

## Maximum Capability Document

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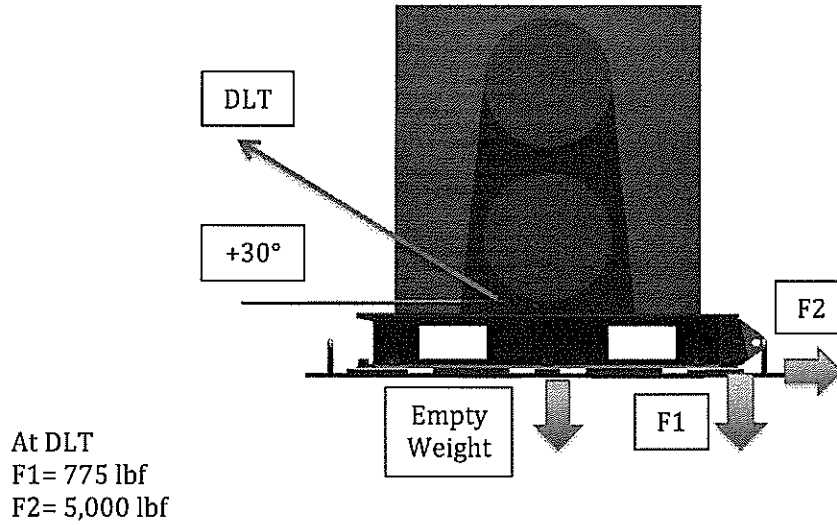
### *Lebus Capstan System*

This document has been prepared in accordance with Appendix B of the UNOLS RVSS. Historically, this machine has primarily been used for mooring deployment and recovery. Per Appendix B this machine is rated for "Station Keeping - Deep Water" (Section B.3.5.6) which includes recovery and deployment of moored buoys. 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 DLT is never exceeded.

### System Characterizations

|  |   |
|--|---|
| Empty Weight                                   | 6,400 lbf                                 |
| Maximum Weight                                 | 6,400 lbf                                 |
| Maximum Pull / MPT                             | 7,000 lbf                                 |
| Maximum Brake Holding Static Load              | 10,500 lbf                                |
| Maximum Continuous Allowed Structure Load/ DLT | 18,500 lbf                                |
| Maximum Speed                                  | 60 m/min                                  |
| Power Requirements                             | 3 Phase 480VAC 50/60Hz<br>100 Amp Circuit |

## Free Body Diagram



Forces noted are the maximum forces per bolt, at DLT, for a 4 bolt hold down pattern (2 of rows spaced 48). Analysis is good for a vertical fleet angle of +30° and a horizontal fleet angle of ±40°.

