ulrich medical® Tourniquets

Combining ease of use with safety











100 years of reliability and German precision

Tourniquets by ulrich medical® stand for quality "Made in Germany."

They are the successful result of systematic development activities and many years of experience in medical technology.

For almost 100 years, we have done our best every day for our customers and for patient health with our proprietary and innovative products.

Leading-edge technology and competence from one source

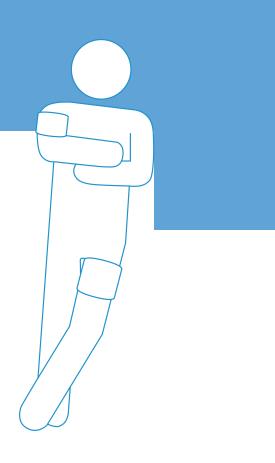
Easy handling in the OR environment and a comprehensive safety concept for maximum patient safety are characteristic of all ulrich medical® tourniquets.

Thanks to our competent, motivated customer service team, ulrich medical® customers always receive individual, attentive support on site.

This includes.

- Comprehensive consultation
- Free trial periods
- Device instruction and support in the OR
- Renair service
- Seamless processes and fast delivery times





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Immediately available. Ready for use quickly.

The new, innovative generation of ulrich medical® tourniquets



My new colleague in the OR: reliable, attentive, competent

Secure application with 2 clicks

The new touch-screen tourniquets

For over 70 years, ulrich medical® employees have been in close contact with physicians and users in the OR. Their experiences form the basis of our innovations and developments and are the impulse for our technicians and engineers.

This input – combined with our many years of experience – resulted in a new generation of tourniquets with unique ergonomy and application quality.

Three models of the new generation of ulrich medical® tourniquets is available: With elsa™, heidi™ and sophie™, we offer the ideal device to meet every requirement.

e/5a TM mein Tourniquet

elsa™ – The classic one

The compact single-channel device for all classic applications.



heidi™ - The flexible one

The adjustable 2-channel device for maximum flexibility



sophie™ – The convenient one

The practical 2-channel device for your CGS system connection



Simple – Modern touch-screen with





Advanced Technology from Germany:

All tourniquets are developed and produced at the Ulm site.



Maximum application quality

Intuitive operation







Intelligent Well-thought-out functions, for example, the automatic start of

the timer and protocol printer guarantee ease of use and

maximum user-friendliness.

Modern The tourniquet is operated using simple, easy-to-understand

symbols on a touch-screen.

The unique ulrich medical® safety design contains comprehensive Safe

safety functions:

Self-test at device start-up

Automatic leak handling

Maintenance of cuff pressure in the event of loss of power



Maximum mobility

Available anywhere, at any time



Reliable An acoustic and visual display provides a warning in the event of a

low battery status.

In addition to use with the rechargeable battery, the device can **Adjustable**

also be switched over intraoperatively to mains power without

pressure fluctuations.



A compact device with rechargeable battery and without a lot of cables this is just what we need:

A system-integrated solution.

OR nurse, Germany, prototype tests



Maximum variability

2 color-coded connections for IVRA applications



Maximal safety during IVRA applications

2 color-coded connections as well as color-coordinated matching on the touch-screen; the tubing and cuffs allow simple and uncomplicated IVRA applications.





Bilateral

With heidiTM and sophieTM, simultaneous surgery on both arms or legs or on one arm and one leg can be performed. Both pressure circuits work fully independently. The corresponding data are shown visually separated side by side.



Clever and unique details

Multi-compatible with integrated protocol printer



Integrated protocol printer

Allows automatic realtime documentation of all relevant blood arrest data.



Suitable for any OR environment

The device can be mounted on a mobile stand, on a surgical tower, on standard rails and hanging brackets.

Mobile stand



UT 1382 Mobile stand

Standard rail



UT 1383 Adjustable mounting block

Surgical tower





My designer piece

Quality × 3

The ideal device for every requirement



The **elsa™** tourniquet can be used for all classic tourniquet applications. An integrated rechargeable battery and compressor allow the device to be used at any time and any place. elsa™ is the classic tourniquet and is optimally suitable for mounting on a mobile stand or on the surgical tower.

