## **Bloedleegte & Tourniquets**



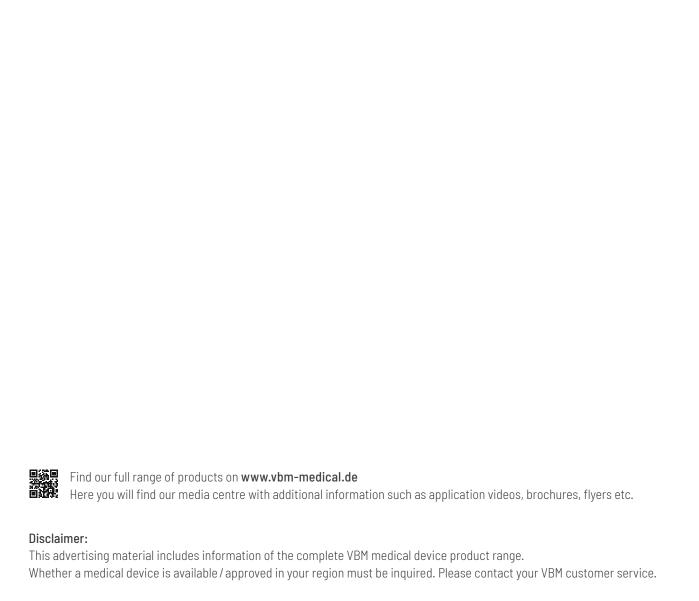




# **Tourniquet Systems**



Electric Tourniquets / Compressed Air Tourniquet / Manual Tourniquet Tourniquet Cuffs / Tourniquet Consumables / Pressure Infusion



The medical devices in this catalogue are manufactured without the use of natural rubber latex, unless otherwise specified. The medical devices in this catalogue do not contain phthalates which require labelling according to CLP Regulation (EC) 1272/2008.

Electric Tourniquets Tourniquet Touch TT20 Page 4 - 6 Tourniquet Touch TT15 Mobile Stand and Basket Compressed Air Tourniquet Tourniquet 2500 Page 7 Manual Tourniquet Manual Tourniquet Page 8 Tourniquet Cuffs Tourniquet Dispo Cuff Page 9 - 11 Tourniquet Wipe Cuff Tourniquet Silicone Cuff Tourniquet Consumables Measuring Tape Page 12 - 13 Tourniquet Sleeve Tourniquet Drape Cuff Cover Esmarch Bandages Roll-On Cuff Accessories for Roll-On Cuff Pressure Infusion Classic Infusor Page 14-17

Clear Infusor Dispo Infusor

Accessories for Pressure Infusion Cuffs

# Tourniquet Touch TT20 / TT15 For safe regulation of blood flow occlusion during extremity surgery

The Tourniquet Touch is an electrically operated surgical tourniquet. It regulates the pressure of a tourniquet cuff which temporarily occludes the blood flow of a patient's upper or lower extremity in order to obtain a bloodless field. User friendly innovations such as fast choice buttons and the specific alarm system simplify the use of the device and ensure patient safety. The system interface is reliable and intuitive and allows easy maintenance for the biomedical engineer (calibration, self test, leak test).

#### Tourniquet Touch TT20 with Two Cuff Channels

For use with single cuff, two single cuffs or double cuff.

#### Tourniquet Touch TT15 with Cuff Channel and Irrigation Channel

For use with single cuff and pressure infusion cuff.



#### ☆ Selecteer je product

Specifications

#### Display

- 8 inch (800 x 480 pixel)
- Wide viewing angle (170°)
- Low reflection, mat, anti-glare

#### **Battery**

- Lithium ion (14.4 V 93.6 Wh)
- Approx. 8 h backup runtime

#### **USB-Port**

- Software updates
- Saving log file for device analysis

#### **Touch Screen**

- 100% premium glass
- Easy cleaning and disinfection
- Usable with surgical gloves

#### **Cuff Channel**

- Pressure range: 80 500 mmHg
- Alarm time: 15 120 minutes

#### Housing

- With integrated handle
- Very robust material
- Easy cleaning and disinfection

#### Settings

- Defaults allow personalised presetting of time and pressure
- Easy maintenance (calibration, self test, leak test)

