



## Maximum Capability Document

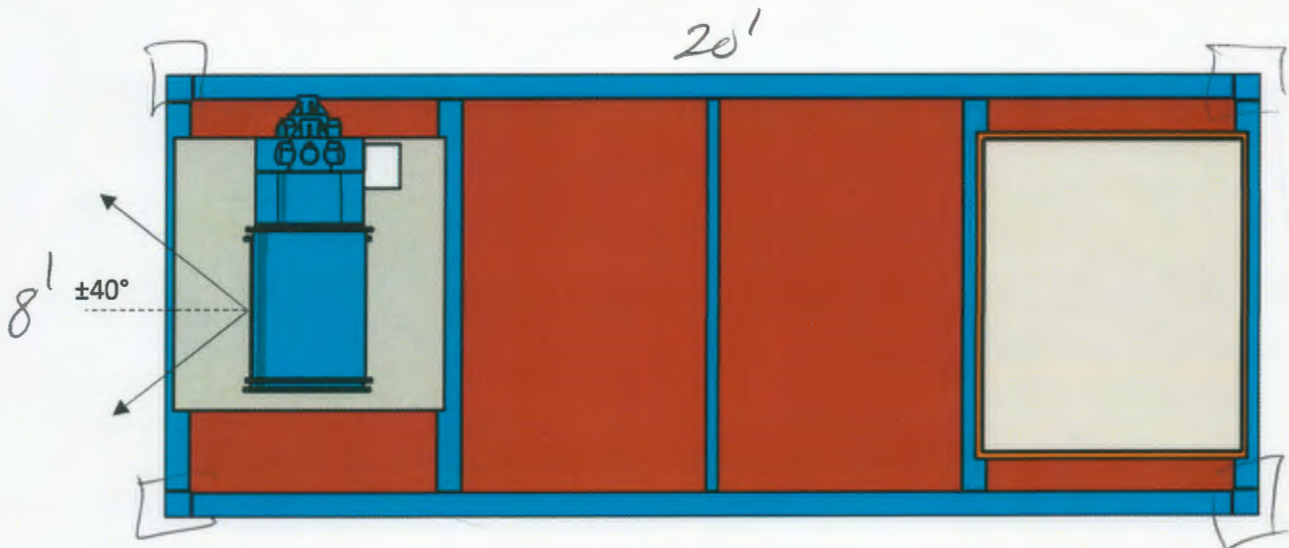
### *Lebus Capstan System*

This document contains information regarding the winch/power pack combination owned by NIOZ, the Royal Netherlands Institute for Sea Research. The standalone winch is used for mooring deployment and recovery. To ensure safe working conditions the user of this system is required to verify through calculation that normal operations will not exceed MPT and that DLT is never exceeded.

#### **System characteristics:**

Empty Weight	8311 kg
Maximum Weight	8311 kg
Maximum Pull/MPT	3000 kg
Maximum Brake Holding Static Load	4750 kg
Maximum Continuous Allowed Structure Load/DLT	8400 kg
Maximum Speed	60 m/min
Power Requirements	3 Phase 480VAC 50/60Hz 125 amp circuit
Dimensions	20 ft. container
	L                      W                      H
	6038 mm      2438 mm      2591 mm

### Free Body Diagram



At DLT

F1 = 700 kg

F2 = 1819 kg

Forces noted are the maximum forces per flat rack mounting at DLT.

Analysis is good for a vertical fleet angle of  $+30^\circ$  and a horizontal fleet angle of  $\pm 40^\circ$ .

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- neon + Lauren  
questions to Leon Verse ✓