

# TOURNIQUETS AND CUFFS



Spengler

FRENCH MANUFACTURER  
SINCE 1907

## ORTHOPEDIC, TRAUMA



“

Guided by our expertise and historical knowledge, we select the best medical solutions in the surgery environment, diagnosis and medicine in general.

The range of **Hammarplast electronic tourniquets** are high-tech devices designed to create and maintain hemostasis in orthopedic and traumatic surgery.

Our mission is to develop, manufacture and sale innovative and efficient solutions for the field of health care and thereby contribute to the daily well-being of patients and practitioners.

”



Our tourniquet line consists of two models, single and double, of tourniquets for use in orthopedic surgery, hand surgery and plastic surgery.



- **800-20 single**  
- with NiMH battery back-up



- **800-40 double**  
- with NiMH battery back-up

*Delivered with spiral hose and power cord.*

## A technologically advanced product

- **Touch screen** no buttons
- **Intuitive user interface** easy to use
- **Modern design**
- **Printer** (option)
- **Computerized memory**
- **Self test** during start up
- **Small and light weight**
- **Easy to clean**
- **Possible to customize settings**
- **Simple maintenance**
- **Safety design:** According to the recent 3rd edition of IEC 60601-1

## Specification



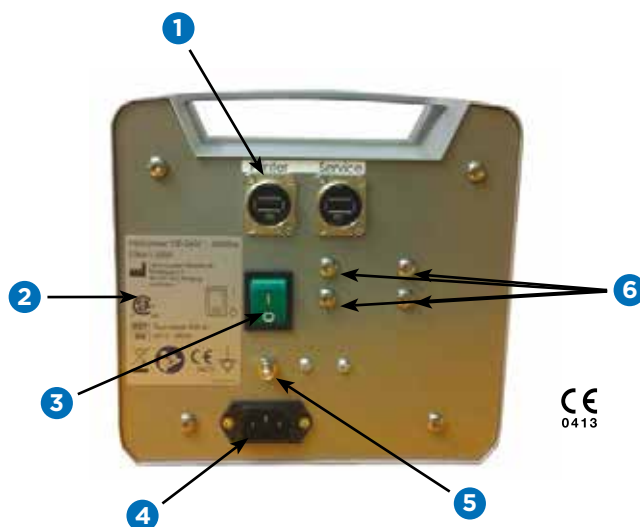
	<b>800-20</b>	<b>800-40</b>
<b>Dimensions (mm)</b>	195 x 200 x 145	195 x 200 x 145
<b>Class &amp; Type</b>	Class II, Type A	Class II, Type A
<b>Line power</b>	100-240 VAC	100-240 VAC
<b>Port/Cuff connector</b>	CPC	2 x CPC
<b>Cuff pressure</b>	50-550 mmHg	50-550 mmHg
<b>Regulation</b>	+/- 5 mmHg	+/- 5 mmHg
<b>Weight</b>	2,5 kg	2,5 kg
<b>Battery capacity safe mode</b>	9 hours	9 hours
<b>Battery capacity regulating</b>	4 hours	4 hours
<b>Inflate time</b>	5 seconds	5 seconds
<b>Printer interface</b>	USB	USB
<b>Product reference</b>	<b>552 880</b>	<b>552 881</b>

## Tourniquet front view



- 1** Volume icon. 1-5 levels shows level of volume.
- 2** Settings icon. Press symbol in order to open menu.
- 3** IVRA icon. Press symbol in order to activate.
- 4** Timer icon. Default setting is counting up.
- 5** Inflate icon. Click in order to activate pump.
- 6** Pset pressure.
- 7** Current cuff pressure in mmHg.
- 8** Deflate icon. Press in order to deflate.
- 9** Battery icon.
- 10** Icon for AC power connection.
- 11** Connecting pipe (CPC)
- 12** Speaker

## Tourniquet rear view



- 1** Printer connection.
- 2** Label, including serial number.
- 3** Power switch. Yellow light on power switch indicates AC power is connected.
- 4** Power cord outlet.
- 5** Potential equalization socket.
- 6** Attachment points for clamp.