- Single-channel blood-arrest system
- Integrated, energy-saving rechargeable battery for surgical use without power supply for up to 4 hours
- Integrated high-performance compressor for active, fully independent use in the OR with minimal noise

Take the tourniquet wherever you need it! The **heidi™** tourniquet is the mobile all-rounder for every conceivable use. With the integrated rechargeable battery and compressor as well as the 2 connections, heidi™ can meet every challenge. It is flexible amongst tourniquets and optimally suitable for mounting on a mobile stand or on the surgical tower.

- Two-channel blood arrest system with 2 independent displays and setting options
- Integrated, energy-saving rechargeable battery for surgical use without power supply for up to 4 hours
- Integrated high-performance compressor for active, fully independent use in the OR with minimal noise





The **sophie™** tourniquet is the ideal device for blood arrest applications via the central gas supply. sophie™ is distinguished by its light weight and quiet operation. It is the convenient choice amongst tourniquets and optimally suitable for mounting on a standard rail.

- Two-channel blood arrest system with 2 independent displays and setting options
- Integrated connection for the central gas supply (CGS)
- Connection for power supply



Overview of the Devices

elsa™, heidi™ and sophie™







	elsa™	heidi™	sophie™
Product number	UT 1380-E	UT 1380-H	UT 1380-S
Mounting on mobile stand UT 1382	\checkmark	\checkmark	\checkmark
Optional protocol printer	UT 1380-EP	UT 1380-HP	UT 1380-HP
1 Connection	\checkmark		
2 Connections for IVRA and bilateral application (2 different pressures can be set)		\checkmark	\checkmark
Integrated rechargeable battery for surgical use without power supply for up to 4 hours	\checkmark	\checkmark	
Integrated cable and tubing holders	\checkmark	\checkmark	\checkmark
Integrated compressor	\checkmark	\checkmark	
Connection for central gas supply			\checkmark
Rubber device base ensures nonskid operation	\checkmark	\checkmark	\checkmark
Long-lasting seals on all joints	\checkmark	\checkmark	\checkmark
Optional fixation element for standard rail with adjustable angle of inclination for ergonomic work	\checkmark	√	\checkmark
User-configurable countdown	\checkmark	\checkmark	\checkmark
User-configurable duration of blood arrest	\checkmark	\checkmark	\checkmark
 ulrich medical® safety design Maintenance of cuff pressure in the event of complete loss of power Automatic leakage handling for maximum safety during use Automatic pressure regulation in the event of under- and overpressure Pressure calibration each time the device is started up 	√	√	√
Volume can be individually adjusted	\checkmark	\checkmark	\checkmark
Display brightness can be individually adjusted	\checkmark	\checkmark	\checkmark
Adjustable date and time	\checkmark	\checkmark	\checkmark
Integrated device check can be performed by the user for rapid error analysis	\checkmark	\checkmark	\checkmark

Technical Data

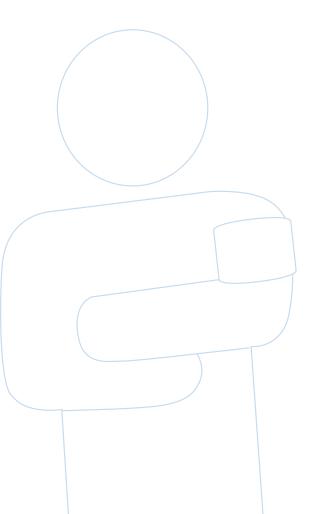
elsa™, heidi™ und sophie™







	elsa™	heidi™	sophie™
Power connection	230 VAC 50/60 Hz	230 VAC 50/60 Hz	230 VAC 50/60 Hz
Power output	40 W	40 W	40 W
MPG class	lla	lla	lla
Supply of compressed air	Integrated compressor	Integrated compressor	6 bar
Cuff pressure	Arm and leg, 30 - 600 mmHg	Arm and leg, 30 - 600 mmHg	Arm and leg, 30 - 600 mmHg
Accuracy	± 3 mmHg	± 3 mmHg	± 3 mmHg
Documentation	Integrated protocol printer	Integrated protocol printer	Integrated protocol printer
Display	Resistive touch	Resistive touch	Resistive touch
Microprocessor	Yes	Yes	Yes
Dimensions (W \times H \times D)	300 × 145 × 160 mm	300 × 145 × 160 mm	300 × 145 × 160 mm
Weight	4.6 kg	4.6 kg	3.8 kg







Accessories

A one-stop solution



The fast road to safety ulrich medical® disposable cuffs

Reliable hygiene. Streamlined process.

