

Figure 1-5. Tower Range Diagram (105J398-A)

Table 1-1. Axle Loading Chart (8105N64-B)

DESCRIPTION OR ITEM(S)	TOTAL WEIGHT OR ADJUSTMENT		BOOM OVER FRONT OF CARRIER				BOOM OVER REAR OF CARRIER			
			FRONT TANDEM WEIGHT		REAR TANDEM WEIGHT		FRONT TANDEM WEIGHT		REAR TANDEM WEIGHT	
	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)
Basic Machine including: Hyd. Outriggers Assembly with Four Floats 1400 x 24 - 24 Pr. Tires (12) Upper Gantry - Lowered Roller Circle Bustle Counterweight No Cable Transmission - Upper 75 Gal. Fuel - Upper 15 Gal. Fuel - Lower No Crane Attachment	130,600	59240.2	10112	4586.8	120488	54653.4	58417	26498.0	72183	32742.2
Basic Carrier Including: Hyd. Outrigger Assembly 1400 x 24 - 24 Pr. Tires (12) Without Roller Circle 15 Gal. Fuel Floats (4)	66060	29964.8	22479	10196.5	43581	19768.3	22479	10196.5	43581	19768.3
Basic Carrier Including: Hyd. Outrigger Assembly Less Removable Rear End 1400 x 24 - 24 Pr. Tires (12) Without Roller Circle 15 Gal. Fuel Floats (4)	55900	25356.2	25880	11739.2	30020	13617.1	25880	11739.2	30020	13617.1
Effect of Removing: Bustle Counterweight	-25720	-11666.6	+11071	+5021.8	-36791	-16688.4	-20464	-9282.5	-5256	-2384.1
Outrigger Beams and Horizontal Cylinders - Front (2)	-2920	-1324.5	-1708	-774.7	-1212	-549.8	-1708	-774.7	-1212	-549.8
Outrigger Beams - Front (Manual or Hydraulic Outriggers) (2)	-2558	-1160.3	-1496	-678.6	-1062	-481.7	-1496	-678.6	-1062	-481.7
Outrigger Boxes - Frt (2)	-2200	-997.9	-1287	-583.8	-913	-414.1	-1287	-583.8	-913	-414.1
Outrigger Vertical Cylinder and Trunnions - Frt (2)	-890	-403.7	-520	-235.9	-370	-167.8	-520	-235.9	-370	-167.8
Complete Removable Rear end (Hydraulic Outriggers)	-10160	-4608.6	+3320	+1506.0	-13480	-6114.5	+3320	+1506.0	-13480	-6114.5
Outrigger Beams and Hor- izontal Cylinders - Rear (2)	-2920	-1324.5	+984	+446.3	-3904	-1770.9	+984	+446.3	-3904	-1770.9
Outrigger Beams - Rear Manual or Hydraulic outriggers (2)	-2558	-1160.3	+862	+391.0	-3420	-1551.3	+862	+391.0	-3420	-1551.3
Outrigger Boxes - Rear (2)	-2200	-997.9	+741	+336.1	-2941	-1334.0	+741	+336.1	-2941	-1334.0
Outrigger Vertical Cylin- ders and Trunnions - Rear (2)	-890	-403.7	+230	+104.3	-1190	-539.8	+230	+104.3	-1190	-539.8
Complete Removable Rear End (Manual Outriggers)	-8114	-3680.5	+2726	+1236.5	-10870	-4930.6	+2726	+1236.5	-10870	-4930.6
Roller Circle	-710	-322.1	-130	-59.0	-580	-263.1	-130	-59.0	-580	-263.1
50' Basic Boom Including: 25' Boom Base 25' Boom Tip (5-Sheave) Upper Spreader Boom Backstops Boom Tip Guy Lines (2)	-8205	-3721.8	-13635	-6184.8	+5430	+2463.0	+10638	+4825.4	-18843	-8547.2
25' Boom Tip Including: Guy Lines (2)	-3240	-1469.7	-7628	-3460.1	+4388	+1990.4	+6445	+2923.5	-9685	-4393.1
25' Base Section Including: Upper Spreader Boom Backstops	-4965	-2252.1	-4225	-1916.5	-740	-335.7	+2411	+1093.6	-7376	-3345.8
Miscellaneous Weights: Floats (4)	500	226.8								
Bottom Block - 1 Sheave	810	367.4								
Bottom Block - 2 Sheaves	890	403.7								
Bottom Block - 3 Sheaves	1350	612.4								
Bottom Block - 4 Sheaves	1680	762.0								
Bottom Block - 5 Sheaves	1890	857.3								
Jib Block	480	217.7								
Jib Hook	360	163.3								
Swivel	38	17.2								
Effect of Adding: Hydraulic outriggers in lieu of manual outriggers	+2016	+914.5								
Front Bumper Counterweight	+14,000	+6350.4	+19034	+8633.8	-5034	-2283.4	+19034	+8633.8	-5034	-2283.4
Front Bumper Counterweight	+8000	+3628.8	+10856	+4924.3	-2856	-1295.5	+10856	+4924.3	-2856	-1295.5

*Actual scaled weights from "TRUCK CRANE WEIGHT AND COMPLIANCE TO B30.5-1968 CODE" DATES: 10-01-71, 12-15-73, and 2-06-74

NOTE: THE STRUCTURAL MATERIAL USED TO FABRICATE THIS MODEL HAS A NOMINAL WEIGHT TOLERANCE OF PLUS OR MINUS 3%. THEREFORE, THE WEIGHT DATA PROVIDED SHOULD BE USED FOR REFERENCE ONLY. TO INSURE THAT ANY SPECIFIC CONFIGURATION MEETS LOCAL HIGHWAY REGULATIONS, WE SUGGEST THAT THE CALCULATED WEIGHT DISTRIBUTION BE VERIFIED BY ACTUAL SCALED WEIGHTS.

