

Lofrans Windlass Project

Item	WWL	Quan	Cost	T Cost	Weight	T Weight	Page no	Quan	Cost	T Cost
Progress I	220	1	625.00	625.00	28	28		1	625.00	625.00
Shipping & handling		1	35.00	35.00	0	0		1	35.00	35.00
Manual override handle?		1	0.00	0.00	0	0		1	0.00	0.00
Windlass on/off switch		1	20.99	20.99	0	0	607	1	20.99	20.99
Circuit breaker, 100a		1	55.00	55.00		0		1	55.00	55.00
Lo amp up&down		2	17.50	35.00	2	4		2	17.50	35.00
Control box		1	50.00	50.00	3	3		1	50.00	50.00
Solenoid		0	174.99	0.00	2	0		0	174.99	0.00
Electrical cable, #2		60	2.44	146.40	0.35	21		70	2.44	170.80
Connectors, #2		11	28.00	308.00		0		11	3.00	33.00
Low amperage wire		12		0.00		0		12		0.00
Small connectors		24		0.00		0		24		0.00
Chain, 5/16HT	3900	200	2.32	464.00	1.09	218		250	2.32	580.00
Mid-link	4000	1	8.49	8.49	1	1	609	1	8.49	8.49
Delta anchor 44#		1	390.00	390.00	44	44		0	390.00	0.00
Chain hook		1	7.02	7.02		0	609	1	7.02	7.02
Jaw & eye swivel	3900	1	14.49	14.49	1	1	609	1	14.49	14.49
Chain stopper		1	80.00	80.00	5	5		1	80.00	80.00
Mooring snubber		1	0.00	0.00		0		1	0.00	0.00
Bolts, 3/8-inch		4		0.00		0				0.00
Hawse pipe		4	18.00	72.00		0		4	18.00	72.00
Covers under switches		2				0				
Boots for control box		3				0				
Delta anchor 35#		0	0.00	0.00	35	0		1	0.00	0.00
				1,630.40		325				1,105.80
Sales tax @8.5				138.58						93.99
Total				1,768.98						1,199.79
Water equivalent gal.						39.0				
Wire size add for #0			3.77	79.80						93.10
Wire size add for #1			2.99	33.00						38.50

Lofrans Windlass Project

T Weight	Item	weight	number	Total
28	Progress II	50	1	50
0	Shipping & handling	0	1	0
0	Manual override handle?	0	1	0
0	Windlass on/off switch	0	1	0
0	Circuit breaker, 100a		1	0
4	Lo amp up&down	2	2	4
3	Control box	3	1	3
0	Solenoid	2	0	0
24.5	Electrical cable, #2	10	0.35	3.5
0	Connectors, #2	11		0
0	Low amperage wire	12		0
0	Small connectors	24		0
272.5	Chain, 1/2 BBB	30	3	90
1	Mid-link	1	1	1
0	CQR anchor 44#	1	44	44
0	Chain hook	1		0
1	Jaw & eye swivel	1	1	1
5	Maxwell chain stopper @ 160 is mu			
0	Mooring snubber	1	0	0
0	Bolts, 3/8-inch	4	0	0
	Hawse pipe	4	0	0
	Covers under switches	2	0	0
	Boots for control box	3	0	0
35	CQR anchor 45#	0	45	0
374.00	3/4 line	200	0.2	40
	NC27	2	64	128
				364.5
44.8				43.7
		65	8.34	542.1

Voltage Loss

Length	Wire Size	Ohms/ 1000ft	Current	Voltage Drop	Percent Drop	Cost per foot	Total Cost	Weight per foot	Weight of run	Fisheries 50' spool	Fisheries per foot
60	2	0.157	83	0.78	6.5	2.44	146.18	0.277	16.62	121.82	2.44
60	1	0.127	83	0.63	5.3	2.99	179.16	0.35	21.00	149.30	2.99
60	0	0.099	83	0.49	4.1	3.77	226.22	0.437	26.22	188.52	3.77
60	00	0.077	83	0.38	3.2	4.71	282.67	0.549	32.94	235.56	4.71
60	000	0.062	83	0.31	2.6						
60	0000	0.049	83	0.24	2.0						
60	2	0.157	115	1.08	9.0						
60	1	0.127	115	0.88	7.3						
60	0	0.099	115	0.68	5.7						
60	00	0.077	115	0.53	4.4						
60	000	0.062	115	0.43	3.6						
60	0000	0.049	115	0.34	2.8						
70	2	0.157	83	0.91	7.6	2.44	170.55				
70	1	0.127	83	0.74	6.1	2.99	209.02				
70	0	0.099	83	0.58	4.8	3.77	263.93				
70	00	0.077	83	0.45	3.7	4.71	329.78				
70	000	0.062	83	0.36	3.0						
70	0000	0.049	83	0.28	2.4						
70	2	0.157	115	1.26	10.5						
70	1	0.127	115	1.02	8.5						
70	0	0.099	115	0.80	6.6						
70	00	0.077	115	0.62	5.2						
70	000	0.062	115	0.50	4.2						
70	0000	0.049	115	0.39	3.3						
Straight line distance - 21-ft 10-in											
Charging voltage = 14 volts											
Chain, 5/16HT, 550-feet = \$1276				2.32	per foot (Fisheries)		(vs 5.55 at West Marine)				

Voltage Loss

[illegible]

Windlass Comparison Chart

Brand	Model	Wattage	Power Rating lbs	Working Load lbs	Ampers @ no load	Ampers @ working load	Retrieval Speed @no load fpm	Retrieval Speed @ Working Load	Load	
Lofrans	Progress I	1000	1385	220	32	115	105	59		
Lewmar	Anchorman 1000	1000	990	110		70		63.3		normal load
Lewmar	Anchorman 1200	1000	1255	220		70		39.4		normal load
Lewmar	Sprint 1000G		1000			60		65		p. 603
Maxwell	VWC 800	1000	800			80-120		65	500	series wound motor
Maxwell	VWC 1200	1200	1200			110-135		70	800	
Lewmar	Sprint 1500	1000	1500	220		75		64		chain in gypsy
Lewmar	Sprint 1500	1000	1700	220		75		64		rope in gypsy

Windlass Comparison Chart

rope in gyps
