ATMOS
MedizinTechnik



ATMOS Tourniquets

Maximum reliability for maximum safety in the operating theatre

Exactly what I need

TOURNIQUETS

Peace of mind in the operating theatre.

The tourniquets from ATMOS allow for a virtually bloodless surgical field – an essential prerequisite for precise procedures on the extremities and a smooth workflow in the operating theatre.
The intuitive operating logic of ATMOS Tourniquets is designed to meet the high demands of daily clinical routine, ensuring easy handling combined with maximum functionality. A comprehensive safety concept provides reliable protection for both patients and clinical staff.
ATMOS Tourniquets are complemented by a versatile range of disposable and reusable cuffs as well as matching accessories – delivering a well-conceived, complete solution for modern operating theatre environments.



Customer-focused

THANKS TO THREE DEVICE VARIANTS AND FLEXIBLE INSTALLATION OPTIONS
- Configurable for unilateral or bilateral use
- Battery or mains operation with integrated compressor or CGS connection
- Easy installation on a mobile stand, surgical tower, or standard rail

Fewer user errors

THANKS TO A USER-FRIENDLY OPERATING CONCEPT
- Intuitive user guidance with clear displays
- Language-independent symbols and visual feedback
- Safe application in just two clicks

Flexible use

THANKS TO AN EXTENSIVE RANGE OF ACCESSORIES
- Connection hoses in various lengths and versions
- Sterile disposable and reprocessable reusable cuffs in several sizes
- Accessories compatible with ATMOS Tourniquets and third-party devices

Maximum reliability

THANKS TO INTELLIGENT SAFETY FEATURES
- Automatic self-test and leakage detection
- Precise pressure regulation in the event of deviations
- Visual and audible safety messages for safe operation

Designed, developed and **made in Germany**

Areas of application:

- **Operating theatre / anaesthesiology**
- **Outpatient surgery centre**
- **Hospital / clinic**
- **Orthopaedics**

ATMOS Tourniquets – User Concept

Handling? Self-explanatory.

In addition to communication and system-related errors, current studies identify user errors as one of the three most common causes of adverse events in hospitals. For this reason, simple and safe handling of tourniquet systems is essential.
ATMOS Tourniquets have been specifically developed for daily clinical routine, featuring clear user guidance, self-explanatory operation, and automated processes. This allows procedures to be prepared and performed efficiently – even in time-critical situations. The well-conceived design supports safe workflows and actively contributes to patient safety. ATMOS Tourniquets are therefore a reliable partner in the operating theatre – intuitive, safe, and designed for real-world clinical practice.

COMFORT THAT THINKS AHEAD
Thanks to intuitive user guidance, clear displays, and language-independent symbols, device operation is particularly straightforward. Functions such as the automatic timer start or the optional protocol printer (UT 1381) are well thought-out and support day-to-day work efficiently.



INTUITIVE DOWN TO THE LAST DETAIL
The tourniquets are operated via a modern, language-independent touch display with clearly understandable symbols. Individually savable pressure and time presets make it easy to start the tourniquets quickly and safely.



info

Scan the QR code to learn more about the ATMOS Tourniquets in the explanatory video.

Fewer user errors



ATMOS Tourniquets – Safety Concept

Safety features? An abundance.

Reliability and safety are indispensable when it comes to tourniquets – particularly in the dynamic environment of the operating theatre. ATMOS Tourniquets are equipped with comprehensive safety features that ensure stable and controlled operation at all times. Intelligent monitoring mechanisms, safety messages, and automatic pressure regulation provide maximum operational safety. This keeps the focus on the patient while the tourniquet works reliably in the background. A reassuring sense of safety – during every procedure.



Maximum reliability

ATMOS Tourniquets stand for a reliable and carefully designed safety concept that covers every phase of application.

Before application on the patient
Immediately after the device is switched on, an automatic self-test ensures that it is fully functional. This allows clinical staff to concentrate entirely on the surgical procedure.

