

# KARL STORZ Holding Systems

for open, microsurgical and minimally invasive surgery



# KARL STORZ Holding Systems



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## ENDOSCOPY:



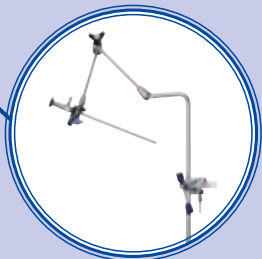
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## ARTip CRUISE® – The High-End Holding System for VITOM® 3D



With the ARTip CRUISE®, the portfolio for the VITOM® 3D system has been expanded to include a motorized, steerable holding arm.

- The ARTip CRUISE® allows easy, fast and precise positioning of the VITOM® 3D system for open and microsurgical procedures in various specialties
- Intuitive and precise control via the IMAGE1 PILOT:  
Only one control element for the VITOM® 3D and ARTip CRUISE®
- Pivoting: Convenient maneuvering around the center point of the image
- Predefined basic positions for easy and fast setup
- Integrated position memory
- Ergonomic posture support thanks to flexible positioning of the holding arm
- Modular concept and extension to future VITOM® models
- Synergy effect:  
Microscopy and endoscopy are combined,  
e.g., when performing endoscopic-assisted microsurgery (EAM)



Repositioning through predefined basic positions via touch screen

Manual positioning of the ARTip CRUISE® using a manual switch

Intuitive and precise control of the VITOM® 3D and ARTip CRUISE® with the IMAGE1 PILOT (X, Y, Z, pivoting, rotation)

## Components



UR501B  
(230V)

### **ARTip CRUISE® Set,**

motorized holding arm, for short-term flexible positioning and dynamic movement of compatible KARL STORZ units during open, microsurgical and minimally invasive interventions, independent of selected instrument adaptor, voltage range 230 V, for use with compatible KARL STORZ units, including:

**VITOM® 3D Adaptor**, for ARTip CRUISE®

UR501C  
(110V)



**Same**, voltage range 110 V

## Accessories

### Camera System:

TC201EN*	<b>IMAGE1 S CONNECT® II</b> , connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
TC302	<b>IMAGE1 S D3-LINK®</b> , link module, for use with TIPCAM®1 S 3D, power supply 100-120 VAC/200-240 VAC, 50/60 Hz
TL300	<b>Cold Light Fountain POWER LED 300</b> , with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet, power supply 100-240 VAC, 50/60 Hz
495VIT	<b>Fiber Optic Light Cable</b> , with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm
TM330	<b>32" 3D Monitor</b>
TM350	<b>32" 4K/3D Monitor</b>
TM450	<b>55" 4K/3D Monitor</b>
TM003	<b>3D Polarization Glasses</b>
9800C	<b>3D Clip-on Glasses</b>

### VITOM® 3D:

TH200	<b>VITOM® 3D</b> , with zoom and focus function, integrated illumination and horizon alignment, working distance 20-50 cm, fiber optic light transmission incorporated, suitable for wipe disinfection, for use with IMAGE1 S D3-LINK® TC302 and IMAGE1 PILOT TC014
TH001	<b>Cover</b> , for VITOM® 3D, sterile, for single use, package of 10 <span>STERILE</span> 
TC014	<b>IMAGE1 PILOT</b> , control wheel with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units
28272HB	<b>Articulated Stand</b> , L-shaped
28172HR	<b>Rotation Socket</b> , to clamp to the operating table
041150-20	<b>Cover</b> , with elasticated tip, 42 x 177 cm, sterile, for single use, package of 20 <span>STERILE</span> 

\* Also available in the following languages: DE, ES, FR, IT, PT, RU



## VERSACRANE™ LIGHT Holding System – for the Convenient Positioning of VITOM® Systems



The VERSACRANE™ LIGHT is a versatile holding system that was specially designed for use with VITOM® systems for open, microsurgical and minimally invasive surgery.

