

The flexible solution



KeyPort *flex*

New flexibility for transanal
and transabdominal surgery

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Flexibility is the key to efficiency. **KeyPort flex** is efficient in every dimension. The flexible silicone tube simplifies introduction, the intelligent combination of reusable and disposable components creates an economic advantage. Compatibility with the Richard Wolf TEM System and the laparoscopic standard instrument set makes the investment future-proof.

The **KeyPort flex** turnkey system is streamlined, cost-effective and offers great performance. The special telescope and the convenient new rinsing sheath ensure clear vision at all times.

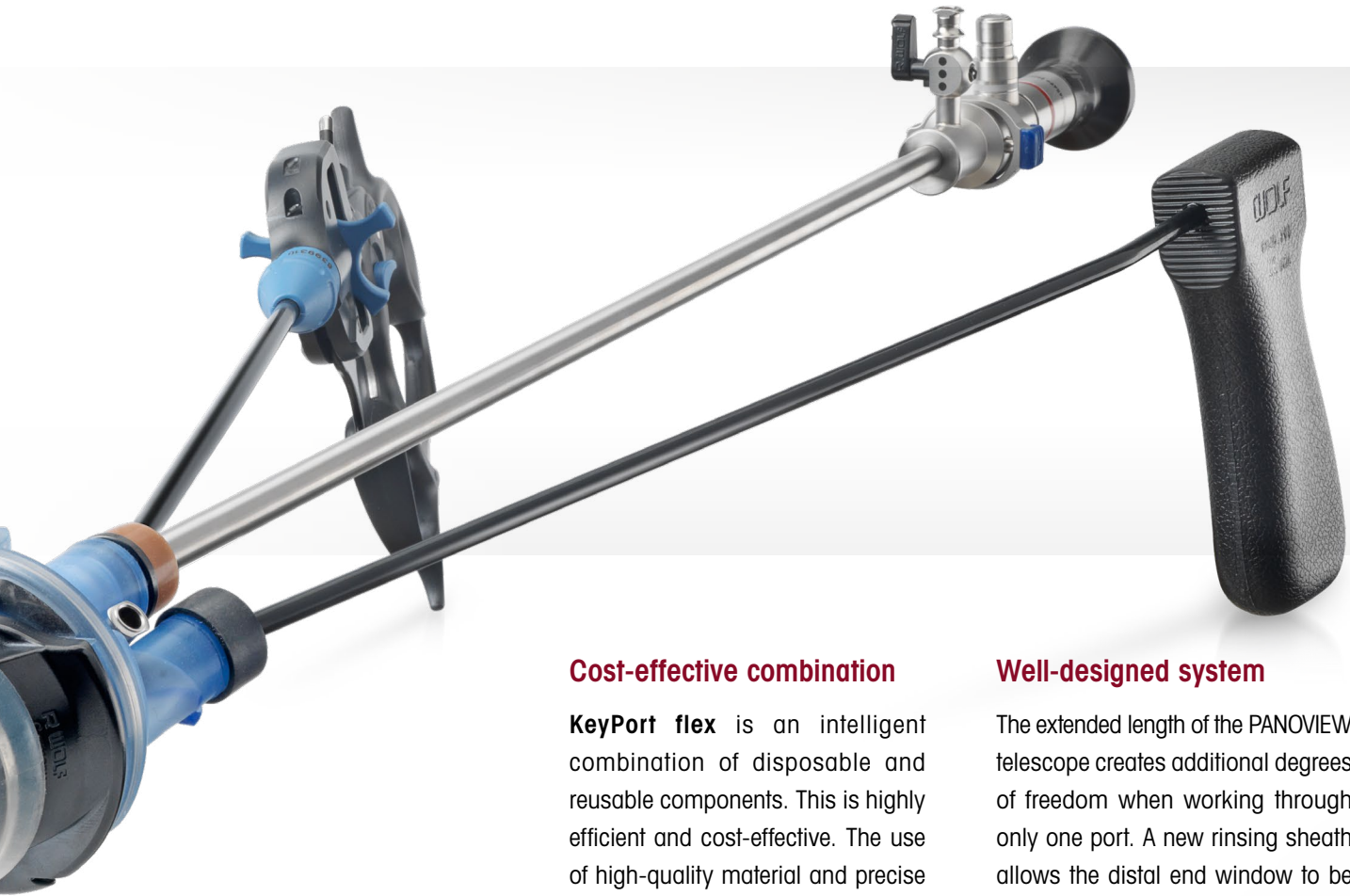
Flexible, disposable tube

The sophisticated solution for disposable use is cost-effective and provides exceptionally atraumatic access. High-tech silicone adapts to any anatomy – while also offering a high level of stability and robust construction. The ingenious insertion lug helps to ensure fast and precise placement of the tube which is fixed securely in place using a silicone ring. The well-thought-out geometry of the tube is tapered in the middle section and has a silicone ring at the distal end to offer adequate space for precise surgery and secure positioning in the anal canal and abdominal wall.

