 cm



	MARYLAND Dissecting forceps	P0831SU	3.5 mm	29 cm
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	Universal grasping forceps, fenestrated	P0833SU	3.5 mm	29 cm
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AdTec™ Single Use Monopolar Instruments

5 mm

Monopolar Instruments

Box of 5	Description	Item No.	Diam.	Length
	METZENBAUM Scissors	P0840SU	5 mm	31 cm



1/1

MARYLAND Dissecting forceps	P0841SU	5 mm	31 cm
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1/1

Pike mouth grasper	P0842SU	5 mm	31 cm
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1/1

Box of 5	Description	Item No.	Diam.	Length
	Universal grasping forceps, fenestrated	PO843SU	5 mm	31 cm



1/1

	BABCOCK Grasping forceps	PO844SU	5 mm	31 cm
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1/1





AdTec™ Repposable Monopolar Instruments

Scissors

Monopolar Instruments

Box of 10	Description	Item No.	Diam.	Length
	METZENBAUM Scissors, slightly curved	PO885SU	5 mm	31 cm
				
1/1				
	Hook scissors	PO886	5 mm	31 cm
				
1/1				
	Mini METZENBAUM Scissors	PO887	5 mm	31 cm
				
1/1				
	METZENBAUM Scissors	PO888	5 mm	31 cm
				
1/1				
	METZENBAUM Scissors	PO889	5 mm	42 cm
				
1/1				

Optional Handles - Interchangeable for 5 mm and 10 mm Instruments

PO958R (Quick-Snap™ Non-Ratchet)	PO959R (Quick-Snap™ Ratchet)	PM950R (Insulated Metal Non-Ratchet)	PM951R (Insulated Metal Ratchet)
			

Dissecting & Grasping Forceps



Box of 10	Description	Item No.	Diam.	Length
	MARYLAND Dissecting forceps	PO891SU	5 mm	31 cm



1/1

	Pike mouth grasper	PO892SU	5 mm	31 cm
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1/1

	Universal grasping forceps, fenestrated	PO893SU	5 mm	31 cm
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1/1

	BABCOCK Grasping forceps	PO894SU	5 mm	31 cm
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1/1

Optional Handles - Interchangeable for 5 mm and 10 mm Instruments

PO958R (Quick-Snap™ Non-Ratchet)	PO959R (Quick-Snap™ Ratchet)	PM950R (Insulated Metal Non-Ratchet)	PM951R (Insulated Metal Ratchet)

AdTec™ Reusable Monopolar Instruments



Jaw Construction

- Non-protruding joints help prevent sutures from getting caught inside joints and unintended tissue cauterization

PEEK Insulation

- PolyEtherEtherKetone (PEEK) provides durable insulation of handle and shaft
- Robust material maintains integrity during sterilization cycles



Modular Design

- Simple assembly and disassembly
- Complete disassembly of the instrument into four components for optimal cleaning
- Validated for sterilization while fully assembled

Cost Effective






- All handles and instrument jaw inserts are fully compatible and interchangeable
- If a component wears out, only the single part and not the entire instrument requires repair or replacement

Ergonomic Handle


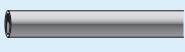



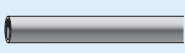

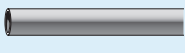



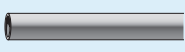

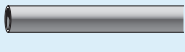


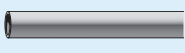



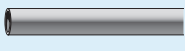
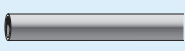

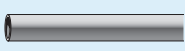
- Innovative design maintains surgeon comfort & reduces hand fatigue
- Handle can be grasped in various positions
- Enlarged rotation knob with slip resistant ridges provides excellent control of the instrument
- Available in ratchet and non-ratchet styles

AdTec™ Reusable Monopolar Instruments

mini 3.5 mm

Complete Instrument				
	Description	Item No.	Diam.	Length
 1/1	METZENBAUM Scissors	PO300R	3.5 mm	29 cm
		PO320R	3.5 mm	20 cm
 1/1	Hook scissors	PO301R	3.5 mm	29 cm
		PO321R	3.5 mm	20 cm
 1/1	MARYLAND Dissecting forceps	PO302R	3.5 mm	29 cm
		PO322R	3.5 mm	20 cm
 1/1	Atraumatic dissecting forceps	PO303R	3.5 mm	29 cm
		PO323R	3.5 mm	20 cm
 1/1	Pyloric spreader	PO304R	3.5 mm	29 cm
		PO324R	3.5 mm	20 cm




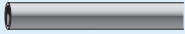



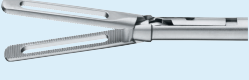


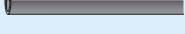


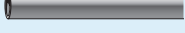






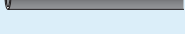


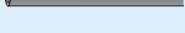

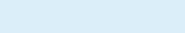



Individual Components				Optional Handles - Interchangeable for 3.5 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0340R 	PM986P 	P0380R 	P0380R (Quick-Snap™ Non-Ratchet) 	
P0360R 	PM987P 			
P0341R 	PM986P 	P0380R 	P0381R (Quick-Snap™ Ratchet) 	
P0361R 	PM987P 			
P0342R 	PM986P 	P0380R 		
P0362R 	PM987P 			
P0343R 	PM986P 	P0380R 		
P0363R 	PM987P 			
P0344R 	PM986P 	P0380R 		
P0364R 	PM987P 			

AdTec™ Reusable Monopolar Instruments

mini 3.5 mm

Complete Instrument				
	Description	Item No.	Diam.	Length
 <p>1/1</p>	DORSEY Intestinal forceps	P0305R	3.5 mm	29 cm
		P0325R	3.5 mm	20 cm
 <p>1/1</p>	Universal grasping forceps, fenestrated	P0306R	3.5 mm	29 cm
		P0326R	3.5 mm	20 cm
 <p>1/1</p>	BABCOCK Grasping forceps, double action	P0307R	3.5 mm	29 cm
		P0327R	3.5 mm	20 cm
 <p>1/1</p>	Biopsy forceps, fenestrated	P0308R	3.5 mm	29 cm
		P0328R	3.5 mm	20 cm
 <p>1/1</p>	Fundus grasper	P0309R	3.5 mm	29 cm
		P0329R	3.5 mm	20 cm




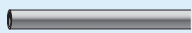



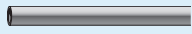



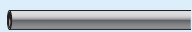



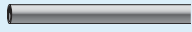







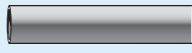



Individual Components			Optional Handles - Interchangeable for 3.5 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
PO345R 	PM986P 	PO381R 	PO380R (Quick-Snap™ Non-Ratchet)  PO381R (Quick-Snap™ Ratchet) 
PO365R 	PM987P 		
PO346R 	PM986P 	PO381R 	
PO366R 	PM987P 		
PO347R 	PM986P 	PO381R 	
PO367R 	PM987P 		
PO348R 	PM986P 	PO381R 	
PO368R 	PM987P 		
PO349R 	PM986P 	PO381R 	
PO369R 	PM987P 		

AdTec™ Reusable Monopolar Instruments

Scissors

		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	METZENBAUM Scissors, serrated, tungsten carbide inserts, Noir™ coating	PO090R	5 mm	31 cm
	1/1	Mini METZENBAUM Scissors, serrated, tungsten carbide inserts, Noir coating	PO091R	5 mm	31 cm
	1/1		PO004R	5 mm	31 cm
	1/1		PO027R	5 mm	42 cm
	1/1	METZENBAUM Scissors, serrated, tungsten carbide inserts, insulated to tip	PM015R	5 mm	31 cm
	1/1	METZENBAUM Scissors, serrated, tungsten carbide inserts	Order by Component	10 mm	31 cm















Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
<p>P0790R</p> 	<p>PM973R</p> 	<p>P0958R</p> 	<p>P0958R (Quick-Snap™ Non-Ratchet)</p> 
<p>P0791R</p> 	<p>PM973R</p> 	<p>P0958R</p> 	<p>P0959R (Quick-Snap™ Ratchet)</p> 
<p>P0603R</p> 	<p>PM973R</p> 	<p>P0958R</p> 	<p>PM950R (Insulated Metal Non-Ratchet)</p> 
<p>P0746R</p> 	<p>PM981R</p> 	<p>P0958R</p> 	<p>PM951R (Insulated Metal Ratchet)</p> 
<p>PM697R</p> 	<p>PM973R</p> 	<p>PM950R</p> 	<p>PM953R (Axial/In-Line)</p> 
<p>PM604R</p> 	<p>PM974R</p> 	<p>P0958R</p> 	<p>PM954R (Ratchet)</p>  <p>PM957R (Ratchet with lock)</p> 

AdTec™ Reusable Monopolar Instruments

Scissors

		Complete Instrument			
		Description	Item No.	Diam.	Length
 1/1	Medium METZENBAUM Scissors, serrated, tungsten carbide inserts	PO030R	5 mm	31 cm	
		PO031R	5 mm	42 cm	
 1/1	Mini METZENBAUM Scissors, serrated, tungsten carbide inserts	PO023R	5 mm	22 cm	
		PO011R	5 mm	31 cm	
		PO028R	5 mm	42 cm	
 1/1	Mini METZENBAUM Scissors, serrated, tungsten carbide inserts, insulated of the tip	PM016R	5 mm	31 cm	
 1/1	Mini METZENBAUM Scissors, serrated, tungsten carbide inserts, insulated of the tip	Order by Component	5 mm	31 cm	



	Individual Components		
	Jaw Insert	Insulated Outer Tube	Standard Handle
	P0655R 	PM973R 	P0958R 
	P0754R 	PM981R 	P0958R 
	PM698R 	PM973R 	PM950R 
	PM710R 	PM973R 	PM950R 

Optional Handles - Interchangeable for 5 mm and 10 mm Instruments

P0958R (Quick-Snap™ Non-Ratchet)



P0959R (Quick-Snap™ Ratchet)



PM950R (Insulated Metal Non-Ratchet)



PM951R (Insulated Metal Ratchet)



PM953R (Axial/In-Line)



PM954R (Ratchet)



PM957R (Ratchet with lock)


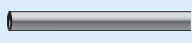







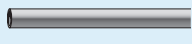



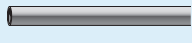



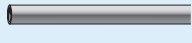



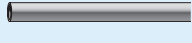



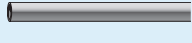

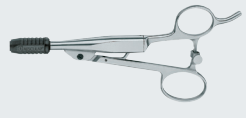


AdTec™ Reusable Monopolar Instruments

Scissors

					Complete Instrument			
		Description	Item No.	Diam.	Length			
 1/1	Hook scissors	P0001R	5 mm	31 cm				
		P0025R	5 mm	42 cm				
 1/1	Peritoneal scissors, serrated	P0002R	5 mm	31 cm				
 1/1	Peritoneal scissors with hook, serrated	P0006R	5 mm	31 cm				
 1/1	POTTS DEMARTELL Scissors	P0003R	5 mm	31 cm				
		Order by Component	5 mm	42 cm				
 1/1	POTTS DEMARTELL Scissors	P0014R	10 mm	31 cm				




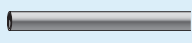







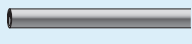




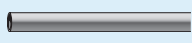



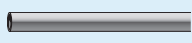



Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0600R 	PM973R 	P0958R 		P0958R (Quick-Snap™ Non-Ratchet) 
P0744R 	PM981R 	P0958R 		P0959R (Quick-Snap™ Ratchet) 
P0601R 	PM973R 	P0958R 		PM950R (Insulated Metal Non-Ratchet) 
P0625R 	PM973R 	P0958R 		PM951R (Insulated Metal Ratchet) 
P0602R 	PM973R 	P0958R 		PM953R (Axial/In-Line) 
P0745R 	PM981R 	P0958R 		PM954R (Ratchet) 
P0682R 	PM992R 	P0958R 		PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Dissecting Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
 <p>1/1</p>	MARYLAND Dissecting forceps	P0102R	5 mm	31 cm	
		P0202R	5 mm	42 cm	
 <p>1/1</p>	MARYLAND Dissecting forceps, insulated to tip	PM165R	5 mm	31 cm	
 <p>1/1</p>	MARYLAND Dissecting forceps, diamond serration	P0237R	5 mm	31 cm	
		P0238R	5 mm	42 cm	
 <p>1/1</p>	CROCE/OLMI Dissecting forceps, fenestrated	P0195R	5 mm	31 cm	
 <p>1/1</p>	Dolphin nose dissecting forceps	P0147R	5 mm	31 cm	




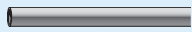



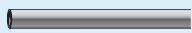















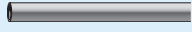







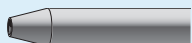

Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
P0608R 	PM973R 	P0958R 	P0958R (Quick-Snap™ Non-Ratchet) 
P0752R 	PM981R 	P0958R 	P0959R (Quick-Snap™ Ratchet) 
PM699R 	PM973R 	PM950R 	PM950R (Insulated Metal Non-Ratchet) 
			PM951R (Insulated Metal Ratchet) 
P0740R 	PM973R 	P0958R 	PM953R (Axial/In-Line) 
P0678R 	PM973R 	P0958R 	PM954R (Ratchet) 
			PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Dissecting Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	Atraumatic dissecting forceps, fine tip	P0100R	5 mm	31 cm
	1/1	Dissecting forceps, slim	Order by Component	5 mm	31 cm
	1/1	Right angle, 90° dissecting forceps	P0187R	5 mm	31 cm
	1/1	MIXTER 90° dissecting forceps	P0231R	5 mm	31 cm
	1/1	Duck bill blunt grasper	P0214R	5 mm	37 cm
	1/1	Duck bill dissecting forceps	P0151R	5 mm	31 cm
	1/1	OVERHOLT 90° dissecting forceps	P0103R	10 mm	31 cm
	1/1	OVERHOLT 90° dissecting forceps, insulated to tip	Order by Component	10 mm	37 cm




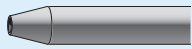



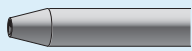



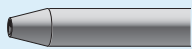



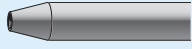



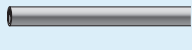



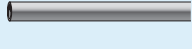



Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
PO605R 	PM973R 	PO958R 	PO958R (Quick-Snap™ Non-Ratchet) 
PM614R 	PM973R 	PO958R 	PO959R (Quick-Snap™ Ratchet) 
P0730R 	PM973R 	PO958R 	PM950R (Insulated Metal Non-Ratchet) 
P0784R 	PM973R 	PO958R 	PM951R (Insulated Metal Ratchet) 
P0767R 	PM976R 	PO958R 	PM953R (Axial/In-Line) 
P0667R 	PM973R 	PO958R 	PM954R (Ratchet) 
PO606R 	PM975R 	PO958R 	PM957R (Ratchet with lock) 
PM701R 	PM978R 	PM950R 	

AdTec™ Reusable Monopolar Instruments

Dissecting Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	OVERHOLT 90° dissecting forceps, fine tip	P0219R	10 mm	37 cm
	1/1	OVERHOLT 60° dissecting forceps	P0141R	10 mm	31 cm
	1/1	OVERHOLT 60° dissecting forceps, insulated to tip	Order by Component	10 mm	31 cm
	1/1	OVERHOLT 60° dissecting forceps, fine tip	P0220R	10 mm	37 cm
	1/1	CRILE Dissecting forceps, curved	P0218R	5 mm	31 cm
			P0213R	5 mm	37 cm