Sterile packaging makes the new ulrich medical® disposable cuffs a perfect fit for your hygiene concept.

As a disposable product, they ensure the highest level of hygiene safety and reliability, regardless of hospital and surgical processes. Because they are ready for immediate use at any time, these disposable cuffs will maximize flexibility for your staff members, making their jobs much easier.

Available in sizes S through L (cylindrical shape) as well as XL (tapered shape), ulrich medical® disposable cuffs will serve you reliably in terms of safe hygiene, speed, cost effectiveness and an easier workload.











For single use – no additional time and expenses for reprocessing in your CSSD

Tapered, narrow design – optimal fit that is gentle to the patient (size XL)

Size XL with additional symbol to help with positioning of the tapered cuff

Easy to apply thanks to a Velcro closure and additional safety band

Active prevention of a chain of MRSA microbe transmission in the hospital

Reduces your investment budget and optimizes your process costs

Can be applied quickly for emergency patients

Sterile packaging – no risk of cross-contamination

ulrich medical® disposable cuffs with color-coding at a glance

Description	Connector	Size (L × W)	Product No.
Disposable cuff S	Standard	495 × 85 mm	UT 1330-S
Disposable cuff S	Green	495 × 85 mm	UT 1331-S
Disposable cuff S	Orange	495 × 85 mm	UT 1332-S
Disposable cuff M	Standard	600 × 100 mm	UT 1330-M
Disposable cuff M	Green	600 × 100 mm	UT 1331-M
Disposable cuff M	Orange	600 × 100 mm	UT 1332-M
Disposable cuff L	Standard	710 × 120 mm	UT 1330-L
Disposable cuff L	Orange	710 × 120 mm	UT 1332-L
Disposable cuff XL, tapered	Standard	950 × 100 mm	UT 1330-XL
Disposable cuff XL, tapered	Orange	950 × 100 mm	UT 1332-XL
ulrich medical® measuring tape in sizes 2XS to 3XL	-	-	UT 1315

Green connector: Use on the upper extremities

Orange connector: Use on the lower extremities

Standard connector: Connection of the cuffs to third-party devices*

M

XL

Convenient high-performance quality

ulrich medical® multi-use cuffs



Tourniquets * See page 31

Conformance of ulrich medical® cuffs



All ulrich medical® cuffs are tested for biological skin tolerance and safety according to current standard DIN EN ISO 10993. They offer the highest possible degree of protection from possible biological risks during use.

In accordance with standard EN ISO 17664, we provide users with information on reprocessing our medical device. This guarantees safe multiple use of the cuffs with simultaneous maximum patient protection.





ulrich medical® multi-use cuffs

with color-coding at a glance

Designation	Connector	Connections	Size (L × W)	Product No.
Cuff 2XS	Green	Single port	250 mm × 55 mm	UT 1314-2XS
Cuff 2XS	Orange	Single port	250 mm × 55 mm	UT 1317-2XS
Cuff 2XS	Standard	Single port	250 mm × 55 mm	UT 1321-2XS
Cuff 2XS	Standard	Dual port	250 mm × 55 mm	UT 1322-2XS
Cuff XS	Green	Single port	290 mm × 70 mm	UT 1314-XS
Cuff XS	Orange	Single port	290 mm × 70 mm	UT 1317-XS
Cuff XS	Standard	Single port	290 mm × 70 mm	UT 1321-XS
Cuff XS	Standard	Dual port	290 mm × 70 mm	UT 1322-XS
Cuff S	Green	Single port	495 mm × 85 mm	UT 1314-S
Cuff S	Orange	Single port	495 mm × 85 mm	UT 1317-S
Cuff S	Standard	Single port	495 mm × 85 mm	UT 1321-S
Cuff S	Standard	Dual port	495 mm × 85 mm	UT 1322-S
Cuff IVRA-I	Green	Single port	500 mm × 150 mm	UT 1314-IVRA-I
Cuff IVRA-I	Orange	Single port	500 mm × 150 mm	UT 1317-IVRA-I
Cuff IVRA-I	Standard	Single port	500 mm × 150 mm	UT 1321-IVRA-I
Cuff IVRA-I	Standard	Dual port	500 mm × 150 mm	UT 1322-IVRA-I
Cuff M	Green	Single port	600 mm × 100 mm	UT 1314-M
Cuff M	Orange	Single port	600 mm × 100 mm	UT 1317-M
Cuff M	Standard	Single port	600 mm × 100 mm	UT 1321-M
Cuff M	Standard	Dual port	600 mm × 100 mm	UT 1322-M
Cuff L	Orange	Single port	710 mm × 120 mm	UT 1317-L
Cuff L	Standard	Single port	710 mm × 120 mm	UT 1321-L
Cuff L	Standard	Dual port	710 mm × 120 mm	UT 1322-L
Cuff XL	Orange	Single port	950 mm × 150 mm	UT 1317-XL
Cuff XL	Standard	Single port	950 mm × 150 mm	UT 1321-XL
Cuff XL	Standard	Dual port	950 mm × 150 mm	UT 1322-XL
Cuff 2XL	Orange	Single port	1,090 mm × 100 mm	UT 1317-2XL
Cuff 2XL	Standard	Single port	1,090 mm × 100 mm	UT 1321-2XL
Cuff 2XL	Standard	Dual port	1,090 mm × 100 mm	UT 1322-2XL
Cuff 3XL	Orange	Single port	1,310 mm × 120 mm	UT 1317-3XL
Cuff 3XL	Standard	Single port	1,310 mm × 120 mm	UT 1321-3XL
Cuff 3XL	Standard	Dual port	1,310 mm × 120 mm	UT 1322-3XL
ulrich medical® measur	ring tape in sizes 2XS to 3XL			UT 1315
Cleaning comb for Vel	cro fasteners			UT 1351

