

# Minilaparoscopy

Unipolar and bipolar instruments  
for minilaparoscopy



RoBi

*slimline*

## Interventions Without Visible Scars – Minilaparoscopy

Minilaparoscopy has now become a popular surgical technique as this method – also in hybrid procedures using standard instruments (diameter 5 mm) – represents a minimal learning curve for the user and enhanced cosmetic results for the patient.

✓ **Greater patient satisfaction:**  
3 mm incisions no longer visible only a few weeks after the operation

✓ **Minimal learning curve for the surgeon and OR personnel:**  
No need to learn a new surgical technique

## Well-known fields of application for minilaparoscopy

Surgical procedures that are suitable for minilaparoscopy:

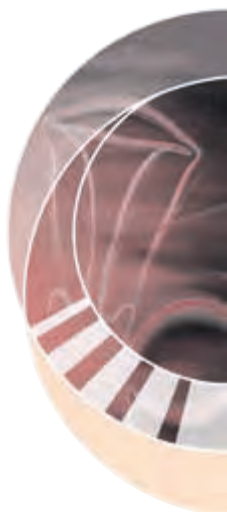
- Surgery limited to an abdominal quadrant or region
- Surgery without major gastrointestinal reconstruction
- Surgery for removing small tissue such as the appendix, gall bladder, adnexa, cysts
- Surgery for patients with normal or slightly high body mass index





## Possible indications for minilaparoscopy in general surgery

- Diagnostic laparoscopy
- Adhesiolysis
- Appendectomy
- Hernia repair
- Cholecystectomy
- etc.



## Possible indications for minilaparoscopy in gynecology

- Cystectomy
- Adnexectomy
- Operative therapy for extrauterine pregnancy
- Total Laparoscopic Hysterectomy (TLH)
- etc.



## Possible indications for minilaparoscopy in urology

- Pyeloplasty
- Orchiopexy
- Ureter reimplantation
- Adrenalectomy
- Partial nephrectomy
- Nephrectomy
- Prostatectomy
- NOTES-assisted minilaparoscopic nephrectomy
- etc.

## KARL STORZ Instruments for Minilaparoscopy

Complete instrument set	Trocars, unipolar & bipolar instruments, suction-irrigation systems, needle holders
ROBI® – rotating bipolar instruments in diameter 3.5 mm	Safe coagulation thanks to bipolar technology and user-friendly instrument design
Additional stability due to non-insulated metal outer sheath	Ideal instruments for grasping and retraction
Three-part dismantling CLICKLINE instruments	For maximum hygiene and variability
All products autoclavable and for multiple use	Efficient and economical modular concept
Latest generation of HOPKINS® telescopes with diameters of 3.3 and 5 mm	Clear and accurate visualization of the operative field
Lightweight, reliable trocars in size 3.5 mm	Gentle to the skin, barely visible scars



KARL STORZ minilaparoscopy set

**NEW**

**CLICKLINE – rotating, dismantling, insulated, with connector pin for unipolar coagulation**



**Size 3.5 mm**

Operating instruments, **length 36 cm**, for use with trocars size 3.5 and 3.9 mm as well as CARVALHO LOWFRIX 30217 KAK

Length	Handle				
	33151	33152	33153	33156	33149
<b>Outer Sheath</b>	31300				
36 cm	<p><b>CLICKLINE Outer Sheath</b>, insulated, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm</p>				
<b>Working Insert</b>	<b>Complete Instrument</b>				
<b>Grasping Forceps</b>					
31310 ML	31351 ML	31352 ML	31353 ML	31356 ML	31349 ML
14	<b>CLICKLINE KELLY Dissecting and Grasping Forceps</b> , double action jaws, long				
31310 MD	31351 MD	31352 MD	31353 MD	31356 MD	31349 MD
10	<b>CLICKLINE KELLY Dissecting and Grasping Forceps</b> , double action jaws				
31310 R	31351 R	31352 R	31353 R	31356 R	31349 R
10	<b>CLICKLINE Dissecting and Grasping Forceps</b> , double action jaws, right-angled				
<b>Scissors</b>					
31310 MW	31351 MW				31349 MW
10	<b>CLICKLINE Scissors</b> , double action jaws, serrated, curved, conical				

| — | Jaw length in mm (approx. measurement)

**Please note:** The products listed in the table above are configuration examples and are only a small excerpt of our product range. All working inserts can be combined with insulated and non-insulated outer sheaths and with each handle.




