

**PAJUNK®**

*ErgoSys*  
*Ergonomics to perfection*

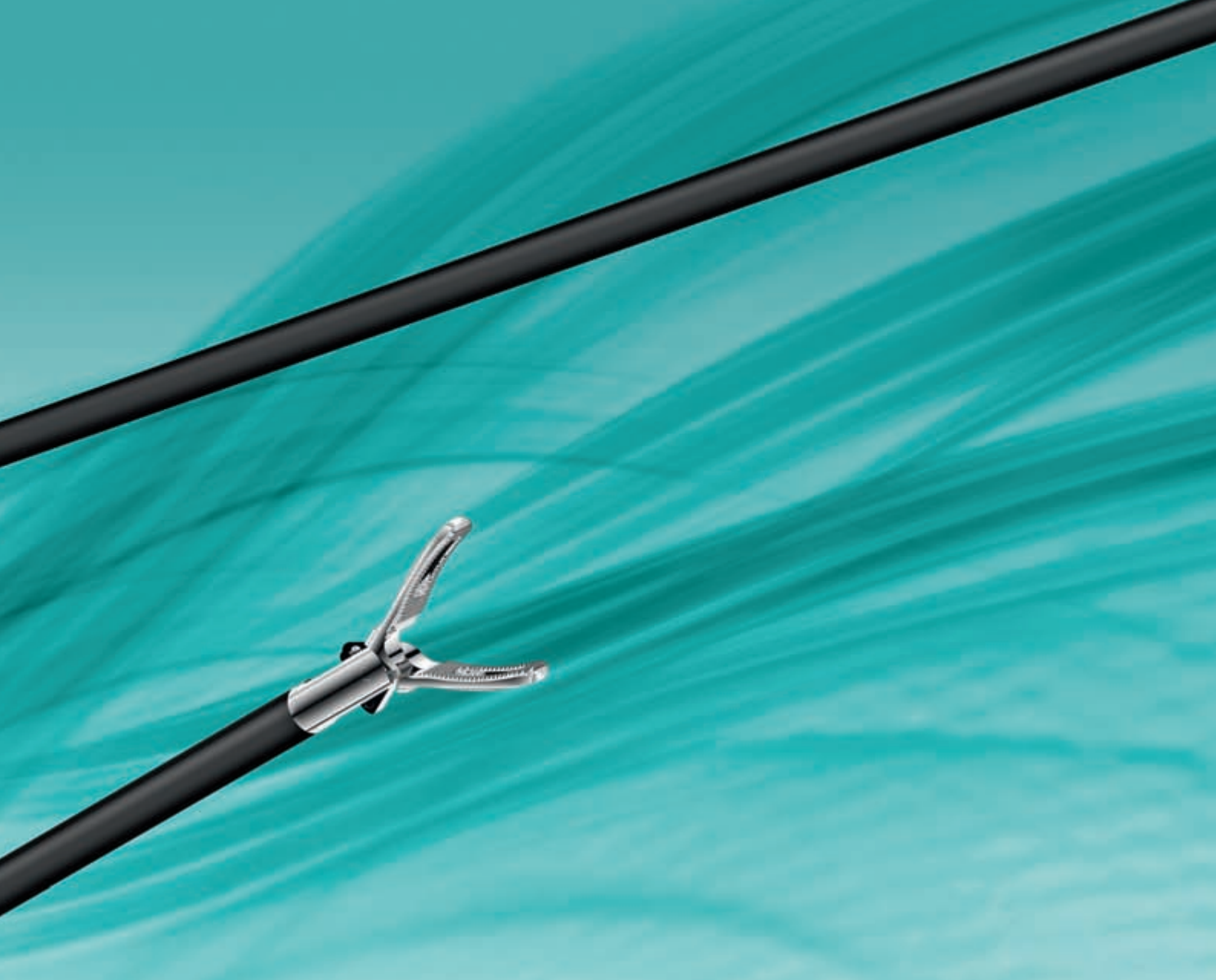


Laparoscopic instruments

# *ErgoSys*

*Ergonomic, economic and precise*





## *The modern handle system for maximum precision*

PAJUNK® ErgoSys sets new standards in laparoscopy in terms of precision, ergonomics and cost-effectiveness. The basis is a new handle that meets the highest ergonomic requirements with its modern design and rounded edges. It is distinctly smooth and easy to operate and so meets the essential prerequisites for fatigue-free work.