- Easy and precise positioning of the VITOM® system
- Ready for immediate use – the VERSACRANE™ LIGHT is mounted on a mobile stand so that it can be quickly transported to the operating room and positioned before surgery
- Individual adjustment – thanks to its gas spring-supported arm, the holding arm offers weight compensation for the VITOM® holding system. The braking force of each joint can also be adjusted individually.
- Straightforward handling – the VERSACRANE™ LIGHT can be used with one hand
- Can be used with the VITOM® 2D and 3D

**Note:** The VERSACRANE™ LIGHT cannot be used with rigid endoscopes. It is exclusively for use with KARL STORZ clamping jaws and VITOM® 2D or VITOM® 3D telescopes.





Setting the weight range  
for the braking force

KSLOCK interface for  
connecting KARL STORZ  
clamping jaws and  
VITOM® systems

Enhanced maneuverability  
via stand ("X-Design")  
and integrated grab handle

## Components



UR300

**VERSACRANE™ LIGHT Holding Arm**, mechanical mobile holding arm, with quick release coupling KSLOCK, for short-term, non-invasive and flexible positioning of VITOM® scopes/exoscopes for open, microsurgical and minimally invasive surgery, for use with KARL STORZ clamping jaws and VITOM® scopes/exoscopes, including:

**Mobile Stand**

**Mechanical Friction Brake**

**WARNING:** The VERSACRANE™ LIGHT holding arm should not be used with rigid endoscopes!

## Clamping Jaws and Accessories



28272VTK

**VITOM® 3D Clamping Jaw**, with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK



28272UGK

**Clamping Jaw**, with ball joint, large, clamping range 16.5-23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes



28272CN

**Clamping Cylinder**, folding, for flexible mounting of 10 mm telescopes to telescope sheaths, autoclavable. The clamping cylinder allows vertical movement and rotation of the telescope.



TH001

**Cover**, for VITOM® 3D, sterile, for single use, package of 10



## ARTip® SOLO – Your Camera Guidance System



The ARTip® SOLO is a camera guidance system for holding and guiding laparoscopes. It mainly serves to stabilize the image quality of 3D and 4K systems. The autonomous camera guidance system allows the assistant to actively participate in surgery. Furthermore, the operating surgeons have control over their own fields of view. The ARTip® SOLO can be moved in three different ways: Manually, via joystick control or alternatively by voice control.

- For holding and guiding laparoscopes (diameters 10 mm and 5 mm)
- Stable and tremor-free surgical field of view, even in extreme endoscope positions
- Precise control via joystick
- Avoidance of ergonomically unfavorable positions by manual guidance of the camera
- Hands-free control via voice control (optional)
- Determination via image position: Eliminates misunderstandings between the surgeon and assistants
- Autoclavable elements and sterile cover for main components
- Setup on all OR tables with standard rails (DIN EN 19054)



## Components and Accessories



UR200

**ARTip® SOLO Camera Guidance System**, for holding and guiding laparoscopes, clamps to the OR table with quick release lock



UR016

**ARTip® SOLO Mobile Stand**, for the storage and transport of the ARTip® SOLO



UR018

**Sterilization Tray**, for the ARTip® SOLO, wire tray for machine reprocessing with holder for universal joint, endoscope clamp, two tension sleeves and space for joystick, instrument mount



UR012

**ARTip® SOLO Endoscope Clamp**, a pivoting connection between the universal joint and the endoscope in combination with Tension Sleeves UR014 and UR015



UR013

**ARTip® SOLO Universal Joint**, autoclavable, pivoting joint between the ARTip® SOLO and the endoscope clamp



UR014

**ARTip® SOLO Tension Sleeve**, 5 mm, for endoscope, autoclavable

UR015

**Same**, 10 mm



UR008

**ARTip® SOLO Joystick left**, autoclavable, for controlling and positioning the ARTip® SOLO, for use on the left instrument, with cable connection to the ARTip® SOLO

