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SAM Medical XT600-BK-EN

SAM Medical SAM XT Tourniquet Instruction Manual

Model: XT600-BK-EN

INTRODUCTION

This manual provides essential instructions for the proper use, maintenance, and storage of the SAM Medical SAM XT Tourniquet. The SAM XT is designed for rapid application to control severe external bleeding from an extremity. Adherence to these instructions is critical for effective use and patient safety.



Image: The SAM XT Tourniquet in its ready-to-use configuration.

SAFETY INFORMATION

Always follow the instructions for proper application and removal. Do not leave the tourniquet in place longer than necessary to prevent tissue damage. Keep out of reach of children.

Important: The SAM XT Tourniquet is a medical device intended for use by trained personnel. Improper application can lead to serious injury or death. Seek professional medical training before use.

INDICATIONS FOR USE

The SAM XT Tourniquet is indicated for controlling severe external bleeding from an arm or leg, such as in cases of traumatic injuries or severe lacerations, where direct pressure is insufficient or impractical.

PRODUCT COMPONENTS AND FEATURES

- **TRUFORCE Buckle:** This buckle automatically locks to minimize slack, ensuring consistent pressure. It incorporates innovative baseline force control and activating locking prongs.
- **TRUFLEX Plate:** Made of 100% nylon, this plate distributes circumferential pressure and supports the Metal Windlass Rod.
- **Metal Windlass Rod:** Machined from lightweight 6061-T6 aluminum for strength and durability, used to apply direct pressure.
- **Time Band:** A weather-resistant, night vision-optimized band for recording application time.
- **Precision Strap:** A single-layer nylon webbing strap with intervalled holes that lock with the TRUFORCE Buckle, providing a consistent primary security system. It is designed to function reliably even when wet or dirty, unlike Velcro-dependent systems. A secondary hook and loop system secures the remaining strap.



Image: TRUFORCE Buckle detail.



Image: TRUFLEX Plate detail.



Image: Metal Windlass Rod detail.



Image: Time Band detail.

SETUP AND PREPARATION

Before deployment, ensure the tourniquet is staged correctly for rapid application. The strap should be threaded through the buckle, and the windlass rod should be in its resting position, ready to be twisted.



Image: The SAM XT Tourniquet in a staged, ready-to-use state.

OPERATING INSTRUCTIONS: APPLICATION

1. **Position:** Place the tourniquet high on the injured limb, above the bleeding site, directly on the skin if possible. Avoid placing over joints or pockets.
2. **Tighten Strap:** Pull the Precision Strap through the TRUFORCE Buckle until the buckle clicks, indicating that baseline force has been achieved and slack is removed.
3. **Twist Windlass:** Twist the Metal Windlass Rod until bleeding stops.
4. **Secure Windlass:** Lock the windlass rod into the C-hook to prevent it from unwinding.
5. **Secure Strap:** Use the secondary hook and loop system to secure any remaining strap and the windlass rod.
6. **Record Time:** Write the time of application on the Time Band.



Image: Proper application of the SAM XT Tourniquet on an arm.

OPERATING INSTRUCTIONS: REMOVAL

Tourniquet removal should only be performed by medical professionals. Releasing the tourniquet prematurely or incorrectly can result in further blood loss or complications.

1. **Assess:** A medical professional will assess the patient's condition and the bleeding site.
2. **Prepare:** Ensure alternative methods of hemorrhage control are ready before loosening the tourniquet.
3. **Release:** Carefully release the windlass rod from the C-hook and slowly unwind it. Loosen the strap.
4. **Monitor:** Continuously monitor the patient for re-bleeding and other complications during and after removal.

MAINTENANCE AND STORAGE

- **Cleaning:** Clean the tourniquet with mild soap and water if necessary. Allow it to air dry completely before storage.
- **Inspection:** Regularly inspect the tourniquet for any signs of wear, damage, or degradation. Discard and replace if any damage is found.
- **Storage:** Store the tourniquet in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it readily accessible for emergency use.



Image: A SAM XT Tourniquet stored within a medical bag, ready for deployment.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Bleeding not stopped after initial strap tightening.	Insufficient slack removed from the strap.	Ensure the TRUFORCE Buckle clicks into place, indicating proper tension. Pull the strap tighter before twisting the windlass.
Windlass rod does not stay locked.	Improper placement in the C-hook or insufficient strap tension.	Ensure the windlass rod is fully seated in the C-hook. Verify the strap is tight enough to maintain pressure.
Tourniquet feels loose after application.	Inadequate tightening of the strap or windlass.	Re-evaluate application steps. Ensure maximum slack is removed and the windlass is twisted until bleeding ceases.

SPECIFICATIONS

Product Dimensions: 7.5 x 2.75 x 1.5 inches

Weight: 4 ounces

Model Number: XT600-BK-EN

Manufacturer: SAM Medical

Color: Black

Special Feature: Compact

Number of Pieces: 1

Recommended Uses: Outdoors

WARRANTY AND SUPPORT

Specific warranty information for the SAM XT Tourniquet is not provided in this manual. For detailed warranty terms, product support, or further assistance, please contact SAM Medical directly through their official website or customer service channels.

Manufacturer: SAM Medical

Website: www.sammedical.com

LEGAL DISCLAIMER

This product is a medical device and should be used in accordance with its intended purpose and instructions. Always consult with a qualified medical professional for any health concerns or before using this device in an emergency situation.

