WHY WE NEED Tourniquets
Of 4,596 battlefield fatalities reviewed in the US military between 2001 and 2011, 119 died from potentially survivable extremity hemorrhage.

4,297 casualties with extremity trauma in US military 2001-2010. 30% had tourniquets applied. 92% of casualties with tourniquets survived.

19 police departments in Wisconsin 2010-2015. Law enforcement rendered care 56 times, 42 of which were extremity hemorrhage controlled by tourniquets.

From March 2013 - Feb 2014, 542 patients with vascular trauma were treated at 14 trauma centers. 18.4% were upper extremity arterial, 26% were lower extremity.

Prehospital tourniquet use for extremities occurred in 20.2% of cases.

SAM EXTREMMITY TOURNIQUET
ENGINEERED TO PRESERVE LIFE
TRUFORCE™ BUCKLE

Slack is the main cause of failed tourniquet application. The TRUFORCE™ buckle technology auto-locks to eliminate nearly all tourniquet slack by incorporating innovative baseline force control, activating the locking prongs.
TIME BAND

Weather-resistant hook and loop system functions when fully submerged, providing maximum security in the harshest weather. Outer material is optimized for night vision.
WINDLASS C-HOOKS

Secures the Metal Windlass Rod using an intuitive angular design, making windlass locking easier and more efficient.
TRUFLEX™ PLATE

Durable nylon construction distributes force as targeted pressure for maximum strength and flexibility, able to bend on smaller extremities without breaking.
PRECISION STRAP

Velcro®-dependent tourniquets can fail when wet or dirty. The allweather Precision Strap is made of single-layer nylon webbing. It features intevaled holes that lock with the TRUFORCE™ Buckle to create a consistent, efficient primary security system. The secondary hook and loop system secures the remaining strap, adding stability and safety.
PRECISION TAB

Intuitive design allows for quicker, easier tourniquet application. Material is optimized for night vision.
THREE MODELS AVAILABLE
THREE MODELS

Tactical Black  Hi-Viz Orange  Hi-Viz Blue
WHY SAM XT?
Tourniquets on casualties in war have been loose in 4%–9% of uses, and such slack risks death from uncontrolled bleeding.
At a combat support hospital in Baghdad over a 7 month period, 232 patients had tourniquets. 13 of those were loose and 2 of those patients died.
Slack reduction for SAM XT means FEWER windlass turns are required, which means less time to apply.
The low friction TRUFORCE Buckle and low resistance strap operate with unrivaled efficiency.
As pain increases for casualties, they may try and remove tourniquets on their own.
SAM XT's initial security measure does not require Velcro.

As pain increases for casualties, they may try and remove tourniquets on their own. At full occlusion pressure, it is nearly impossible to disengage the TRUFORCE® Buckle or remove the strap without first untwisting the windlass. Prohibiting the casualty from removing the tourniquet due to pain.
STEP 1

Locate the site of injury* and place the SAM® XT around the limb, directly onto the skin 2-3 inches above the wound.
STEP 2

Insert the tip of the strap through the opening in the buckle. Grip the strap close to the buckle and pull hard and steady against the buckle until it stops. Maintaining tension, press the strap back upon itself to hold it in place. Do not cover WINDLASS C-HOOKS.
STEP 3

Twist the metal windlass rod until the bleeding has stopped.
STEP 4

Fix the metal windlass rod inside the Windlass C-hooks and confirm that bleeding has stopped. If bleeding continues, try to further tighten the tourniquet with additional twists of the metal windlass rod. If this fails to stop the bleeding, apply a second SAM® XT side by side next to the first and ensure bleeding has stopped.
Wrap strap between Windlass C-hooks, over rod and around the limb. Secure the (⊕) Time Band over Windlass C-hooks and record time of application.
REMOVAL INSTRUCTIONS
STEP 1

Leave tourniquet in place until directed by a medical practitioner.

To remove SAM® XT
Release the (杜兰) Time
Band & untwist
metal windlass rod.
STEP 2

Lift the tab on the front of the buckle to allow prongs to retract.

DISPOSAL:
Dispose of device per facility policy.
SUMMARY

CONTROL SLACK
APPLY WITH SPEED
SECURE WITH CONFIDENCE
DATA SOURCES


DATA SOURCES


THANK YOU
MORE THAN SURVIVAL™