# UNOLS East Coast Winch Pool

Joshua Eaton Manager

Facility, Assets, and Capabilities

### Facility

## Facility

Inside & Outside Storage

Large Workshop

**Machine Tools** 

Electronics & Termination Area

Overhead Lift

UNOLS Standard Bolt Down Pattern



### Assets

#### **Two MASH4000 Winches**

#### **Two MASH2000 Winches**





#### **Hawboldt Winch**



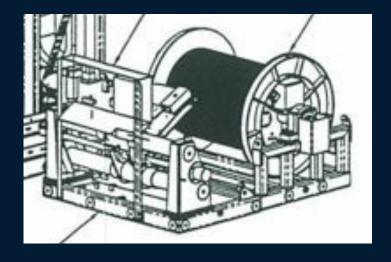
#### **Cantilevered Dynacon**



#### **TSE Mooring Spooler**

**Dynacon .68 Winch** 

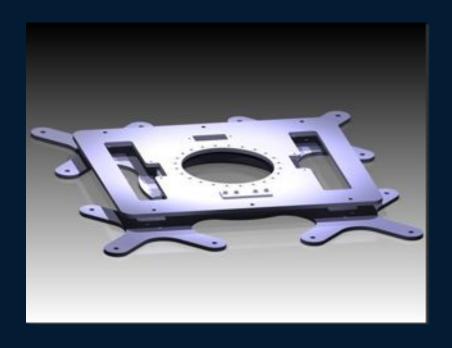




# Ancillary Equipment

#### **Small Turntable**

### Large Turntable



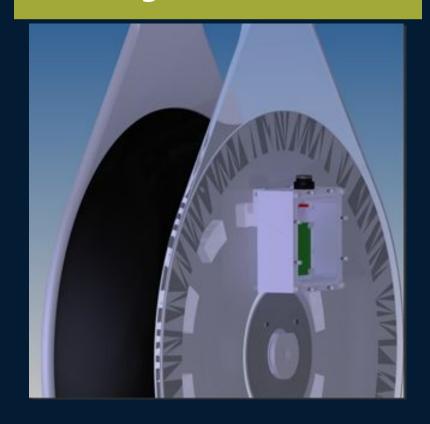


# Ancillary Equipment

#### **Dynamometer**



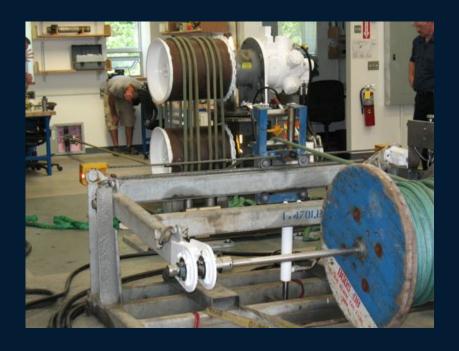
#### **Metering Block**



### Capabilities

### Facility Capabilities

- Winch Testing
  - Speed Testing
  - Pull Testing
- Winch Overhaul
- Wire Spooling



### **Engineering Services**



- Winch Design
  - Mooring Spooler
  - Ultra-Light Duty
- Turntable Design
- Hydrostatic WireCutter Design
- Base Plate Design
- Analysis

### Appendices A & B

- UNOLS RVSS
  Appendices A & B
  - Primer
  - MCDDevelopment
  - Consultation



Joshua Eaton, Engineer II

UNOLS East Coast Winch Pool Manager

#### Maximum Capability Document

ECWP TSE Mooring Spooler SD-70

This document has been prepared in accordance with Appendix B of the UNOLS RYSS. Historically, this machine has primarily been used for mooring recovery. Per Appendix B this machine is rated for "Station Keeping. Oeep Water" (Section B.3.5.6) which includes recovery of moored burys. The East Coast Winch Pool does not approve Mooring Spoolers for use with oceanographic tension members, therefore, Appendix A does not apply. However, since there is no tension monitoring system on this winch, the East Coast Winch Pool recommends that the Deck Safety and Winch Operator requirement of Table 6.1 (Factor of Safety, FS, of 5.0) of Appendix A be followed as a minimum. Due diligence is required by the User to verify through calculation that normal operations will not exceed MPT and that DETs is never expended.

#### System Characterizations

Empty Weight
Maximum Weight
Maximum Pull at Bottom Layer / MPT
Maximum Continuous Allowed Structure Load / DLT
Maximum Speed at Bottom Layer
Maximum Speed at 48 Inches
Optional Spooling Brake Maximum
Maximum Oil Operating Temperature
Power Requirements

6,500 lbf 10,500 lbf 7,000 lbf 7,000 lbf 9,75 m/min 19,5 m/min 1,000 lbf 180 F 3 Phase 480VAC 60 Hz 60 Amp Circuit