Its innovative stepless lock is unique and enables precise work that is gentle on tissue. This means an increase in safety for the patient and user. The optional application of disposable and reusable instrument inserts make the modular instrument system particularly economical.



*Free moving or with lock*

## ***The handle system with many options***

*The new PAJUNK® handle instrument system is equipped for all the requirements and techniques of laparoscopy with a modular system consisting of two handle models, various guide tubes and instrument inserts in disposable and reusable designs.*



### ***ErgoFlex***

The handle without lock can be combined with disposable and reusable instrument inserts.



## ***ErgoFlex***

### ***Disposable instrument inserts***



**Insulated shaft tube, Ø 5 mm and connecting rod with snap lock**

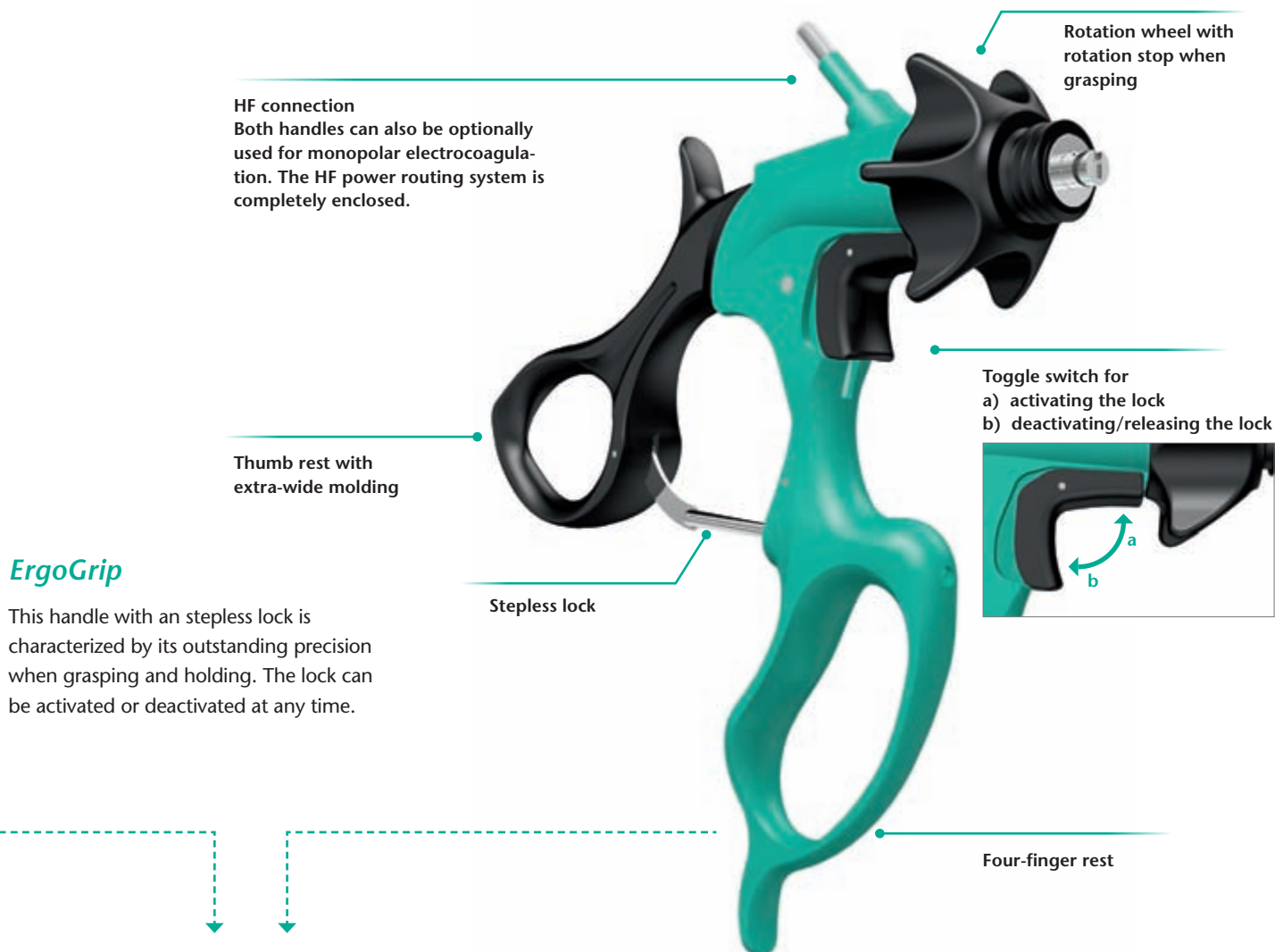
The removable and disposable instrument inserts provide flexibility and cost-effectiveness. When scissors are used for coagulation new sharp instruments can be worked with for each intervention. These are only for use with the ErgoFlex handle without lock.



