

DLX-3BT

Triple Deck/Boat Water Rescue and Command Trailer System

Water Rescue Synopsis:

The DLX-3BT trailer project originated as the needs for water rescue operations has evolved over recent years. The number of water rescues is increasing each year, due to record rainfall, large storms and hurricanes, abundant snow melt, breach of manmade water control, etc. Flooding can happen in any city, county or state. In some localities, fire fighters are saving more lives from eminent water threats than from fires. Ironically, the element they use most to combat fires is now increasingly their biggest threat to the safety of their communities. Climate Change, global warming, or for no particular reason at all – one thing that is clear is that in many localities fire fighters, rescue technicians, and a wide variety of first responders are driven by the needs of their community to increase their capacity to save people from flood water.

Trailer Concept:

The concept behind the DLX-3BT water rescue trailer was to create a complete turnkey water rescue package with self-sufficient logistical support as well as command and control capability. There were several key features identified as must have components for the design; lightweight rapidly deployable triple-stack boat transport, more ergonomic motor storage, as well as command and operational functionality in day or night supporting small and large scale deployments. A lot of time, meetings, flights, drawings, changes, and trials went into refining project. A lot of great people volunteered input and time away from home. And finally, a significant financial investment made it possible to turn all of this collaboration and imagination into a functioning water rescue response platform that is already being fielded to improve water rescue operations.

Field Tested:

Field tests of the trailer started in early 2016 during exercises across the US. However, in September 2016 the State of North Carolina put several of the DLX-3BT trailers to the test for the first time during true operational use from record rainfall and flooding. Water Rescue and Special Operations teams from Fayetteville, Buncombe County and Greensboro Fire Departments successfully rescued 138 people within 48 hours. Then just a couple weeks later 2,300+ people were rescued from record flooding across central and eastern North Carolina after Hurricane Matthew added heavy rainfall to what was an already overly saturated water basin. The DLX-3BT Water Rescue Trailer proved itself a valuable tool to improve operations.

Identified Past-Operation Challenges (before the DLX-3BT):

Just like any other product design from Deployed Logix, the DLX-3BT was designed to offer a solution that improved on noticeable operational and logistical challenges in the field. Addressing several of these challenges was the goal of the DLX-3BT:

- Transport and rapid deployment of multiple boats, motors, and support equipment on a single trailer and vehicle package
- Capability for establishing quick command and logistical support
- Ergonomic transport and deployment boat motors
- Faster and easier transport of boats and motors to the water
- Better spare motor storage and security
- A changing/dressing area that provides both privacy / protection from elements
- Increased safety in night operations
- Lightweight overall package with extensive storage capacity

Turnkey Trailer Design:

The DLX-3BT is more than a trailer – it is a purpose built, self-sufficient operational asset that provides added safety, security, and overall capacity to meet the uncompromising demands of water rescue. From the ground up every detail of the trailer is designed with the water rescue professional in mind. The versatility of features ensures everything serves more than one purpose. The front cabin serves as a secure storage area for items like personnel protective gear, ropes, chainsaws, etc. but most importantly additional boat motors on ergonomic motor carts. When the cabin is empty, it also serves as a private changing area that is out of the elements. There is storage on the front end of the trailer for a readily available DLX-ASAP rapid shelter system to support command, operations, and/or logistics. The boat motor carts are custom designed to be able fit three motors in the cabin, with sturdy off road wheels to take the motors to the water’s edge. The motor carts roll up & down the cabin ramp, which can be deployed on both sides of the trailer. The BIRD (Boat Insertion & Recovery Device) is a two-wheeled system that allows one person to easily move and control a boat with motor from the trailer and deploy it into the water maximizing use of your personnel. The BIRD is money well spent – it reduces the need for four-six personnel to deploy a boat but it also significantly reduces risk of injury.

Trailer Package Specifications & Options:

DLX-3BT-Regional:

- All-Aluminum Trailer and Structure
- Bottom Deck – Inflatable Boat with Motor (transom support included)
- Middle Deck – Inflatable Boat (without motor)
- Top Deck –Inflatable or Flat Bottom Boat (without motor)
- Aluminum Recessed Ladders on both sides for rooftop access
- Galvanized Torsion Axles w/ Vented Disk Brakes [Electric Over Hydraulic Brake]
- Coupling Available in 2-5/16 or Pintle
- All Stainless Steel Nuts & Bolts
- 12V Battery Mounted in Diamond Plate Box w/ 120V AC Charger and 12V Solar Panel Charger
- LED Lighting Package:
 - LED Flood/Spot Lights Center of Passenger, Driver, and Rear (3 Total)
 - 2 x LED Strip Lights in Storage Locker
 - 1 x H2O Strip Light over Bottom and Middle Decks (2 Total)
- Drop Leg Manual Jack Stands
- Forward Lower Deck Box Storage for 2 x DLX ASAP Shelters or Misc
- Expanded Aluminum Deck on Nose of Trailer for Storage (or shower option)
- 2 x Motor Mounts on Trailer Nose
- Spare Tire with Hub Bracket

DLX-3BT-National:

- All the same features as the Regional Package and more
- Three Decks for Boat Storage with Aluminum “L” Track
- Top Deck – Full Walk Aluminum Plank and storage
- Aluminum Full Walk-In Storage Locker for 3 x Motor Carts & Extra Gear (Custom DLX Motor Carts sold separately)
- Removable Aluminum Ramp for loading motors on cart into storage locker
- Aluminum Storage Crib on Roof
- Forward Lower Deck Box Storage for 2 x DLX ASAP Shelters or Misc

Additional Options:

- Lighting packages: emergency (red/blue) lighting, additional scene lighting
- Awnings, Shower Package,
- BIRD (Boat Insertion & Recovery Device), Motor Carts, etc
- Custom Solutions – provide details and needs
- Deployed Logix ASAP Rapid Shelters and accessories