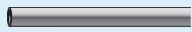



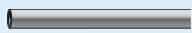

























Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
P0772R 	PM978R 	P0958R 	P0958R (Quick-Snap™ Non-Ratchet) 
P0661R 	PM975R 	P0958R 	P0959R (Quick-Snap™ Ratchet) 
PM700R 	PM975R 	PM950R 	PM950R (Insulated Metal Non-Ratchet) 
P0773R 	PM978R 	P0958R 	PM951R (Insulated Metal Ratchet) 
P0771R 	PM973R 	P0958R 	PM953R (Axial/In-Line) 
P0766R 	PM976R 	P0958R 	PM954R (Ratchet)  PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

Complete Instrument				
	Description	Item No.	Diam.	Length
 1/1	Alligator grasping forceps	P0109R	5 mm	31 cm
 1/1	Fixation forceps	P0127R	5 mm	31 cm
 1/1	Atraumatic wave grasper, single action	P0233R	5 mm	31 cm
		P0234R	5 mm	42 cm
 1/1	Atraumatic wave grasper, double action	P0235R	5 mm	31cm
		P0236R	5 mm	42cm
 1/1	Fundus grasper	P0221R	5 mm	31 cm
		P0230R	5 mm	42 cm




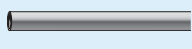



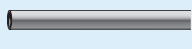







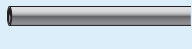



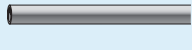



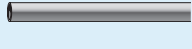



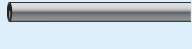


Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0615R 	PM973R 	P0959R 		P0958R (Quick-Snap™ Non-Ratchet) 
P0644R 	PM973R 	P0959R 		P0959R (Quick-Snap™ Ratchet) 
P0786R 	PM973R 	P0959R 		PM950R (Insulated Metal Non-Ratchet) 
P0787R 	PM981R 	P0959R 		PM951R (Insulated Metal Ratchet) 
P0788R 	PM973R 	P0959R 		PM953R (Axial/In-Line) 
P0789R 	PM981R 	P0959R 		PM954R (Ratchet) 
P0774R 	PM973R 	P0959R 		PM957R (Ratchet with lock) 
P0783R 	PM981R 	P0959R 		

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
 <p>1/1</p>	Bowel grasping forceps, fenestrated	P0216R	5 mm	31 cm	
		P0217R	5 mm	42 cm	
 <p>1/1</p>	Universal grasping forceps, fenestrated	P0128R	5 mm	31 cm	
		P0229R	5 mm	42 cm	
 <p>1/1</p>	Universal grasper, fenestrated	P0191R	5 mm	31 cm	
 <p>1/1</p>	CROCE/OLMI Atraumatic forceps	P0185R	5 mm	31 cm	
 <p>1/1</p>	CROCE/OLMI Atraumatic forceps, fenestrated	P0232R	5 mm	31 cm	




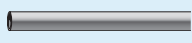







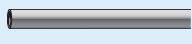



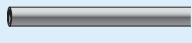



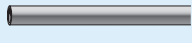



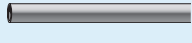



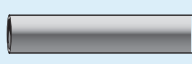


Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0769R 	PM973R 	P0958R 		P0958R (Quick-Snap™ Non-Ratchet) 
P0770R 	PM981R 	P0958R 		P0959R (Quick-Snap™ Ratchet) 
P0647R 	PM973R 	P0959R 		PM950R (Insulated Metal Non-Ratchet) 
P0782R 	PM981R 	P0959R 		PM951R (Insulated Metal Ratchet) 
P0736R 	PM973R 	P0959R 		PM953R (Axial/In-Line) 
P0728R 	PM973R 	P0959R 		PM954R (Ratchet) 
P0785R 	PM973R 	P0959R 		PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
 1/1	Short grasper, fenestrated	P0222R	5 mm	31 cm	
		P0223R	5 mm	42 cm	
 1/1	DORSEY Intestinal forceps	P0112R	5 mm	31 cm	
		P0204R	5 mm	42 cm	
 1/1	Pike mouth grasper	Order by Component	5 mm	22 cm	
		P0107R	5 mm	31 cm	
 1/1	Pike mouth grasper	Order by Component	10 mm	31 cm	








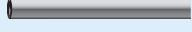







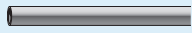



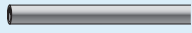



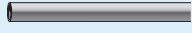


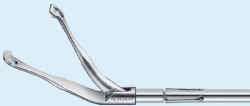
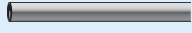


Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
P0775R 	PM973R 	P0959R 	P0958R (Quick-Snap™ Non-Ratchet) 
P0776R 	PM981R 	P0959R 	P0959R (Quick-Snap™ Ratchet) 
P0618R 	PM973R 	P0959R 	PM950R (Insulated Metal Non-Ratchet) 
P0755R 	PM981R 	P0959R 	PM951R (Insulated Metal Ratchet) 
P0634R 	PM970R 	P0959R 	PM953R (Axial/In-Line) 
P0613R 	PM973R 	P0959R 	PM954R (Ratchet) 
PM621R 	PM974R 	P0959R 	PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps







		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	Claw grasper, 2 x 3 teeth	P0117R	10 mm	31 cm
	1/1	Grasping forceps, 2 x 4 teeth	P0132R	5 mm	31 cm
			P0201R	5 mm	42 cm
	1/1	Grasping forceps, 1 x 2 teeth	Order by Component	5 mm	31 cm
	1/1	Grasping forceps, fine teeth	P0134R	5 mm	31 cm
	1/1	BABCOCK Grasping forceps, single action	P0113R	5 mm	31 cm
	1/1	BABCOCK Grasping forceps, single action For use with flexible 13 mm trocars	Order by Component	5 mm	31 cm




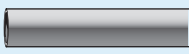



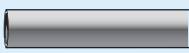











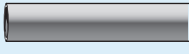







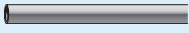



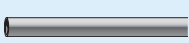

Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0623R 	PM974R 	P0959R 		P0958R (Quick-Snap™ Non-Ratchet) 
P0648R 	PM973R 	P0959R 		P0959R (Quick-Snap™ Ratchet) 
P0749R 	PM981R 	P0959R 		PM950R (Insulated Metal Non-Ratchet) 
PM649R 	PM973R 	P0959R 		PM951R (Insulated Metal Ratchet) 
P0650R 	PM973R 	P0959R 		PM953R (Axial/In-Line) 
P0619R 	PM973R 	P0959R 		PM954R (Ratchet) 
PM640R 	PM973R 	P0959R 		PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
 1/1	BABCOCK Grasping forceps, single action	P0114R	10 mm	31 cm	
		P0205R	10 mm	42 cm	
 1/1	BABCOCK Grasping forceps, double action	P0212R	5 mm	31 cm	
		P0209R	5 mm	42 cm	
 1/1	BABCOCK Grasping forceps, double action	P0196R	10 mm	37 cm	
 1/1	MEYER Grasping forceps, jaw length 90 mm	P0197R	10 mm	37 cm	
 1/1	ALLIS Atraumatic grasping forceps	P0104R	5 mm	31 cm	
 1/1	ALLIS Atraumatic grasping forceps For use with flexible 13 mm trocars	Order by Component	5 mm	31 cm	




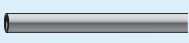



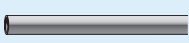


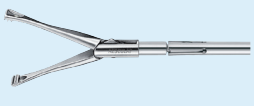
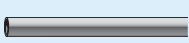


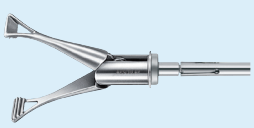


















Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
P0620R 	PM974R 	P0959R 	P0958R (Quick-Snap™ Non-Ratchet) 
P0757R 	PM982R 	P0959R 	P0959R (Quick-Snap™ Ratchet) 
P0765R 	PM973R 	P0959R 	PM950R (Insulated Metal Non-Ratchet) 
P0762R 	PM981R 	P0959R 	PM951R (Insulated Metal Ratchet) 
P0741R 	PM977R 	P0959R 	PM953R (Axial/In-Line) 
P0742R 	PM977R 	P0959R 	PM954R (Ratchet) 
P0610R 	PM973R 	P0958R 	PM957R (Ratchet with lock) 
PM670R 	PM973R 	P0959R 	

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	LINDER Lung grasping forceps For use with flexible 13 mm trocars	Order by Component	5 mm	22 cm
			Order by Component	5 mm	31 cm
	1/1	DUVAL Atraumatic parenchyma fixation forceps	Order by Component	5 mm	31 cm
	1/1	DUVAL Atraumatic parenchyma fixation forceps	Order by Component	10 mm	37 cm
	1/1	KIEFER Atraumatic universal forceps, fenestrated	P0188R	10 mm	31 cm
	1/1	GLASSMAN Clamping forceps, jaw length 60 mm	P0215R	10 mm	31 cm
	1/1	CROCE/OLMI Fixation forceps	P0186R	5 mm	31 cm
	1/1	HEYWOOD-SMITH Tissue grasping forceps	P0105R	10 mm	31 cm








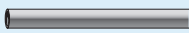



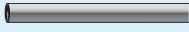



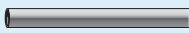



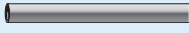



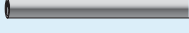



	Jaw Insert	Individual Components Insulated Outer Tube	Standard Handle	Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
	PM696R 	PM970R 	P0958R 	P0958R (Quick-Snap™ Non-Ratchet) 
	PM687R 	PM973R 	P0958R 	P0959R (Quick-Snap™ Ratchet) 
	PM609R 	PM973R 	P0959R 	PM950R (Insulated Metal Non-Ratchet) 
	PM612R 	PM977R 	P0959R 	PM951R (Insulated Metal Ratchet) 
	P0731R 	PM975R 	P0959R 	PM953R (Axial/In-Line) 
	P0768R 	PM974R 	P0959R 	PM954R (Ratchet) 
	P0729R 	PM973R 	P0959R 	PM957R (Ratchet with lock) 
	P0611R 	PM975R 	P0959R 	

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

Complete Instrument				
	Description	Item No.	Diam.	Length
 <p>1/1</p>	PENNINGTON Tissue grasping forceps	Order by Component	10 mm	37 cm
 <p>1/1</p>	Curved grasper	PO211R	5 mm	31 cm
		PO208R	5 mm	42 cm
 <p>1/1</p>	Fixation forceps, fenestrated, fine serration	PO149R	5 mm	31 cm
 <p>1/1</p>	Fixation forceps, fenestrated, medium size serration	PO206R	5 mm	31 cm
 <p>1/1</p>	Atraumatic grasping forceps, fenestrated	PO130R	5 mm	31 cm




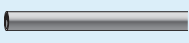







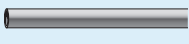



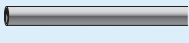



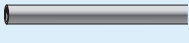



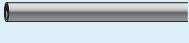



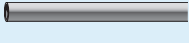


Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
PM679R 	PM977R 	P0959R 	P0958R (Quick-Snap™ Non-Ratchet) 
P0764R 	PM973R 	P0958R 	P0959R (Quick-Snap™ Ratchet) 
P0761R 	PM981R 	P0958R 	PM950R (Insulated Metal Non-Ratchet) 
P0680R 	PM973R 	P0958R 	PM951R (Insulated Metal Ratchet) 
P0758R 	PM973R 	P0958R 	PM953R (Axial/In-Line) 
P0646R 	PM973R 	P0958R 	PM954R (Ratchet) 
			PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps







					Complete Instrument			
		Description	Item No.	Diam.	Length			
 <p>1/1</p>	Atraumatic fixation forceps	Order by Component	5 mm	22 cm				
		P0101R	5 mm	31 cm				
		P0199R	5 mm	42 cm				
 <p>1/1</p>	Bullet nose grasper	P0190R	5 mm	31 cm				
		P0203R	5 mm	42 cm				
 <p>1/1</p>	Tube fixation forceps	P0129R	5 mm	31 cm				
		P0200R	5 mm	42 cm				




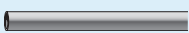



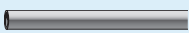



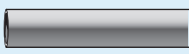







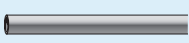



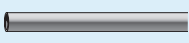



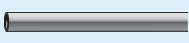


Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0633R 	PM970R 	PM958R 		PO958R (Quick-Snap™ Non-Ratchet) 
P0607R 	PM973R 	PM958R 		PO959R (Quick-Snap™ Ratchet) 
P0747R 	PM981R 	PM958R 		PM950R (Insulated Metal Non-Ratchet) 
P0735R 	PM973R 	PM958R 		PM951R (Insulated Metal Ratchet) 
P0753R 	PM981R 	PM958R 		PM953R (Axial/In-Line) 
P0645R 	PM973R 	PO958R 		PM954R (Ratchet) 
P0748R 	PM981R 	PO958R 		PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

					Complete Instrument				
					Description	Item No.	Diam.	Length	
					Oval grasper	PO210R	5 mm	31 cm	
						PO207R	5 mm	42 cm	
					Tube grasping forceps, roller jaws	Order by Component	10 mm	31 cm	
					Fixation forceps	Order by Component	10 mm	31 cm	
					MASSOUND Delicate forceps For use with flexible 13 mm trocars	PO189R	5 mm	31 cm	
					ALLIS Grasping forceps	PO111R	5 mm	31 cm	
					Tenaculum forceps	PO224R	5 mm	31 cm	



Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0763R 	PM973R 	P0958R 		P0958R (Quick-Snap™ Non-Ratchet) 
P0760R 	PM981R 	P0958R 		P0959R (Quick-Snap™ Ratchet) 
P0743R 	PM974R 	P0959R 		PM950R (Insulated Metal Non-Ratchet) 
PM681R 	PM974R 	P0959R 		PM951R (Insulated Metal Ratchet) 
P0734R 	PM973R 	P0958R 		PM953R (Axial/In-Line) 
P0617R 	PM973R 	P0959R 		PM954R (Ratchet) 
P0777R 	PM973R 	P0959R 		PM957R (Ratchet with lock) 

AdTec™ Reusable Monopolar Instruments

Grasping Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	Tenaculum forceps	P0225R	10 mm	31 cm
	1/1	Lymph node grasping forceps	P0194R	5 mm	22 cm
	1/1	Lymph node fixation forceps	Order by Component	10 mm	31 cm
	1/1	DE BAKEY Atraumatic forceps, jaw length 40 mm	Order by Component	5 mm	31 cm
	1/1	DE BAKEY Atraumatic forceps, jaw length 50 mm	P0137R	5 mm	42 cm
	1/1	DE BAKEY Atraumatic forceps, jaw length 65 mm	Order by Component	5 mm	31 cm
	1/1	DE BAKEY Atraumatic forceps, jaw length 30 mm	Order by Component	10 mm	37 cm
	1/1	DE BAKEY Atraumatic forceps, jaw length 50 mm	Order by Component	10 mm	22 cm
			P0118R	10 mm	37 cm



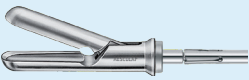






























Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
P0778R 	PM974R 	P0959R 	<p>P0958R (Quick-Snap™ Non-Ratchet) </p> <p>P0959R (Quick-Snap™ Ratchet) </p> <p>PM950R (Insulated Metal Non-Ratchet) </p> <p>PM951R (Insulated Metal Ratchet) </p> <p>PM953R (Axial/In-Line) </p> <p>PM954R (Ratchet) </p> <p>PM957R (Ratchet with lock) </p>	
P0739R 	PM970R 	P0959R 		
PM688R 	PM974R 	P0959R 		
PM657R 	PM973R 	P0959R 		
P0657R 	PM981R 	P0959R 		
PM658R 	PM973R 	P0959R 		
PM651R 	PM977R 	P0959R 		
PM712R 	PM992R 	PM959R 		
P0624R 	PM977R 	P0959R 		