**Disposable scissors inserts**



**Disposable grasping forceps inserts**



## ErgoGrip, ErgoFlex

### Guide tubes



Guide tube, Ø 10 mm



Guide tube, Ø 5 mm



Instrument insert, Ø 3 mm

### A large selection of reusable instrument inserts



Grasping forceps



Scissors



Biopsy spoon forceps



Needle holder



Clamps

## Easy to handle, many versions and precise ErgoSys sets new standards

*The basis of the ErgoSys instrument system are the two new handles: ErgoGrip with stepless lock and ErgoFlex without lock. They cover not only the entire range of application possibilities but also convince with maximum ergonomics for multiple hand positions. Operation is comfortable and simple for both left-handed and right-handed people.*



### Ergonomic design

The wide molding and the distance from the four-finger rest and thumb rest combined with the rounded edges meet the maximum requirements for ergonomics.

➡ This guarantees a balanced distribution of force on the individual fingers, prevents signs of fatigue and avoids pressure marks as well as possible nerve compression.

### Multiple hand positions

Clasping the handle is also perfectly supported from an ergonomic view.

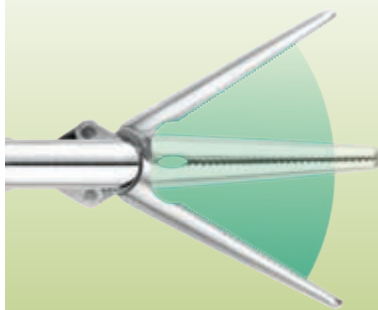
➡ Each user finds an optimum holding position at any time regardless of preferences.

## ErgoGrip – The handle with a activatable stepless lock

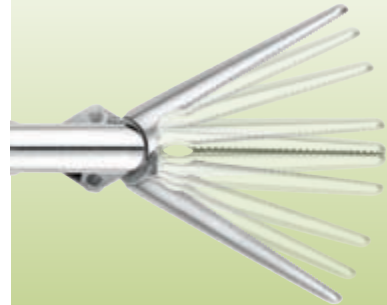
ErgoGrip has an stepless lock that ensures every desired position when grasping. This allows for absolutely precise and atraumatic work simultaneously.

➡ In contrast to conventional handles with ratchet, ErgoGrip reduces the risk of injury to organs or tissue. The stepless variable lock of ErgoGrip grasps and holds tissue in every possible position where as conventional ratchets lock in the defined positions where the pressure of the instrument on the tissue is increased or reduced so that tissue can slip out of the instrument jaws.

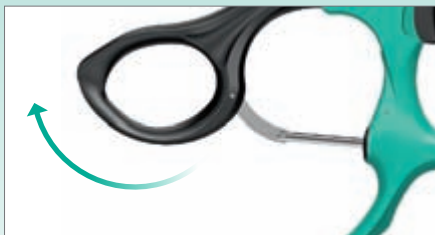
Stepless lock for ErgoGrip



Locking positions for conventional laparoscopic instruments



Conventional handles have fixed locking positions within the entire opening angle. In contrast the user can choose a completely individual and stepless opening angle when using ErgoGrip.



## Rebounding thumb ring

Opening of the instrument insert with the assistance of a spring in the handle.

➡ This prevents signs of fatigue and also eases the adaptation of the instrument inserts to a significant degree.



## Activating and deactivating the lock

The toggle switch is pressed upwards to activate the stepless lock and downwards to deactivate/release it.