#### Irrigation Channel (TT15)

- Pressure range: 50 - 300 mmHg

#### Features

#### Fast Choice Buttons

- Allow to change pressure and time of preset values with only two touches
- No need to tap arrows and confirmation buttons
- Facilitate immediate pressure changes during surgical procedures





#### Timer Alarm

- Precise time monitoring during the procedure
- User is warned after reaching the set alarm time
- Extension of alarm time by 10, 20 or 30 minutes



#### TT20

#### Intravenous Regional Anaesthesia (IVRA)

 Safety lockout to reduce the risk of accidental cuff deflation and to prevent a sudden loss of IVRA



#### TT15

#### **Connection Irrigation Channel**

- Irrigation port with dedicated connector for pressure infusion cuff to avoid misconnection of tourniquet cuffs
- Pressure is monitored and adjusted constantly to compensate loss of pressure caused by emptying of the fluid bag



Order information

**Tourniquet TT20** / With 3.0 m Coil Connecting Tubing (blue and red), 100 – 240 VAC, height 186 mm, width 263 mm, depth 226 mm, 4.5 kg

REF Box 01-20-000 1 **Tourniquet TT15** / With 3.0 m Coil Connecting Tubing (blue and black), 100 – 240 VAC, height 186 mm, width 263 mm, depth 226 mm, 4.5 kg

REF	Box
N1_15_NNN	1

### Mobile Stand and Basket

Features



#### Handle

- For easy manoeuvring

#### Cable Hanger

- For placement of cable during transport

#### **Tubing Hanger**

- For placement of connecting tubing during transport

#### **Basket**

- Large storage capacity
- Possibility to attach a second basket

#### **Cable Conduit**

 Inside the column of the stand for strain-relief and proper conduit of the cable

Order information

Mobile Stand with Basket / 4 castors with castor lock (2 include ESD), height 939 mm, width 400 mm, depth 400 mm, 8.2 kg

REF	Box
01-00-100	1

**Basket /** Basket of 2 kg load capacity, height 185 mm, width 377 mm, depth 196 mm, 0.73 kg

REF	Box
01-00-110	1

### / Connecting Tubing





Order information

#### Coil Connecting Tubing /

Colour	Device	Stretched Length 3.0 m	Stretched Length 6.0 m	Box
Red	TT20	REF 20-20-742	REF 01-00-520	1
Blue	TT20 / TT15	REF 20-20-744	REF 01-00-510	1
Black	TT15	REF 20-20-740	REF 01-00-530	1

Smooth Connecting Tubing /

Colour	Device	Length 4.5 m	Box
Red	TT20	REF 20-20-942	1
Blue	TT20 / TT15	REF 20-20-944	1

Additional information



Application video

### Tourniquet 2500

For safe regulation of blood flow occlusion during extremity surgery

The Tourniquet 2500 is a compressed air operated surgical tourniquet. It regulates the pressure of a tourniquet single cuff which temporarily occludes the blood flow of a patient's upper or lower extremity in order to obtain a bloodless field.

Features

#### Pressure Regulator

- Pneumatic precision pressure regulator
- Fast cuff inflation and deflation
- Pressure range 0 600 mmHg

#### **Analogue Manometer**

- No flickering during pressure settings
- Always shows the real pressure in the cuff
- Precision manometer

#### Manual Back-Up System

- Automatic change to manual system during failure of compressed air, no battery needed
- Maintenance free
- Independent from any power source

#### **Coil Connecting Tubing**

- Firmly connected to the device
- Stretched length 3.0 m

#### Timer

- Countdown function with audible signal
- Timer function

#### Flush Button

- To check for bleeding
- Allows deflation in manual mode



Tourniquet 2500 on mobile stand with basket.

Order information

**Tourniquet 2500 /** Table unit with carrying handle and pressure connection **RECTUS** (with 4.0 m pressure hose)

REF Box 15-12-500 1

Tourniquet 2500 / Table unit with carrying handle and pressure connection NIST (without pressure hose)

REF	Box
15-12-500NIST	1

**Mobile Stand with Basket /** 2 castors with castor lock and ESD

REF	Box
10-22-555	1



### / Manual Tourniquet

The manual tourniquet is a manually operated tourniquet. They regulate the pressure of a tourniquet cuff which temporarily occludes the blood flow of a patient's upper or lower extremity in order to create a bloodless field.