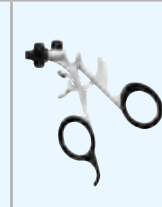
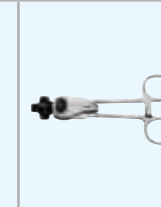

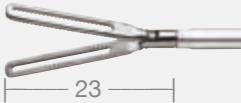





(The following combination is excluded: Scissors inserts and handles with ratchet)

**NEW**

## CLICKLINE - rotating, dismantling, without connector pin for unipolar coagulation


**Size 3.5 mm**

Operating instruments, **length 36 cm**,  
for use with trocars size 3.5 and 3.9 mm as well as  
CARVALHO LOWFRIX 30217 KAK

Length	Handle				
	33161	33162	33163	33166	33146
					
<b>Outer Sheath</b>	31300 M				
36 cm	 <b>CLICKLINE Outer Sheath</b> , insulated, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm				
<b>Working Insert</b>	<b>Complete Instrument</b>				
<b>Grasping Forceps</b>					
31310 C	31361 CM	31362 CM	31363 CM	31366 CM	31346 CM
 — 23 —	<b>CLICKLINE ROTHENBERG Bowel Grasper</b> , double action jaws				
31310 ON	31361 ONM	31362 ONM	31363 ONM	31366 ONM	31346 ONM
 — 16 —	<b>CLICKLINE Grasping Forceps</b> , single action jaws, fenestrated, with especially fine atraumatic serration				
31310 UL	31361 ULM	31362 ULM	31363 ULM	31366 ULM	31346 ULM
 — 11 —	<b>CLICKLINE REDDICK-OLSEN Dissecting and Grasping Forceps</b> , double action jaws, robust				
31310 A	31361 AM	31362 AM	31363 AM	31366 AM	31346 AM
 — 22 —	<b>CLICKLINE BABCOCK Grasping Forceps</b> , double action jaws, atraumatic, fenestrated				
31310 MG	31361 MGM	31362 MGM	31363 MGM	31366 MGM	31346 MGM
 — 13 —	<b>CLICKLINE MANHES Dissecting and Grasping Forceps</b> , "tiger jaws", 2 x 4 teeth				
31310 K	31361 KM	31362 KM	31363 KM	31366 KM	31346 KM
 — 11 —	<b>CLICKLINE Grasping Forceps</b> , atraumatic, fenestrated				

**NEW****CLICKLINE - rotating, dismantling,  
without connector pin for unipolar coagulation****Size 3.5 mm**Operating instruments, **length 36 cm**,  
for use with trocars size 3.5 and 3.9 mm as well as  
CARVALHO LOWFRIX 30217 KAK

Length	Handle				
	33161	33162	33163	33166	33146
<b>Outer Sheath</b>	31300 M				
36 cm	 <b>CLICKLINE Outer Sheath</b> , insulated, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm				
<b>Working Insert</b>	<b>Complete Instrument</b>				
<b>Grasping Forceps</b>					
31310 FG	31361 FGM	31362 FGM	31363 FGM	31366 FGM	31346 FGM
  — 17 —	<b>CLICKLINE Grasping Forceps</b> , atraumatic, wavy serration				
31310 VT	31361 VTM	31362 VTM	31363 VTM	31366 VTM	31346 VTM
  — 11 —	<b>CLICKLINE TAN Pyloric Spreader and Grasping Forceps</b> , in- and outside serrated jaws				
<b>Scissors</b>					
31310 EH	31361 EHM				
  — 6 —	<b>CLICKLINE Scissors</b> , micro hook scissors, single action jaws				

|— | | Jaw length in mm (approx. measurement)

**Please note:** The products listed in the table above are configuration examples and are only a small excerpt of our product range. All working inserts can be combined with insulated and non-insulated outer sheaths and with each handle.

(The following combination is excluded: Scissors inserts and handles with ratchet)

## The new RoBi® in diameter 3.5 mm Bipolar grasping forceps and scissors



### Special Features:

- New handle design with enhanced force limiter
- Jaws with robust hinge for optimized bipolar grasping
- Fully rotational 360° sheath
- Top mounted 45° high frequency connector pin leads the cable away from the operative field
- Color coding on the forceps insert and the handle enables clear identification of the new, modular ROBI® components
- Ideal for use in minilaparoscopy and pediatric surgery
- Can be completely disassembled into separate components:
  - Handle
  - Sheath with working insert
- Cleaning port
- Autoclavable

