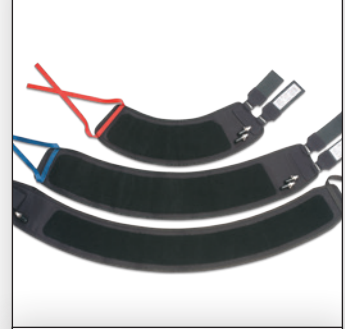




zimmer

tourniquet systems



Zimmer Tourniquet Systems: A Personal Focus, A Personalized Fit



Introducing the A.T.S.® 4000

Zimmer continues to offer the only tourniquet system on the market with a calculated response for personalized pressure.

The A.T.S.® 2200

Zimmer offers a portfolio of Tourniquet Systems to meet your OR needs.

The **A.T.S. 2200 Tourniquet** is our new single port, dual cuff, touchscreen system.

No two people are the same.

Treating every patient with precise, personalized pressure is the inspiration behind our market-leading Tourniquet System design. The Zimmer A.T.S. 4000 Tourniquet System doesn't just stop blood flow; we strive for personalized pressure

by delivering the minimum tourniquet pressure at a specific time, with a specific cuff, for a specific patient limb.

	Zimmer A.T.S. 4000	Zimmer A.T.S. 2200
Number of Ports	Dual Port	Single Port
Number of Potential Cuffs	Dual Cuff	Dual Cuff
Mounting Options	Table or Pole Mount	Table or Pole Mount
Battery Type and Life	Lithium Ion – 6 hrs	Lithium Ion – 6 hrs
User Interface	Touchscreen	Touchscreen
International Alarm Standard 60601-1-8	Compliant	Compliant
Display	8.4" Color	7.0" Color
Limb Occlusion Pressure - Technology that's designed to calculate a patient pressure at an individual level and apply the minimum amount of tourniquet pressure needed to occlude a limb at a specific time for a specific patient. Studies have shown LOP effective at reducing tourniquet pressure versus a static setting of 300-350. Lower pressure helps reduce complications associated with tourniquet use. ¹	Yes	No
Line Occlusion Detection - (Acoustic Reflectometry) - Technology that is intended to help identify a line occlusion between the machine and cuff. The technology decreases the unintentional risk of leaving pressure in a tourniquet cuff.	Yes	Yes
Cuff Alert - Technology intended to prevent setting the unit to STANDBY with pressure in the tourniquet cuff.	Yes	Yes
Automatic IVRA Cuff Lock Out - Technology that is intended to prevent accidental dual cuff release. Without additional steps or notification, the machine will prompt users to confirm the intent to deflate a second cuff. Improper deflations have resulted in serious injuries and death.	Yes	Yes
Advanced Leak Detection - Technology that monitors a cuff for minor variations intraoperatively with the intention of reporting potential cuff/hose leaks.	Yes	Yes
Pre-Op Cuff Test - Technology that allows for bedside testing of cuff pre-operatively to ensure proper function.	Yes	Yes

Personalized Pressure™ Technology

Personalized Pressure can help surgeons choose a more individual, often lower, cuff pressure. Lower tourniquet cuff pressure reduces post-operative wound complications after TKA.¹

Applying lower tourniquet pressure has been found to result in less post-operative pain. One study demonstrated that an average thigh tourniquet pressure of 230mmHG resulted in statistically significant lower pain over a multi-day recovery period versus a tourniquet pressure of 350mmHG.²

Minimizing tourniquet pressure and pressure gradients by using Personalized Pressure helps minimize the risk of nerve-related injuries.³

The AORN Seal of Recognition has been awarded to Zimmer's A.T.S. Tourniquet System's product support materials on March 6, 2014 and does not imply that AORN approves or endorses any product or service mentioned in any presentation, format, or content. The AORN Recognition program is separate from the AORN, ANCC Accredited Provider Unit and therefore does not include any CE credit for programs.