Manual Tourniquet

Hand inflator with manometer for the autonomous use without electricity and without central air



Order information

Manual Tourniquet / Hand inflator with manometer, pressure range max. 600 mmHg

With Blue Coil Connecting Tubing and Positive Locking Connector	With Red Coil Connecting Tubing and Positive Locking Connector	Box
REF 20-18-601	REF 20-18-602	1

### **Tourniquet Dispo Cuff**

Tourniquet cuff, for single use







Features

Tourniquet Dispo Cuff is a sterile, single use tourniquet cuff especially suitable for contaminated procedures, preventing against HAI (Hospital-acquired infection). Dispo Cuff is available in straight shape (for small or midsize upper extremity) and contour shape (mainly for lower conical shaped extremity) and is provided in different sizes, which are colour coded for optimal cuff selection.

#### Cuff-Design

- Low profile design and lightweight
- Large hook and loop fastener for reliable cuff fixation
- Colour coding makes size selection and ordering easier
- Tubing made of kink-resistant silicone material
- Contour and straight shape
- PVC-free

#### **Packaging**

- Packed in dispenser box (4)
- Easy storage due to low profile packaging

#### Straight Shape

- Cylindrical design
- Does not show any difference in diameter between proximal and distal part

#### Contour Shape

- Conical design with a smaller diameter distally than proximally when applied
- Occludes the blood flow at lower cuff pressures due to an improved fit to the extremity
- Integrated stiffener to prevent cuff migration

#### Connection

- Single cuff and double cuff with single port (1+2)
- Single cuff with dual port for use with tourniquet systems with dual port connection (3)

#### Double Cuff for Intravenous Regional Anaesthesia (IVRA)

- Double cuff with 2 individually inflatable bladders (2)

Order information

Tourniquet Dispo Cuff / Single cuff, for single use, sterile

Length	Width	Colour	Single Port	Dual Port	Box
20 cm	5 cm	-	REF 20-34-700SLZ-1	REF 20-36-700SLZ-1	10
30 cm	6 cm		REF 20-34-710SLZ-1	REF 20-36-710SLZ-1	10
35 cm	8 cm		REF 20-34-711SLZ-1	REF 20-36-711SLZ-1	10
46 cm	10 cm		REF 20-34-712SLZ-1	REF 20-36-712SLZ-1	10
46 cm	12 cm		REF 20-34-715SLZ-1*	REF 20-36-715SLZ-1*	10
61 cm	12 cm		REF 20-34-722SLZ-1*	REF 20-36-722SLZ-1*	10
76 cm	12 cm		REF 20-34-727SLZ-1*	REF 20-36-727SLZ-1*	10
86 cm	12 cm		REF 20-34-728SLZ-1*	REF 20-36-728SLZ-1*	10
107 cm	12 cm		REF 20-34-729SLZ-1*	REF 20-36-729SLZ-1*	10

Tourniquet Dispo Cuff / Double cuff, for single use, sterile

Length	Width	Colour	REF	Box
30 cm	12 cm		20-30-710SLZ-1	10
46 cm	15 cm		20-30-712SLZ-1	10
61 cm	15 cm		20-30-722SLZ-1	10

\*Contour shape

Extension Tubing / For single use, sterile

Length	REF	Вох
100 cm	20-39-100-1	5

Additional information





Application leg

### Tourniquet Wipe Cuff

Tourniquet cuff, reusable through manual wipe disinfection





Features

Tourniquet Wipe Cuff is a reusable tourniquet cuff made of durable material, suitable for repeated use after wipe disinfection. Wipe Cuff is available in straight shape (for small or midsize upper extremity) and contour shape (mainly for lower conical shaped extremity) and is provided in different sizes, which are colour coded for optimal cuff selection.