## Electronic tourniquets, accessories



- 1. Mobile stand**
- Weighted for excellent stability and comfort of use
  - Ballasted base, 5 spokes
  - Diameter wheels: 7,5 cm
  - Two wheels are equipped with brakes
  - Basket included
  - Easy storage



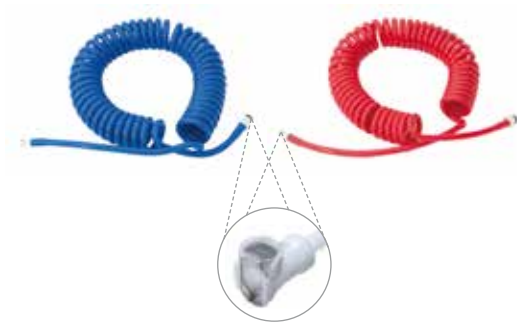
- 2. Clamp 800-series**  
For mounting the Tourniquet to infusion/irrigation stand.  
Adjustable 0-37 mm.



- 3. Printer for Tourniquet**
- Thermal line printing
  - Dimensions : 145 x 195 x 148 mm
  - Weight : 1,6 kg



- 4. Label roll for printer**



- 5. Spiral hose with CPC male/ CPC female connectors.**  
4,5 m long.



- 6. Spiral hose with CPC male/Luer lock female connectors.**  
4,5 m long.

Description	Reference
1. Mobile stand	551 513
2. Clamp 800-series	552 626
3. Printer for Tourniquet	552 885
4. Label roll for printer	552 886
5. Spiral hose with CPC male/CPC female connectors	Blue: 552 913
	Red: 552 923
6. Spiral hose with CPC male/Luer lock female connectors.	Blue: 552 912
	Red: 552 922

## Tourniquet cuffs, disposable



- ETO Sterilized
- 2 m long hose made of TPU
- Straight and Conical
- No Latex
- Wide range of sizes
- Color coded
- Customized protection sleeve included
- CPC male as standard
- Soft and easy to apply

### Single disposable cuffs

Note! All sizes are valid with +/- 1 cm width and length

Reference	Total length (cm/inch)	Width (cm/inch)	Color
552 890	20 cm / 8 inch	5 cm / 2 inch	Light blue
552 891	30 cm / 12 inch	8 cm / 3 inch	Deep purple
552 892	38 cm / 15 inch	10 cm / 4 inch	Gray
552 893	46 cm / 18 inch	10 cm / 4 inch	Red
552 894	61 cm / 24 inch	10 cm / 4 inch	Yellow
552 895	76 cm / 30 inch	13 cm / 5,1 inch	White
552 896	86 cm / 34 inch	13 cm / 5,1 inch	Blue
552 897	97 cm / 38 inch	13 cm / 5,1 inch	Teal blue
552 898	109 cm / 43 inch	13 cm / 5,1 inch	Green



### Single disposable conical cuffs

Note! All sizes are valid with +/- 1 cm width and length

Reference	Total length (cm/inch)	Width (cm/inch)	Color
552 900	61 cm / 24 inch	10 cm / 4 inch	Red
552 901	76 cm / 30 inch	10 cm / 4,1 inch	Yellow
552 902	86 cm / 34 inch	11 cm / 4,3 inch	Blue
552 903	109 cm / 43 inch	13 cm / 5 inch	Green

### Double disposable cuffs

Note! All sizes are valid with +/- 1 cm width and length

Reference	Total length (cm/inch)	Width (cm/inch)	Color
552 904	25 cm / 10 inch	10 cm / 4 inch	Light blue
552 905	36 cm / 14 inch	10 cm / 4 inch	Purple
552 906	51 cm / 20 inch	15 cm / 6 inch	Deep blue
552 907	66 cm / 26 inch	15 cm / 6 inch	Orange
552 908	81 cm / 32 inch	15 cm / 6 inch	Brown

## Tourniquet cuffs, autoclavable



- For orthopedic and plastic surgery.
- Extra long silicon bladder.
- Many different sizes of both single and double cuffs.
- Both washable and autoclavable cuffs.
- No risk for latex allergy.
- Velcro and strap with plastic clamp for increased safety.

