

FOOTPRINT

ADAPTABLE: BROAD
OPERATIONAL CAPABILITY

360° HAND ROTATION SIMPLE INSTALLATION & REMOVAL

Overview: Commerical and research operations require winches for hauling and retrieval in marine environments. Their many applications make them valuable, and often necessary pieces of equipment. Currently available marine winches have large on-deck footprints, are difficult to service, are single purpose, require costly task specific fabrications, and are immobile once installed on deck.

Technology: The lightweight WHOI Compact Winch is a small footprint, frameless winch adaptable for a variety of marine applications, designed to address the problems with current winch design. The winch is capable of hauling and supporting heavier loads, all while being lighter than traditional winch designs. The motor assembly is housed within the horizontal cable-storage drum and is easily removed from the drum without dismantling the winch. The level-wind is positioned above the drum as opposed to in front of the drum, reducing wind load pressure, allowing the level-wind to made of lighter materials, and further minimizing the winch footprint. It can be easily fastened to the deck via the portable turntable and rotated freely and effortlessly by hand.





Specifications:

Winch Dimensions:	6' x 4' x 6'
Drum Dimensions:	Core: 26" , Flange: 44" , Length: 72"
Pull:	10,000 lbf continuous bare drum
Speed:	45 m/min bare drum
Motor Size:	30 hp
Cable Size:	Any up to 2"
Power Supply:	3 phase 380-480 VAC FLA 50
Motor Power:	1/2 hp-75 hp (capable of higher hp with multiple motors)
Line Pull:	500 lbf - 20,000

Scaleable To:

Winch Dimensions:	18" cube up to 9' x 5' x 7' +
Drum Dimensions:	Core: 10", Flange: 18", Length:18" up to Core: 48", Flange: 72", Length 96"
Cable Size:	Any
Speed:	30 m/min - 90 m/min