During application
The well-thought-out safety concept of ATMOS Tourniquets ensures a smooth workflow not only beforehand, but also during the application.

Leakages are detected and regulated automatically without any intervention from the user. Precise pressure control in the event of under- or overpressure maintains a stable cuff pressure – for reliable and safe occlusion of blood flow.

Should the power supply to the device be interrupted, cuff pressure – and thus the occlusion of blood flow – is maintained. For devices with an integrated battery, the procedure can be continued. The battery runtime of up to four hours enables safe operation – even in the event of a power failure.

In addition, the device provides specific and reliable information if safety-relevant events occur, such as a low battery (W 360) or technical irregularities. These safety messages are intentionally issued only when truly necessary, ensuring users are not burdened with unnecessary notifications.



After application
Cuff pressure remains constant until the user actively confirms pressure release. Thanks to the smooth, hygienic surface, the device can be prepared for its next use with simple wipe disinfection.

ATMOS Tourniquets – Configuration Options

The right solution for every environment.

Every operating theatre is different. That is why ATMOS offers three different device variants, each aligned with clinical requirements: with an integrated compressor or a CGS connection, for battery or mains operation, or for unilateral or bilateral use. There is a suitable solution for every operating theatre setting. In addition, various installation options are available: secured on a mobile stand, integrated into a surgical tower, or mounted on a space-saving standard rail. This allows the device to be adapted ergonomically and functionally to every working environment without the need for compromises.

MOBILE STAND (UT 1382)
The specially developed mobile stand allows for flexible use of ATMOS Tourniquets exactly where they are needed. An integrated, convenient storage basket provides ample space for cuffs, hoses, and cables, ensuring all accessories are always neatly organised and within easy reach.

Technical specifications:
Total height with device: 1160 mm
Device operating height: approx. 1100 mm
Device base diameter: approx. 533 mm
Weight: 10.4 kg

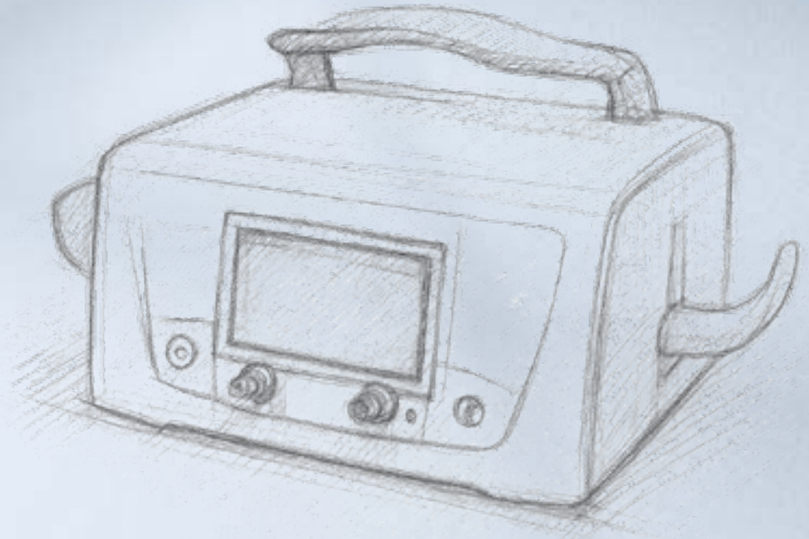


STANDARD RAIL BRACKET FOR TOURNIQUETS (UT 1383)
The standard rail bracket for *elsa*, *heidi*, and *sophie* enables secure mounting of the devices on horizontal standard rails in the operating theatre. It allows adjustment to seven different positions – for optimum inclination of the device in daily clinical routine.



SURGICAL TOWER / STATIONARY DEVICE
Thanks to their compact design, ATMOS Tourniquets can be easily installed in a surgical tower or used as a stationary device. The space-saving construction allows seamless integration into existing operating theatre environments – without compromising ease of operation or functionality.