A.T.S.[®] Contour Cuffs

Versatility and flexibility for both surgeon and patient



- **Designed to fit most adult patients** for arm, thigh, lower leg and Bier Block (IVRA) applications
- **Unique, proprietary pivoting straps** with contour design adjust to a wide range of limb shapes and sizes, including conically shaped limbs
- **Slim, low-profile design** provides superior fit and performance on tapered limbs⁴
- **Wider than other cuffs** to help provide improved application of pressure to the operative limb. Durable and easily cleaned for multiple uses

Previous studies have shown that wide and wide contoured tourniquet cuffs occlude flow at lower pressures than narrower cuffs. For tapered limbs, contouring the cuff to match the conical shape of the limb has been shown to reduce limb occlusion pressure.⁴

A.T.S.[®] Reusable Cuffs

Designed for comfortable, repeated use



- **90-Degree Ports** help keep hoses clear of the surgical site
- **Contact Closures and Fasteners** hold the cuff securely in position by virtually eliminating rolling and twisting
- **Single/Dual Port Options** allow for use with any A.T.S. tourniquet regulator

Protection Sleeves

Specially designed to complement Zimmer cuffs and protect the patient from skin wrinkling and pinching.



A.T.S.[®] Disposable Cuffs

Low profile, high performance

These durable, latex-free sterile cuffs are designed and manufactured to ensure enhanced performance and patient comfort, while providing single-use convenience. The wide variety of color-coded sizes makes it easy to meet even the most demanding procedural needs.

- **90-Degree Ports** help keep hoses clear of the surgical site
- **Contact Closures and Fasteners** hold the cuff securely in position by virtually eliminating rolling and twisting
- **Single/Dual Port Options** allow for use with any A.T.S. tourniquet regulator
- **No Cleaning**, no cross-contamination – just discard after use
- **Single/Dual Bladder Options** offer convenient choices for cuff style and sizing, including use with intravenous regional anesthesia IVRA or Bier Block procedures



Personalized Pressure[™] Technology

Zimmer disposable cuffs have been shown to have superior surface contact than comparable 4" disposable tourniquet cuffs. Studies have shown that greater surface contact potentially reduces tourniquet inflation pressure.^{5,6}

Zimmer limb protection sleeves have been found to be more effective at eliminating wrinkles and pinches in the skin surface as well as reducing the chance of folding or wrinkling of material under the cuff during application when compared to four-layer stockinet and conventional cast padding.⁷



Tourniquet Capital		
A.T.S. 4000 Tourniquet w/Hoses		60400010100
A.T.S. 4000 Tourniquet w/Hoses & Cuffs		60400010200
A.T.S. 4000 Tourniquet w/Hoses, Cuffs, Stand, Basket		60400010300
A.T.S. 4000 Tourniquet w/Hoses, Stand, Basket		60400010400
A.T.S. 2200 Tourniquet w/Hoses		60220010100
A.T.S. 2200 Tourniquet w/Hoses & Cuffs		60220010200
A.T.S. 2200 Tourniquet w/Hoses, Cuffs, Stand, Basket		60220010300
A.T.S. 2200 Tourniquet w/Hoses, Stand, Basket		60220010400
A.T.S. 750 Tourniquet w/Hose		60075010100
A.T.S. 750 Tourniquet w/Hose & Cuffs		60075010200
A.T.S. 750 Tourniquet w/Hose, Cuffs, Stand, Basket		60075010300
A.T.S. 750 Tourniquet w/Hose, Stand, Basket		60075010400
Tourniquet Capital Accessories		
Tourniquet Accessory Basket		60190800100
Tourniquet Stand, Telescoping, W/28 Base		60402200100
A.T.S. 3000/4000 Dual Hose, Blue		60401700100
A.T.S. 3000/4000 Dual Hose, Red		60401800100
A.T.S. 4000 LOP Sensor		60400010500
A.T.S. 3000 LOP Sensor		60300010500
A.T.S. 750/1200/2200 Hose, Red		60279000100
A.T.S. 750/1200/2200 Hose, Blue		60279000200



