



NAUTICAL STRUCTURES

Marine Engineering and Manufacturing

EZ Deck Crane
Folding Hydraulic
Double Telescopic Crane
2,500 to 20,000lb
1,134 to 9070kg



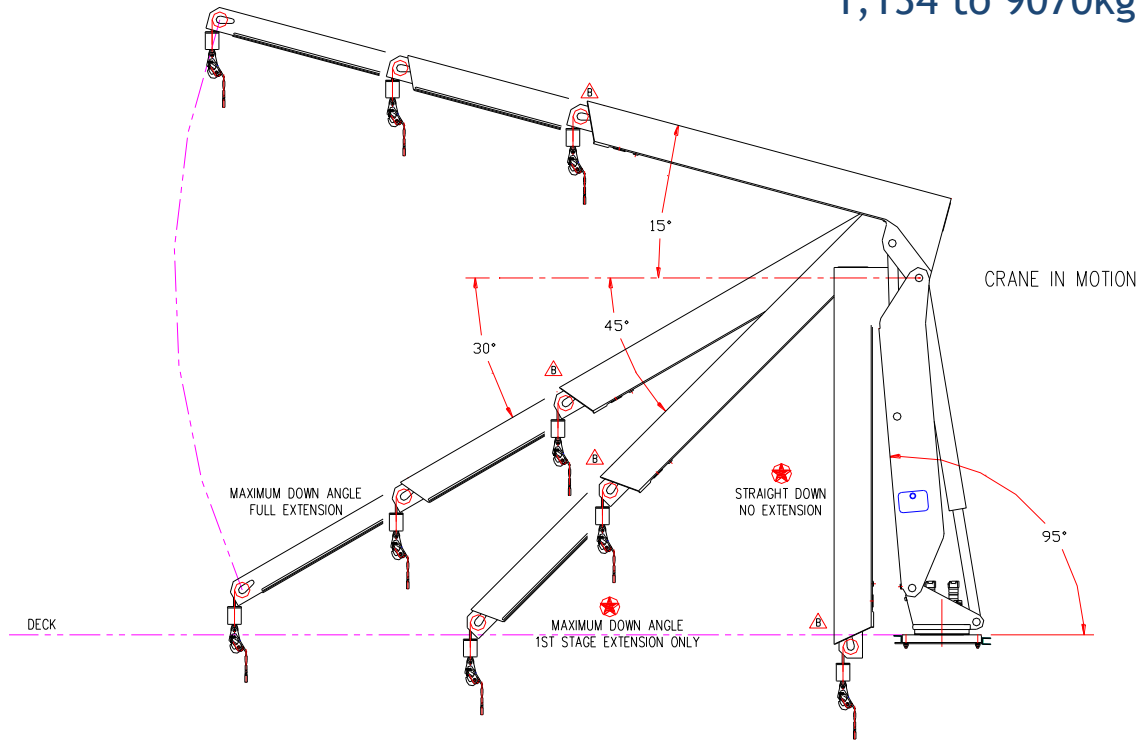
Double Telescopic Folding Deck Crane

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/ 682kg and 4400lb/ 2000kg. 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 Crane* 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 finish. 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. Warranty is 1-Year including materials, electrical, hydraulic and labor. See warranty for details.



EZ Deck Crane Folding Hydraulic Double Telescopic Crane 2,500 to 20,000lb 1,134 to 9070kg



MECHANICAL SPECIFICATIONS

Hydraulic Boom Luffing: -45° to +30° full load capacity.

Boom articulates 0° to + 89°

Aft rotation clearance: 10in / 25cm
270° hydraulic power rotation. 180° and 360° is available.

Hydraulic Linear Winch system. Rigged 6:1 with stainless steel wire rope, stainless steel weight and stainless steel safety snap hook.

Cable pay-out: 26ft / 7.92m

Crane weight, FC-880: Avg. 810lb / 368kg
Crane weight, FC-1200: Avg. 840lb / 382kg
Crane weight, FC-1500: Avg. 1050lb / 477kg
Mounting Platter weight: Avg. 65lb / 30kg

Standpipe Weight (average): 650lb / 295kg
Weight, pedestal base (average): 340lb / 155kg

ELECTRIC – HYDRAULIC SPECIFICATIONS

115/230V AC/60/50/1 .

Wireless proportional control.

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

RATED CAPACITY

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

Other load capacities / moment load capacities are available as a special order project.

12 Month limited warranty.

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