AdTec™ Reusable Monopolar Instruments

Biopsy Forceps

		Complete Instrument			
		Description	Item No.	Diam.	Length
 <p>1/1</p>	Large biopsy forceps	P0500R	10 mm	31 cm	
	 <p>1/1</p>	Biopsy forceps, fenestrated	P0501R	5 mm	31 cm
 <p>1/1</p>		Biopsy forceps with teeth	P0509R	5 mm	42 cm
	 <p>1/1</p>	Biopsy punch forceps	P0505R	5 mm	31 cm
 <p>1/1</p>		Biopsy punch forceps	P0511R	5 mm	42 cm
	 <p>1/1</p>	Biopsy punch forceps	P0502R	5 mm	31 cm
 <p>1/1</p>		Biopsy punch forceps	P0512R	5 mm	42 cm
	 <p>1/1</p>	Biopsy punch forceps	P0510R	5 mm	42 cm




















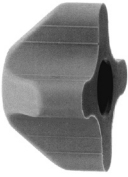
Individual Components			Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle	
P0705R 	PM974R 	P0958R 	P0958R (Quick-Snap™ Non-Ratchet) 
P0626R 	PM973R 	P0958R 	P0959R (Quick-Snap™ Ratchet) 
P0750R 	PM981R 	P0958R 	PM950R (Insulated Metal Non-Ratchet) 
P0652R 	PM973R 	P0958R 	PM951R (Insulated Metal Ratchet) 
P0756R 	PM981R 	P0958R 	PM953R (Axial/In-Line) 
P0627R 	PM973R 	P0958R 	PM954R (Ratchet) 
P0759R 	PM981R 	P0958R 	PM957R (Ratchet with lock) 
P0751R 	PM981R 	P0958R 	

AdTec™ Reusable Monopolar Instruments

Spare Parts

Monopolar Instruments

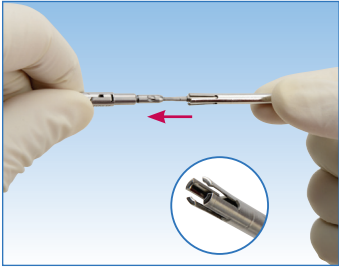
3.5 mm Instruments		Item No.	Diam.	Length
		PO362810	3.5 mm	20 cm
		PO342810	3.5 mm	29 cm
		PM987P	3.5/3.5 mm	20 cm
		PM986P	3.5/3.5 mm	29 cm
5 mm and 10 mm Instruments		Item No.	Diam.	Length
		PM630201	-	22 cm
		PM600201	-	31 cm
		PM618201	-	37 cm
		PM434201	-	42 cm
		PM970R	5/5 mm	22 cm
		PM971R	5/10 mm	22 cm
		PM992R	10/10 mm	22 cm
		PM973R	5/5 mm	31 cm
		PM975R	5/10 mm	31 cm
		PM974R	10/10 mm	31 cm
		PM976R	5/5 mm	37 cm
		PM978R	5/10 mm	37 cm
		PM977R	10/10 mm	37 cm
		PM981R	5/5 mm	42 cm
		PM982R	10/10 mm	42 cm

HF Contact Pin	Description	Item No.
	PO handles package of 5 pieces	P0950400
	PM handles and monopolar electrode package of 5 pieces	PL170251
Rotation Knobs	Description	Item No.
	Rotation knob for PM950R and PM951R only. Package of 5 pieces	PM950250

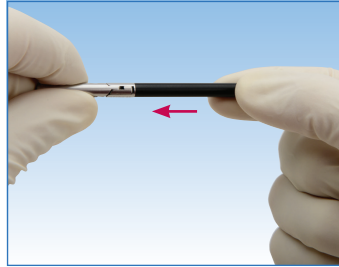
AdTec™ Reusable Monopolar Instruments

Instructions for quick and easy assembly and disassembly For use with PM950R and PM951R insulated metal handles

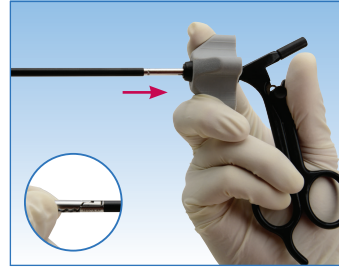
Assembly



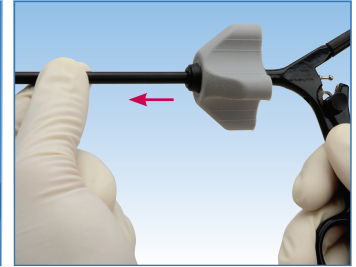
STEP 1
Slide the inner metal tube onto the jaw insert with its four spring tongues towards the working end until the tongues snap into place.



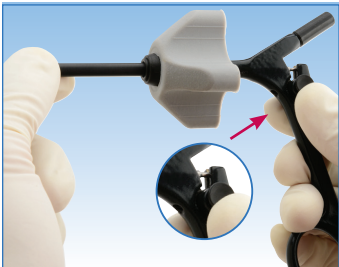
STEP 2
Slide the outer insulation tube as far as it will go over the inner metal tube.



STEP 3
Hold the shaft firmly by its tip and pull back the handle rotation knob with fingers and maintain hold. Fully insert the shaft and release the rotation knob.



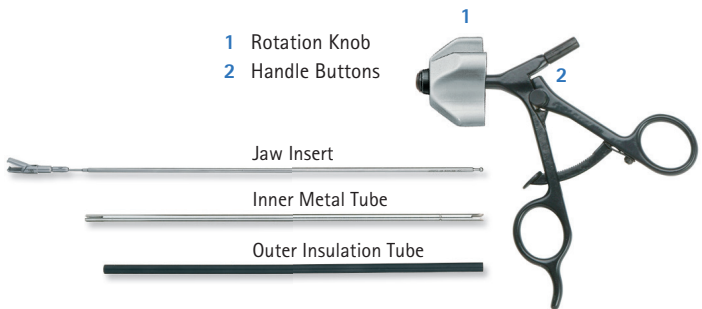
STEP 4
Test that the instrument is secured in the handle by pulling on the shaft. If the shaft pulls out of the handle, then repeat step 3 and step 4.



STEP 5
Connect the handle with the jaw insert ball joint, by depressing the black handle buttons on both sides of the handle. Continue to depress and lift the rear ring of the handle under the ball joint of the jaw insert until captured by the handle. Release the buttons.



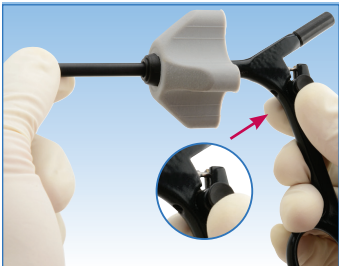
STEP 6
Test the assembly of the instrument by opening and closing the handle to ensure the jaw is opening and closing with handle movement.



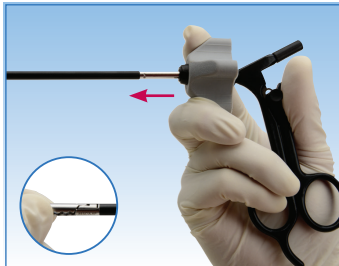
Maintenance:

- This product can be sterilized in a disassembled or assembled condition
- For advice on cleaning, disinfection and sterilization, please follow the instructions for use found at www.aesculapusa.com/IFU

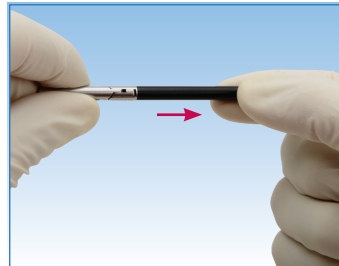
Disassembly



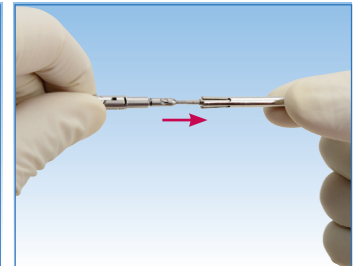
STEP 1
Depress the black handle buttons on both sides of handle, continue to depress, pull rear ring down to release ball of jaw insert. Release the buttons.



STEP 2
Pull back the rotation knob and pull out the shaft with other hand. Release the rotation knob.



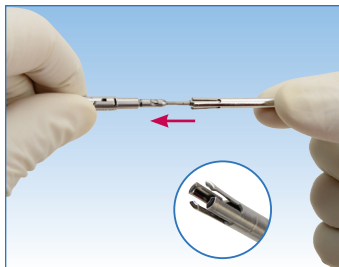
STEP 3
Hold the jaw insert at the tip and remove the outer insulation tube.



STEP 4
Hold the jaw insert at the tip and remove the inner metal tube.

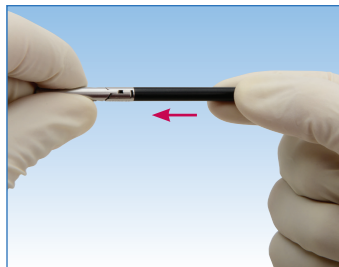
Instructions for quick and easy assembly and disassembly For use with QUICK-SNAP™ P0958R and P0959R handles

Assembly



STEP 1

Slide the inner metal tube onto the jaw insert with its four spring tongues towards the working end until the tongues snap into place.



STEP 2

Slide the outer insulation tube as far as it will go over the inner metal tube.



STEP 3

If the red ring is not visible, pull the rotation knob back. If you are using the ratchet style handle, deactivate the ratchet by flipping down the red toggle switch.



STEP 4

Hold the shaft firmly by its tip and the handle behind the rotation knob. Push the shaft into the handle until it locks in place and the red ring disappears. Note: Do not hold onto the movable handle component.



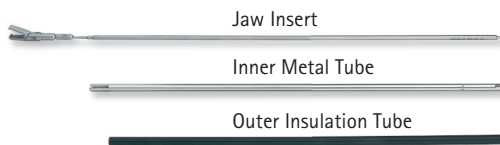
STEP 5

Test the assembly of the instrument by opening and closing the handle to ensure the jaw is opening and closing with handle movement.

Maintenance:

- This product can be sterilized in a disassembled or assembled condition
- For advice on cleaning, disinfection and sterilization, please follow the instructions for use found at www.aesculapusa.com/IFU

- 1 Toggle Switch
- 2 Rotation Knob
- 3 Movable Handle Component

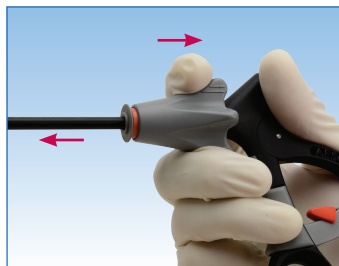


Disassembly



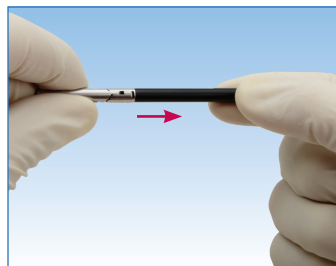
STEP 1

If ratchet style handle, deactivate the ratchet by flipping down the red toggle switch.



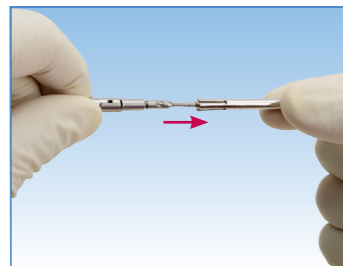
STEP 2

Pull the rotation knob back until it locks into place. A red ring will become visible. Once visible remove the shaft by pulling the instrument shaft out of the handle.



STEP 3

Hold the jaw insert at the tip and remove the outer insulation tube.



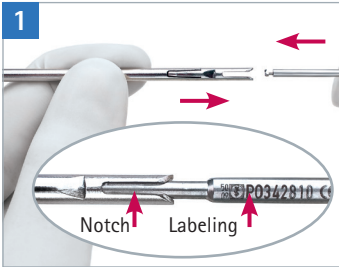
STEP 4

Hold the jaw insert at the tip and remove the inner metal tube.

AdTec™ mini Reusable Monopolar Instruments

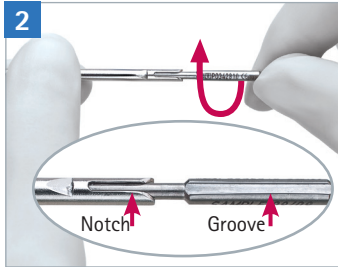
Instructions for quick and easy assembly and disassembly For use with QUICK-SNAP™ PO380R and PO381R handles

Assembly



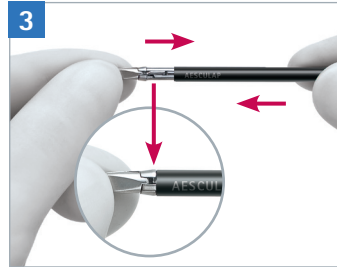
Assemble shaft

Slide the push rod into the jaw insert as far as it will go making sure that the labeling on the push rod is in line with the notch of the jaw insert.



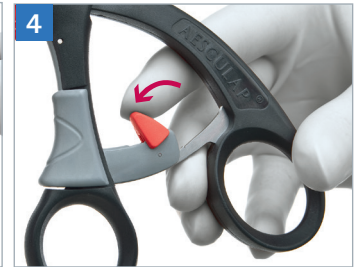
Assemble shaft

Rotate the push rod 90° clockwise until it locks into place. The groove is then in line with the notch.



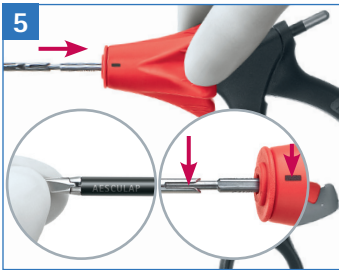
Assemble shaft

Slide the outer tube as far as it will go over the jaw insert.



Deactivate ratchet on ratchet handle

Flip down the red toggle switch.



Connect shaft and handle

Hold the tip of the shaft and the rotation knob of the handle firmly. Slide the shaft into the handle until it locks into place, making sure that the jaw insert notch is in line with the mark on the rotating knob.

Important: Do not touch the movable part of the handle.



Function test

Test the assembly of the instrument by opening and closing the handle to ensure the jaw is functioning properly.

Disassembly



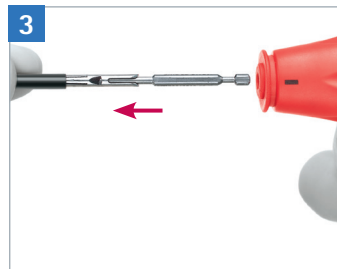
Deactivate ratchet on ratchet handle

Flip down red toggle switch.



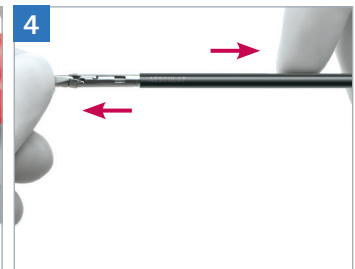
Disconnect shaft and handle

Pull rotation knob back and let movable part of the handle move downwards.



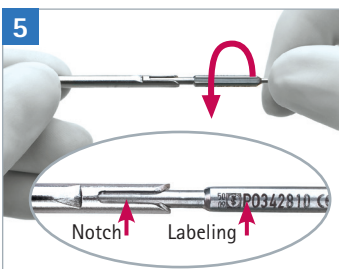
Remove shaft from handle

Remove the shaft by pulling the instrument shaft out of the handle.



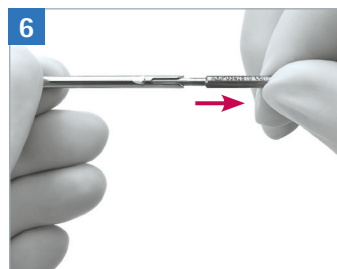
Disassemble shaft

Hold the jaw insert at the tip and remove the outer tube.