Tourniquet Cuff - Cylindrical Disposable			
Dual Port, Single Bladder, Sterile, PLC, Box Of 10	With Sleeve	Without Sleeve	
8 DPSB Sterile Cuff - 8in. (20cm) x 2.75in. (7cm)	60707015100	60707010100	
12 DPSB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	60707015200	60707010200	
18 DPSB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	60707015300	60707010300	
24 DPSB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	60707015400	60707010400	
30 DPSB Sterile Cuff - 30in. (76cm) x 4in. (10cm)	60707015500	60707010500	
34 DPSB Sterile Cuff - 34in. (86cm) x 4in. (10cm)	60707015600	60707010600	
42 DPSB Sterile Cuff - 42in. (107cm) x 4in. (10cm)	60707015700	60707010700	
Dual Port, Dual Bladder, Sterile, PLC, Box Of 10	With Sleeve	Without Sleeve	
12 DPDB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60708010100	
18 DPDB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	60708015200	60708010200	
24 DPDB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	60708015300	60708010300	
Dual Port, Single Bladder, Sterile, Luer Lock, Box of 10	With Sleeve	Without Sleeve	
8 DPDB Sterile Cuff - 8in. (20cm) x 2.75in. (7cm)	na	60707000100	
12 DPDB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60707000200	
18 DPDB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	60707005300	60707000300	
24 DPDB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	na	60707000400	
30 DPDB Sterile Cuff - 30in. (76cm) x 4in. (10cm)	na	60707000500	
34 DPDB Sterile Cuff - 34in. (86cm) x 4in. (10cm)	60707005600	60707000600	
42 DPDB Sterile Cuff - 42in. (107cm) x 4in. (10cm)	na	60707000700	
Dual Port, Dual Bladder, Sterile, Luer Lock, Box of 10	With Sleeve	Without Sleeve	
12 DPDB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60708000100	
18 DPDB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	na	60708000200	
24 DPDB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	na	60708000300	
Single Port, Single Bladder, Sterile, PLC, Box of 10	With Sleeve	Without Sleeve	
8 SPSB Sterile Cuff - 8in. (20cm) x 2.75in. (7cm)	na	60707510100	
12 SPSB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	60707515200	60707510200	
18 SPSB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	60707515300	60707510300	
24 SPSB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	60707515400	60707510400	
30 SPSB Sterile Cuff - 30in. (76cm) x 4in. (10cm)	60707515500	60707510500	
34 SPSB Sterile Cuff - 34in. (86cm) x 4in. (10cm)	60707515600	60707510600	
42 SPSB Sterile Cuff - 42in. (107cm) x 4in. (10cm)	60707515700	60707510700	
Single Port, Dual Bladder, Sterile, PLC, Box of 10	With Sleeve	Without Sleeve	
12 SPDB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60708510100	
18 SPDB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	na	60708510200	
24 SPDB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	na	60708510300	
Single Port, Single Bladder, Sterile, Luer Lock, Box of 10	With Sleeve	Without Sleeve	
8 SPSB Sterile Cuff - 8in. (20cm) x 2.75in. (7cm)	60707505100	60707500100	
12 SPSB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	60707505200	60707500200	
18 SPSB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	60707505300	60707500300	
24 SPSB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	60707505400	60707500400	
30 SPSB Sterile Cuff - 30in. (76cm) x 4in. (10cm)	60707505500	60707500500	
34 SPSB Sterile Cuff - 34in. (86cm) x 4in. (10cm)	60707505600	60707500600	
42 SPSB Sterile Cuff - 42in. (107cm) x 4in. (10cm)	na	60707500700	
Single Port, Dual Bladder, Sterile, Luer Lock, Box of 10	With Sleeve	Without Sleeve	
12 SPDB Sterile Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60708500100	
18 SPDB Sterile Cuff - 18in. (46cm) x 4in. (10cm)	na	60708500200	
24 SPDB Sterile Cuff - 24in. (61cm) x 4in. (10cm)	na	60708500300	



