

NOTE: THIS STRUCTURE HAS BEEN DESIGNED FOR LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I, CALCULATED PER FLORIDA BUILDING CODE 8th EDITION, 2023, ASCE/SEI 7-22 AND ADM-2020 BOATS SHALL NOT BE STORED ON LIFTS DURING HIGH WIND EVENTS (GREATER THAN 75 MPH). ALL PRIMARY STRUCTURAL MEMBERS ARE TO BE 6061-T6 ALUMINUM. TRACKS ARE TO BE DRIVEN TO FIRM BEARING MATERIAL AND SHALL BE SPACED HORIZONTALLY WITHIN THE LIMITS OF TRACK SPREAD "E". TRACKS SHALL BE ADEQUATELY BRACED LATERALLY FROM TRACK TO TRACK WHEN DISTANCE BETWEEN THE TRACK MOUNT AND SEA FLOOR IS 9 FT. OR GREATER. LATERAL BRACES SHALL BE SPACED AT NO MORE THAN 8 FEET APART. FOR LIFTS WITH DISTANCE FROM TRACK MOUNT TO SEA FLOOR LESS THAN 9 FEET, LATERAL BRACING IS NOT REQUIRED.

PILE DIAMETER CHART

Boat center of gravity @ center of cradle

Boat center of gravity @ center of cradies									
	Lift Capacity	MAX. "E" Dim.	Recommended Pile Diameters						
	Lb.	Ft.	ln.						
	3, 5, & 7000	10	10						
	10,000	11							
	12,000	11							
	15,000		12						
	17,000	14							
	20,000	'*							
	26,000								

	SUMMANT OF DESIGN FEATURES								20,0			
	A	B	<u>C</u>	D	E	F	G		J	(K)		
LIFT CAPACITY	CRADLE I-BEAM	TRACK I-BEAM	BUNKS	CABLE SIZE	TRACK SPREAD	GUIDE POST HEIGHT	BRGS		WINDER DIA	GEAR RATIO	MOTOR HP/VOLTAGE	INCHES OF LIFT PER MIN.
3,000#	(2) 8 H x .23 5 W x .35 x 8' LG. @ 6.18#/FT	(2) 8 H x .23 5 W x .35 x 25' LG. @ 6.18#/FT	(2) 211 v 211	(2) 5/16" Ø x 30' S.S. 2 PART	7' THRU						(2) 3/4 HP 120V/20A 240V/10A	42" to
5,000# & 7,000#	(2) 8 H x .25 5 W x .41 x 8' LG. @ 7.02#/FT	(2) 8 H x .25 5 W x .41 x 25' LG. @ 7.02#/FT	(2) 2" x 8" x 144"	(2) 5/16"Ø x 30' S.S. 2 PART	10'						5,000# (2) 3/4 HP 7,000# (2) 1 HP	108"
10,000#	(2) 9 H x .27 5.5 W x .44 x 8' LG. @ 8.36#/FT	(2) 9 H x .27 5.5 W x .44 x 25' LG. @ 8.36#/FT		(2) 3/8"Ø x 30' S.S. 2 PART	8' THRU	80"	M		DER		(2) 3/4 HP 120V/20A	21" to 54"
12,000#	(2) 10 H x.25 6 W x .41 x 8' LG. @ 8.65#/FT	(2) 10 H x .25 6 W x .41 x 25' LG. @ 8.65#/FT			11'		EXTRUDED 6061-T6 ALUM		SOLID 3.5" WINDER	350:1	240V/10A	14" to
15,000#	(2) 10 H x.29 6 W x .50 x 8' LG @ 10.3#/FT	(2) 10 H x.29 6 W x .50 x 25' LG @ 10.3#/FT	(2) 3" x 10"	(2) 3/8"Ø x 45' S.S. 3 PART			TRUDED 6		SOLIE			40"
17,000#	(2) 12 H x.29 7 W x .47 x 10' LG. @ 11.7#/FT	(2) 12 H x.29 7 W x .47 x 25' LG. @ 11.7#/FT	x 192"	(2) 3/8"Ø	8' THRU 14'		(4) 2" EX		Ŧ		(2) 1 HP 120V/20A 240V/10A	14" to
20,000#	(2) 12 H x.31 7 W x .62 x 11' LG. @ 14.3#/FT	(2) 12 H x.31 7 W x .62 x 25' LG. @ 14.3#/FT		x 56' S.S. 4 PART		120"						40"
26,000#	(2) 14 H x.30 8 W x .60 x 10' LG. @ 16.0#/FT	(2) 14 H x.30 8 W x .60 x 30' LG. @ 16.0#/FT	(2) 10" x 192"	(2) 7/16"Ø x 60' S.S. 4 PART	10' THRU 14'						(2) 1.5 HP 120V/20A 240V/10A	14" to 28"

SUMMARY OF DESIGN FEATURES