#### **Cuff-Design**

- Low profile design and lightweight
- Large hook and loop fastener for reliable cuff fixation
- Colour coding makes size selection and ordering easier
- Tubing made of kink-resistant silicone material
- Contour and straight shape
- PVC-free

#### **Special Features**

- Specific inner material dries quickly after wipe disinfection and allows timely reuse of the product
- UDI-Code for product traceability
- Serial number for tracking of product usage
- Processable up to 100 times (wipe disinfection)

#### Straight Shape

- Cylindrical design
- Does not show any difference in diameter between proximal and distal part

#### Contour Shape

- Conical design with a smaller diameter distally than proximally when applied
- Occludes the blood flow at lower cuff pressures due to an improved fit to the extremity
- Integrated stiffener to prevent cuff migration

#### Double Cuff for Intravenous Regional Anaesthesia (IVRA)

- Double cuff with 2 individually inflatable bladders

Order information

Tourniquet Wipe Cuff / Single cuff, reusable

Length	Width	Colour	REF	Box
20 cm	5 cm		20-75-700	1
30 cm	6 cm		20-75-710	1
35 cm	8 cm		20-75-711	1
46 cm	10 cm		20-75-712	1
46 cm	12 cm		20-75-715*	1
61 cm	12 cm		20-75-722*	1
76 cm	12 cm		20-75-727*	1
86 cm	12 cm		20-75-728*	1
107 cm	12 cm		20-75-729*	1

Tourniquet Wipe Cuff / Double cuff, reusable

Length	Width	Colour	REF	Box
30 cm	12 cm		20-77-710	1
46 cm	15 cm		20-77-712	1
61 cm	15 cm		20-77-722	1

\*Contour shape

Additional information



Application arm



Application leg



Brochure

### / Tourniquet Silicone Cuff

Tourniquet cuff, reusable through automatic processing





Features

Tourniquet Silicone Cuff is top of the class when it comes to safe, reliable and economical solutions. The design and specifications allow the cuff to withstand all types of processing such as manual/wipe and automatic/ thermal cleaning and disinfection. Silicone Cuff has also been validated for sterilization by steam autoclave at a temperature of  $134^{\circ}\text{C}$  for 5 minutes.

#### Cuff-Design

- Silicone bladder, easy to wipe easy to dry
- Large hook and loop fastener for reliable cuff fixation
- Colour coding makes size selection and ordering easier
- Tubing made of kink-resistant silicone material
- Contour and straight shape
- PVC-free

#### Straight Shape

- Cylindrical design
- Does not show any difference in diameter between proximal and distal part

#### Contour Shape

- Conical design with a smaller diameter distally than proximally when applied
- Occludes the blood flow at lower cuff pressures due to an improved fit to the extremity
- Specific bladder design (wave pattern) to prevent cuff migration

#### Double Cuff for Intravenous Regional Anaesthesia (IVRA)

- Double cuff with 2 individually inflatable bladders

Order information

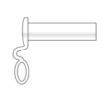
Tourniquet Silicone Cuff / Single cuff, reusable, autoclavable

Length	Width	Colour	REF	Box
20 cm	2.5 cm	-	20-64-700	1
30 cm	4 cm		20-64-710	1
35 cm	6cm		20-64-611	1
46 cm	7.5 cm		20-64-612	1
46 cm	11 cm		20-64-512*	1
61 cm	11 cm		20-64-522*	1
76 cm	11 cm		20-64-527*	1
86 cm	11 cm		20-64-528*	1

Tourniquet Silicone Cuff / Double cuff, reusable, autoclavable

Length	wiatn	Colour	KEF	BUX
35 cm	12 cm		20-60-711	1
46 cm	12 cm		20-60-712	1
61 cm	13.5 cm		20-60-722	1

\*Contour shape



**Sealing Cap /** For autoclavable tourniquet cuffs, reusable

REF	Вох
22-60-000	1

Additional information



Application arm

Application leg

Order

Order

information

information

# Measuring Tape For selection of VBM Tourniquet Cuffs

- Colour coded, for easy identification of cuff selection

Measuring Tape / For single use

REF	Box
20-95-222	50





### **Tourniquet Sleeve**

For patient protection

- Protects soft tissues underneath the cuff
- Reduces wrinkling, pinching and shearing of soft tissues

