



Heavy Lift System Specifications



General

Weight	22,600 lbs
Dimensions	Length: 9.5 ft Width: 9.4 ft Height: 6.0 ft
Power	270 hp diesel
Drum Capacity	36,000 ft
Line Pull	19,000 lbs
Rated Line Speed	0 – 225 ft per minute

Description

The Phoenix diesel hydraulic, heavy lift winch serves two purposes. On salvage operations, it is used to perform direct lifts of objects from the seafloor that have been rigged by the Phoenix remotely operated vehicles (ROVs). The winch is designed for use with the Phoenix motion compensation system, which reduces snap loads during recovery of heavy objects from deep water. Depending on the weight of the object to be recovered, a variety of cable options are available. The system is currently fitted with a 13,450 feet of 0.55 inch diameter Dyneema, a synthetic rope that has a breaking strength of 43,600 lbs. Dyneema is as strong as that of wire of the same thickness, but it is 1/6 the weight of wire and positively buoyant.

This winch can also be used for command and control of Phoenix ROVs on work operations in water depths of 12,000 feet of seawater (fsw) or less. A 0.68 inch diameter fiber optic UNOLS cable is used for this purpose.

The winch and level wind are hydraulically actuated systems powered by a diesel unit sharing a standard 20 feet steel ISO van incorporating spares storage and maintenance area.