Customer-oriented



THE SIMPLE ONE

Ideally suited for procedures on a single extremity.



elsa™
mein Tourniquet

One cuff connection

Battery and mains operation

Compressor

THE VERSATILE ONE

Maximum freedom in use.



heidi™
mein Tourniquet

Two cuff connections

Battery and mains operation

Compressor

THE QUIET ONE

The perfect companion for hospital use.



sophie™
mein Tourniquet

Two cuff connections

Mains operation

CGS connection

ATMOS Tourniquets – Connection Hoses

Variety of hoses? Absolutely.

ATMOS Connection Hoses are available in various versions and can be combined flexibly with the tourniquets and cuffs. They are offered in lengths of 3 m and 5 m – either as sterilisable or nonsterilisable versions. Depending on the tourniquet and cuff used, you can choose between a standard connector and an orange connector.

Flexible use

TWO DIFFERENT CONNECTORS
The orange connector is specifically intended for tourniquets and cuffs from ATMOS. The standard connector is designed for use with other commercially available tourniquets and cuffs.



Black polyurethane hose	UT 1276-300/-500; UT 1321-300/-500
White silicone hose	UT 1187-500; UT 1188-500; UT 1277-300/-500



	Image of device side	Image of cuff side	Article number	Length	Hose colour	ATMOS Tourniquets *elsa*, *heidi*, *sophie*	Third-party devices	Cuff with orange or standard connector
Sterilisable			UT 1188-500	5 m	White	–	✓	Orange connector
Sterilisable			UT 1277-300	3 m	White	✓	–	Orange connector
Sterilisable			UT 1277-500	5 m	White	✓	–	Orange connector
Nonsterilisable			UT 1276-300	3 m	Black	✓	–	Orange connector
Nonsterilisable			UT 1276-500	5 m	Black	✓	–	Orange connector
Nonsterilisable			UT 1321-300	3 m	Black	–	✓	Standard connector
Nonsterilisable			UT 1321-500	5 m	Black	–	✓	Standard connector
Nonsterilisable			UT 1187-500	5 m	White	✓	–	Standard connector

STERILE

ATMOS Disposable Cuffs

Hygienically safe. Process-optimised.

The disposable cuffs from ATMOS fit perfectly into any infection-control concept. As consumables, they offer a high level of hygienic safety and reliability, whatever the hospital and operating theatre workflows. Their use makes work easier for clinical staff and provides additional flexibility in day-to-day routine. Thanks to the wide selection of cuffs in sizes 2XS to 2XL (parallel shape) and XL (conical shape), the right cuff is available for every patient.



ATMOS DISPOSABLE CUFFS WITH COLOUR CODING

Colour code	Size	Length in mm*	Width in mm*	Article number Orange connector	Article number Standard connector
	2XS	250	70	UT 1332-2XS	UT 1330-2XS
	XS	300	90	UT 1332-XS	UT 1330-XS
	S	495	100	UT 1332-S	UT 1330-S
	M	600	100	UT 1332-M	UT 1330-M
	L	760	100	UT 1332-L	UT 1330-L
	XL (conical)	860	100	UT 1332-XL	UT 1330-XL
	XL (parallel)	860	100	UT 1332-XL-P	UT 1330-XL-P
	2XL	1070	100	UT 1332-2XL	UT 1330-2XL

Packaging unit: 10 pcs.

ATMOS Reusable Cuffs

Comfort? Gentle on patients.

The reusable cuffs from ATMOS are made of premium, comfortable high-tech synthetic fibres and can be reprocessed – for safe and repeated use. Thanks to the elastic material, they fit perfectly and are extremely comfortable to wear, especially during longer procedures. The cuffs can be disassembled into their component parts, enabling a long service life and high cost-effectiveness with up to 50 reprocessing cycles. Available in sizes 2XS to 3XL, ATMOS Reusable Cuffs are reliable partners for excellent performance in use.