Tourniquet Sleeve / For single use

Extremity	Colour	Clean Packed	Sterile Packed	Box
≤20cm	$\circ$	REF 23-00-700	REF 23-00-700-1	10
≤30cm		REF 23-00-710	REF 23-00-710-1	10
≤35cm		REF 23-00-711	REF 23-00-711-1	10
≤46cm		REF 23-00-712	REF 23-00-712-1	10
≤61cm		REF 23-00-722	REF 23-00-722-1	10
≤76cm		REF 23-00-727	REF 23-00-727-1	10
≤86cm		REF 23-00-728	REF 23-00-728-1	10
≤107 cm		REF 23-00-729	REF 23-00-729-1	10





### / Tourniquet Drape

For patient protection

- Isolates the cuff from the sterile field
- Seals against fluid accumulation underneath the cuff to protect the patient from burns associated with skin preparation

Tourniquet Drape / For single use

Extremity	Clean Packed	Box	Sterile Packed	Box
≤45cm	REF 24-00-100	40	REF 24-00-100-1	10
35-76cm	REF 24-00-200	40	REF 24-00-200-1	10
61-107 cm	REF 24-00-300	40	REF 24-00-300-1	10





### **Cuff Cover**

For cuff protection

- Keeps the cuff free from soiling

Cuff Cover / For single use

Extremity	Clean Packed	Sterile Packed	Box
18-43 cm	REF 20-11-111	REF 20-11-111-1	50
40-61cm	REF 20-11-333	REF 20-11-333-1	50
58-81cm	REF 20-11-222	REF 20-11-222-1	50





Order information

Order

information

#### ⊱ Selecteer je product

### **/** Esmarch Bandages

For exsanguination

- Available in 4 sizes
- Made of synthetic rubber and powder-free (talcum-free) to avoid possible allergic reactions
- Textured surface for a good grip
- Elastic properties for easy wrapping
- Robust and tear resistant

Esmarch Bandage / For single use, sterile packed, colour: light blue

Width	Length	REF	Box
6 cm	365 cm	20-21-060-1	10
8 cm	365 cm	20-21-080-1	10
10 cm	365 cm	20-21-100-1	10
15 cm	365 cm	20-21-150-1	10

Esmarch Bandage / Reusable, autoclavable, colour: dark blue

Width	Length	REF	Box
6 cm	500 cm	20-20-060	5
8 cm	500 cm	20-20-080	5
10 cm	500 cm	20-20-100	5
15 cm	500 cm	20-20-150	5



### Roll-On Cuff

For exsanguination

- Allow fast and easy exsanguination within seconds
- Inflatable exsanguination system
- 100% silicone medical grade
- Quick and efficient procedure
- Full range of sizes available

Order Roll-On Cuff / Reusable information

Size	Extremity	Colour	REF	Box
2	26-33 cm		21-95-712	1
3	31 – 40 cm		21-95-719	1
4	38-49 cm		21-95-722	1
5	47-60 cm		21-95-727	1
6	58-70 cm		21-95-729	1
ь	58 - /U cm		21-95-729	<u> </u>





Accessories for Roll-On Cuff

Order

information

Order

information



Hand Inflator for Roll-On Cuff / Manometer 200 mmHg, connecting tubing 100 cm with positive locking connectors and inflation needle

REF	Box
21-95-300	1



Smooth Connecting Tubing / With positiv lock- Brake-Block / Reusable ing connectors and inflation needle, 100 cm

REF	Вох
21-95-302	1



Size	REF	Box
Small	21-95-200	1
Large	21-95-201	1



Measuring Tape for Roll-On Cuff / Colour coded, for easy identification of Roll-On Cuff

REF	Box
21-95-111	10

### Classic Infusor

Pressure infusion cuff, reusable



#### 500 ml and 1000 ml Version

With double hook, for fixation of different fluid bag configurations.

- Rapid administration of an infusion solution for compensation of fluid/ volume deficiency
- Pressure monitoring and irrigation of the tubing system during invasive, arterial blood pressure monitoring
- Transfusion

#### 3000 / 5000 ml Version

With zipper, allows insertion of different fluid bag configurations.

- Administration of large fluid volumes for irrigation of the operation field

The polyiamide material of the Classic Infusor enables easy cleaning & disinfection. Transparent netting for a clear view on the fluid bag and the fluid level. With UDI-Code for product traceability.