➡ If the stepless lock is activated, the instrument inserts can be closed at any time when opening is locked.

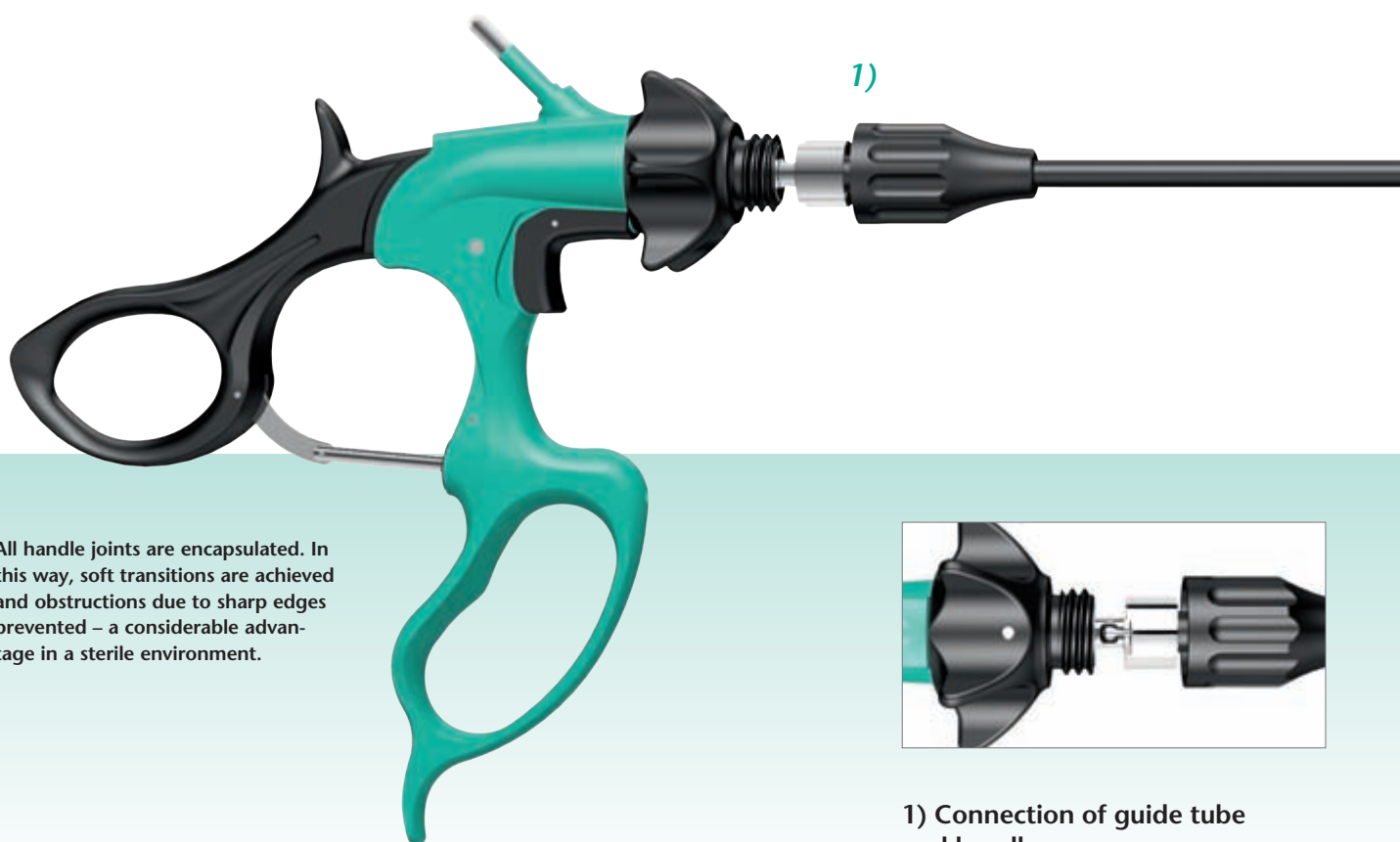
## Double secured

# Ready for use in next to no time

*The instruments are assembled quickly and conveniently based on the sophisticated fastening system. Two stage anchoring guarantees maximum resistance to torsion for each handle module mode. The first-class quality of the module connection distinguishes itself when large forces act on the system.*

*The two stage locking mechanism makes the laparoscopic instrument doubly resistant to torsion:*

- 1) Screw connection of guide tube and handle
- 2) Anchoring the instrument insert in the guide tube



All handle joints are encapsulated. In this way, soft transitions are achieved and obstructions due to sharp edges prevented – a considerable advantage in a sterile environment.

