TAK710
TOURNIQUET AUTOMATED KIT

by XMetix

The ONLY
Automatic Adjustable Tourniquet

The revolutionary
'Stop the Bleed' solution
redefining emergency response



COMPANY BACKGROUND

XMetix is an Israeli startup dedicated to revolutionizing postinjury survivability through the development of cutting-edge stop the bleed devices.
Our primary focus is on introducing an innovative smart tourniquet that outperforms existing solutions in terms of speed, reduced human error, and ease of use.
XMetix's fully automatic tourniquet, controlled by sophisticated software, requires just one button press to be activated, making it the ideal option for both military and civilian environments, and intuitive to all experience levels.

TECHNICAL INFORMATION

- Adjustable for various limb sizes:
  6.29" - 39.37" | 16 cm - 100 cm
- Tourniquet application time up to 20 secs.
- Applied pressure - 180-300 mmHg
- Occlusion pressure is maintained automatically up to 6 hours
- Tourniquet operation time indication from activation - up to 6 hours
- Stripes material: 0755 Nylon Webbing
- Product Weight: 6.34 oz / 180 gr

THE NEED

Limb injuries are too common and pose a significant threat to life and well-being, particularly in military and civilian settings.
In fact, they account for a staggering 70% of all injuries in in combat zones and car acceidents.
XMetix has taken it to the next level with its state-of-the-art tourniquet design, aiming to significantly increase the tourniquet success rate for trained and untrained users assuring efficiency of treatment with effective lifesaving results.

UNIQUE SELLING POINTS

- The ONLY automatic adjustable tourniquet
- Fast and easy to operate
- Easy to follow, user manual
- Required very short training
- Hands free operated (using one hand only)
- Operated by push button
- Easy to operate Tighten and Release button
- Enables simultaneous treatments on multiple patients, quickly and efficiently
- Previous experience is NOT required
- Used by IDF (Israeli Defense Forces)



COMPARISON TABLE

XMETIX SMART TOURNIQUET TAK710 TO EXISTING SOLUTIONS

Tourniquet's unique properties	Existing Solutions (Passive operation)	TAX710 by XMetix (Active Operation)
Device consists of	Buckled strap with Windlass rod and Retention clip.	Magnetic strap with Rotational wires. Small motor and PCB
Application	• Manual • Buddy assisted hand crank • Difficult to deploy in the dark • Difficult to deploy in slippery conditions • Difficult to self-apply • Inconsistent force	• Automatic • Quick activate button • Easy to activate in the dark • Easy to activate when wet • One finger self-application • Rotational, consistent force
Pressure mechanism	• Painful • Hand crank to build pressure • Pressure gradients with pinch points • Requires manual pressure adjustments	• Uncomfortable • Automatically applies adequate pressure • Continuous, circumferential pressure • Maintains adequate pressure
Risks/benefits	• No pressure monitoring • Unacceptable • Failure rate • Human error: (limb trauma from overtightening, failure to occlude flow, improper application) • Buddy assistance - takes a soldier out of the fight • Potentially harrowing experience - inflicting pain on buddy • Inconsistent application time • Inconsistent manual deflation • Low cost	• Monitors pressure • Low failure rate • Automated operation, with safeguards • Keeps non injured soldiers in the fight • Self/buddy-applied in less than 30 sec • Automated, rapid application • Rapid deflation • One of a kind value for money

This table was prepared and presented by LTC Stephen DeLellis.

CERTIFICATIONS AND APPROVAL

FDA LISTED

FOR MORE INFORMATION

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