Tubing and adapter

for ulrich medical® tourniquet cuffs

Connection tubings

Device – cuff

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	Product No.	Connection hose	Connector	assuar	nurek	balbin	elsa™	heidi™	sophie	Third-p device	Length
	UT 1274-300	For single-port cuffs	Green	\checkmark	√						3 m
zable	UT 1274-500	For single-port cuffs	Green	\checkmark	\checkmark						5 m
Sterilizable	UT 1277-300	For single-port cuffs	Orange	\checkmark	√	√	√	√	√		3 m
	UT 1277-500	For single-port cuffs	Orange	\checkmark	\checkmark	√	\checkmark	\checkmark	√		5 m
	UT 1321-300	For single-port cuffs	Standard							\checkmark	3 m
able	UT 1321-500	For single-port cuffs	Standard							\checkmark	5 m
Jnsterilizable	UT 1322-300	For dual-port cuffs	Standard							\checkmark	3 m
Unst	UT 1322-500	For dual-port cuffs	Standard							√	5 m
	UT 1278-500	For IVRA	Orange					√	√		5 m

Connection hoses

for central gas supply (CGS)

			9	assuan™	<u>¥</u> کا	balbina™	sophie™	
Product No.	Description	Model		assı	nurek™	balk	sop	Length
UT 1270-080	Pressure connection for CGS	Neutral color		√	✓	√		0.8 m
UT 1270-150	Pressure connection for CGS	Neutral color		√	✓	\checkmark		1.5 m
UT 1270-300	Pressure connection for CGS	Neutral color		√	√	√		3 m
UT 1270-500	Pressure connection for CGS	Neutral color		√	\checkmark	\checkmark		5 m
UT 1271-300	Pressure connection for CGS	ISO 32		√	√	\checkmark		3 m
UT 1271-500	Pressure connection for CGS	ISO 32		√	✓	\checkmark		5 m
UT 1272-150	CGS-NIST tubing	Neutral color					√	1.5 m
UT 1272-300	CGS-NIST tubing	Neutral color					√	3 m
UT 1273-150	CGS-NIST tubing	ISO 32					√	1.5 m
UT 1273-300	CGS-NIST tubing	ISO 32					√	3 m

Adapter for ulrich medical® cuffs

on third-party devices*			For third-party devices with:			
Figure	Product No.	Description	screw thread	standard connector		
	UT 1186	Screw thread (male) – plug-in coupling, orange (female)	√			
	UT 1188	Standard connector (male) – plug-in coupling, orange (female)		√		

Adapter for ulrich medical® tourniquets For ulrich medical® tourniquets: balbina™ to serial no. 0.221996 Figure Product No. Description Luer lock (female) – UT 1182 plug-in coupling, green (female) Luer lock (female) – UT 1183 plug-in coupling, orange (female) Orange connector (male) – UT 1184 plug-in coupling, green (female)