Tourniquet Cuff - Cylindrical Reusable		
Dual Port, Single Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
8 DPSB Reusable Cuff - 8in. (20cm) x 2.75in. (7cm)	na	60750000100
12 DPSB Reusable Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60750000200
18 DPSB Reusable Cuff - 18in. (46cm) x 4in. (10cm)	na	60750000300
24 DPSB Reusable Cuff - 24in. (61cm) x 4in. (10cm)	na	60750000400
30 DPSB Reusable Cuff - 30in. (76cm) x 4in. (10cm)	na	60750000500
34 DPSB Reusable Cuff - 34in. (86cm) x 4in. (10cm)	na	60750000600
42 DPSB Reusable Cuff - 42in. (107cm) x 4in. (10cm)	na	60750000700
Extra SM Adult Reusable Cuff - 15in. (38cm) x 3in. (8cm)	60810000100	na
Small Adult Reusable Cuff - 17.5in. (44cm) x 3.5in. (9cm)	60810000200	na
Dual Port, Dual Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
12 DPDB Reusable Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60755500100
18 DPDB Reusable Cuff - 18in. (46cm) x 4in. (10cm)	na	60755500200
24 DPDB Reusable Cuff - 24in. (61cm) x 4in. (10cm)	na	60755500300
Single Port, Single Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
8 SPSB Reusable Cuff - 8in. (20cm) x 2.75in. (7cm)	na	60760000100
12 SPSB Reusable Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60760000200
18 SPSB Reusable Cuff - 18in. (46cm) x 4in. (10cm)	na	60760000300
24 SPSB Reusable Cuff - 24in. (61cm) x 4in. (10cm)	na	60760000400
30 SPSB Reusable Cuff - 30in. (76cm) x 4in. (10cm)	na	60760000500
34 SPSB Reusable Cuff - 34in. (86cm) x 4in. (10cm)	na	60760000600
42 SPSB Reusable Cuff - 42in. (107cm) x 4in. (10cm)	na	60760000700
Extra SM Adult Reusable Cuff - 15in. (38cm) x 3in. (8cm)	60800000100	na
Small Adult Reusable Cuff - 17.5in. (44cm) x 3.5in. (9cm)	60800000200	na
Single Port, Dual Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
12 SPDB Reusable Cuff - 12in. (30cm) x 3.5in. (9cm)	na	60766600100
18 SPDB Reusable Cuff - 18in. (46cm) x 4in. (10cm)	na	60766600200
24 SPDB Reusable Cuff - 24in. (61cm) x 4in. (10cm)	na	60766600300