UR009

**Same**, right



UR011

**ARTip® SOLO Instrument Mount**, autoclavable, for attaching the joystick to the following KS CLICKLINE Handles: 33121, 33121W, 33122, 33123, 33151, 33151P, 33152, 33153



UR017

**Cover**, with elasticated tip, 30 x 178 cm, sterile, for single use, package of 50, for use with the ARTip® SOLO



### Available Sets

- UR200S1     **ARTip® SOLO Starter Set**, consisting of:
- UR200 **ARTip® SOLO Camera Guidance System**
  - UR016 **Mobile Stand**
  - UR017 3x **Cover**, sterile, package of 50,
  - UR018 **Sterilization Tray**
  - UR013 **Universal Joint**
  - UR012 **Endoscope Clamp**
  - UR015 **Tension Sleeve**, 10 mm, for endoscope
  - UR014 **Tension Sleeve**, 5 mm, for endoscope
  - UR011 **Instrument Mount**

The UR008 or UR009 joystick (left or right) must be ordered separately with the **starter set**.

- UR008S1     **ARTip® SOLO Joystick Set left**, for 150 applications, consisting of:
- UR008 1x **ARTip® SOLO Joystick Set, left**
  - UR017 3x **Cover**, sterile, package of 50

- UR009S1     **ARTip® SOLO Joystick Set right**, for 150 applications, consisting of:
- UR009 1x **ARTip® SOLO Joystick Set, right**
  - UR017 3x **Cover**, sterile, package of 50

- UR010     **ARTip® SOLO Sterile Set**, consisting of:
- UR018 **Sterilization Tray**
  - UR013 **Universal Joint**
  - UR012 **Endoscope Clamp**
  - UR015 **Tension Sleeve**, 10 mm, for endoscope
  - UR014 **Tension Sleeve**, 5 mm, for endoscope

### Optional



UR201

**ARTip® SOLO VOICE Voice Control**, for controlling and positioning the ARTip® SOLO via voice commands including:

- Connecting Cable**
- Y-Cable**
- Headset**
- Charging Station for Headphones**
- Mains Cord**



## ARTip® BASE – Simply Stable



The ARTip® BASE is a holding arm that can be used with one hand for the flexible positioning of KARL STORZ endoscopes, VITOM® systems and instruments for open, microsurgical and minimally invasive procedures. ARTip® BASE offers the user flexibility thanks to 5 degrees of freedom.

- Interdisciplinary use – thanks to the KSLOCK interface
- Single-hand positioning possible
- Autoclavable holding arm elements
- Battery-operated
- Setup on all OR tables with standard rails (DIN EN 19054)



### Components



28272TL

**ARTip® BASE Holding Arm long**, sterilizable holding and control element with KSLOCK interface, reach 710 mm, for use with ARTip® BASE Unit 28272TM and KSLOCK adaptor



28272TS

**ARTip® BASE Holding Arm short**, sterilizable holding and control element with KSLOCK interface, reach 550 mm, for use with ARTip® BASE Unit 28272TM and KSLOCK adaptor



28272TM

**ARTip® BASE Unit**, for use with ARTip® BASE Holding Arm 28272TL, 28272TS, ARTip® BASE Rechargeable Battery 28272TA and ARTip® BASE Charging Unit 28272TC



28272TA

**ARTip® BASE Rechargeable Battery**, rated voltage 14.4 V, rated capacity 2500 mAh, cell type 4S Li-Ion, 18650, with LED status indicator, for use with ARTip® BASE Unit 28272TM and ARTip® BASE Charging Unit 28272TC



28272TC

**ARTip® BASE Charging Unit**, for charging and storing max. two rechargeable batteries, including connecting cable, for use with ARTip® BASE Rechargeable Battery 28272TA

### Clamping Jaws and Accessories



28172HR

**Rotation Socket**, to clamp to the operating table, with one mounted Butterfly Nut 28172HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand



041151-30

**Cover**, with elasticated tip, 42 x 105 cm, sterile, for single use, package of 30, for use with ARTip® BASE 28272TM and holding systems





**28272UGK** **Clamping Jaw**, with ball joint, large, clamping range 16.5-23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes



**28272UKK** **Clamping Jaw**, with ball joint, small, clamping range 4.8-12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths



**28272CN** **Clamping Cylinder**, folding, for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable. The clamping cylinder allows vertical movement and rotation of the telescope.