**NEW**



**ROBI® Working Insert with Outer Sheath, insulated, with LUER-Lock irrigation connector**



e.g., 38910 MD





## CARVALHO Trocar

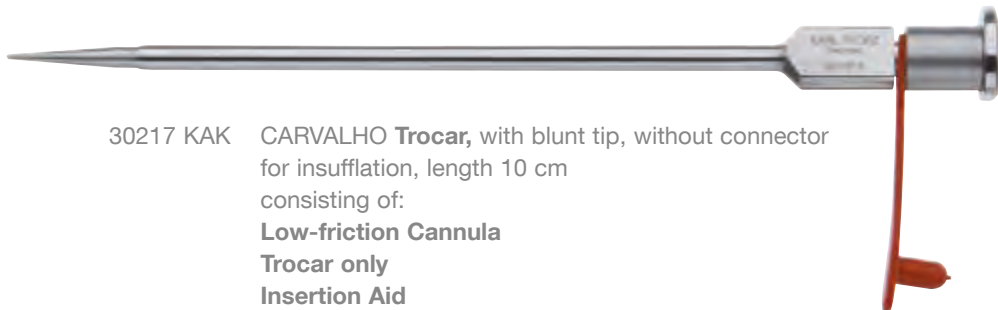
For use with 3.5 mm instruments



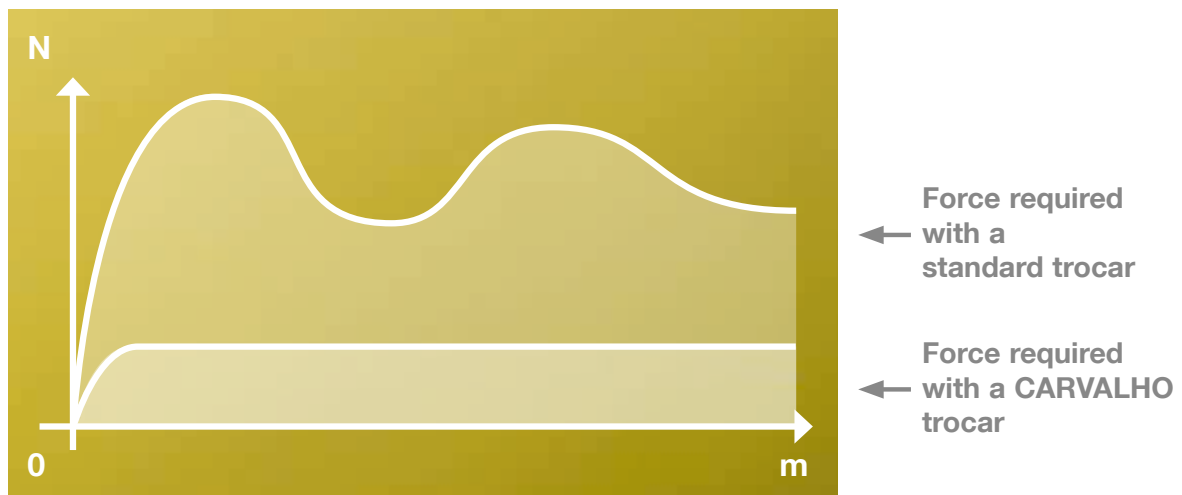
Dispensing with an additional seal reduces the usual friction forces between the trocar and the instrument so that precision of movement is increased and surgical stress is decreased during minimally invasive interventions. By noticeably reducing the friction forces between the trocar and the minilaparoscopic instruments, the precisely engineered system significantly diminishes trocar movement and dislocation of the trocar in the skin. This consequently improves wound healing and cosmetic results.

A great improvement is also found in the precision of movements during dynamic surgical tasks (e.g. suturing), resulting in less stress to the surgeon.

**G. CARVALHO, M.D., PhD,**  
University Hospital Oswaldo Cruz,  
Pernambuco University, Recife, Brazil



30217 KAK CARVALHO Trocar, with blunt tip, without connector for insufflation, length 10 cm consisting of:  
**Low-friction Cannula**  
**Trocar only**  
**Insertion Aid**  
for use with instruments size 3.5 mm



Further trocar types are listed in the main Laparoscopy catalog.

The complete range of products for minilaparoscopy can be found in the main Laparoscopy catalog.

This can be viewed and requested via our website.

[www.karlstorz.com](http://www.karlstorz.com)

**It is recommended to check the suitability of the product for the intended procedure prior to use.**

**STORZ**  
KARL STORZ—ENDOSKOPE

THE DIAMOND STANDARD

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