Tourniquet Cuff - Reusable Contour		
Dual Port, Single Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
9in. - 21in. DPSB Reusable Contour Cuff - Upper Limb	60745000200	na
12in. - 30in. DPSB Reusable Contour Cuff - Thigh	60745000300	na
9in. - 17in. DPSB Reusable Contour Cuff - Lower Leg	60745000400	na
30in. - 39in. DPSB Reusable Contour Cuff - LRG Leg	na	60750000800
Dual Port, Dual Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
9in. - 21in. DPDB Reusable Contour Cuff - IVRA	60-7450-011-00	na
Single Port, Single Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
9in. - 21in. SPSB Reusable Contour Cuff - Upper Limb	60735000200	na
12in. - 30in. SPSB Reusable Contour Cuff - Thigh	60735000300	na
9in. - 17in. SPSB Reusable Contour Cuff - Lower Leg	60735000400	na
30in. - 39in. SPSB Reusable Contour Cuff - LRG Leg	na	60760000800
Single Port, Dual Bladder, PLC, Box of 1	With Sleeve	Without Sleeve
9in. - 21in. SPDB Reusable Contour Cuff - IVRA	60735001100	na
Tourniquet Cuff - Limb Protection Sleeve		
Disposable and Reusable Cylindrical, Sterile, Box of 10		
8 Inch Cuff Sleeve - (20cm)	60800000800	
12 Inch Cuff Sleeve - (30cm)	60800001200	
18 Inch Cuff Sleeve - (46cm)	60800001800	
24 Inch Cuff Sleeve - (61cm)	60800002400	
30 Inch Cuff Sleeve - (76cm)	60800003000	
34 Inch Cuff Sleeve - (86cm)	60800003400	
42 Inch Cuff Sleeve - (107cm)	60800004200	
Reusable Contour, Non-Sterile, Box of 10		
X-SM Adult - (8cm)	60791000100	
SM Adult - (9cm)	60791000200	
Contour Arm Cuff	60792000100	
Contour Thigh Cuff	60792000200	
Contour Leg Cuff	60792000300	
Tourniquet Cuff - Accessories		
Hose Extensions, Sterile, Box of 20		
Sterile Dual Hose Extension PLC - 36in.	60181210100	
Sterile Dual Hose Extension Luer - 36in.	60181200100	
Sterile Single Hose Extension PLC - 36in.	60400910100	
Sterile Single Hose Extension Luer - 36in.	60400900100	
Tourniquet Cuff - Esmark Bandages		
Esmark Bandages, Sterile, Box of 20		
Esmark Bandages, Disp 3in x 9ft Sterile	60269400100	
Esmark Bandages, Disp 4in x 9ft Sterile	60269400200	
Esmark Bandages, Disp 6in x 9ft Sterile	60296400300	
Esmark Bandages, Disp 4in x 12ft Sterile	60269400500	
Esmark Bandages, Disp 6in X 12ft Sterile	60269400600	
Latex Free Esmark, Disp 4in x 9ft Sterile	60269401200	
Latex Free Esmark, Disp 5.5in x 9ft Sterile	60269401300	
Latex Free Esmark, Disp 4in x 12ft Sterile	60269401500	
Latex Free Esmark, Disp 5.5in x 12ft Sterile	60269401600	



IT'S PERSONAL.

For more information about the new Zimmer Tourniquet Systems –
featuring *Personalized Pressure*™ Technology – contact your
Zimmer representative or learn more at **personalpressure.zimmer.com**.



¹Olivecrona C, Ponzer S, Hamberg P, Blomfeldt R. Lower Tourniquet Cuff Pressure Reduces Postoperative Wound Complications After Total Knee Arthroplasty. *Journal of Bone & Joint Surgery*; 94; 2216-21 ²Worland, RL; Arredondo, J; Angles, F; Lopez-Jimenez, F; Jessup, DE: Thigh pain following tourniquet application in simultaneous bilateral total knee replacement arthroplasty. *J Arthroplasty*. 12(8):848 – 52,1997. ³Noordin S, McEwen JA, Kragh JF Jr, Eisen A, Masri BA. Surgical tourniquets in orthopaedics. *J Bone Joint Surg Am*. 2009 Dec;91(12):2958-67. ⁴Younger ASE, McEwen JA, Inkpen K. Wide contoured thigh cuffs and automated limb occlusion measurement allow lower tourniquet pressures. *Clin Orthop*. November 2004; (428):286-293 ⁵Heston B. Tourniquet Pressure Mapping: Visually Analyzing Tourniquet Cuff Efficiency Using Tekscan Pressure Measuring. Report on file, Zimmer Surgical, Inc., Dover, OH 2010 ⁶AORN, recommended practices for use of the pneumatic tourniquet. In: *Perioperative standards and recommended practices*. 2014 ed. Denver, CO: AORN, Inc.; 2014. p 183-208 ⁷"New Limb Protection Sleeves: For Zimmer A.T.S. Automatic Tourniquet Systems." Zimmer Surgical, Dover, OH. Report on file, Zimmer Surgical, Inc., Dover, OH 2004

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