Disassemble shaft

Rotate the push rod 90° counterclockwise until the labeling is in line with the notch of the jaw part.







Disassemble shaft

Remove the push rod.

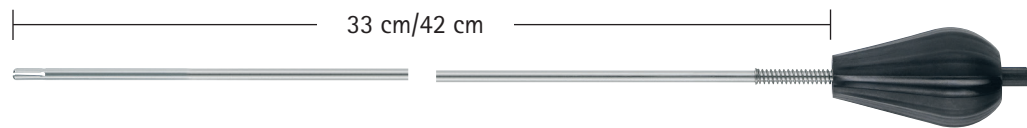
Monopolar Electrodes

Monopolar Electrodes	Description	Item No.	Diam.	Length
	Handle for monopolar laparoscopy electrodes	GK372R	5 mm	33 cm
		GK374R	5 mm	42 cm

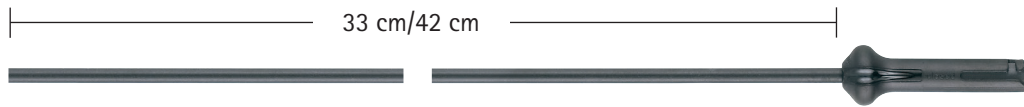


	J Hook electrode tip	GK383R		
	L Hook electrode tip	GK384R		
	Ball electrode tip	GK385R		
	Spatula electrode tip	GK386R		

Spare Parts (Components of GK372R / GK374R)	Description	Item No.	Diam.	Length
	Handle with inner tube	GK373R	5 mm	33 cm
		GK375R	5 mm	42 cm




	Separate outer tube	GK370P	5 mm	33 cm
		GK376P	5 mm	42 cm



Micropin Electrode	Description	Item No.	Diam.	Length
	Low-energy micropin	GK390R	5 mm	33 cm



Spare Parts (Components of GK390R)	Description	Item No.	Diam.	Length
	Pin electrode only (pack of 5 pcs.)	GK389R		
	Handle with inner tube	GK373R	5 mm	33 cm
	Separate outer tube	GK371P	5 mm	33 cm

Monopolar Electrode	Description	Item No.	Diam.	Length
	L-Hook electrode for use with electrode handle GN230	GK397R	3.5 mm	20 cm
		GK398R	3.5 mm	29 cm



AdTec™ Single Use Bipolar Instruments






Bipolar Single Use Instruments

- Excellent coagulation results
- Jaws feature ceramic insulation
- Insulated to the tip
- Non-protruding joints
- Ergonomic handle design
- One-to-one tactile feedback
- Compatible with all bipolar generators

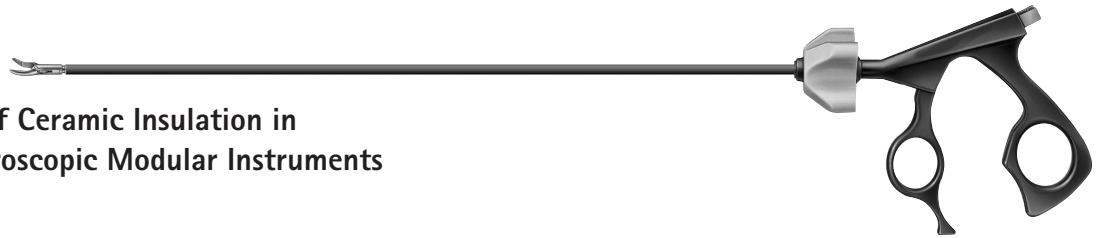
Scissors (box of 6)	Description	Item No.	Diam.	Length
 <small>1/1</small>	METZENBAUM Scissors	PL700	5 mm	31 cm



Forceps (box of 6)	Description	Item No.	Diam.	Length
 <small>1/1</small>	MARYLAND Dissection forceps, fenestrated	PL701	5 mm	31 cm
 <small>1/1</small>	MARYLAND Dissection forceps	PL702SU	5 mm	31 cm
 <small>1/1</small>	Macro grasping forceps	PL703SU	5 mm	31 cm









AdTec™ Reusable Bipolar Instruments



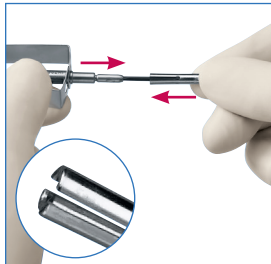
The enhanced safety of Ceramic Insulation in Reusable Bipolar Laparoscopic Modular Instruments

Bipolar Instruments

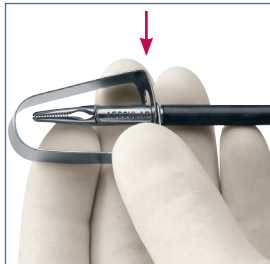
	Complete Instrument	Individual Components		
		Jaw Insert	Insulated Outer Tube	Standard Handle
	PM409R - METZENBAUM Scissors, 5 mm, 22 cm	PM439R	PM970R	PM450R
	PM400R - METZENBAUM Scissors, 5 mm, 31 cm 1/1	PM430R	PM973R	PM450R
	PM404R - METZENBAUM Scissors, 5 mm, 42 cm	PM434R	PM981R	PM450R
	PM414R - Mini METZENBAUM Scissors, 5 mm, 22 cm	PM444R	PM970R	PM450R
	PM407R - Mini METZENBAUM Scissors, 5 mm, 31 cm 1/1	PM437R	PM973R	PM450R
	PM410R - MARYLAND dissecting forceps, 5 mm, 22 cm	PM440R	PM970R	PM450R
	PM401R - MARYLAND dissecting forceps, 5 mm, 31 cm 1/1	PM431R	PM973R	PM450R
	PM405R - MARYLAND dissecting forceps, 5 mm, 42 cm	PM435R	PM981R	PM450R
	PM413R - MARYLAND dissecting forceps, fenestrated, 5 mm, 22 cm	PM443R	PM970R	PM450R
	PM408R - MARYLAND dissecting forceps, fenestrated, 5 mm, 31 cm 1/1	PM438R	PM973R	PM450R
	PM415R - MARYLAND dissecting forceps, fenestrated, 5 mm, 42 cm	PM445R	PM981R	PM450R
	PM402R - Micro forceps, 5 mm, 31 cm 1/1	PM432R	PM973R	PM450R
	PM412R - Macro forceps, 5 mm, 22 cm	PM442R	PM970R	PM450R
	PM403R - Macro forceps, 5 mm, 31 cm 1/1	PM433R	PM973R	PM450R
	PM406R - Macro forceps, 5 mm, 42 cm	PM436R	PM981R	PM450R
	PM433220 - Jaw protection cap			

AdTec™ Reusable Bipolar Instruments

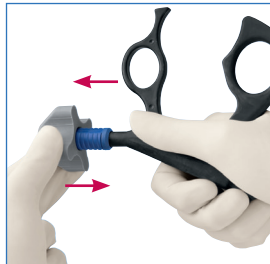
Assembly



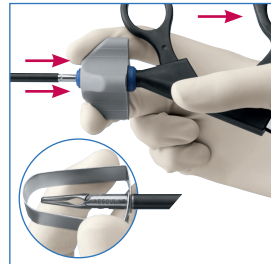
1. Assemble Shaft I
Slide the metal inner tube onto the jaw insert with its four spring tongues towards the working end until the tongues snap in place.



2. Assemble Shaft II
Slide the outer insulation tube as far as it will go over the inner metal tube.



3. Prepare Handle
Push the grey rotation knob onto the handle from the front. Bring the movable handle component into its forward position.



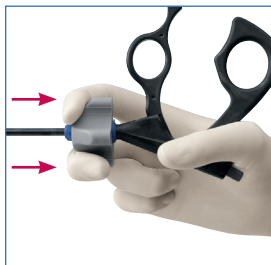
4. Connect Shaft and Handle
Pull the rotation knob back and hold it. Hold the shaft firmly by its protecting cap and push it into the handle. Release the rotation knob, which moves forward.

Important: Do not hold on to the movable handle component.

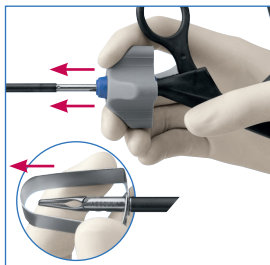


5. Function Test
Test the assembly of the instrument by opening and closing the handle to ensure the jaw is opening and closing.

Disassembly



1. Disconnect Shaft and Handle
Pull the rotation knob back and hold it in this position.

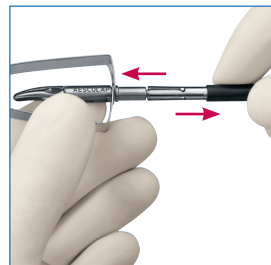


2. Remove Shaft from Handle
Hold the jaw insert firmly by its protecting cap and pull it out of the handle.

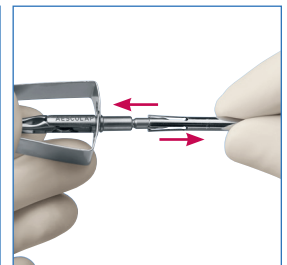
Important: Do not hold on to the movable handle component.



3. Disassemble Handle
Pull the grey rotation knob forwards off the handle.

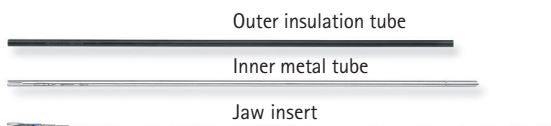


4. Disassemble Shaft I
Hold the jaw insert at the protecting cap and remove the outer insulation tube.



5. Disassemble Shaft II
Hold the jaw insert at the protecting cap and remove the inner metal tube.

Care



- 1 Protecting cap
- 2 Rotation knob
- 3 Movable handle component

Lubricate the defined places on the instruments (instruments jaw and red toggle switch) with Aesculap Sterilit® Oil after each cleaning cycle.

Reprocessing & Accessories

- Reprocess the product immediately after use
- The product can be sterilized either in disassembled or in assembled condition
- For advice on cleaning, disinfection and sterilization, please follow the instructions for use. For effective cleaning, particularly of the jaws, we recommend B. Braun Stabimed®.
- For the latest information on reprocessing, please also refer to the Aesculap website at www.aesculapusa.com
- For accessories and spare parts, please refer to Brochure C758 or visit www.endoscopy-catalog.com

Repairs





In order to ensure the preservation of full guarantee and warranty rights, only persons authorized by Aesculap may carry out repairs. Please send articles for repair to: Aesculap Technical Service, Am Aesculap-Platz, D-78532 Tuttlingen, Germany. Additional service addresses may be obtained from the same address or via ats@aesculap.de

Specialty Instruments

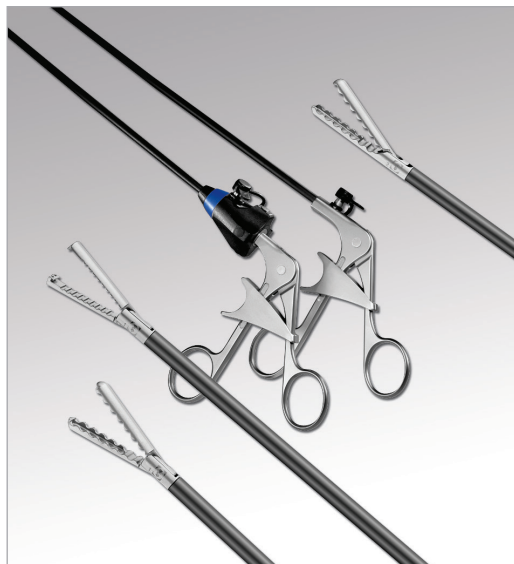


Slide Lock Graspers

- Proven durability and holding power
- Excellent tissue and grip control
- Single and dual action models
- Fingertip rotation knob for optimal one-handed control
- Single piece instrument, flush port cleanable







	Description	Sovereign®	
		36 cm	42 cm
	1/1 Atraumatic grasper, single action, non-rotatable, 5 mm	PL230R	PL231R
	1/1 Atraumatic grasper, double action, rotatable, 5 mm	PL232R	PL233R
	1/1 Retraction grasper, single action, non-rotatable, 5 mm	PL234R	—
	1/1 Retraction grasper, double action, rotatable, 5 mm	PL235R	—


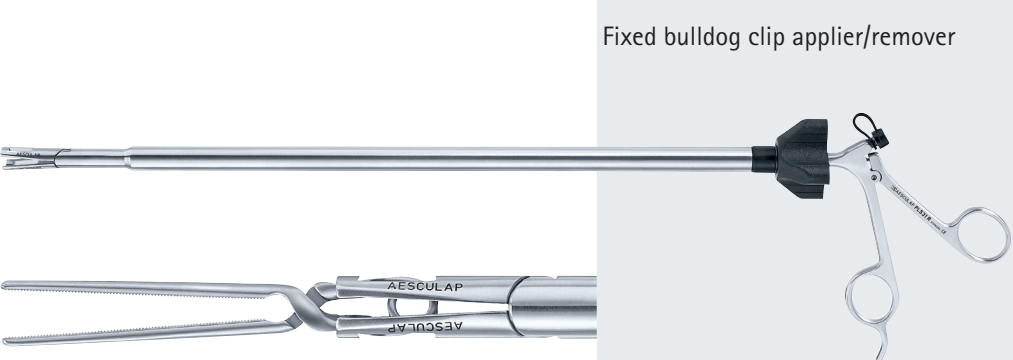
Specialty Instruments



Sovereign® Graspers










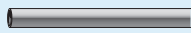



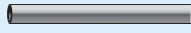



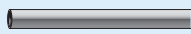



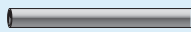






Bulldog Clips

	Description	Item No.	Closing Force	Jaw Length	Jaw Shape
 	Intestinal bulldog clip for temporary atraumatic occlusion	PL541S	400 g	70 mm	Straight
	Vessel bulldog clips with DEBAKEY jaws for temporary atraumatic occlusion	PL544S	350 g	25 mm	Straight
		PL545S	450 g	45 mm	Straight
		PL548S	350 g	25 mm	Curved
		PL549S	450 g	45 mm	Curved

	Description	Item No.	Diameter	Length
	Articulating bulldog clip applicator/remover	PL530R	12.5 mm	35 cm
	Fixed bulldog clip applicator/remover	PL531R	12.5 mm	35 cm
	Replacement rotation knob	PL664P		

Specialty Instruments: Advanced Urology

		Complete Instrument			
		Description	Item No.	Diam.	Length
	1/1	CRAFOORD Endovascular Clamp, Short Jaw, <i>For use with 10 mm trocars</i>	PM173R	5 mm	31 cm
	1/1	CRAFOORD Endovascular Clamp, Long Jaw, <i>For use with 10 mm trocars</i>	PM178R	5 mm	31 cm
	1/1	SATINSKY Atraumatic Clamp, 38 mm Jaw, <i>For use with 13 mm flexible trocars</i>	PM171R	5 mm	31 cm
	1/1	SATINSKY Atraumatic Clamp, 51 mm Jaw, <i>For use with 13 mm flexible trocars</i>	PM177R	5 mm	31 cm
	1/1	DEBAKEY Atraumatic Clamp, S-shaped, <i>For use with 13 mm flexible trocars</i>	PM176R	5 mm	31 cm
	1/1	DEBAKEY Atraumatic Clamp, Curved, <i>For use with 13 mm flexible trocars</i>	PM175R	5 mm	31 cm
	1/1	SIMON Renal Pole Clamp, 100 mm Jaw	PO228R	10 mm	37 cm