**28272UGN** **Clamping Jaw**, metal, clamping range 16.5-23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes



**28272UKN** **Clamping Jaw, metal**, clamping range 4.8-12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths



**28272VTK** **VITOM® 3D Clamping Jaw**, with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK



**28272UFN** **Clamping Jaw for Videoscopes and Fiberscopes**, with quick release coupling KSLOCK (male), for use with rigid and flexible videoscopes or fiberscopes and KARL STORZ holding systems with quick release coupling KSLOCK



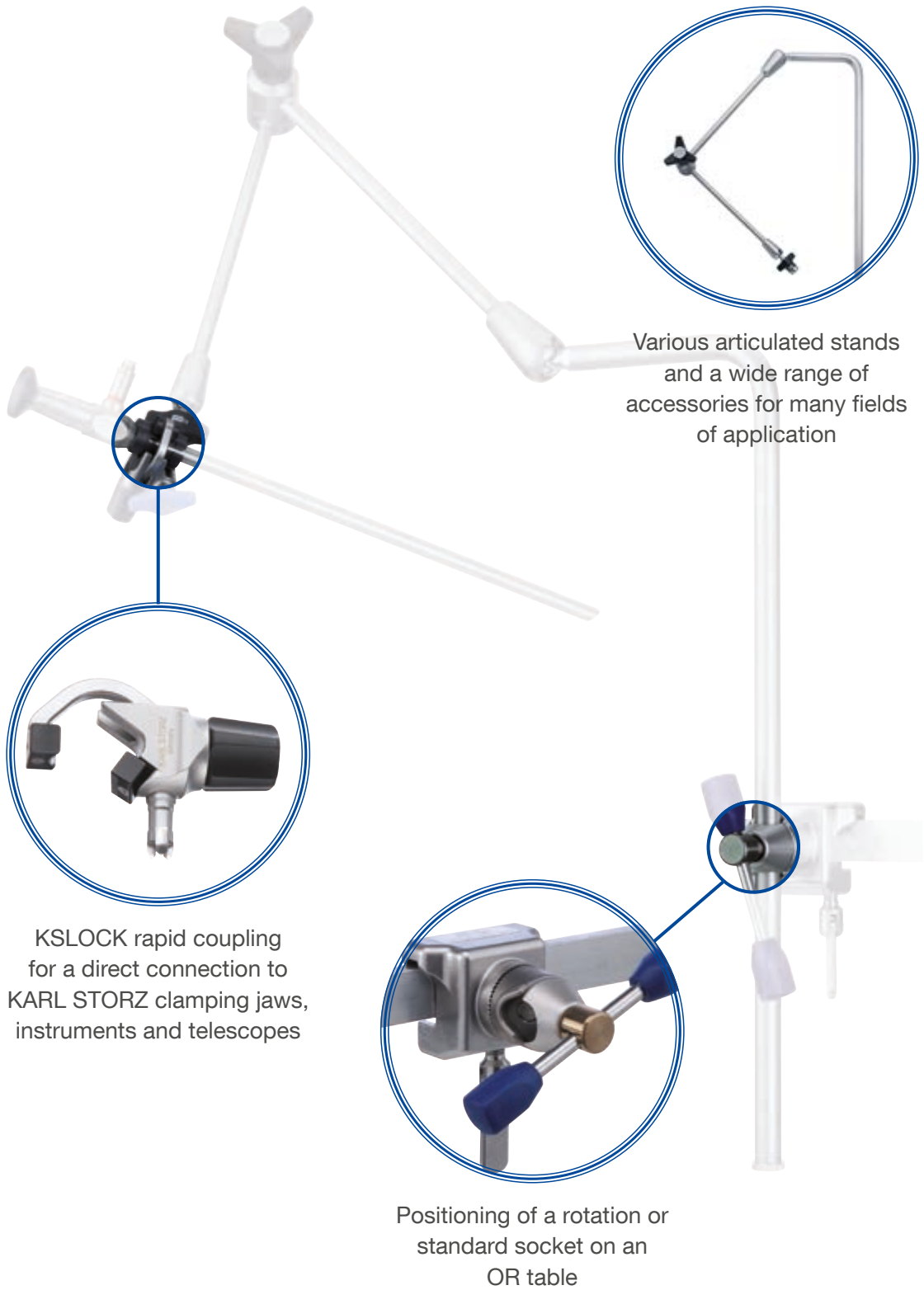
**28272UL** **Clamping Jaw**, universal, clamping range 0-18 mm, with quick release coupling KSLOCK (male)