Features



#### Hand Inflator with Three-Way Stopcock

- Ergonomic hand inflator for inflation
- Three-way stopcock for quick deflation during change of the fluid bag



#### Manometer

- Pressure range from 0 300 mmHg in increments of 10 mmHg
- Robust and durable for accurate pressure monitoring



#### **Colour Coded Pressure Indicator**

- 360° pressure indicator facilitates pressure monitoring
- Pressure relief valve to prevent over inflation

Order information

#### Classic Infusor / Reusable

Version	500 ml	1000 ml	3000/5000 ml	Box
With hand inflator, three-way stopcock and colour coded pressure indicator	REF 58-02-050	REF 58-02-100	-	1
With hand inflator, three-way stopcock and manometer	REF 58-08-050	REF 58-08-100	REF 58-08-300	1
With Luer Lock connection only	-	-	REF 58-01-300	1

Additional information



Application video



Brochure



### / Clear Infusor

Pressure infusion cuff, reusable



#### 500 ml and 1000 ml Version

- Rapid administration of an infusion solution for compensation of fluid/ volume deficiency
- Pressure monitoring and irrigation of the tubing system during invasive, arterial blood pressure monitoring
- Transfusion

#### 3000 ml Version

- Administration of large fluid volumes for irrigation of the operation field

Wrap-around design allows fixation of most fluid bag configurations and even pressure distribution. The smooth surface of the PU material enables easy cleaning & disinfection. The transparent material offers a clear  $360^{\circ}$  view on the fluid bag and fluid level. With UDI-Code for product traceability.



Features



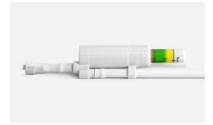
#### Hand Inflator with Three-Way Stopcock Ma

- Ergonomic hand inflator for inflation
- Three-way stopcock for quick deflation during change of the fluid bag



#### Manometer

- Pressure range from 0-300 mmHg in increments of 10 mmHg
- Robust and durable for accurate pressure monitoring



#### Colour Coded Pressure Indicator

- 360° pressure indicator facilitates pressure monitoring
- Pressure relief valve to prevent over inflation

Order information

#### Clear Infusor / Reusable

Version	500 ml	1000 ml	3000 ml	Box
With hand inflator, three-way stopcock and colour coded pressure indicator	REF 57-02-050	REF 57-02-100	-	1
With hand inflator, three-way stopcock and manometer	REF 57-08-050	REF 57-08-100	REF 57-08-300	1
With Luer Lock connection only	-	-	REF 57-01-300	1

Additional information





Application video Brochure



# **Dispo Infusor**Pressure infusion cuff, for single patient use



#### 500 ml and 1000 ml Version

With hook fastener, for adjustable fixation of different fluid bag configurations.

- Rapid administration of an infusion solution for compensation of fluid/ volume deficiency
- Pressure monitoring and irrigation of the tubing system during invasive, arterial blood pressure monitoring
- Transfusion

#### 3000 ml Version

With hook, for easy fixation of most fluid bag configurations.

- Administering large volumes of fluid for irrigation of the operation field

Transparent netting for a clear view on the fluid bag and the fluid level.



Features



#### Hand Inflator with Three-Way Stopcock

- Ergonomic hand inflator for inflation
- Three-way stopcock for quick deflation during change of the fluid bag



#### **Colour Coded Pressure Indicator**

- 360° pressure indicator facilitates pressure monitoring
- Pressure relief valve to prevent over inflation

Order information

Dispo Infusor / For single patient use

Version	500 ml	1000 ml	3000 ml	Box
With hand inflator, three-way stopcock and colour coded pressure indicator	REF 56-02-050	REF 56-02-100	REF 56-02-300	5
With Luer Lock connection only	-	-	REF 56-01-300	5

Additional information



Application video



Brochure

#### → Selecteer je product

Accessories for Pressure Infusion Cuffs

Hand Inflator / Reusable

With Three-Way Stopcock and Colour Coded Pressure Indicator	With Three- Way Stopcock	Box
REF 51-02-666	REF 51-03-666	1



**Manometer 300 mmHg /** Pressure proved, for fixation to Pressure Infusion Cuff, reusable

REF Box 20-17-301 1



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As turnkey supplier, VBM offers the whole range of accessories around Tourniquet



**One Stop Shopping** 



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