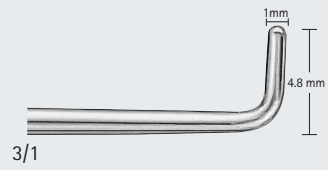
Individual Components				Optional Handles - Interchangeable for 5 mm and 10 mm Instruments
Jaw Insert	Insulated Outer Tube	Standard Handle		
PM713R 	PM973R 	PM957R 	PO958R (Quick-Snap™ Non-Ratchet) 	
PM719R 	PM973R 	PM957R 	PO959R (Quick-Snap™ Ratchet) 	
PM711R 	PM973R 	PM957R 	PM950R (Insulated Metal Non-Ratchet) 	
PM616R 	PM973R 	PM957R 	PM951R (Insulated Metal Ratchet) 	
PM689R 	PM973R 	PM957R 	PM953R (Axial/In-Line) 	
PM671R 	PM973R 	PM957R 	PM954R (Ratchet) 	
PO781R 	PM974R 	PM959R 	PM957R (Ratchet with lock) 	

Needle Holders and Suturing



Extracorporeal	Description	Item No.	Diam.	Length
1/1	Durogrip™ needle holder, straight, tungsten carbide inserts (PO959R handle)	PO550R	5 mm	31 cm
1/1	Durogrip needle holder, curved tungsten carbide inserts (PO959R handle)	PO559R	5 mm	31 cm
1/1	Knot pushing forceps	PM654R PM973R PO958R	5 mm	31 cm
1/1	CROCE/OLMI Dissecting and suture scissors with knot pusher (PO958R handle)	PO022R	5 mm	31 cm
1/1	Knot Pusher	PL651R	5 mm	31 cm
1/1		PL432R	5 mm	31 cm
3/1	Suture hook for intracorporeal tightening of the suture line by pulling on the suture throws in case of continuous anastomosis	PO193R	5 mm	33 cm
1/1	Loop applicator, 4.5 mm inner diameter	PL650R	5 mm	15 cm
	Sealing cap, box of 20	PL650250		

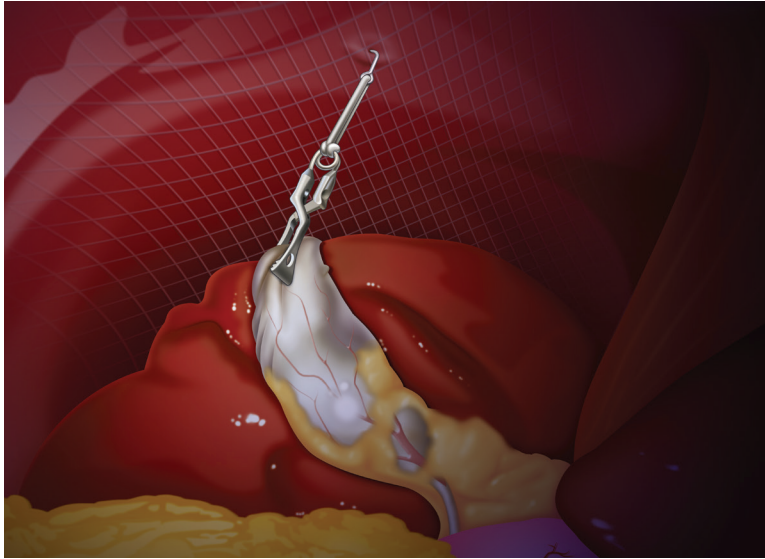
Specialty Instruments





Intracorporeal	Description	Item No.	Diam.	Length
 1/1	Durogrip™ TC needle holder, straight	PL419R	3.5 mm	20 cm
		PL418R	3.5 mm	29 cm
 1/1	Durogrip TC needle holder, straight	PL407R	5 mm	31 cm
		PL404R	5 mm	37 cm
		PL416R	5 mm	42 cm
 1/1	Durogrip TC needle holder, curved left	PL408R	5 mm	31 cm
		PL405R	5 mm	37 cm
		PL417R	5 mm	42 cm
 1/1	Durogrip TC needle holder, curved right	PL413R	5 mm	31 cm
		PL415R	5 mm	37 cm
 1/1	"The Viper" Durogrip TC suture Assistant/ needle holder, 2 x 3 Teeth	PL409R	5 mm	31 cm
 1/1	Super righting needle holder	PL414R	5 mm	31 cm
 1/1	Durogrip TC needle holder, fenestrated	PL410R	5 mm	31 cm
 1/1	Durogrip TC needle holder, crimped/ fenestrated	PL411R	5 mm	31 cm

Cinch Organ Retractor



Secure





- Atraumatic retraction clip provides firm grasp on tissue and reliable needle attaches to the parietal peritoneum

Efficient

- Easy, rapid clip application and removal
- Mostly reusable components provide a cost-effective retraction solution

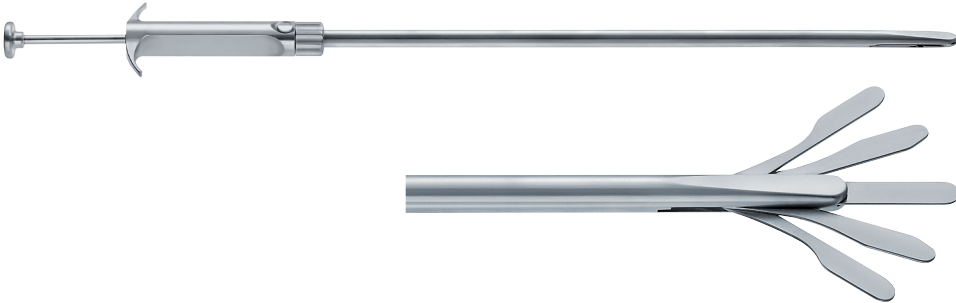
Versatile

- Medical grade latex-free silicone band offers a range of retractor placement
- Applicable for various multi-port and single incision procedures

Components	Description	Item No.
	Reusable atraumatic clip, 5.00 N (510 g) closing force	PL593R
	Silicone ring with needle, sterile, single-use, box of 12 All components of packaging are latex free.	PL595SU
	Articulating clip applicator/remover, 12.5 mm, 35 cm	PL530R
	Fixed clip applicator/remover, 12.5 mm, 35 cm	PL531R

Retractors





Description	Item No.	Diam.	Length
Fan retractor	PL680R	10 mm	40 cm






Prostate retractor	PL682R	10 mm	37 cm
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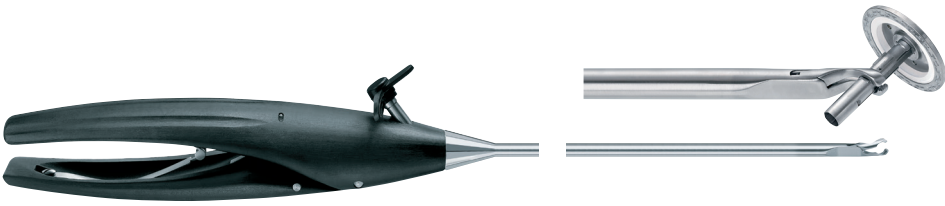






Suction / Irrigation

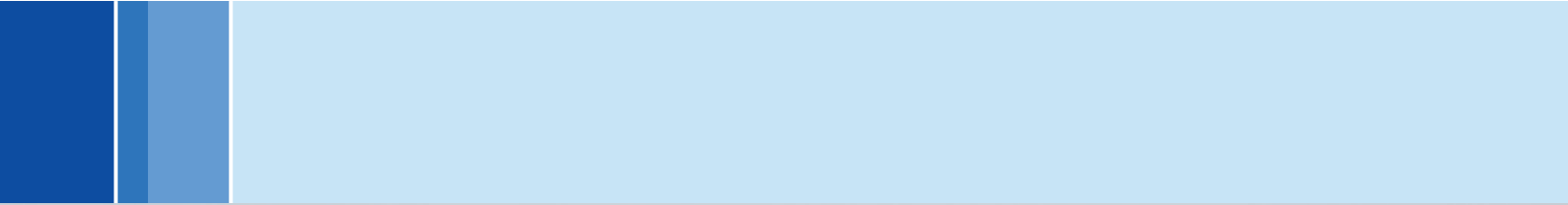
Description	Item No.	Diameter	Length
Suction/irrigation tube with finger valve, luer-lock connection 	GF320R	5 mm	33 cm
Suction/Irrigation Tube, Luer-Lock connection 	GF321R	5 mm	33 cm
Puncture needle with finger valve, luer-lock connection, 2 mm (12 gauge) distal tip diameter 	SR553R	5 mm	45 cm
Injection cannula, straight, distal tip diameter 0.8 mm 	SR554R	5 mm	37 cm

Description	Item No.	Diam.	Length
Suction irrigation tube with two-way-stopcock 	PG027R	5 mm	33 cm
Suction irrigation tube with trumpet valve 	GF324R	5 mm	30 cm
Suction irrigation tube with trumpet valve 	GF325R	10 mm	40 cm

Miscellaneous Instruments

Description	Item No.	Diameter	Length
Cholangiogram clamp with catheter guide (maximum catheter diameter: 5 french)	PL100R	5 mm	33 cm
			
Replacement sealing cap (gray)	PL401230		
Replacement sealing cap (black)	EJ751200		
Anvil grasper	PL406R	10 mm	37 cm
			
Endo vessel spatula	PL657R	5 mm	33 cm
			
Dissection spatula, semi-sharp	PL659R	5 mm	33 cm
			
Endo pleural elevator	PL663R	5 mm	31 cm
			
Myoma drill	PL430R	5 mm	31 cm
			

Ligation



Ligation

DS Ligation Clips

DS Single Fire Ligation Clips

DS Single Fire Ligation Clips: Innovative, Reliable, Convenient

Innovative: This system is innovative and unique in the segment of Titanium Ligation Clips.




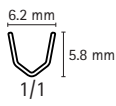

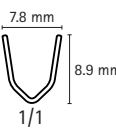
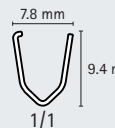
Reliable: The DS Clip offers a firm hold on the clipped structure.

Convenient: The system is easy to use. It does not require an adaption of the order of operation.

Distal to proximal clip closure

- Prevents pushing out tissue during closure





Size	Color Code	Clip without Latch	Clip with Latch	Clips per Cartridge	No. of Cart. per Box
					
Medium		 <p>6.2 mm 5.8 mm 1/1</p> <p>PL459SU</p>		6	15
Medium-Large		 <p>7.8 mm 8.9 mm 1/1</p> <p>PL462SU</p>	 <p>7.8 mm 9.4 mm 1/1</p> <p>PL465SU</p>	6	15

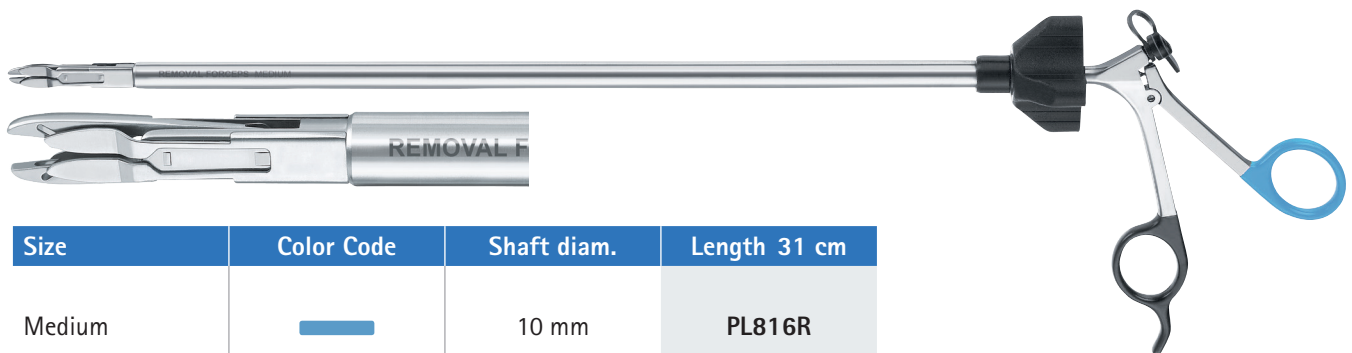
Clip Applicators and Removal Forceps



Laparoscopic Clip Applicators



Size	Color Code	Shaft diam.	Length 31 cm	Length 42 cm
Medium		10 mm	PL806R	PL826R
Medium-Large		10 mm	PL807R	PL827R

Laparoscopic Clip Removal Forceps



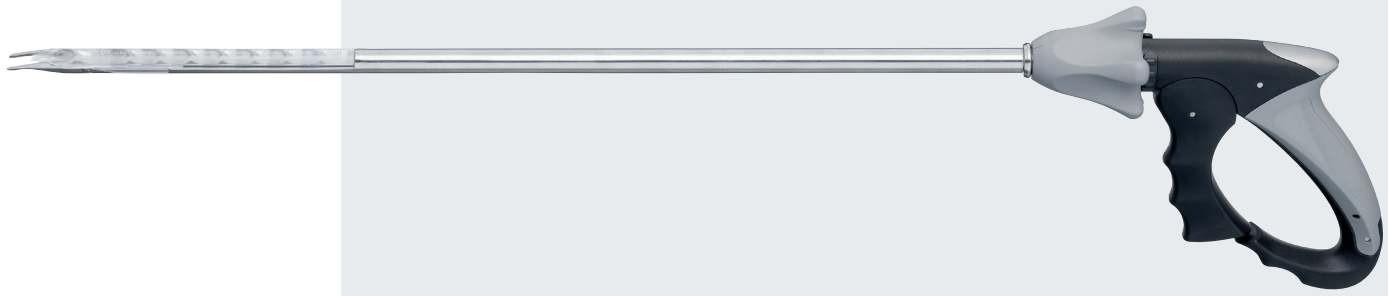
Size	Color Code	Shaft diam.	Length 31 cm
Medium		10 mm	PL816R
Medium-Large		10 mm	PL817R

Indication for Use:

Intended for use in endoscopic surgery for ligating and marking vessels and tubular structures whenever ligating clips are used/indicated.