## Mechanical Holding Systems with KSLOCK










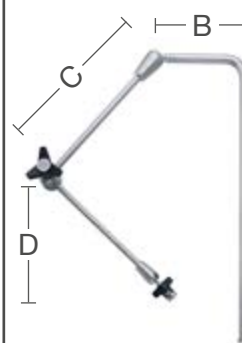

The mechanical holding systems from KARL STORZ offer a versatile, convenient and cost-effective possibility for the secure positioning of instruments and telescopes. A wide range of accessories enables the systems to be configured for many fields of application.

- Stable positioning on all OR tables with standard rails (DIN EN 19054)
- Many fields of application possible thanks to various articulated stands and a wide range of accessories
- Safe fix and release of instruments and telescopes
- Variable height adjustment
- Additional column extension for the adjustment of particularly large working distances
- KSLOCK rapid coupling for mounting clamping jaws, instruments and accessories
- Autoclavable



Overview of Mechanical Holding Systems with KSLOCK



<div> +  + </div>							
Socket							
Standard Socket				Rotation Socket			
28172HK				28172HR			
							
Articulated Stands							
Straight		L-shaped		L-shaped, long		U-shaped	
28272HA		28272HB		28272HC		28272HD	
							
A 30 cm	B 17 cm	A 48 cm	B 15 cm	A 48 cm	B 15 cm	A 25 cm	B 31 cm
C 20 cm		C 20 cm	D 17 cm	C 27 cm	D 24 cm	C 10 cm	D 20 cm
						E 17 cm	



## Sockets



28172HK

**Standard Socket**, to clamp to the operating table, for European and US standard rails, also suitable for rails 25x10 to 35x8 mm, lateral clamp for height adjustment of the articulated stand



28172HR

**Rotation Socket**, to clamp to the operating table with one mounted Butterfly Nut 28172HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand

## Articulated Stands



28272HA

**Articulated Stand**, straight, reinforced version, with one mechanical central clamp for all five joint functions, height 30 cm, operating range 37 cm, with quick release coupling KSLOCK (female)



28272HB

**Articulated Stand**, L-shaped, reinforced version, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 52 cm, with quick release coupling KSLOCK (female)



28272HC

**Articulated Stand**, L-shaped, long, reinforced version, especially long operating range, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 66 cm, with quick release coupling KSLOCK (female)



28272HD

**Articulated Stand**, U-shaped, reinforced version, with one mechanical central clamp for all five joint functions, with quick release coupling KSLOCK (female)

**Clamping Jaws**

28272UGN

**Clamping Jaw**, metal, clamping range 16.5-23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes



28272UKN

**Clamping Jaw, metal**, clamping range 4.8-12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths



28272UGK

**Clamping Jaw**, with ball joint, large, clamping range 16.5-23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes



28272UKK

**Clamping Jaw**, with ball joint, small, clamping range 4.8-12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths



28272UL

**Clamping Jaw**, universal, clamping range 0-18 mm, with quick release coupling KSLOCK (male)



28272UFN

**Clamping Jaw for Videoscopes and Fiberscopes**, with quick release coupling KSLOCK (male), for use with rigid and flexible videoscopes or fiberscopes and KARL STORZ holding systems with quick release coupling KSLOCK

**Accessories**

28272CN

**Clamping Cylinder**, folding, for flexible mounting of 10 mm telescopes to telescope sheaths, autoclavable. The clamping cylinder allows vertical movement and rotation of the telescope.



