

Item	Pounds	CG Height inches	moment
Web Frame 1L 1R, 4R	8.08	3.00	24.25
Flat Bar Frame	4.22	3.00	12.67
Web Frame 1R, 3 & 4 L,	9.83	3.00	29.48
flat Bar Frame	5.47	3.00	16.40
Web frame L2	3.31	3.00	9.92
Flat Bar Frame	2.09	3.00	6.27
base plate 1 &2	3.66	3.00	10.99
plate 3&4	4.36	3.00	13.07
support bottom and mid plate	6.87	3.00	20.60
gen support plate	1.79	3.00	5.37
end plates	4.18	3.00	12.53
6x3x.25 channel	56.32	3.00	168.95
center support pipe lower frame	44.94	3.00	134.82
bottom internal pipe plate	155.72	3.00	467.16
8 in Sch 80 Internal support Pipe	73.88	32.00	2,364.04
Pipe Supports for Nitrogen Cylinder	7.29	0.00	0.00
Center Support flange supports bottom	1.48	7.25	10.69
Center Support Flange supports Top	1.48	57.90	85.44
Nitrogen Support Bottom Ring	2.00	7.00	14.01
Nitrogen Support Upper Ring	1.26	9.50	11.98
Accumulator Supports	0.42	0.00	0.00
Accumulator Ring Support upper	1.61	0.00	0.00
Accumulator Support lower	2.44	0.00	0.00
Grading	3.82	6.38	24.36
Angle Iron frame	8.37	5.75	48.11
Upper flange support shaft	8.07	66.31	535.45
1 " sch 80 pipe cable conduit	13.28	36.72	487.52
Upper sch 80 4 in pipe	10.25	70.13	718.70
Upper sch 80 4 in pipe cap	3.50	74.21	259.74
Upper plate (3/16)	137.43	66.00	9,070.62
upper support Angle (1.5x1.5)	24.08	67.50	1,625.09
upper pulley support plates (2) 3/8 pl	5.20	74.00	384.59
2 cable pulleys	0.80	74.00	59.20
tensioner enclosure	84.73	66.00	5,592.14
enclosure Cap	13.61	72.00	979.92
hydraulic Cylinder	162.26	26.69	4,329.91
hydraulic Cylinder support steel bottom C9X13.4)	11.39	10.50	119.60
Tensioner pulley bottom (2) 8 in dia	5.00	10.50	52.50
Tensioner pulley top (2) 8 in dia	5.00	662.00	3,310.00
Upper pulley support tensioner	5.51	661.00	3,639.59
Accumulator	116.00	36.50	4,234.00
Generator	9.55	8.79	83.94
Nitrogen Bottle 80 cuft	45.00	24.06	1,082.70
3 in sch 80 pipe nitrogen volume chamber	38.75	24.00	930.00
nitrogen bottle regulator	2.00	44.00	88.00
Gearbox	68.00	12.33	838.44
S6X12.5 I beam drum supports	12.48	9.00	112.32
Support Bearing for cable drum (2)	8.00	13.54	108.32
Drum Saft	5.91	13.54	79.99

flat bar for drum support 1 " flat bar	3.58	13.54	48.46
Drum end plates 2 3/8 plate	22.91	13.54	310.16
1 1/4 collars (2)	1.00	13.54	13.54
Drum Flanges (3) 1/4 plate	9.58	13.54	129.67
12' dia sch 40 steel pipe	22.84	13.54	309.24
outer chamber sch 5 steel 48 in pipe \$250/ft	692.23	0.00	0.00
Botom Outer Chamber 1/4 steel plate	128.11	0.00	0.00
outer chamber upper flange	60.70	66.00	4,006.45
Misc pipe and hardware	70.00	33.00	0.00
Weight PTO	1,095.86	28.18	30,881.33
Buoy 2 medium denisty polyurene foam (1.2 lb cu ft)	120.00	22.16	2,659.20
Batteries			
	3,437.47		80,571.46
	center gravity		23.44