Challenger™ Ti-P Multi-Fire Clip Applier

Medium-Large (ML)	Description	Item No.	Diameter	Length
	Clip applier, Medium-Large (ML)	PL606R	10 mm	37 cm
		PL608R	10 mm	26 cm



Medium-Large (ML) clips for use with 10 mm clip appliers, 12 sterile clip cartridges per box, 8 titanium clips and 1 CO₂ cylinder per cartridge

PL579T

Ligation

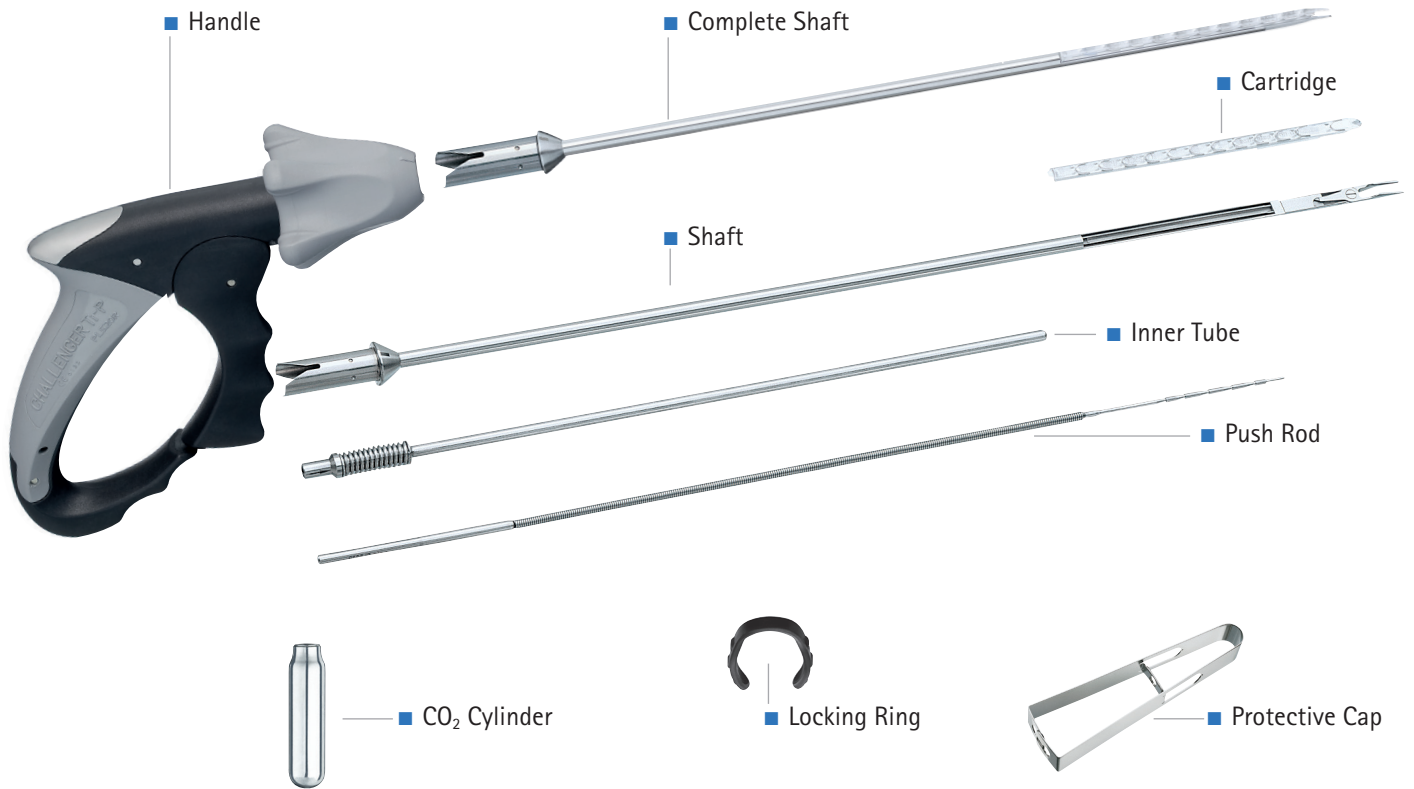
Small-Medium (SM)	Description	Item No.	Diameter	Length
	Clip applier, Small-Medium (SM)	PL604R	5 mm	31 cm
		PL603R	5 mm	20.5 cm



Small-Medium (SM) clips for use with 5 mm clip appliers 12 sterile clip cartridges per box, 12 titanium clips and 1 CO₂ cylinder per cartridge

PL574T

Components and Spare Parts




		ML		SM
Spare Parts	Complete Shaft	PL536R Length 37 cm Dia. 10 mm	PL538R Length 26 cm Dia. 10 mm	PL522R Length 31 cm Dia. 5 mm
	Handle	PL520R	PL520R	PL520R
	Inner Tube	PL536802	PL538802	PL522801
	Push Rod	PL536801	PL538801	PL522800
	Locking Ring	PL520301	PL520301	PL520301
	CO ₂ Cylinder Only <i>Pack of 3 single sterile packed</i>	PL575SU	PL575SU	PL575SU
	Protective Cap	PL536810	PL536810	PL522810

Access & Closure





Access Instruments

Description	Item No.	Diam.	Length
VERESS needle, single use, box of 20	EJ995	2.1 mm	120 mm
	EJ996	2.1 mm	150 mm
VERESS needle with 1.6 mm (14 gauge) distal tip diameter	PG003	2.1 mm	100 mm
	PG008	2.1 mm	120 mm
	PG011	2.1 mm	150 mm
Exploratory probe with scaling	BN320R	5 mm	40 cm
	BN321R	5 mm	50 cm
Exploratory probe with scaling	BN322R	3.5 mm	40 cm
			

1/1

Insufflation

Description	Item No.
Disposable tube set incl. CO ₂ filter, sterile, 10 ft., box of 10	PG012
	
Disposable CO ₂ filter, sterile, box of 25	PG019
	

MiniPort 3.5 mm Trocar

Our smallest Trocar Design

Mini Laparoscopy starts with the Access

- Small skin incision
- Less post-operative pain¹
- Almost no visible scars¹
- No change of laparoscopic operating technique
- Easy insertion
New handle design combined with a dilating tip for an accurate and target access of the trocar – less force necessary.
- Good fixation
Special profile on the trocar sleeve
- Cost effective
Combination of single use trocar and reusable dilating pin
- Complete Mini Laparoscopy System
The MiniPort is compatible with the existing 3.5 mm Aesculap® AdTec™ mini instrument line as well as with other 3.5 mm instruments.



Description	Item No.	Diam.	Length
MiniPort disposable trocar sleeve, with integrated seal and thread, box of 6	EK105SU	3.5 mm	70 mm



Dilating trocar pin, reuseable

EK030R

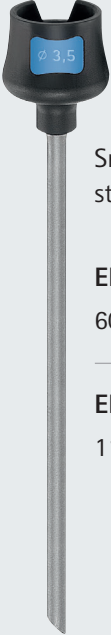


Statements relate to Mini Laparoscopy

¹Novitsky Y, Kercher K W, Czerniach D R, Kaban G K, Khera S, Gallagher-Dorval K A, Callery M P, Litwin D E M, Kelly J J. Advantages of Mini-laparoscopic vs Conventional Laparoscopic Cholecystectomy. Arch Surg. 2005 Dec;140(12):1178-83.

3.5 mm Trocars

Sleeves

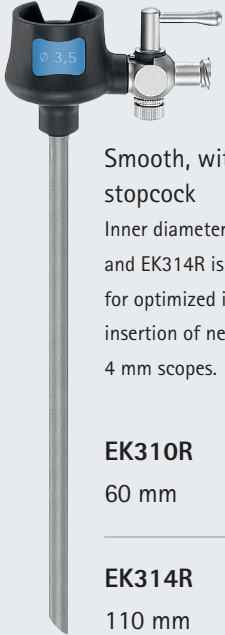


Smooth, without stopcock

EK311R
60 mm

EK315R
110 mm

Sleeves



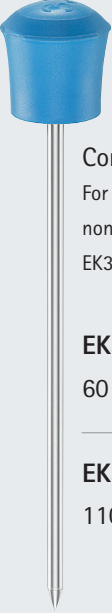
Smooth, with stopcock

Inner diameter of EK310R and EK314R is enlarged for optimized insufflation, insertion of needles and 4 mm scopes.

EK310R
60 mm

EK314R
110 mm

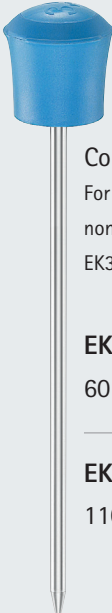
Obturator



Conical sharp
For use with non-insufflation sleeves
EK311R & EK315R

EK345R
60 mm

EK346R
110 mm

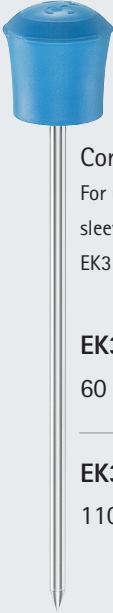


Conical blunt
For use with non-insufflation sleeves
EK311R & EK315R

EK348R
60 mm

EK349R
110 mm

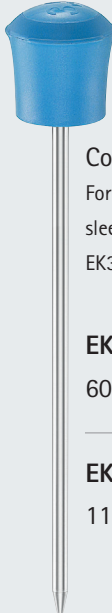
Obturator



Conical sharp
For use with insufflation sleeves
EK310R & EK314R

EK355R
60 mm

EK356R
110 mm



Conical blunt
For use with insufflation sleeves
EK310R & EK314R

EK358R
60 mm

EK359R
110 mm



EK380P

Sealing unit for 3.5 mm trocars, box of 20

5 mm Trocars

Sleeves



Smooth, with stopcock

EK010R

60 mm

EK014R

110 mm

EK018R

150 mm



Smooth, without stopcock

EK011R

60 mm

EK015R

110 mm



Threaded, with stopcock

EK012R

60 mm

EK016R

110 mm



Threaded, without stopcock

EK013R

60 mm

EK017R

110 mm



EK080P

Sealing unit for 5 mm trocars, box of 20



EK001SU

Single-use sealing unit for 5 mm trocars, box of 20

Obturator



Conical Sharp

EK045R

60 mm

EK046R

110 mm

EK047R

150 mm



Conical Blunt

EK048R

60 mm

EK049R

110 mm

EK050R

150 mm



Triangular Sharp

EK051R

60 mm

EK052R

110 mm

EK053R

150 mm



Dilating

EK148SU

60 mm

EK149SU

110 mm




EK150SU

150 mm

Single-use, sterile
(box of 6)

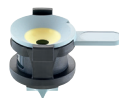
10 mm Trocars

Sleeves

 <p>Smooth, with stopcock</p> <p>EK024R 110 mm</p> <hr/> <p>EK028R 150 mm</p>	 <p>Smooth, without stopcock</p> <p>EK025R 110 mm</p>	 <p>Threaded, with stopcock</p> <p>EK026R 110 mm</p>	 <p>Threaded, without stopcock</p> <p>EK027R 110 mm</p>
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EK083P
Sealing unit for 10/12 mm trocars with 5 mm Flap Converter

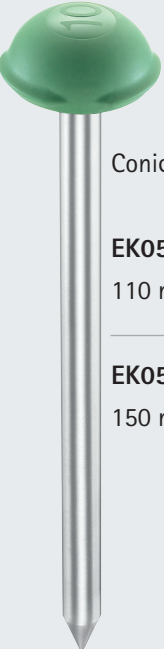


EK086P
Sealing unit for 10/12 mm trocars



EK002SU
Single-use universal sealing unit for 10/12 mm trocars
Box of 20

Obturator

 <p>Conical sharp</p> <p>EK056R 110 mm</p> <hr/> <p>EK057R 150 mm</p>	 <p>Conical blunt</p> <p>EK059R 110 mm</p> <hr/> <p>EK060R 150 mm</p>	 <p>Triangular sharp</p> <p>EK062R 110 mm</p> <hr/> <p>EK063R 150 mm</p>	 <p>Dilating</p> <p>EK159SU 110 mm</p> <hr/> <p>EK160SU 150 mm</p> <p>Single-use, sterile (box of 6)</p>
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12 mm Trocars

Sleeves



Smooth, with stopcock

EK034R
110 mm

EK038R
150 mm



Smooth, without stopcock

EK035R
110 mm



Threaded, with stopcock

EK036R
110 mm



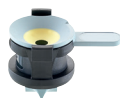
Threaded, without stopcock

EK037R
110 mm



EK083P

Sealing unit for 10/12 mm trocars with 5 mm flap converter



EK086P

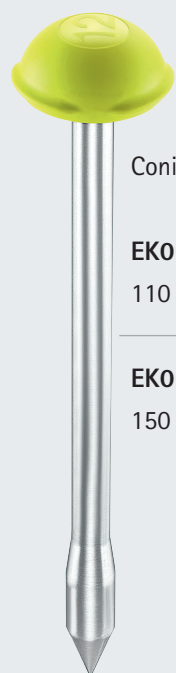
Sealing unit for 10/12 mm trocars



EK002SU

Single-use universal sealing unit for 10/12 mm trocars box of 20

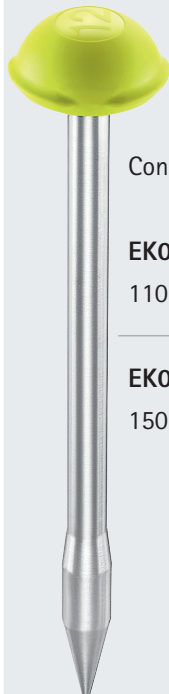
Obturator



Conical sharp

EK066R
110 mm

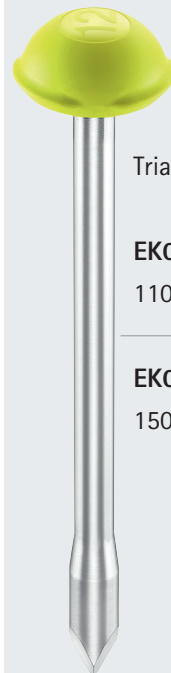
EK067R
150 mm



Conical blunt

EK069R
110 mm

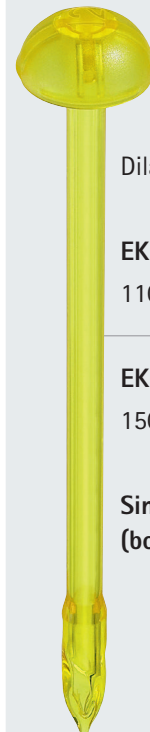
EK070R
150 mm



Triangular sharp

EK072R
110 mm

EK073R
150 mm



Dilating

EK169SU
110 mm

EK170SU
150 mm

Single-use, sterile (box of 6)

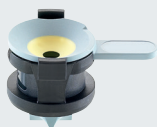
Blunt HASSON Trocars

HASSON / Mini Laparotomy Trocar

Reusable



EKO83P
Sealing unit for
10/12 mm
trocars with
5 mm flap
converter



EKO86P
Sealing unit
for 10/12 mm
trocars

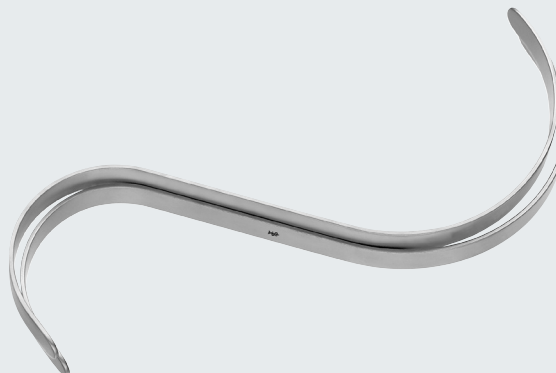
Single-use, sterile



EK002SU
Single-use universal
sealing unit for
10/12 mm trocars

box of 20

HASSON "S" Retractors (set of 2)



MD076
Malleable blade
10 mm wide

MD071R
Rigid blade
10 mm wide

MD077
Malleable blade
13 mm wide

MD072R
Rigid blade
13 mm wide

10 mm

EK024R
Smooth trocar sleeve with
stopcock, 10 mm, 110 mm

EK064R
Blunt (HASSON)
obturator,
10 mm, 110 mm

EK098R
Stability cone for
10 mm trocar sleeve











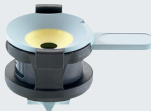
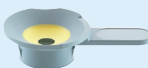


12 mm

EK034R
Smooth trocar sleeve with
stopcock, 12 mm, 110 mm

EK074R
Blunt (HASSON)
obturator,
12 mm, 110 mm

EK099R
Stability cone for
12 mm trocar sleeve

Replacement Parts & Accessories

Trocar Size	Complete Sealing Unit	Individual Components		
		Sealing Cap	Sealing Housing	Cross Slit Valve
3.5 mm	EK380P  Box of 20	EK382P  Box of 20	-	EK381P  Box of 20
5 mm	EK080P  Box of 20	EK082P  Box of 20	-	EK081P  Box of 20
10/12 mm <i>with 5 mm flap converter</i>	EK083P  Box of 20	EK087P  Box of 5	EK088P  Box of 20	EK084P  Box of 20
10/12 mm	EK086P  Box of 20	EK085P  Box of 5	EK088P  Box of 20	EK084P  Box of 20