Versatile sealing insert

The reusable sealing insert permits extremely flexible working with three valve ports for instrument diameters from 5 to 15 mm. An additional luer connector for passive smoke discharge or active smoke evacuation extends the functionality of the sealing insert. An additional connector for permanent, intrarectal pressure measurement provides compatibility with the Richard Wolf TEM System.





Cost-effective combination

KeyPort flex is an intelligent combination of disposable and reusable components. This is highly efficient and cost-effective. The use of high-quality material and precise manufacturing makes reprocessing simple and uncomplicated.

Well-designed system

The extended length of the PANOVIEW telescope creates additional degrees of freedom when working through only one port. A new rinsing sheath allows the distal end window to be cleaned at any time, providing additional convenience and efficiency.



DISPOSABLE



REUSABLE



The new rinsing sheath allows the telescope to be easily kept clean without having to remove it. The specially developed 5.7 mm PANOVIEW telescope is extremely long, yet robust, with high light output and gives high light intensity.

DuoRotate and InLine

Freedom of movement meets precision

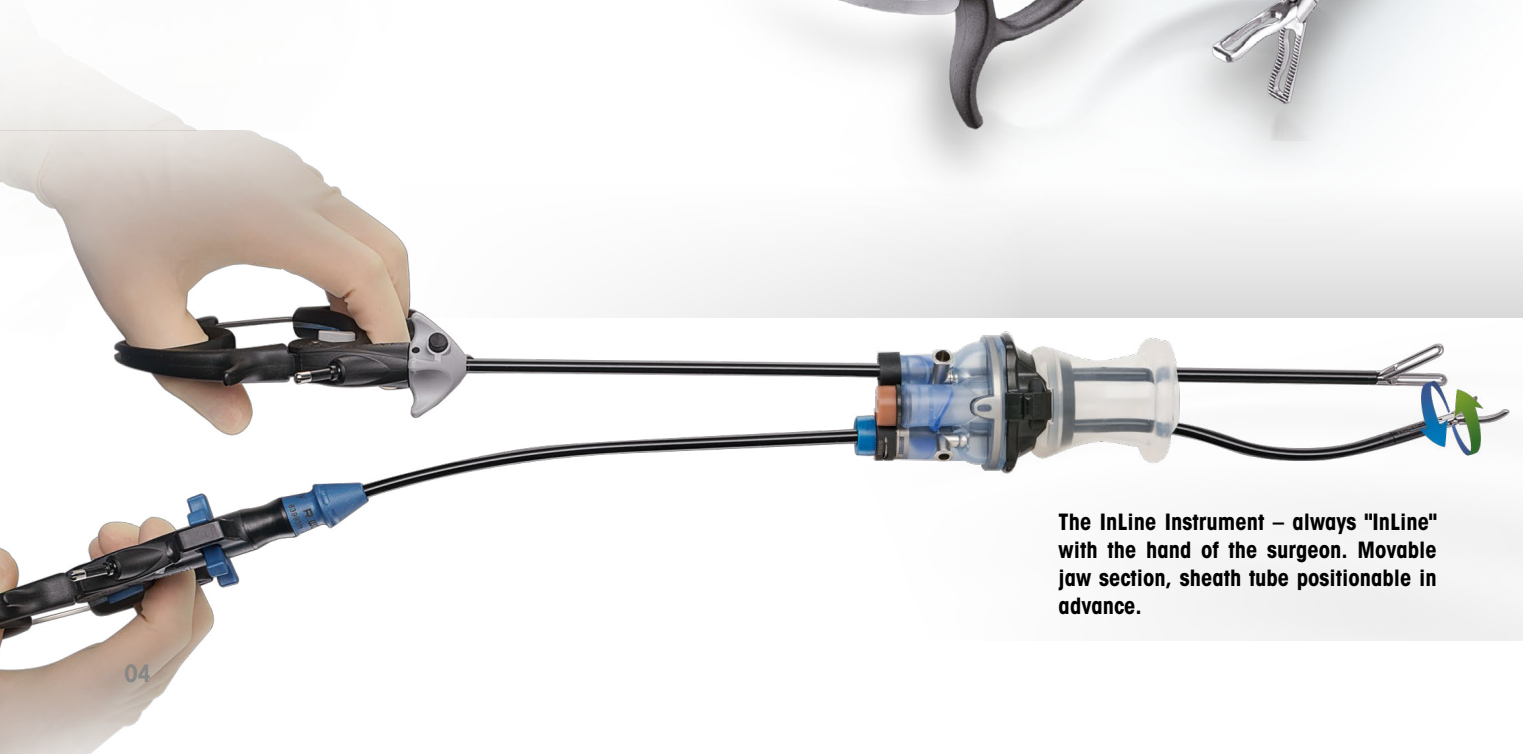
Three-way division – boundless modularity

