

USAMMDA Mission

The USAMMDA **Mission** is to develop and manage medical materiel to protect and sustain the Warfighter on point for the Nation.



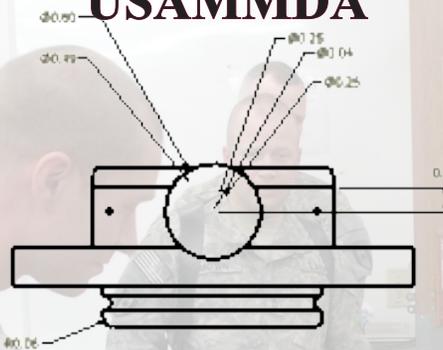
USAMMDA Vision

The USAMMDA **Vision** is to integrate with USAMRMC, Federal agencies, and the DoD, as part of the joint biomedical research and materiel community, to focus on delivering the best medical solutions for today and tomorrow.

Our products are an integral part of the DoD Force Health Protection Program, to include vaccines, drugs, and medical devices, to prevent, diagnose, and treat infectious diseases, combat-related casualties, and CBRNE threats.

Our products enhance far-forward medical care across the full spectrum of health care missions worldwide.

For more information about USAMMDA



Visit our website:

www.usammda.army.mil

Or contact us at:

USAMMDA

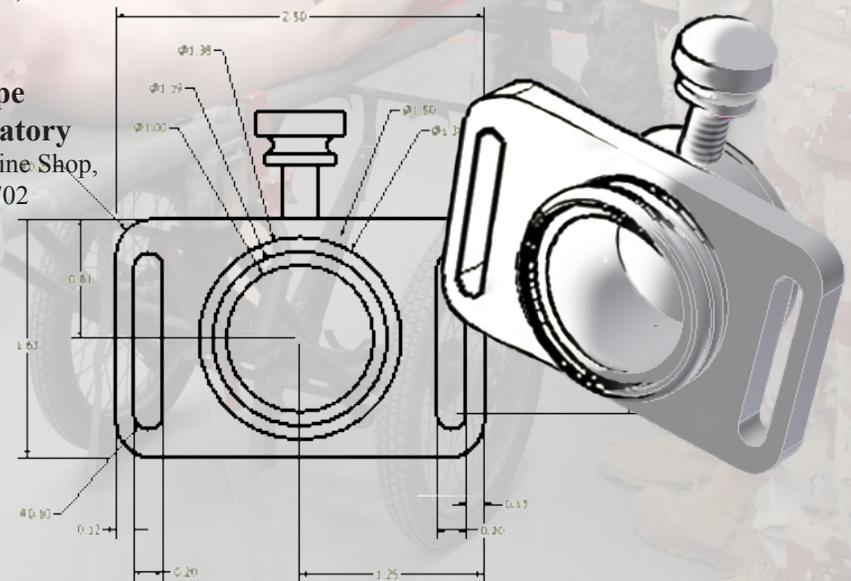
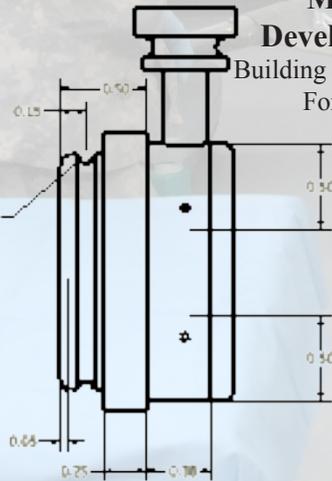
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Medical Prototype Development Laboratory

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USAMMDA

U.S. Army Medical Materiel Development Activity



*Developing Quality Medical Products
for U.S. Forces*

Medical Prototype Development Laboratory (MPDL)

U.S. Army Medical Research and Materiel Command

Protect the Warrior, Sustain the Force

Last updated: April 18, 2011

**An Integral Team, Involved and Committed
in Efforts to Aid the Combat Soldier...**

MPDL: Experience - Quality



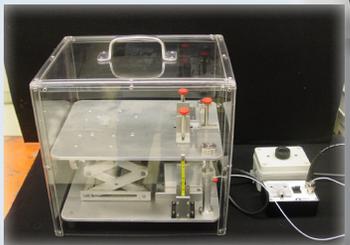
CASEVAC Kits HMMWV M-1114 & M-1115

CASEVAC Kits MRAP Vehicles

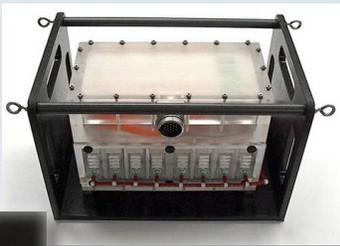


Special Medical Evacuation Device (SMEED)

Submersible Bio-monitor (water quality)



TBI Blast Device

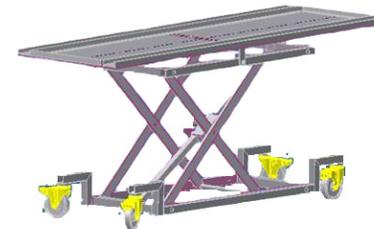
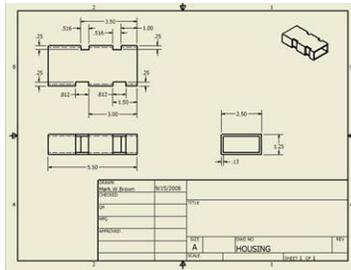


What MPDL Does

The U.S. Army Medical Materiel Development Activity's (USAMMDA) Medical Prototype Development Laboratory (MPDL) is made up of a small team of engineers and engineering technicians with a vast array of design and fabrication skills. This integrated team works together to design, develop drawing packages, and rapidly prototype far-forward medical equipment in support of the U.S. Army Medical Research and Materiel Command's (MRMC) mission.

The MPDL's core capabilities are:

- Drawing/documentation, technical data package
- 3-D computer aided design and modeling
- Prototype development and fabrication



Concept

Completion

- Computer Numerical Control (CNC) machining
- Precision sheet metal forming
- Welding/fabrication
- Chemical coating, cleaning and finishing
- Technical data package development
- 3-D Printing
- Laser Engraving

The MPDL is capable of rapidly prototyping and small production runs of medical devices in a wide range of scales and out of a variety of materials. These capabilities are also used to harden commercial off-the-shelf (COTS) components, equipment and products for use in a field environment.

The MPDL personnel take pride in the innovative design and quality workmanship that has produced numerous products and several U.S. patents.

The Soldier . . . The Focus of MPDL's Efforts

In an effort to provide U.S. Forces with innovative, useful, and relevant field medical equipment, the MPDL collaborates with various organizations within the medical community. This unique USAMRMC resource is instrumental in providing prototype design; fabrication; evaluation/testing; and fixes for products, components and systems.

With the Soldier in mind, the key principals that drive product design are:

The nuts and bolts

