

A Proven Success With Less Time & Manpower.

MARSARS® Ice Rescue Sled Kits

**REACHING RESCUE
FROM A SAFER DISTANCE BY SLED**



In 2004 the U.S. Coast Guard modernized their ice rescue program. With a primary goal of rescuer's safety, the MARSARS® Ice Rescue Safety Shuttle Sled (IRSS) was selected as the Coast Guard's ice rescue device of choice. This sled is now distributed World-wide. We believe the ease of extracting the patient and rescuer safety has been the primary reason for its popularity. The MARSARS® Ice Rescue Sled kit includes: IRSS Sled, buoyant Cold Water Rescue Sling and your choice of 300', 600' or 900' Ice Rescue Reel.

Genesis of Safer Distance Ice Rescue

Prior to late 80's, if grabbed and climbed on, all lifeguards were trained to escape by submerging their body deeper. Doing so, the panicked victim, desperate for support would let them go. Since then, all lifeguards stop at a safe distance and extend a rescue flotation device (RFD). The use of RFDs has become the nucleus of swimmer's safety in open water rescue. However, if an ice rescue technician is grabbed and climbed on, the ice rescue suit's buoyancy prevents escape, leaving our techs no recourse but to make aggressive moves to escape.

A seed change for ice rescuer's safety

In this high-risk low incident environment, the MARSARS Ice Rescue Sled (IRSS Sled) is the first ice rescue device designed to gently extract the victim from a safer distance. As first responders, we must be mindful of the rescue dictum: Self-Rescue, Reach, Throw, Row, Go. The self-rescue, reaching phase of this principal has been incorporated into the design of this unique mitigating device for high-risk situations.



Watch MARSARS®
Ice Rescue Sled in use in
the movie *Breakthrough*
Breakthroughmovie.com

Using the IRSS Sled

Rescuing the Responsive Victim

1. Approach the victim by stopping the sled one sled length away and dismount onto the ice.
2. Ask the victim to raise and lower one arm to assess their physical ability to assist in the rescue.
3. If the victim is physically able to help, extend the empty sled toward them as a reaching device.
4. Instruct the victim to insert both forearms completely through the orange-colored forearm sling (FS) attached to the sled.
5. The FS sling is connected to the sled's 4:1 ratio pulley system.
6. Quickly release the brake, securing the forearm sling in place.
7. Signal the shore-based line tenders to begin pulling.
8. Simultaneously, lift the inbound end of the sled to assist with extraction.

On thick ice or during training, with the shore-end of the sled lifted, the rescuer pushes two-thirds of the sled off the ice mantle and into the water. On thin ice, there is no need to push this device into the water. The patient's weight will cause the sled's tunnel-shaped hull to break the unstable ice mantle and lower. In both instances, the patient's torso is gently extracted horizontally onto the partially submerged sled.

Resetting the Victim Forearm Sling

1. Pull VFS all the way down to the buckle assembly
2. Insert Orange tab through back of buckle assembly until dotted line reaches the clamp
3. Insert White tab through the front of the buckle and into the clamp area
4. Close clamp down to lock VFS in place. Sled is now ready for use

Scan to see how to reset the VFS



Rescuing the Unresponsive Victim

Glove of Dominate Hand is Blue



1. Atop ice, rescuer makes a cautious 45° angle approach to the victim. Dominate hand grabs victim's wrist



2. Holding wrist, rescuer's free hand grabs sling low to extend sling far.



3. With victim's wrist raised, slide sling beneath arm



4. A fully extended sling should now rest behind victim's head



5. Place and hold victim's wrist atop the sling. Rescuer's dominate hand reaches through sling to grab victim's other wrist



6. Victim's arm is lifted up, over and to the side of sling

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7. With sling lifted, dominate hand reaches beneath sling and grabs tail of the adjustable strap



8. The sizing strap is now wrapped and fastens around both legs of sling



10. Victim Forearm Sling's brake is released



9. Ice rescue technician pulls sled within close reach



11. Buoyant rescue sling is connected to the sled's ring attached pulley system



From ice to ambulance

Returning sled shields torsos of both patient and rescuer. Improved rescue safety with minimal patient handling and physical stress is the result of this well thought out ice-to-ambulance extraction device.



Ice Rescue Safety Sled

Features:



SAFER DISTANCE ICE RESCUE

Many consider the use of this unique rescue from a safer distance device as a real game changer that minimizes the risk of injury to the patient as well as risk of injury or viral exposure to the rescuer

- Initially, a minimum of two first responders are needed for rescue
- All MARSARS® IRSS sled kits are one-person portable
- The sled is pre-rigged ready for instant use within seconds
- Only one out-bound ice rescue technician is required
- On-scene, rescuer remains a safe, one sled-length away from the victim
- Most conscious and alert victims can insert their forearms through the sled's forearm sling
- For size-up, victim is asked to lift and lower one arm. If conscious and alert...
- Empty sled is extended as a "REACHING DEVICE" for the victim "SELF-RESCUE ATTEMPT"
- Only one shore-based responder is needed to extricate the patient
- IRSS Sled can extricate two patients at one time



Cold Water Rescue Sling

- Rescuer remains atop ice, thus, reducing risk of injury
- Extendable by hand or reach pole
- Provides the semiconscious/unconscious victim with independent positive buoyancy
- During extrication, with arms folded atop sling, patient's head is protected
- Pulled through thick heavy snow, this non-constrictive device prevents injury to patient's chest



Ice Rescue Reel



- Reel can be carried hands-free to scene
- Pre rigged for immediate rescue use
- Quick, tangle-free line deployment
- Includes ice screw for anchoring atop ice or frozen ground
- Assured disconnection by freeze-free non locking carabiner
- Hook float prevents side loading
- Line can be rapidly re-spoiled for redeployment
- With or without line, reel remains buoyant



Rapid Underwater Recovery Kit

In 1995, the Warwick RI Fire Department conducted a recovery of three boys that had tragically drowned in 10-1/2 foot of water. Due to depth, the bodies were recovered in 10, 20, and 43 minutes. Two of the three recovered children were revived. Years later, the child that took the most time to recover graduated from college. During either summer or winter recovery, the Rapid Underwater Recovery Kit is another game changing tool for your toolbox that saves time, risk of injury and brings hope or closure to a grief stricken family.



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