All components can be combined with each other in our DuoRotate and InLine instrument generation. Various jaw inserts and sheath tubes can be universally combined with the two handle types (**DuoRotate**, **InLine**). The three-part structure permits easy dismantling for optimal reprocessing.

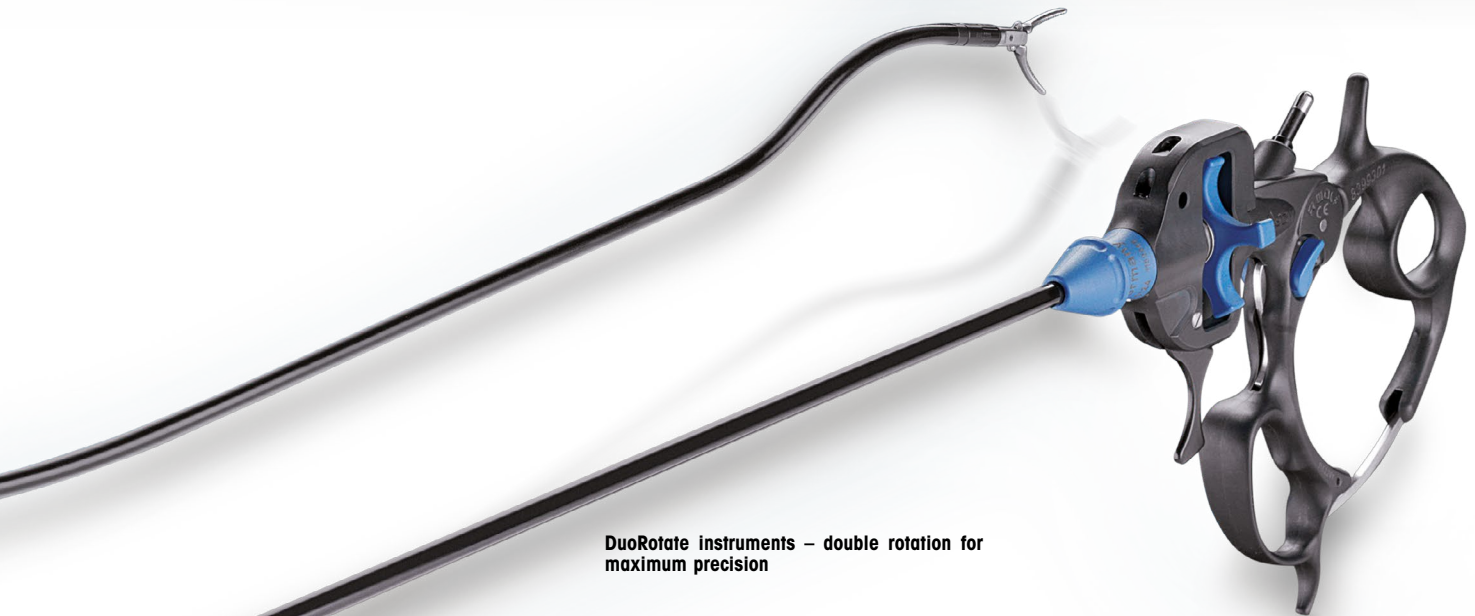
Double-curve, single InLine

The sheath tube of the **InLine** instruments has a double-curve. This curve increases the distance to the neighboring instrument – at the same time, the jaw section moves to the center of the endoscopic image. The resulting effect is that your hand and the instrument tip form an imaginary line. The jaw section of the **InLine** instruments can be turned using the adjustment wheel on the handle. The position of the sheath tube in the handle can be selected before the intervention.