28172HM

**Extension Rod**, 50 cm, with lateral clamp for height adjustment of the articulated stand, for use with Articulated Stands 28272HA, 28272HB, 28272HC and Sockets 28172HK, 28172HR

























041150-20

**Cover**, with elasticated tip, 42 x 177 cm, sterile, for single use, package of 20, for use with KARL STORZ holding systems and IMAGE1 PILOT



## Overview of Holding Systems

					Endoscopy					Microscopy		
					Mechanical Holding Systems				ARTip® BASE	ARTip® SOLO	VERSACRANE™ LIGHT	ARTip CRUISE®
					28272HA	28272HB	28272HC	28272HD	28272TSS/L	UR200	UR300	UR500B/C
												
Endoscopes	Rigid endo- scopes	2D*			X	X	X	X	X	x	-	-
	Video- endo- scopes	3D	4 mm		X	X	X	X	X	-	-	-
			10 mm		X	X	X	X	X	X	-	-
	Sheaths*				X	X	X	X	X	-	-	-
	Flexible Endo- scopes	2D*			X	X	X	X	-	-	-	-
Exoscopes	VITOM® 2D*				X	X	X	X	X	-	X	-
	VITOM® 3D				-	-	-	-	X	-	X	X
Instruments	Rigid instruments*				X	X	X	X	X	-	-	-
Platform	TEO®**				X	X	X	X	X	-	-	-
	Retractor*				X	X	X	X	X	-	-	-
Accessories	Socket	Universal			X	X	X	X	X	-	-	-
		Rotation			X	X	X	X	X	-	-	-
	Extension Rod				X	X	X	X	-	-	-	-
	Sterile Cover*				041150-20	041150-20	041150-20	041150-20	041151-30	UR017	041150-20 & TH001	TH001




















X Can be combined for clinical applications

- Cannot be combined for clinical applications

\* Only one member of the product family is displayed as a representative image

\*\* Can also be directly connected to the holding arm thanks to the KSLOCK interface.  
Clamping jaw is not absolutely necessary.

## Overview of Clamping Jaws

					Universal	Instruments and Telescope Sheaths (4.8-12.5 mm)		Telescopes (16.5-23 mm)		Clamping Cylinder for 10 mm telescopes	Video- and Fiberscopes	VITOM® 3D
					28272UL	28272UKN	28272UKK	28272UGN	28272UGK	28272CN	28272UFN	28272VTK
												
Endoscopes	Rigid endo- scopes	2D*	2-9 mm		-	-	-	X	X	-	-	-
			10-11 mm		-	-	-	X	X	X	-	-
	Video endo- scopes	3D	4 mm		-	-	-	-	-	-	-	-
			10 mm		-	-	-	X	X	X	X	-
	Sheaths*					X	X	-	-	-	-	-
	Flexible endo- scopes	2D*			-	-	-	-	-	-	X	-
Exoscopes	VITOM® 2D*				-	-	-	X	X	X	-	-
	VITOM® 3D				-	-	-	-	-	-	-	X
Instruments*	Rigid instruments*				X	X	X	-	-	-	-	-
Platform	TEO®**				X	-	-	-	-	-	-	-
	Retractor*				X	-	-	-	-	-	-	-

X Can be combined for clinical applications

- Cannot be combined for clinical applications

\* Only one member of the product family is displayed as a representative image

\*\* Can also be directly connected to the holding arm thanks to the KSLOCK interface.  
Clamping jaw is not absolutely necessary.

It is recommended to check the suitability of the product for the intended procedure prior to use.  
Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.

More than  
**75**  
Years

*Shaping the Future  
of Endoscopy with you*

