

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





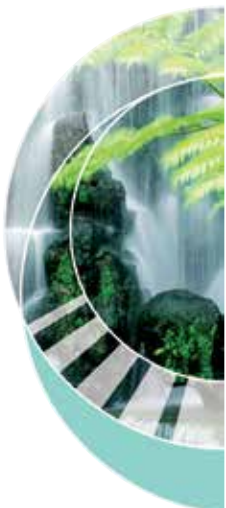
Possible indications for minilaparoscopy in general surgery

- 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**

slimline



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
					
Outer Sheath	31300				
36 cm	 CLICKLINE Outer Sheath , insulated, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm				
Working Insert	Complete Instrument				
Grasping Forceps					
31310 ML	31351 ML	31352 ML	31353 ML	31356 ML	31349 ML
 14	CLICKLINE KELLY Dissecting and Grasping Forceps , double action jaws, long				
31310 MD	31351 MD	31352 MD	31353 MD	31356 MD	31349 MD
 10	CLICKLINE KELLY Dissecting and Grasping Forceps , double action jaws				
31310 R	31351 R	31352 R	31353 R	31356 R	31349 R
 10	CLICKLINE Dissecting and Grasping Forceps , double action jaws, right-angled				
Scissors					
31310 MW	31351 MW				31349 MW
 10	CLICKLINE Scissors , 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

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






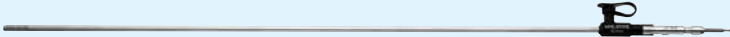


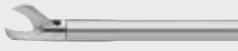
NEW

**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
					
Outer Sheath	31300 M				
36 cm	 CLICKLINE Outer Sheath , insulated, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm				
Working Insert	Complete Instrument				
Grasping Forceps					
31310 FG	31361 FGM	31362 FGM	31363 FGM	31366 FGM	31346 FGM
 17	CLICKLINE Grasping Forceps , atraumatic, wavy serration				
31310 VT	31361 VTM	31362 VTM	31363 VTM	31366 VTM	31346 VTM
 11	CLICKLINE TAN Pyloric Spreader and Grasping Forceps , in- and outside serrated jaws				
Scissors					
31310 EH	31361 EHM				
 6	CLICKLINE Scissors , 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

The new RoBi® in diameter 3.5 mm





Bipolar Grasping Forceps and Scissors



rotating, 2-part, dismantling, with connector pin for bipolar coagulation, CLERMONT-FERRAND model

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

Working Insert with Outer Sheath	Handle
	38151
	
Double action jaws	
Working Insert with Outer Sheath	Complete Instrument
Grasping Forceps	
38910 MD	38951 MD
 12	ROBI® KELLY Grasping Forceps , CLERMONT-FERRAND model, especially suitable for dissection, color code: light blue
38910 ON	38951 ON
 12	ROBI® Grasping Forceps , CLERMONT-FERRAND model, with especially fine atraumatic serration, fenestrated jaws, color code: light blue
Scissors	
38910 MW	38951 MW
 13	ROBI® METZENBAUM Scissors , CLERMONT-FERRAND model, curved scissor blades, color code: light blue

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

CARVALHO Trocar

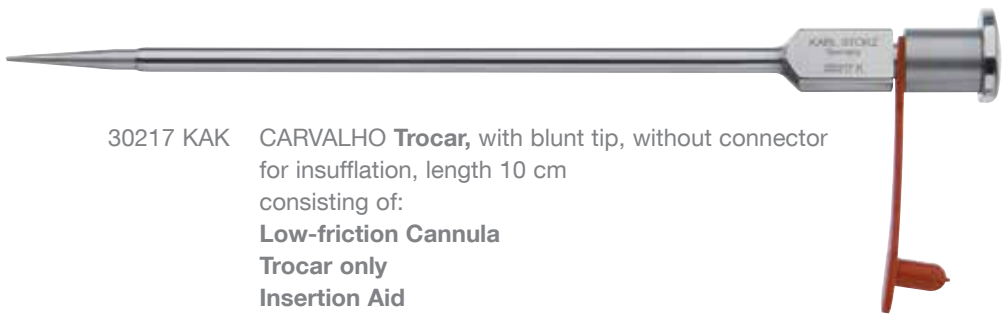
For use with 3.5 mm instruments



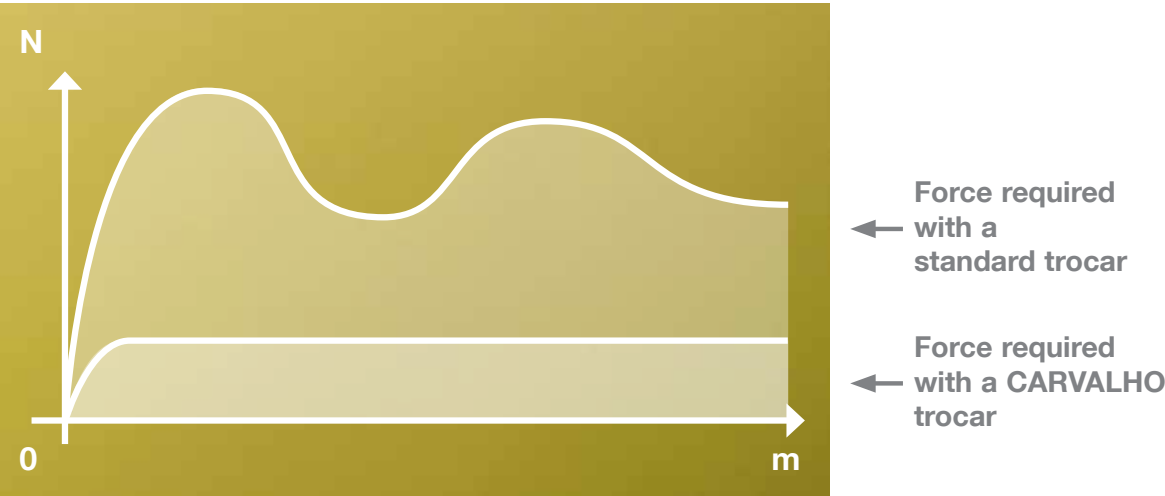
Dispensing with an additional seal reduces the usual friction forces between the trocar and the instrument so that precision of movement is increased and surgical stress is decreased during minimally invasive interventions. By noticeably reducing the friction forces between the trocar and the minilaparoscopic 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

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



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