

# EZ Lift Rescue System Reinvents the Standard Backboard

Extendable handles on each end allow rescuers to lift from a safer position just below the knees.



Made from injection molded PP for an incredible strength-to-weight ratio in a low profile that fits current storage.



Custom head-bed and concave patient comfort channel un-weights and protect the spine and head.



Built-in slots along the middle of the EZ LIFT Rescue System create friction that minimizes patient movement.



The EZ LIFT Rescue System has a high strength-to-weight ratio, handles that can be fixed or extended, a patient comfort bed that un-weights and protects the spine, and friction brakes that minimize patient movement during transport.



**The Challenge:** Traditional backboards are devices made from rotational molded High Density Polyethylene (HDPE) and used by Firefighters and Emergency Medical Services (EMS) personnel to immobilize, stabilize, and lift patients at a trauma scene from the ground to the gurney. Backboards may look simple but their functionality has not been challenged for more than 50 years. They serve their purpose – they are lightweight, durable, easily stored, decontaminated, and transported. At the accident scene they provide a convenient way to stabilize, immobilize, lift, and transport patients without exposing them to further injury. At the hospital they are compatible with imaging equipment and provide an easy way to move the patient from the transport gurney to the emergency room gurney.

The most significant problem with traditional backboards is that they require Fire /EMS Rescuers to lift from the ground to get a patient onto the gurney at the accident scene. Lifting patients from the ground place rescuers at risk for injury from muscle strain caused by poor body position for lifting, poor body mechanics, and maximum torque on the lower back. The challenge for EZ LIFT Rescue Systems was to reinvent the traditional backboard, keeping all of the time tested benefits while solving the lift problem.

**What's the Same?** The EZ LIFT Rescue System is used and functions exactly the same way traditional backboards have for more than 50 years. That means the EZ LIFT Rescue System features the same easy-on easy-off patient functionality, durability, and hygienic characteristics of a traditional backboard. It has the same dimensions and weight as comparable weight rated backboards, and it is stackable, x-ray translucent, and it floats.

**What's Different?** By using different materials and manufacturing processes, the EZ LIFT Rescue System incorporates features that cannot be accomplished with inexpensive materials and rotational molding. These mission critical features allow us to incorporate the patented extendable handles and patient comfort bed into the design without compromising board performance or weight. Our proprietary manufacturing technique incorporates power rails that decrease the amount of material used while dramatically improving the strength-to-weight ratio. That means the EZ LIFT Rescue System is much more rigid, has less deflection and even weighs less than most 1,000 pound rated backboards -- even with all of the added features.

The EZ LIFT Rescue System incorporates handles that can be fixed, extended, or retracted allowing FIRE / EMS responders to lift just like they do with a traditional backboard when it is required or extend the handles to lift from a safe lifting position-just below the knees. This position eliminates the dangerous lift from the floor and dramatically reduces torque on the lower back where most injuries occur.

The EZ LIFT Rescue System has the same low profile storage characteristics as a traditional backboard but rather than being flat, it incorporates a concave patient support channel that cradles the patient and un-weights and protects the pressure points of the spine.

The EZ LIFT Rescue System incorporates built in slots that create friction when a patient is moved minimizing patient sliding side to side and head to foot during stair carries, as well as during ambulance braking and acceleration during transport.

*EZ LIFT Rescue System. Simple. Ingenious. Safe.*