ATMOS REUSABLE CUFFS WITH COLOUR CODING

Colour code	Size	Length in mm*	Width in mm*	Article number Orange connector	Article number Standard connector
	2XS	250	55	UT 1317-2XS	UT 1321-2XS
	XS	290	70	UT 1317-XS	UT 1321-XS
	S	495	85	UT 1317-S	UT 1321-S
	M	600	100	UT 1317-M	UT 1321-M
	L	710	120	UT 1317-L	UT 1321-L
	XL	950	150	UT 1317-XL	UT 1321-XL
	2XL	1090	100	UT 1317-2XL	UT 1321-2XL
	3XL	1310	120	UT 1317-3XL	UT 1321-3XL

Packaging unit: 1 pc.

50 REPROCESSING CYCLES



HOOK-AND-LOOP CLEANING COMB (300.001)
For quick and easy cleaning – for a consistently secure cuff hold.



CUFF SIZE TAPE (UT 1315)
Special size tape for precise determination of the ideal cuff size; usable for disposable and reusable cuffs.



*Length measured from outer edge to outer edge of the cuff

Orange connector: for *elsa, heidi, sophie*

Standard connector: connection of cuffs to third-party devices

ATMOS Tourniquets – Overview

The devices at a glance.

	 ***elsa***	 ***heidi***	 ***sophie***
Article number without protocol printer	UT 1380-E	UT 1380-H	UT 1380-S
Article number with protocol printer	UT 1380-EP	UT 1380-HP	UT 1380-SP
Number of cuff connections	1	2	2
Compatibility with ATMOS accessories	✓	✓	✓
Integrated battery with a runtime of up to 4 hours	✓	✓	–
Integrated compressor	✓	✓	–
Connection for central gas supply	–	–	✓
Integrated cable and hose holder	✓	✓	✓
Intravenous regional anaesthesia (IVRA)	–	✓	✓
ATMOS software platform for standardised operation	✓	✓	✓
ATMOS safety concept (see page 7)	✓	✓	✓
Power connection	100–240 VAC 50/60 Hz	100–240 VAC 50/60 Hz	100–240 VAC 50/60 Hz
Risk class according to MDR 2017/745	IIa	IIa	IIa
Compressed-air supply	Integrated compressor	Integrated compressor	4–6 bar Central gas supply
Cuff pressure	Arm and leg, 30–600 mmHg	Arm and leg, 30–600 mmHg	Arm and leg, 30–600 mmHg
Accuracy	± 10 mmHg	± 10 mmHg	± 10 mmHg
Microprocessor	Yes	Yes	Yes
Dimensions (W x H x D)	300 x 180 x 160 mm (without cable holder and printer)	300 x 180 x 160 mm (without cable holder and printer)	300 x 180 x 160 mm (without cable holder and printer)
Weight	4.7 kg	5.0 kg	3.8 kg
Sound level	max. 57 dB(A)	max. 57 dB(A)	–

CONNECTION HOSES FOR THE CENTRAL GAS SUPPLY (CGS)
SPECIFICALLY FOR THE ATMOS TOURNIQUET VARIANT ***sophie***



Article number	Description	Version	Length
UT 1272-150	NIST-hose for central gas supply	Colour-neutral	1.5 m
UT 1272-300	NIST-hose for central gas supply	Colour-neutral	3 m
UT 1273-150	NIST-hose for central gas supply	ISO 32	1.5 m
UT 1273-150-01	NIST-hose for central gas supply, angled	ISO 32	1.5 m
UT 1273-150-02	NIST-hose for central gas supply, angled	Colour-neutral	1.5 m
UT 1273-300	NIST-hose for central gas supply	ISO 32	3 m
UT 1273-300-01	NIST-hose for central gas supply, angled	ISO 32	3 m
UT 1273-300-02	NIST-hose for central gas supply, angled	Colour-neutral	3 m
UT 1273-500-01	NIST-hose for central gas supply, angled	ISO 32	5 m

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