### 1) Connection of guide tube and handle

The proven screw connection of the handle and instrument insert has been retained for the new handle generation. For this reason, inadvertent loosening of the connection during intervention is impossible.





The rotation wheel can be adjusted with light pressure from the index finger. A rotation stop ensures the desired position when grasping.



#### 2 a) Anchoring a reusable instrument insert in the guide tube

A snap-action mechanism anchors the instrument insert with the guide tube. The notch in the instrument insert and the corresponding counter piece at the guide tube guarantees a torsion-resistant connection for both parts.



#### 2 b) Anchoring a disposable instrument insert in the shaft tube

For the disposable system, the disposable instrument insert is clicked in the connecting rod and tightly screwed to the shaft tube.



*Only combinable with ErgoFlex*

## Modules for PAJUNK® laparoscopic instruments

### Instrument system for reuse

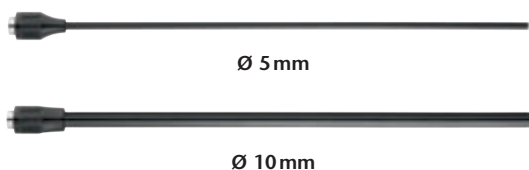
Always the right combination: The handle, insulated guide tubes and instrument inserts can be mounted in any size-related arrangement as a modular system.

#### ErgoSys handles



Product	Item.-No.	PU
ErgoFlex handle for modular instrument inserts	1292-30-00	1
ErgoGrip handle with activatable stepless lock for modular instrument inserts	1292-30-10	1

#### ErgoSys guide tubes








Product	Size	Working length	Item.-No.	PU
Insulated guide tube	Ø 5 mm	330 mm	1292-13-05	1
	Ø 10 mm	330 mm	1292-13-10	1
	Ø 5 mm	450 mm	1292-14-05	1
	Ø 10 mm	450 mm	1292-14-10	1

#### Clamps Ø 10 mm



Product	Working length	Item.-No.	PU
BABCOCK clamp, double action	330 mm	1292-83-10	1
	450 mm	1292-84-10	1
COLLIN clamp, double action	330 mm	1292-83-15	1
	450 mm	1292-84-15	1
Clamp with DeBAKEY teeth 2 x 3, jaw 40 mm, double action	330 mm	1292-83-41	1
	450 mm	1292-84-41	1




## Grasping forceps Ø 10 mm

	Product	Working length	Item.-No.	PU
	MARYLAND grasping forceps, double action	330 mm	1292-63-20	1
		450 mm	1292-64-20	1
	MIXTER dissection- and grasping forceps, double action	330 mm	1292-63-21	1
		450 mm	1292-64-21	1
	Claw grasping forceps, 2 x 3 teeth, single action	330 mm	1292-63-30	1
		450 mm	1292-64-30	1
	BABCOCK grasping forceps, double action	330 mm	1292-63-31	1
		450 mm	1292-64-31	1
	Biopsy spoon forceps, single action	330 mm	1292-73-15	1
		450 mm	1292-74-15	1







## Scissors Ø 5 mm

	Product	Working length	Item.-No.	PU
	Hook-type scissors, straight, single action	330 mm	1292-93-10	1
		450 mm	1292-94-10	1
	Dissecting scissors, straight, double action	330 mm	1292-93-13	1
		450 mm	1292-94-13	1
	Dissecting scissors, curved, METZENBAUM, double action	330 mm	1292-93-14	1
		450 mm	1292-94-14	1
	Dissecting scissors, curved, METZENBAUM, with fine teeth, double action	330 mm	1292-93-15	1
		450 mm	1292-94-15	1
	Micro-scissors, straight, single action	330 mm	1292-93-16	1
		450 mm	1292-94-16	1
	Micro-scissors, curved, single action	330 mm	1292-93-17	1
		450 mm	1292-94-17	1
	Peritoneal scissors, straight, single action	330 mm	1292-93-18	1
		450 mm	1292-94-18	1