### Single autoclavable cuffs

Note! All sizes are valid with +/- 1 cm width and length

	Reference	Total length (cm/inch)	Width (cm/inch)
CUFFS	552 800	39 cm / 15,4 inch	4 cm / 1,6 inch
	552 801	47 cm / 18,5 inch	6 cm / 2,4 inch
	552 802	51 cm / 20,1 inch	10 cm / 3,9 inch
	552 803	53 cm / 20,9 inch	8 cm / 3,1 inch
	552 804	65 cm / 25,6 inch	12 cm / 4,7 inch
CUFFS FOR LEG	552 805	78 cm / 30,7 inch	12 cm / 4,7 inch
	552 806	86 cm / 33,9 inch	14 cm / 5,5 inch
	552 807	93 cm / 36,6 inch	13 cm / 5,1 inch
	552 808	102 cm / 40,2 inch	13 cm / 5,1 inch
	552 809	126 cm / 49,6 inch	13 cm / 5,1 inch

### Double autoclavable cuffs

Note! All sizes are valid with +/- 1 cm width and length

	Reference	Total length (cm/inch)	Width (cm/inch)
CUFFS	552 816	31 cm / 12,2 inch	7 cm / 2,8 inch
	552 810	41 cm / 16,1 inch	7 cm / 2,8 inch
	552 817	46 cm / 18,1 inch	10 cm / 3,9 inch
	552 811	50 cm / 19,7 inch	10 cm / 3,9 inch
	552 812	67 cm / 26,4 inch	17 cm / 6,7 inch
CUFFS FOR LEG	552 813	82 cm / 32,3 inch	17 cm / 6,7 inch
	552 814	100 cm / 39,4 inch	17 cm / 6,7 inch
	552 815	125 cm / 49,2 inch	17 cm / 6,7 inch

## Cleaning and autoclaving

Clean the outside of the cuff using a mild soap and water or a germicidal detergent. Our cuffs can be washed in dishwashers or washing machines and can either be tumble-dried or left to dry before autoclaving. Screw on the Luer lock cap that is attached to the cuff hose, before washing and autoclaving. It is essential to attach the cap to the hose in order to prevent water from entering the hose and the cuff.

The cuff must be autoclaved before use. Make sure that the cuff is completely empty before autoclaving.

Steam autoclaving should be performed in accordance with the following parameters:

	Maximum	Recommended
Temperature:	134 °C	121 °C
Pressure:	3 bar	2 bar
Time:	5 minutes	20 minutes

**Note!** Following the first autoclaving, a slight shrinkage of the Velcro parts may be observed. The cuff may also lose some colour and the silicone bladders may appear somewhat stained. This will not effect the functioning of the cuff.  
Replace the cuff as soon as its condition starts to deteriorate.



The roll-on cuff is a complete system in order to create and keep bloodless field in extremities during operations in bloodless field. The cuff is efficient, simple and safe to use and need no electricity or compressed air.

You can either use only the roll-on cuffs to empty the extremities of blood, or use them along with our usual cuffs to empty and maintain bloodless field.

The design secures an ideal pressure over the systolic pressure against the extremity within the working range of each cuff and can be sterilized.

Our roll-on cuffs are made of silicone thus no risk for latex allergy.

Working areas for the cuffs:

- Orthopedic surgery
- Vein surgery
- Leg and arm surgery
- Emergency care

## Roll-on cuffs

Patient limb size	Reference
25-31 cm	552 785
30-38 cm	552 786
37-46 cm	552 787
45-56 cm	552 788
55-65 cm	552 789
64-80 cm	552 790



## Accessoires



1. Vacuum pump



2. Spengler Lian® Nano Manometer



3. Special wedge  
Rubber, no risk for latex allergy



4. Measuring tape



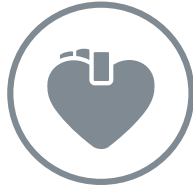
5. Hose with needle and nipple  
Acc. to pump ref. 310 065



6. Roll-on cuff set Standard  
The set consists of:  
552785, 552786, 552787, 552788, 552789, 2 x 552793, 552795, 552794, 310065 and 552791.

7. Roll-on cuff set Leg  
The set consists of:  
552786, 552787, 552788, 552789, 552790, 2 x 552793, 552795, 552794, 310065 and 552791.

Description	Reference
1. Vacuum pump	552 791
2. Lian® Nano manometer	310 065
3. Special wedge	552 793
4. Measuring tape	552 794
5. Hose with needle and nipple	552 795
6. Roll-on cuff set Standard	552 797
7. Roll-on cuff set Leg	552 798



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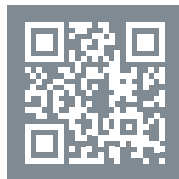


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