

## Hema-T™ and C.A.T.® tourniquets comparison

Parameter	C.A.T.® Tourniquet	Hema-T™ tourniquet	Comments
Application time	Approximately 2 minutes	Up to 5 seconds on the arm and 20 seconds on the leg	
Self-application	yes	yes	
Suitable for arm/leg	yes	yes	
Use in fractured limb	yes	yes	Apply axial traction
Use in the amputated limb	yes	yes	
Patient min. age	2 years old	7 y.o. for leg 15 y.o. for arm	
The patient's limb circumference	Minimum -13 cm Maximum – 85 cm	Minimum - 30 cm Maximum – 80 cm	
Risk of venous occlusion and tourniquet failure	37.2%	2%	<a href="#">Effects of Training and Simulated Combat Stress on Leg Tourniquet Application Accuracy, Time, and Effectiveness</a> Richard Schreckengaust, MC USN, Lanny Littlejohn, MC USN, Gregory J. Zarow, PhD Author Notes Military Medicine, Volume 179, Issue 2, February 2014, Pages 114–120. <a href="#">Smart Tactical Application Tourniquet Versus Combat Application Tourniquet: Comparing Layperson Applications for Arterial Occlusion After a Video Demonstration</a> Robert L Gabbitas 1, Brandon M Carius 2
Max. blood systolic pressure	NA	150 mm Hg	
Max. time of use	2 hours	2 hours	
Visual feedback after application	no	yes	Skin color turns white immediately after Hema-T application; no visual feedback upon C.A.T. placement
Washout of chemicals upon release (K+, CO2, H+, lactate)	Rapid washout	Very slow washout	Rapid washout of toxic chemicals is cardio-inhibitory
Risk of intravascular clotting	yes	no	No blood is left to clot in vessels when using Hema-T
Force distribution around the limb	Not even	uniform	Pinching of skin possible beneath the tightening rod of C.A.T./Rhino tourniquet
Skin pressure	Unknown, depends on the user tightening	Factory calibrated, sufficient to stop the blood flow up to 150 mm Hg	
Single-use/reusable	Reusable	Single-use	Hema-T can be washed and re-rolled
Weight	70 g	254 g	
Size	L – 182 mm W – 66 mm H – 38 mm	L – 139 mm W – 96 mm H – 39 mm	