## Needle holders Ø 5 mm

	Product	Working length	Item.-No.	PU
	Needle holder, straight, single action, carbide-coated, with needle alignment	330 mm	1292-95-10	1
		450 mm	1292-96-10	1
	Needle holder, left-angled, single action, with carbide insert	330 mm	1292-95-11	1
		450 mm	1292-96-11	1
	Needle holder, right-angled, single action, with carbide insert	330 mm	1292-95-12	1
		450 mm	1292-96-12	1

## Grasping forceps Ø 5 mm

	Product	Working length	Item.-No.	PU
	Grasping forceps, 2 x 1 teeth, double action	330 mm	1292-53-09	1
		450 mm	1292-54-09	1
	OVIDUCT grasping forceps, smooth, double action	330 mm	1292-53-10	1
		450 mm	1292-54-10	1
	DOLPHIN dissection- and grasping forceps, double action	330 mm	1292-53-11	1
		450 mm	1292-54-11	1
	Grasping forceps with reservoir, blunt, double action	330 mm	1292-53-12	1
		450 mm	1292-54-12	1
	Grasping forceps with reservoir, double action	330 mm	1292-53-13	1
		450 mm	1292-54-13	1
	Grasping forceps, pointed, with reservoir, double action	330 mm	1292-53-14	1
		450 mm	1292-54-14	1
	Atraumatic grasping forceps, pointed, cross-cut serration, 18mm, double action	330 mm	1292-53-15	1
		450 mm	1292-54-15	1
	Mouse tooth type grasping forceps with 2 x 4 teeth, double action	330 mm	1292-53-16	1
		450 mm	1292-54-16	1
	Alligator grasping forceps, double action	330 mm	1292-53-17	1
		450 mm	1292-54-17	1
	Dissection- and grasping forceps, double action	330 mm	1292-53-18	1
		450 mm	1292-54-18	1
	Dissection- and grasping forceps, fenestrated, double action	330 mm	1292-53-19	1
		450 mm	1292-54-19	1
	MARYLAND dissection- and grasping forceps, double action	330 mm	1292-53-20	1
		450 mm	1292-54-20	1
	MIXTER dissection- and grasping forceps, double action	330 mm	1292-53-21	1
		450 mm	1292-54-21	1
	ALLIS grasping forceps, double action	330 mm	1292-53-22	1
		450 mm	1292-54-22	1
	Grasping forceps with fine cross toothing, double action	330 mm	1292-53-23	1
		450 mm	1292-54-23	1
	BABCOCK grasping forceps, double action	330 mm	1292-53-26	1
		450 mm	1292-54-26	1
	Atraumatic grasping forceps, fenestrated, single action	330 mm	1292-53-27	1
		450 mm	1292-54-27	1

## Grasping forceps Ø 5 mm

	Product	Working length	Item.-No.	PU
	Atraumatic grasping forceps, cross-toothed, single action	330 mm	1292-53-28	1
		450 mm	1292-54-28	1
	Atraumatic grasping forceps, multiple fine-toothed, single action	330 mm	1292-53-29	1
		450 mm	1292-54-29	1
	Claw grasping forceps, 2 x 3 teeth, single action	330 mm	1292-53-30	1
		450 mm	1292-54-30	1
	Grasping forceps MAXI GRIP, double action	330 mm	1292-53-31	1
		450 mm	1292-54-31	1
	Atraumatic claw grasper with wavy teeth, single action	330 mm	1292-53-32	1
		450 mm	1292-54-32	1
	Atraumatic claw grasper with wavy teeth, reservoir, double action	330 mm	1292-53-33	1
		450 mm	1292-54-33	1
	DeBAKEY clamp, jaw length 30mm, double action	330 mm	1292-53-36	1
		450 mm	1292-54-36	1
	Atraumatic grasping forceps, fenestrated, double action	330 mm	1292-53-37	1
		450 mm	1292-54-37	1
	DORSEY grasping forceps, with large window, double action	330 mm	1292-53-38	1
		450 mm	1292-54-38	1
	ENDOCLINCH atraumatic wave grasper, fenestrated, double action	330 mm	1292-53-39	1
		450 mm	1292-54-39	1
	KELLY grasping forceps, double action	330 mm	1292-53-42	1
		450 mm	1292-54-42	1
	AGGRESSIV claw grasping forceps, double-action	330 mm	1292-53-43	1
		450 mm	1292-54-43	1
	RETRACTION corrugated grasping forceps, single action	330 mm	1292-53-44	1
		450 mm	1292-54-44	1
	Biopsy punch, single action	330 mm	1292-73-10	1
		450 mm	1292-74-10	1
	Biopsy spoon forceps, double action	330 mm	1292-73-13	1
		450 mm	1292-74-13	1
	Biopsy spoon forceps with thorn, double action	330 mm	1292-73-14	1
		450 mm	1292-74-14	1