Replacement Parts

Insufflation stopcock, plug valve



EJ233215

Insufflation stopcock, bottom screw cap



EJ233216

Insufflation stopcock



EK024225

Hasson cone & suture fixation screw



EJ430202

Suture Fixation

EK397R

For 3.5 mm trocars (EK311R & EK315R Only)



EK097R

For 5 mm trocars

Reducing Sleeves



EK390R

For 5 mm trocars, includes 3.5 mm sealing cap EK382P

EK090R

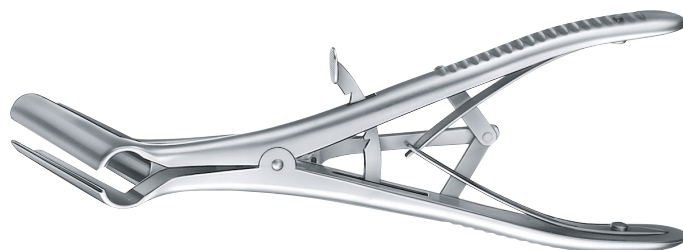
For 10 mm trocars, includes 5 mm sealing cap EK093P

EK091R

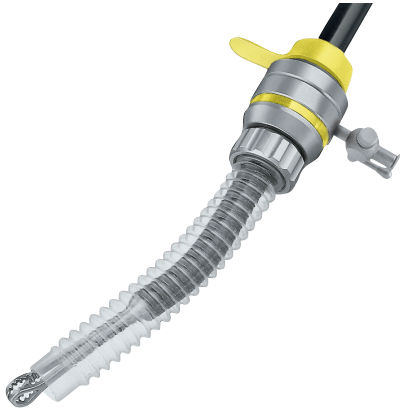
For 12 mm trocars, includes 5 mm sealing cap EK093P and 10 mm sealing cap EK094P

Additional Instruments

Dilating Instruments	Item No.	Description
	BV941R	Gall bladder extractor with 3 blades (blade length 55 mm) For use with a 10 mm trocar, assisting the recovery process and extending the abdominal access
	EJ477R	Dilatation set, diam. 5.5 mm to 10.0 mm
	EJ477250	Sealing cap, box of 20



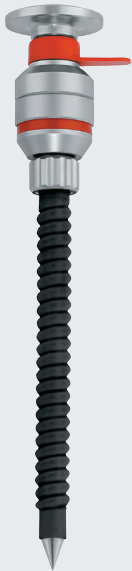
Flexible Trocars



Flexible Trocars

- Flexible trocar sleeve allows insertion of curved instruments and specialty jaw patterns
- Available in two different diameters:
 - 7 mm for use with 5 mm instruments
 - 13 mm for use with 5 mm and 10 mm instruments

7 mm



EJ800R
Complete trocar includes: obturator, cannula and valve, 7 mm x 100 mm

13 mm








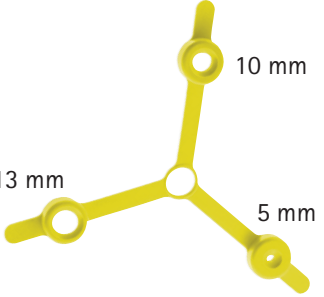



EJ590R
Complete trocar includes: obturator, cannula and valve, 13 mm x 100 mm



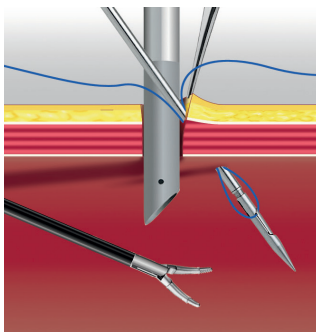
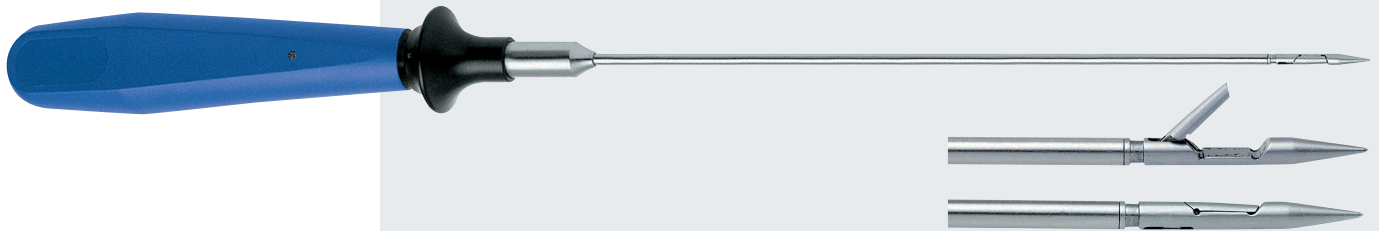
EJ804P	Flexible cannula for 7 mm trocars, 75 mm length, box of 3
EJ806P	Flexible cannula for 7 mm trocars, 100 mm length, box of 3
EJ824P	Flexible cannula for 13 mm trocars, 75 mm length, box of 3
EJ826P	Flexible cannula for 13 mm trocars, 100 mm length, box of 3

Flexible Trocars Spare Parts and Accessories

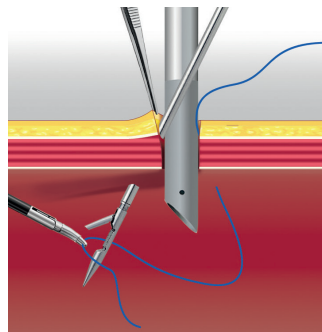
	Item No.	Description
	EJ570P	Silicone flap valve for 7 mm trocars, box of 20
	EJ572P	Silicone flap valve for 13 mm trocars, box of 20
	EJ751251	Sealing cap for insufflation connection, box of 20
	EJ700251	Trocar ring with insufflation connection for 7 mm trocars
	EJ750251	Trocar ring with insufflation connection for 13 mm trocars
	EJ651R	Trocar ring with stopcock for 7 mm trocars
	EJ650R	Trocar ring with stopcock for 13 mm trocars
	EJ700250	Trocar ring without insufflation connection for 7 mm trocars
	EJ750250	Trocar ring without insufflation connection for 13 mm trocars
	EJ417255	Sealing cap (red) for 7 mm trocars, box of 20
	EJ643P	Sealing cap (yellow) for 13 mm trocars, box of 20
 <p>13 mm</p> <p>10 mm</p> <p>5 mm</p>	EJ642P	Reducing converter (yellow) for 13 mm trocars
	EJ702250	Color coding ring, 20 pcs., red, diam. 7 mm
	EJ644P	Color coding ring, 20 pcs., yellow, diam. 13 mm

Closure

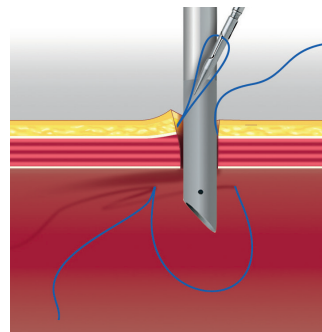
Port Closure Instrument	Description	Item No.	Diam.	Length
	Fascial suture instrument for subcutaneous closure of trocar incisions. Prevents the risk of postoperative hernias when using 10 mm trocars or bigger.	PL162R	2.5 mm	17 cm
	Shaft only for PL162R consisting of: outer tube, inner tube and jaw insert	PL163R		



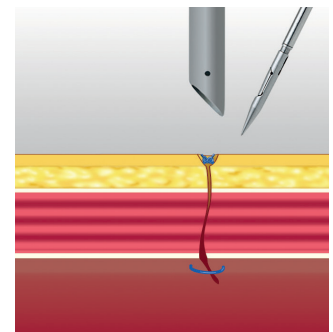
Pic. 1:
The suture material hold by the jaw part of the instrument will be placed under endoscopic visual control through all subcutaneous tissue layers into the abdominal cavity.



Pic. 2 and 3:
The suture material will then be grasped by a holding forceps. The instrument will be introduced into the pneumoperitoneum in the same way at the opposite of the first approach.



The suture material is being grasped by the fascial closure instrument and pulled through all tissue layers.



Pic. 4:
The trocar is being removed and the tightened suture material closed by conventional knot technique.

Fascia Closure Instrument	Description	Item No.
	Fascia spoon	PL152R



	Fascia hook	PL153R
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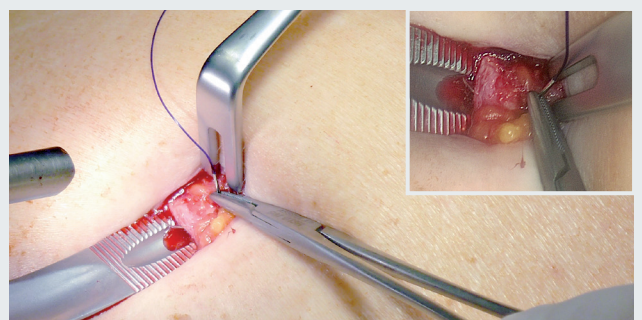


Insertion of the fascia hook and illustration of fascia lip.



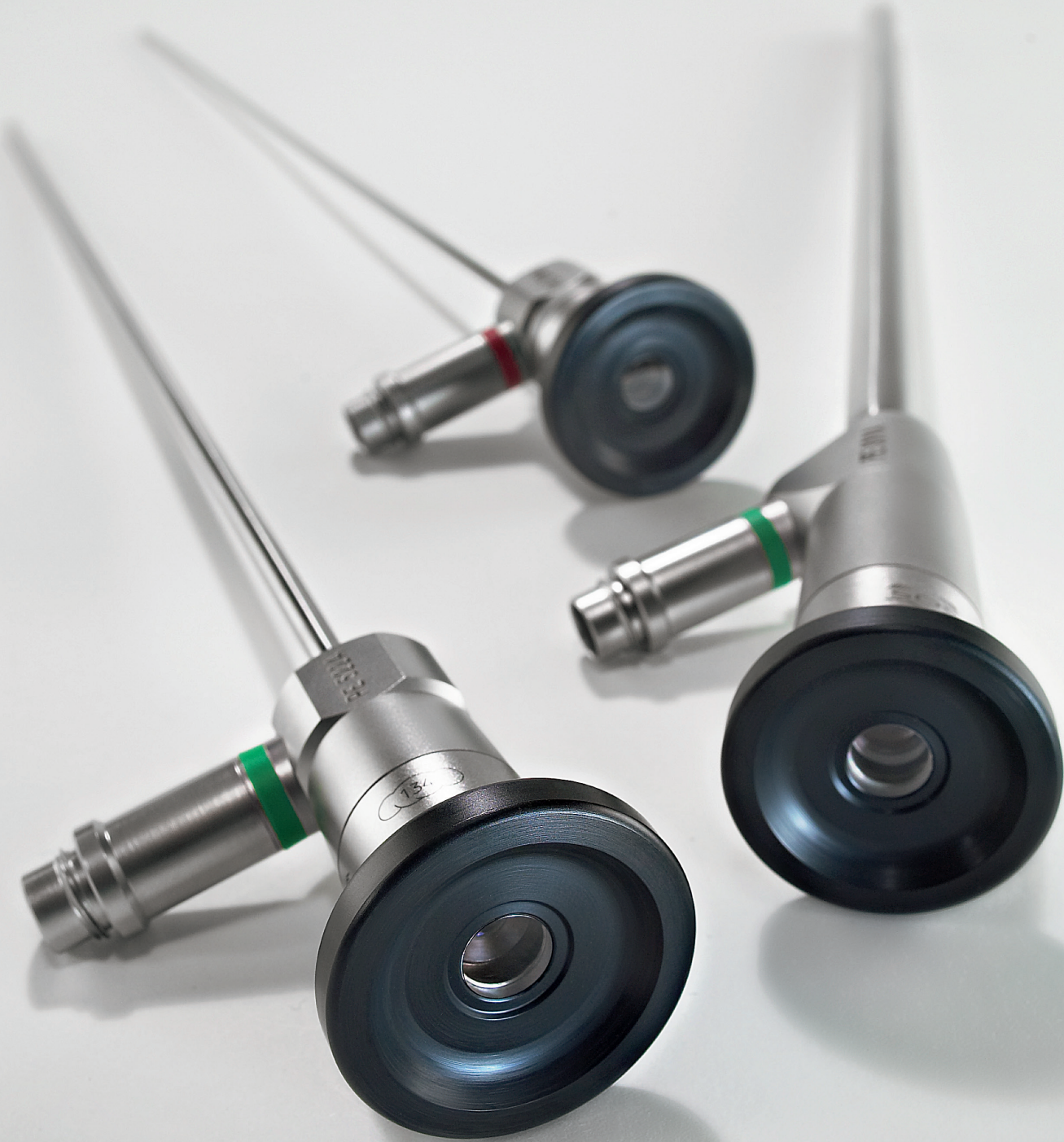
Application of fascia suture in which fascia is pierced from top to bottom. The opening in the hook and the recess in the fascia spoon support needle entry and exit. The fascia spoon thereby offers protection for the underlying structures.

Fascia suturing can be performed with a sharp semicircular needle body. Alternatively, a 5/8 needle can be used. In conjunction with the channel guide, this needle exits the fascia level better and can then be more easily recovered.

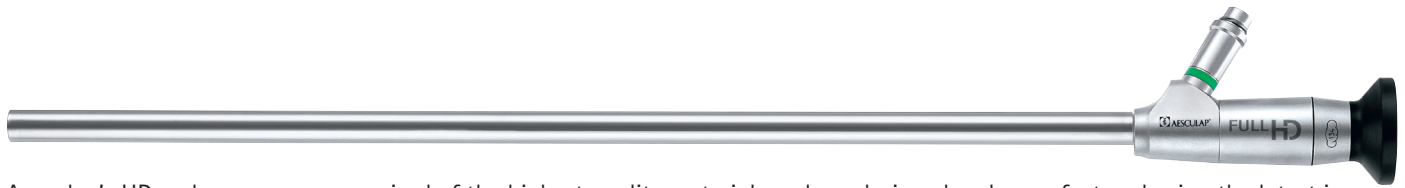


See *Fascia Closure brochure* for a more detailed step-by-step technique.

Endoscopes & Accessories



Full HD Endoscopes



Aesculap's HD endoscopes are comprised of the highest quality materials and are designed and manufactured using the latest in optics technology. Our laparoscopes provide optimal performance for the surgeon and staff.

- Excellent imaging - high definition optics for clear, bright and sharp pictures
- Large selection of diameters and angles of view
- Steam and STERRAD® compatible
- Adaptable to a variety of manufacturers' light cables and light sources
- Industry standard eyepiece is compatible to all camera systems

Description	Item No.	Diameter	Viewing Direction	Length
Arthroscope	PE484A	4 mm	0°	15 cm
Arthroscope	PE514A	4 mm	30°	15 cm
Arthroscope	PE485A	4 mm	0°	17.5 cm
Arthroscope	PE505A	4 mm	30°	17.5 cm
Arthroscope	PE525A	4 mm	70°	17.5 cm
Laparoscope	PE522A	4 mm	0°	30 cm
Laparoscope	PE508A	4 mm	30°	30 cm
Laparoscope	PE590A	5 mm	0°	31 cm
Laparoscope	PE610A	5 mm	30°	31 cm
Laparoscope	PE898A	10 mm	0°	27 cm
Laparoscope	PE889A	10 mm	0°	33 cm
Laparoscope	PE909A	10 mm	30°	33 cm
Laparoscope	PE969A	10 mm	45°	33 cm

Additional Accessories

Sterile camera drape, disposable, ring design box of 25	JG904
Sterile anti fog solution, box of 10	JG910



JG904



STERRAD is a registered trademark of Advanced Sterilization Products (ASP), a Division of Ethicon, Inc., a Johnson & Johnson company.