InLine instruments – double curved sheath tube for maximum freedom of movement.



The InLine Instrument – always "InLine" with the hand of the surgeon. Movable jaw section, sheath tube positionable in advance.



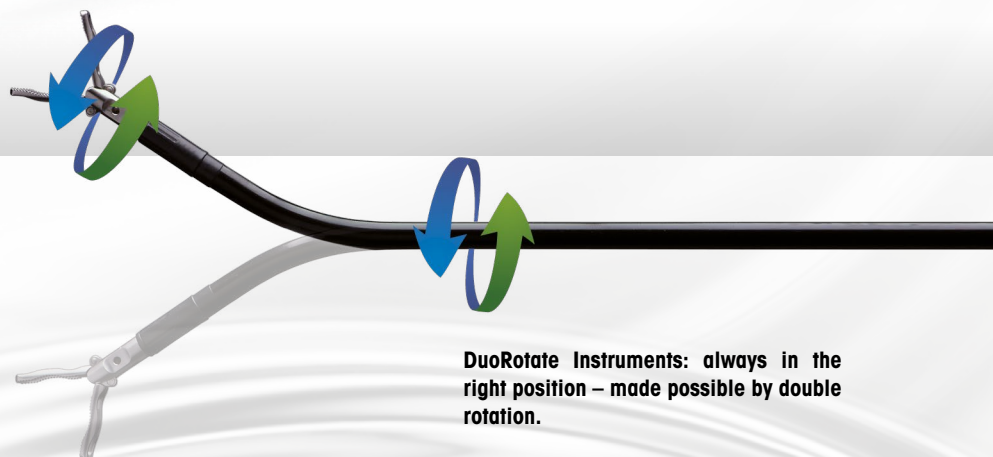
DuoRotate instruments – double rotation for maximum precision

Double movement, simply fantastic

The **DuoRotate** instruments are a pioneering innovation. They elevate Single Port Surgery to a new level. The double rotation function always guarantees the right position for reliable exposure, dissection, or retraction. The sheath tube bent at the distal end can be rotated through 360° using a large and easily

operated rotation wheel on the handle. The toggle lever instantly activates the independently controllable jaw rotation and moves the individual jaw section precisely into position – a technical achievement made in Germany! All this is carried out simply using the toggle lever and the rotation wheel: The hand of











the surgeon can remain in a relaxed position at all times. The ergonomic design of our proven ERAGON handle with disengageable ratchet completes the overall concept.









DuoRotate Instruments: always in the right position – made possible by double rotation.


DuoRotate and InLine



Freedom of movement meets precision

Jaw insert, insulated		DuoRotate sheath tube	InLine sheath tube	Handle		Complete instrument • Jaw insert • Sheath tube • Handle • Rinsing adapter (8399300)
						
		ø 5.8 mm WL 400 mm	ø 5.8 mm WL 400 mm	DuoRotate handle	InLine handle	
	Type	8399310	8399311	8399301	8399302	Type
DuoRotate / InLine "Mixer"  8399410 JL = 21 mm		•		•		83993010
			•		•	83994010
DuoRotate / InLine "Maryland"  8399412 JL = 19 mm		•		•		83993012
			•		•	83994012
DuoRotate / InLine "Metzenbaum"  8399413 JL = 18 mm		•		•		83993013
			•		•	83994013
DuoRotate / InLine "Grasping forceps"  8399414 JL = 17 mm		•		•		83993011
			•		•	83994011
DuoRotate / InLine "Intestine grasping forceps"  8399415 JL = 23 mm		•		•		83993015
			•		•	83994015

*JL = Jaw length when jaws closed (approximate measurements)

Electrode insert, insulated		DuoRotate sheath tube	InLine sheath tube	Handle	Complete instrument • Jaw insert • Sheath tube • Handle
					