Adapters for third-party cuffs on ulrich medical® tourniquets		For third-party cuffs with:				
Figure	Product No.	Description	Female Luer lock	screw thread	standard connector	
	UT 1180	Green connector (male) – Luer-lock (male)	√			
	UT 1181	Orange connector (male) – Luer-lock (male)	√			
	UT 1185	Orange connector (male) – screw thread (female)		√		
	UT 1187	Orange connector (male) – standard connector (female)			✓	

Mobile stands

for ulrich medical® tourniquets

UT 1380-E (elsa[™]), UT 1380-H (heidi[™]) UT 1380-S (sophie[™])

Includes: Convenient basket for storing cuffs and

accessories (tubing, cable)

Dimensions: Height with device: 1,115 mm

Diameter of device base: 420 mm $420 \times 420 \times 1,115$ mm

 $(W \times D \times H; height incl. device)$

Weight: 10.4 kg





UT 1220-00 (assuan™), UT 1215-00 (nurek™)

Includes:

Stainless-steel wire basket and standard rail **For UT 1220-00:** including Schuko multiple socket outlets device with switch and grounding pin

Dimensions:

 $560 \times 520 \times 870 \text{ mm} (W \times D \times H)$

Weight:

approx. 10 kg

Replacement parts:

- UT 1221-40 stainless steel wire basket
- UT 1221-22 including Schuko multiple socket outlets device with switch and grounding pin

UT 1133-00 (balbina™)

Includes: Standard rail

Optional: UT 1364 stainless steel wire basket

Dimensions: $600 \times 600 \times 850 \text{ mm} \text{ (W} \times D \times H)$

Weight: approx. 4 kg



Protocol printer

elsa™, heidi™ und sophie™



UT 1380-EP (elsa[™]), UT 1380-HP (heidi[™]) UT 1380-SP (sophie[™])

Functions:

- Automatic recording of all relevant data from a tourniquet application
- Plug & play documentation
- Simple procedure for opening the protocol printer
- High-speed printing (up to 50 mm/s)
- LED pilot lamp display
- With "Form Feed" button (paper output)

Accessories:

Printer paper UT 1381-01 (paper width 58 mm)

The protocol printer can also be retrofitted at a later point in time (UT 1381).

Contact your medical device consultant.

Adjustable mounting block

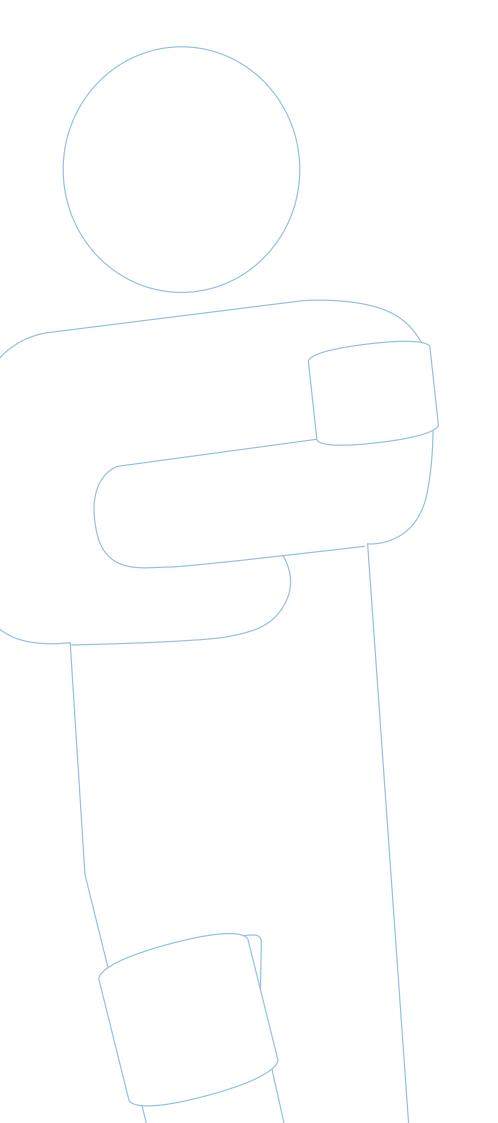
for standard rail



UT 1383 (elsa™, heidi™, sophie™)

Functions:

- For mounting elsa[™], heidi[™], sophie[™] on horizontal standard rails in the OR
- Allows position adjustment in 7 different levels



Sustaining member of the Deutsche Gesellschaft für Krankenhaushygiene e.V. (German Society for Hospital Hygiene)

patented or/and pat. pend.

