



**NAUTICAL  
STRUCTURES**  
Marine Engineering and Manufacturing

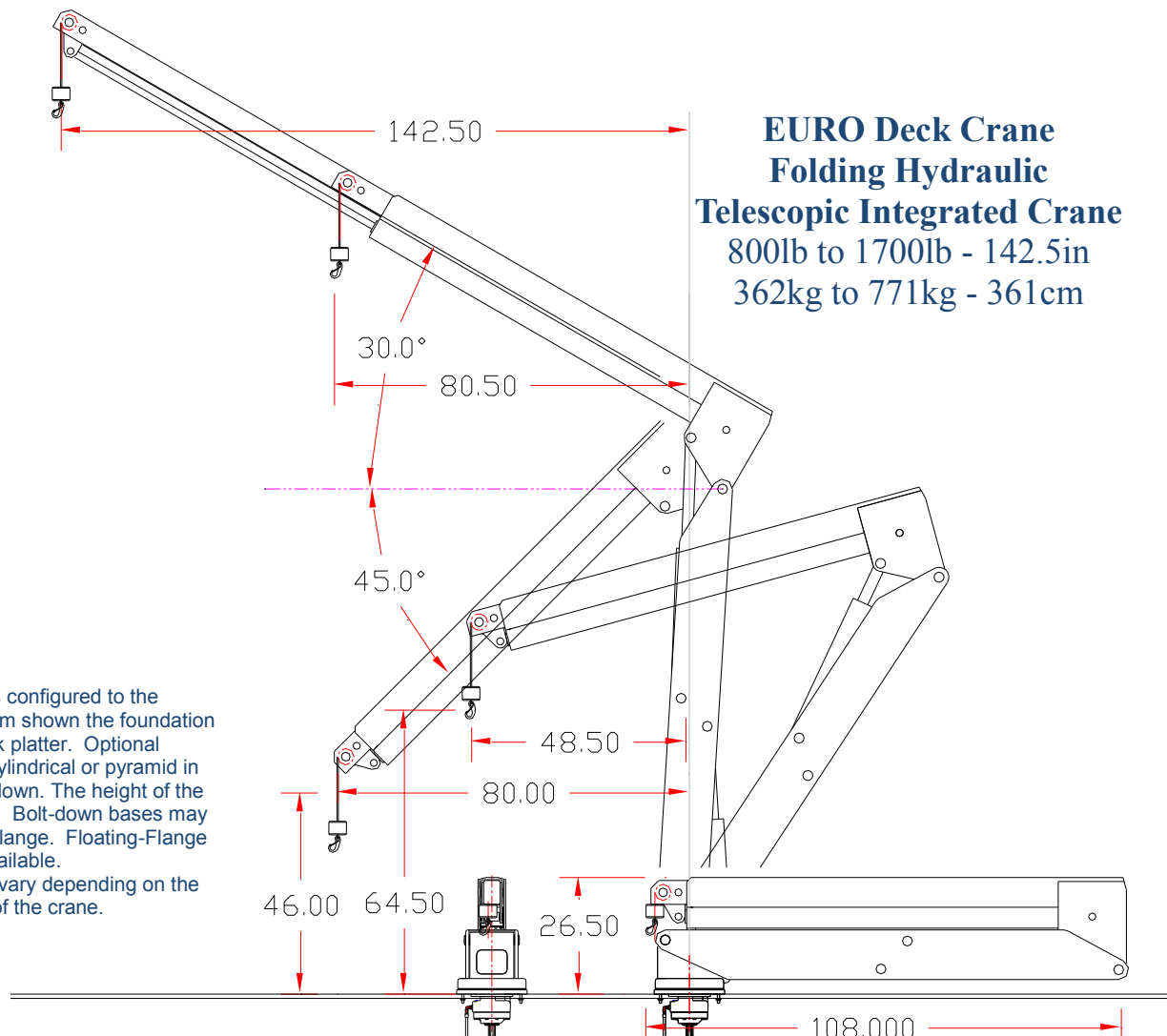
**EURO Deck Crane  
Folding Hydraulic  
Telescopic Integrated Crane**  
800lb to 1700lb - 142.5in  
362kg to 771kg - 361cm



## FOLDING-CRANE INTEGRATED DECK CRANE

The folding crane system represents the innovation and thoughtful design that Nautical Structures brings to the challenge of creative tender-handling solutions. Developed for use on board a luxury sailing yacht, the folding davit's initial requirement was to live in an enclosed space under a deck hatch. Potentially a very wet, humid and corrosive environment for any machinery. The Folding Crane is constructed from aluminum alloy, utilizing composite bushings to eliminate the reaction of dissimilar metals. Our current designs begin at working load capacities of 800lb / 362kg, 1200lb/ 545kg, 1500lb/ 680kg and 4400lb/ 1996kg .Any of these cranes may be special-ordered built to MCA Mega Yacht Code / Classification Society compliance. This specification sheet describes our smaller cranes with lifting capacities of up to fifteen hundred pounds.