		ø 5.8 mm WL 400 mm	ø 5.8 mm WL 400 mm	DuoRotate/InLine electrode handle	
	Type	8399310	8399311	8399303	Type
	DuoRotate / InLine Hook electrode 90° 8399416	•		•	83993016
			•	•	83994016
	DuoRotate / InLine Hook electrode 45° 8399417	•		•	83993017
			•	•	83994017

Rinsing adapter		
	Type	
	Rinsing adapter 8399300	•

HF suction irrigation tube		
		
	Type	WL 380 mm
	HF suction and irrigation tube, curved 8383814 monopolar, ø 5.4 mm	•

KeyPort^{flex} System

KeyPort Flex System	
	<p>KeyPort flex mount autoclavable, inner lumen 24 mm, interface for KeyPort silicone sealings 8850244/8850245 and KeyPort flex silicone tube 485061885060</p>
	<p>KeyPort flex silicone tube, sterile (pack of 10), working length: 55 mm, Ø 33 mm, for connection to KeyPort flex adapter 885060485061</p>
	<p>KeyPort flex Set comprising: KeyPort flex adapter (885060), KeyPort flex silicone tube (pack of 10, 485061), KeyPort silicone sealing insert 2 luer (pack of 3, 8850244), adapter with twist lock (885015), adapter with twist lock (885010), adapter with twist lock (885005), plastic sleeve (8850010), plastic sleeve (8850005), plastic sleeve (8850007), seal cap (pack of 10, 89.04), seal cap (pack of 10, 8932), seal cap (pack of 10, 8930), seal cap (pack 10, 8931), seal cap (pack of 10, 89.08), seal cap (pack of 10, 89.02), Two-way stopcock (8850501)8850601</p>
	<p>KeyPort silicone sealing insert, 2 luer (pack of 3), autoclavable, with three valve ports, with 2 luer-lock connectors for CO₂ insufflation and active or passive smoke-evacuation, interface for KeyPort flex adapter 8850608850244</p>
	<p>KeyPort silicone sealing insert, 2 luer Set comprising: KeyPort silicone sealing insert 2 luer (pack of 3, 8850244), adapter with twist lock (885015), adapter with twist lock (885010), adapter with twist lock (885005), plastic sleeve (8850010), plastic sleeve (8850005), plastic sleeve (8850007), seal cap (pack of 10, 89.04), seal cap (pack of 10, 8932), seal cap (pack of 10, 8930), seal cap (pack of 10, 8931), seal cap (pack of 10, 89.08), seal cap (pack of 10, 89.02), Two-way stopcock (8850501)88502432</p>
	<p>KeyPort flex TEM Set comprising: KeyPort flex adapter (885060), KeyPort flex silicone tube (pack of 10, 485061), KeyPort silicone sealing insert TEM (pack of 3, 8850245), adapter with twist lock (885015), adapter with twist lock (885010), adapter with twist lock (885005), plastic sleeve (8850010), plastic sleeve (8850005), plastic sleeve (8850007), seal cap (pack of 10, 89.04), seal cap (pack of 10, 8932), seal cap (pack of 10, 8930), seal cap (pack of 10, 8931), seal cap (pack of 10, 89.08), seal cap (pack of 10, 89.02)8850602</p>
	<p>KeyPort silicone sealing insert TEM (pack of 3) autoclavable, with three valve ports, with 2 luer-lock connectors for CO₂ insufflation and active or passive smoke-evacuation, additional connector for pressure measurement in conjunction with the TEM combination unit 2232.201, interface for KeyPort flex adapter 8850608850245</p>
	<p>KeyPort silicone sealing insert TEM Set comprising: KeyPort silicone sealing insert TEM (pack of 3, 8850245), adapter with twist lock (885015), adapter with twist lock (885010), adapter with twist lock (885005), plastic sleeve (8850010), plastic sleeve (8850005), plastic sleeve (8850007), seal cap (pack of 10, 89.04), seal cap (pack of 10, 8932), seal cap (pack of 10, 8930), seal cap (pack of 10, 8931), seal cap (pack of 10, 89.08), seal cap (pack of 10, 89.02)88502433</p>
	<p>Rinsing sheath for PANOVIEW telescope for PANOVIEW telescope 89354425, rinsing sheath WL 475 mm, Ø 7 mm893544255</p>
	<p>PANOVIEW telescope 5.7 mm, 0°, WL 500 mm, distortion-free, full-screen image89354415 30°, WL 500 mm, distortion-free, full-screen image89354425</p>