## Modules for PAJUNK® laparoscopic instruments

### Instrument system for reuse

#### ErgoSys shaft inserts Ø 3 mm



Ø 3 mm, working length 250/330 mm

	Product	Working length	Item.-No.	PU
	DOLPHIN dissection- and grasping forceps, double action	250 mm	1292-42-10	1
		330 mm	1292-43-10	1
	Atraumatic grasping forceps, pointed, cross-cut serration, double action	250 mm	1292-42-13	1
		330 mm	1292-43-13	1
	Universal grasping forceps, double action	250 mm	1292-42-14	1
		330 mm	1292-43-14	1
	MARYLAND dissection- and grasping forceps, double action	250 mm	1292-42-15	1
		330 mm	1292-43-15	1
	Claw grasping forceps, 2 x 3 teeth, single action	250 mm	1292-42-16	1
		330 mm	1292-43-16	1
	Dissecting scissors, straight, double action	250 mm	1292-42-17	1
		330 mm	1292-43-17	1
	Dissecting scissors, curved, METZENBAUM, double action	250 mm	1292-42-18	1
		330 mm	1292-43-18	1
	Hook-type scissors, straight, single action	250 mm	1292-42-20	1
		330 mm	1292-43-20	1
	Micro-scissors, straight, single action	250 mm	1292-42-21	1
		330 mm	1292-43-21	1
	Biopsy spoon forceps, double action	250 mm	1292-42-22	1
		330 mm	1292-43-22	1
	Biopsy spoon forceps with thorn, double action	250 mm	1292-42-23	1
		330 mm	1292-43-23	1
	Atraumatic grasping forceps, fenestrated, double action	250 mm	1292-42-24	1
		330 mm	1292-43-24	1

# Modules for PAJUNK® laparoscopic instruments

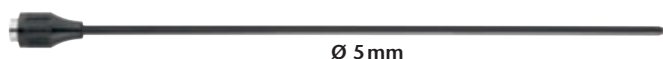
## Disposable instrument system

### ErgoSys handle



Product	Item.-No.	PU
ErgoFlex handle for modular instrument inserts	1292-30-00	1

### Guide tube



Product	Working length	Item.-No.	PU
Insulated guide tube, Ø 5 mm	330 mm	1293-15-05	1
	450 mm	1293-16-05	1

### Connecting rod



Product	Working length	Item.-No.	PU
Connecting rod with snap lock	330 mm	1293-20-05	1
	450 mm	1293-21-05	1

### Disposable scissors inserts



Product	Modell	Item.-No.	PU
METZENBAUM disposable scissors insert, individual sterile packaging	large	1293-93-01	10
METZENBAUM disposable scissors insert, individual sterile packaging	medium	1293-93-02	10
METZENBAUM disposable scissors insert, individual sterile packaging	small	1293-93-03	10



### Disposable grasping forceps inserts



Product	Item.-No.	PU
ENDOCLINCH disposable grasping forceps insert, individual sterile packaging	1293-53-10	10
MARYLAND disposable grasping forceps insert, individual sterile packaging	1293-53-20	10



### Adapter



Product	Item.-No.	PU
High pressure irrigation adapter with female LuerLock connector, for all ErgoSys shaft inserts and guide tubes	1292-43-98	1



[www.ergo-sys.com](http://www.ergo-sys.com)

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