The *Folding Crane*'s telescoping aluminum boom is capable of being loaded to its full safe working load capacity in *any* position without restriction. The intelligent engineering inherent in this design allows distributed load-deflection across the boom during moments of dynamic loading, reducing the amount of shock-loading transmitted to the deck. Virtually silent-operating, our *Hydraulic Linear Winch* system, a totally non-fouling winch design reflects the innovative and dependably safe operating characteristics built into the extending boom. This feature adds the additional element of operational safety as the winch travels with the boom during operation of the crane. This prevents any possibility of two-blocking the system causing damage to the cable. The crane features 270° hydraulic power rotation. The crane is remotely operated with a wireless joy-stick operated proportional control provided with an optional-use removable pendant. A bearing platter is the typical mounting structure for the *Folding Crane*, although a pedestal base or a standpipe mount may also be used in some applications. The *Folding davit* is powered by a hydraulic power unit, available in various horsepower configurations depending on the performance characteristics desired. The *Folding Crane* is finished to our highest standards. Depending on the anticipated mounting location, this davit system may be anodized, or finished in a high-quality urethane paint products. Our standard colors are Matterhorn white, Off white and Snow white. All other colors will be special order and quoted upon request. The crane system is assembled and installed onto one of our three dynamic load-testing centers where our quality assurance team dynamic load tests and inspects every crane we produce prior to delivery to the customer. There is a 1-year warranty: including materials and workmanship, electrical, hydraulic and labor. See warranty for details.



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The mounting structure is configured to the application. In the diagram shown the foundation depicted is a weld-in deck platter. Optional pedestal bases may be cylindrical or pyramid in style, bolt-down or weld-down. The height of the pedestal base is variable. Bolt-down bases may have an external bolting flange. Floating-Flange standpipe mounting is available. Standpipe diameters will vary depending on the actual moment capacity of the crane.

MECHANICAL SPECIFICATIONS		ELECTRIC – HYDRAULIC SPECIFICATIONS	
Hydraulic Boom Luffing: -45° to +30° full load capacity.		115/230V AC/60/50/1 .	
Boom articulates 0° to + 89°		Wireless proportional control.	
Aft rotation clearance: 10in / 25cm 270° hydraulic power rotation. 180° and 360° is available.		Motor Supply: 208-230/460V, 39-36/18A, 60/50Hz, 3-Ph 3.5 Hp HPU, 3000 psi / 203 bar, 1.5 gpm / 5 lpm output. 5.0 Hp HPU, 3000 psi / 203 bar, 2.5 gpm / 9 lpm output. 7.5 Hp HPU, 3000 psi / 203 bar, 3.5 gpm /13 lpm output. Fluid type: AW-68, ISO quality 17/15/12	
<i>Hydraulic Linear Winch</i> system. Rigged 6:1 with stainless steel wire rope, stainless steel weight and stainless steel safety snap hook.		RATED CAPACITY	
Cable pay-out: 26ft / 7.92m		FC-880: 880lb / 400kg Up to 12,000 ft/lb FC-1200: 1,200lb / 546kg Up to 16,500 ft/lb FC-1500: 1,500lb / 682kg Up to 18,000 ft/lb FC-4400: 4,400lb / 2000kg Up to 80,000 ft/lb	
Crane weight, FC-880:	Avg. 810lb / 368kg	Other load capacities / moment load capacities are available as a special order project.	
Crane weight, FC-1200:	Avg. 840lb / 382kg		
Crane weight, FC-1500:	Avg. 1050lb / 477kg	12 Month limited warranty. © 2014 - NSI	
Mounting Platter weight:	Avg. 65lb / 30kg		
Standpipe Weight (average):	650lb / 295kg		
Weight, pedestal base (average):	340lb / 155kg		

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