Light Cables

Light Cable Ordering Information

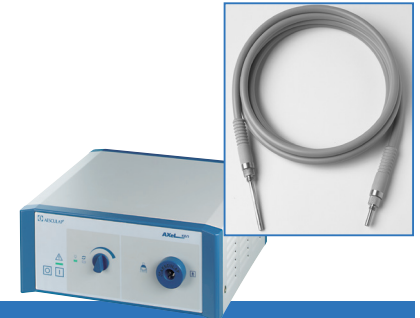
Follow these steps to use the table below to identify the appropriate light cable:





Step 1 - Select your light source from the horizontal column.

Step 2 - Select your scope from the vertical column.

Step 3 - The box where they meet represents the appropriate light cable.

(Example: Using an Aesculap light source and an Aesculap scope – Order MB111)



If Your Light Source (LS) is from:					
Your Scope (S) is from	Aesculap/Storz	Olympus	Circon/ACMI	Stryker	Wolf/Dyonics
	Light Cable: MB111 ■ AESCULAP LS ■ AESCULAP S	Light Cable: MB112 ■ OLYMPUS LS ■ AESCULAP S	Light Cable: MB113 ■ CIRCON LS ■ AESCULAP S	Light Cable: MB114 ■ STRYKER LS ■ AESCULAP S	Light Cable: MB115 ■ WOLF LS ■ AESCULAP S
	Light Cable: MB121 ■ AESCULAP LS ■ OLYMPUS S	Light Cable: MB122 ■ OLYMPUS LS ■ OLYMPUS S	Light Cable: MB123 ■ CIRCON LS ■ OLYMPUS S	Light Cable: MB124 ■ STRYKER LS ■ OLYMPUS S	Light Cable: MB125 ■ WOLF LS ■ OLYMPUS S
	Light Cable: MB131 ■ AESCULAP LS ■ CIRCON S	Light Cable: MB132 ■ OLYMPUS LS ■ CIRCON S	Light Cable: MB133 ■ CIRCON LS ■ CIRCON S	Light Cable: MB134 ■ STRYKER LS ■ CIRCON S	Light Cable: MB135 ■ WOLF LS ■ CIRCON S
	Light Cable: MB151 ■ AESCULAP LS ■ WOLF S	Light Cable: MB152 ■ OLYMPUS LS ■ WOLF S	Light Cable: MB153 ■ CIRCON LS ■ WOLF S	Light Cable: MB154 ■ STRYKER LS ■ WOLF S	Light Cable: MB155 ■ WOLF LS ■ WOLF S

The universal light cable and all adapters can also be ordered separately

MB100	Universal light cable with no end fittings, light fiber bundle: 5 mm, length: 10 ft.
MB001	Aesculap / Storz adapter for light cable (LS end)
MB002	Olympus adapter for light cable (LS end)
MB003	Circon / ACMI adapter for light cable (LS end)
MB004	Stryker adapter for light cable (LS end)
MB005	Wolf/Dyonics adapter for light cable (LS end)
MB010	Aesculap / Storz / Olympus adapter for light cable (S End)
MB030	Circon / ACMI / Stryker adapter for light cable (S End)
MB050	Wolf/Dyonics adapter for light cable (S End)
OP917	Light cable tester

Adapters for light guide



Index

Item No.	Page No.	Item No.	Page No.	Item No.	Page No.
BN320R	86	EK002SU	92, 93	EK060R	91
BN321R	86	EK010R	90	EK062R	91
BN322R	86	EK011R	90	EK063R	91
BV941R	95	EK012R	90	EK064R	93
EJ233215	94	EK013R	90	EK066R	92
EJ233216	94	EK014R	90	EK067R	92
EJ417255	97	EK015R	90	EK069R	92
EJ430202	94	EK016R	90	EK070R	92
EJ477250	95	EK017R	90	EK072R	92
EJ477R	95	EK018R	90	EK073R	92
EJ570P	97	EK024225	94	EK074R	93
EJ572P	97	EK024R	91, 93	EK080P	90, 94
EJ590R	96	EK025R	91	EK081P	94
EJ642P	97	EK026R	91	EK082P	94
EJ643P	97	EK027R	91	EK083P	91, 92, 93, 94
EJ644P	97	EK028R	91	EK084P	94
EJ650R	97	EK030R	88	EK085P	94
EJ651R	97	EK034R	92, 93	EK086P	91, 92, 93, 94
EJ700250	97	EK035R	92	EK087P	94
EJ700251	97	EK036R	92	EK088P	94
EJ702250	97	EK037R	92	EK090R	94
EJ750250	97	EK038R	92	EK091R	94
EJ750251	97	EK045R	90	EK093P	94
EJ751200	77	EK046R	90	EK094P	94
EJ751251	97	EK047R	90	EK097R	94
EJ800R	96	EK048R	90	EK098R	93
EJ804P	96	EK049R	90	EK099R	93
EJ806P	96	EK050R	90	EK105SU	88
EJ824P	96	EK051R	90	EK148SU	90
EJ826P	96	EK052R	90	EK149SU	90
EJ995	86	EK053R	90	EK150SU	90
EJ996	86	EK056R	91	EK159SU	91
EK001SU	90	EK057R	91	EK160SU	91
EK002SU	91	EK059R	91	EK169SU	92

Item No.	Page No.	Item No.	Page No.	Item No.	Page No.
EK170SU	92	GK390R	60	MD071R	93
EK310R	89	GK397R	61	MD072R	93
EK311R	89, 94	GK398R	61	MD076	93
EK314R	89	JG904	102	MD077	93
EK315R	89, 94	JG910	102	OP917	103
EK345R	89	MB001	103	P0501R	52
EK346R	89	MB002	103	PE484A	102
EK348R	89	MB003	103	PE485A	102
EK349R	89	MB004	103	PE505A	102
EK355R	89	MB005	103	PE508A	102
EK356R	89	MB010	103	PE514A	102
EK358R	89	MB030	103	PE522A	102
EK359R	89	MB050	103	PE525A	102
EK380P	89, 94	MB100	103	PE590A	102
EK381P	94	MB111	103	PE610A	102
EK382P	94	MB112	103	PE889A	102
EK390R	94	MB113	103	PE898A	102
EK397R	94	MB114	103	PE909A	102
GF320R	76	MB115	103	PE969A	102
GF321R	76	MB121	103	PG003	86
GF324R	76	MB122	103	PG008	86
GF325R	76	MB123	103	PG011	86
GK370P	60	MB124	103	PG012	87
GK371P	60	MB125	103	PG019	87
GK372R	60	MB131	103	PG027R	76
GK373R	60	MB132	103	PL100R	77
GK374R	60	MB133	103	PL152R	99
GK375R	60	MB134	103	PL153R	99
GK376P	60	MB135	103	PL162R	98
GK383R	60	MB151	103	PL163R	98
GK384R	60	MB152	103	PL170251	55
GK385R	60	MB153	103	PL230R	68
GK386R	60	MB154	103	PL231R	68
GK389R	60	MB155	103	PL232R	68

Index

Item No.	Page No.	Item No.	Page No.	Item No.	Page No.
PL233R	68	PL538801	83	PM015R	20
PL234R	68	PL538802	83	PM016R	22
PL235R	68	PL541S	69	PM165R	26
PL401230	77	PL544S	69	PM171R	70
PL404R	73	PL545S	69	PM173R	70
PL405R	73	PL548S	69	PM175R	70
PL406R	77	PL549S	69	PM176R	70
PL407R	73	PL574T	82	PM177R	70
PL408R	73	PL575SU	83	PM178R	70
PL409R	73	PL593R	74	PM400R	64
PL410R	73	PL595SU	74	PM401R	64
PL411R	73	PL601800	83	PM402R	64
PL413R	73	PL601801	83	PM403R	64
PL414R	73	PL603R	82	PM404R	64
PL415R	73	PL604R	82	PM405R	64
PL416R	73	PL606R	82	PM406R	64
PL417R	73	PL608R	82	PM407R	64
PL418R	73	PL650250	72	PM408R	64
PL419R	73	PL650R	72	PM409R	64
PL430R	77	PL651R	72	PM410R	64
PL432R	72	PL657R	77	PM412R	64
PL459SU	80	PL659R	77	PM413R	64
PL462SU	80	PL663R	77	PM414R	64
PL465SU	80	PL664P	69	PM415R	64
PL520301	83	PL680R	75	PM430R	64
PL520R	83	PL682R	75	PM431R	64
PL522800	83	PL700	63	PM432R	64
PL522801	83	PL701	63	PM433220	64
PL522810	83	PL702SU	63	PM433R	64
PL530R	69, 74	PL703SU	63	PM434201	54
PL531R	69, 74	PL806R	81	PM434R	64
PL536801	83	PL807R	81	PM435R	64
PL536802	83	PL816R	81	PM436R	64
PL536810	83	PL817R	81	PM437R	64

Item No.	Page No.	Item No.	Page No.	Item No.	Page No.
PM438R	64	PM700R	31	PM976R	29, 31, 54
PM439R	64	PM701R	29	PM977R	41, 43, 45, 51, 54
PM440R	64	PM710R	23	PM978R	29, 31, 54
PM442R	64	PM711R	71	PM981R	21, 23, 25, 27, 33, 35, 37, 39, 41, 45, 47, 49, 51, 53, 54, 64
PM443R	64	PM712R	51	PM982R	41, 54
PM444R	64	PM713R	71	PM986P	17, 19, 54
PM445R	64	PM719R	71	PM987P	17, 19, 54
PM450R	64	PM950R	12, 13, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 56, 71	PM992R	25, 51, 54
PM600201	54	PM950250	55	PO001R	24
PM604R	21	PM951R	12, 13, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 56, 71	PO002R	24
PM609R	43	PM953R	21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 71	PO003R	24
PM612R	43	PM954R	21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 71	PO004R	20
PM614R	29	PM957R	21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 71	PO006R	24
PM616R	71	PM958R	47	PO011R	22
PM618201	54	PM959R	51, 71	PO014R	24
PM621R	37	PM970R	37, 43, 47, 51, 54, 64	PO022R	72
PM630201	54	PM971R	54	PO023R	22
PM640R	39	PM973R	21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 54, 64, 71, 72	PO025R	24
PM649R	39	PM974R	21, 37, 39, 41, 43, 49, 51, 53, 54, 71	PO027R	20
PM651R	51	PM975R	29, 31, 43, 54	PO028R	22
PM654R	72			PO030R	22
PM657R	51			PO031R	22
PM658R	51			PO090R	20
PM670R	41			PO091R	20
PM671R	71			PO100R	28
PM679R	45			PO101R	46
PM681R	49			PO102R	26
PM687R	43			PO103R	28
PM688R	51			PO104R	40
PM689R	71			PO105R	42
PM696R	43			PO107R	36
PM697R	21			PO109R	32
PM698R	23				
PM699R	27				

Index

Item No.	Page No.	Item No.	Page No.	Item No.	Page No.
PO111R	48	PO204R	36	PO301R	16
PO112R	36	PO205R	40	PO302R	16
PO113R	38	PO206R	44	PO303R	16
PO114R	40	PO207R	48	PO304R	16
PO117R	38	PO208R	44	PO305R	18
PO118R	50	PO209R	40	PO306R	18
PO127R	32	PO210R	48	PO307R	18
PO128R	34	PO211R	44	PO308R	18
PO129R	46	PO212R	40	PO309R	18
PO130R	44	PO213R	30	PO320R	16
PO132R	38	PO214R	28	PO321R	16
PO134R	38	PO215R	42	PO322R	16
PO137R	50	PO216R	34	PO323R	16
PO141R	30	PO217R	34	PO324R	16
PO147R	26	PO218R	30	PO325R	18
PO149R	44	PO219R	30	PO326R	18
PO151R	28	PO220R	30	PO327R	18
PO185R	34	PO221R	32	PO328R	18
PO186R	42	PO222R	36	PO329R	18
PO187R	28	PO223R	36	PO340R	17
PO188R	42	PO224R	48	PO341R	17
PO189R	48	PO225R	50	PO342810	54
PO190R	46	PO228R	70	PO342R	17
PO191R	34	PO229R	34	PO343R	17
PO193R	72	PO230R	32	PO344R	17
PO194R	50	PO231R	28	PO345R	19
PO195R	26	PO232R	34	PO346R	19
PO196R	40	PO233R	32	PO347R	19
PO197R	40	PO234R	32	PO348R	19
PO199R	46	PO235R	32	PO349R	19
PO200R	46	PO236R	32	PO360R	17
PO201R	38	PO237R	26	PO361R	17
PO202R	26	PO238R	26	PO362810	54
PO203R	46	PO300R	16	PO362R	17

Item No.	Page No.	Item No.	Page No.	Item No.	Page No.
PO363R	17	PO623R	39	PO744R	25
PO364R	17	PO624R	51	PO745R	25
PO365R	19	PO625R	25	PO746R	21
PO366R	19	PO626R	53	PO747R	47
PO367R	19	PO627R	53	PO748R	47
PO368R	19	PO633R	47	PO749R	39
PO369R	19	PO634R	37	PO750R	53
PO380R	17, 19, 58	PO644R	33	PO751R	53
PO381R	17, 19, 58	PO645R	47	PO752R	27
PO500R	52	PO646R	45	PO753R	47
PO502R	52	PO647R	35	PO754R	23
PO505R	52	PO648R	39	PO755R	37
PO509R	52	PO650R	39	PO756R	53
PO510R	52	PO652R	53	PO757R	41
PO511R	52	PO655R	23	PO758R	45
PO512R	52	PO657R	51	PO759R	53
PO550R	72	PO661R	31	PO760R	49
PO559R	72	PO667R	29	PO761R	45
PO600R	25	PO678R	27	PO762R	41
PO601R	25	PO680R	45	PO763R	49
PO602R	25	PO682R	25	PO764R	45
PO603R	21	PO705R	53	PO765R	41
PO605R	29	PO728R	35	PO766R	31
PO606R	29	PO729R	43	PO767R	29
PO607R	47	PO730R	29	PO768R	43
PO608R	27	PO731R	43	PO769R	35
PO610R	41	PO734R	49	PO770R	35
PO611R	43	PO735R	47	PO771R	31
PO613R	37	PO736R	35	PO772R	31
PO615R	33	PO739R	51	PO773R	31
PO617R	49	PO740R	27	PO774R	33
PO618R	37	PO741R	41	PO775R	37
PO619R	39	PO742R	41	PO776R	37
PO620R	41	PO743R	49	PO777R	49

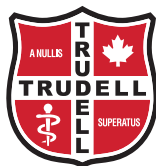
Index

Item No.	Page No.	Item No.	Page No.
PO778R	51	P0958R	12, 13, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 57, 71, 72
PO781R	71		
PO782R	35		
PO783R	33		
PO784R	29		
PO785R	35		
PO786R	33		
PO787R	33		
PO788R	33	P0959R	12, 13, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 57, 71, 72
PO789R	33		
PO790R	21	SR553R	76
PO791R	21	SR554R	76
PO830SU	9		
PO831SU	9		
PO833SU	9		
PO840SU	10		
PO841SU	10		
PO842SU	10		
PO843SU	11		
PO844SU	11		
PO885SU	12		
PO886	12		
PO887	12		
PO888	12		
PO889	12		
PO891SU	13		
PO892SU	13		
PO893SU	13		
PO894SU	13		
PO950400	55		

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