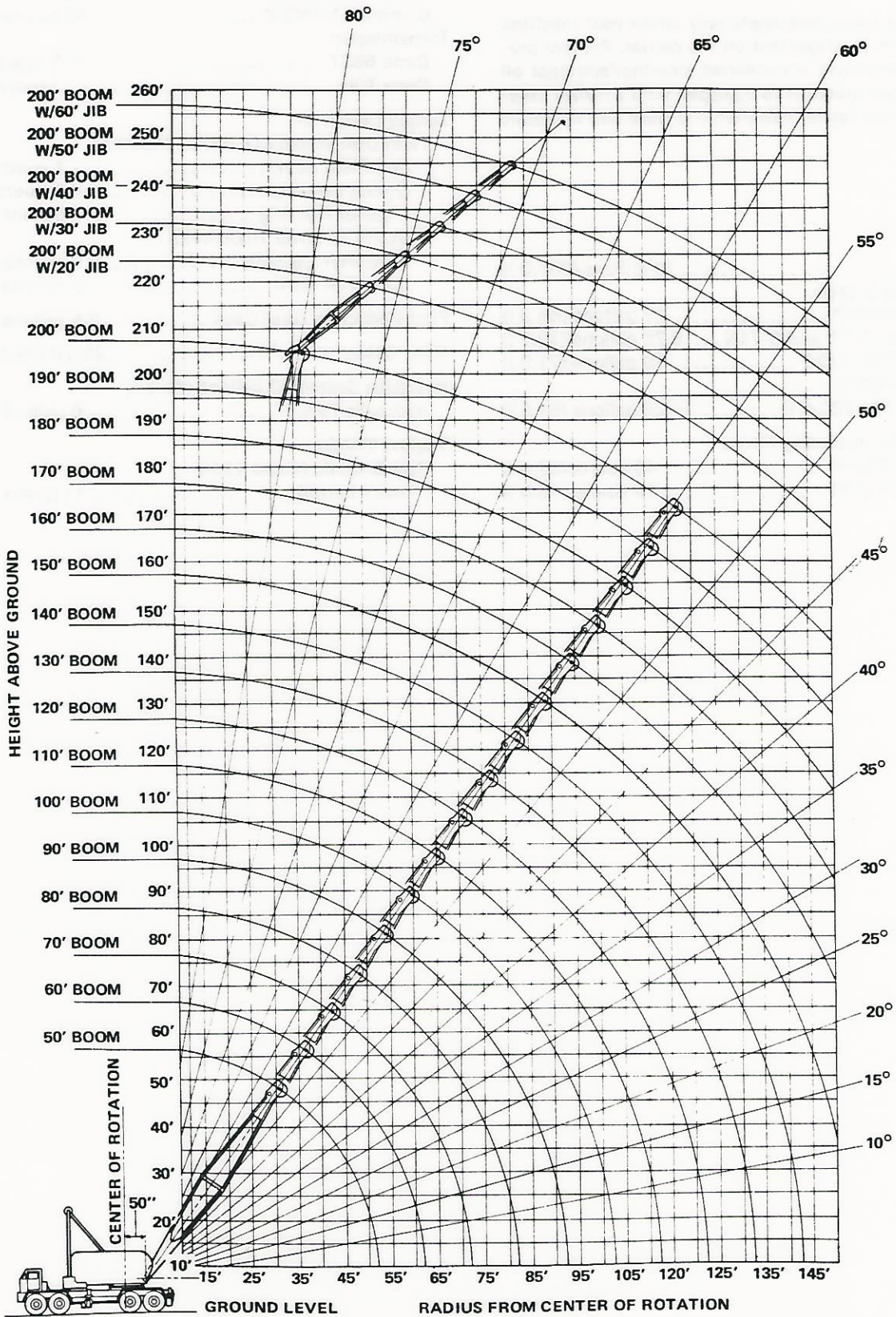


Figure 1-4. Crane Range Diagram (105J381-B)

BOOM LENGTH OPERATING RADIUS "D" IN FEET	50 FT. BOOM		60 FT. BOOM		70 FT. BOOM		80 FT. BOOM	
	"E"	"U"	"E"	"U"	"E"	"U"	"E"	"U"
30	37'-6"	6'-0"	46'-0"	5'-7"	54'-1"	5'-3"	61'-4"	5'-1"
35	34'-3"	7'-11"	45'-11"	6'-2"	54'-11"	5'-10"	63'-8"	5'-4"
40	30'-0"	10'-4"	42'-11"	7'-8"	54'-10"	6'-2"	64'-1"	5'-9"
45	24'-6"	15'-9"	39'-0"	9'-7"	51'-8"	7'-5"	63'-1"	6'-2"
50	16'-8"	19'-11"	34'-1"	12'-0"	47'-11"	9'-1"	60'-3"	7'-3"
55			28'-8"	14'-3"	43'-4"	10'-11"	56'-7"	8'-7"
60			18'-10"	22'-1"	37'-8"	13'-5"	53'-3"	9'-5"
65					30'-8"	16'-11"	47'-2"	12'-1"
70					20'-11"	23'-9"	40'-11"	14'-7"
HEIGHT & WIDTH OF STOCKPILE	"F"	"V"	"F"	"F"	"F"	"V"	"F"	"V"
	28'-9"	61'-5"	35'-10"	75'-5"	42'-11"	89'-8"	50'-0"	103'-10"
RADIUS "G"	41'-3"		48'-4"		55'-5"		62'-6"	
HEIGHT OF CLAM-SHELL BUCKET "T"	12'-1" (2 CU. YD.)							

RANGES FIGURED WITH 2 CU. YD. BUCKET

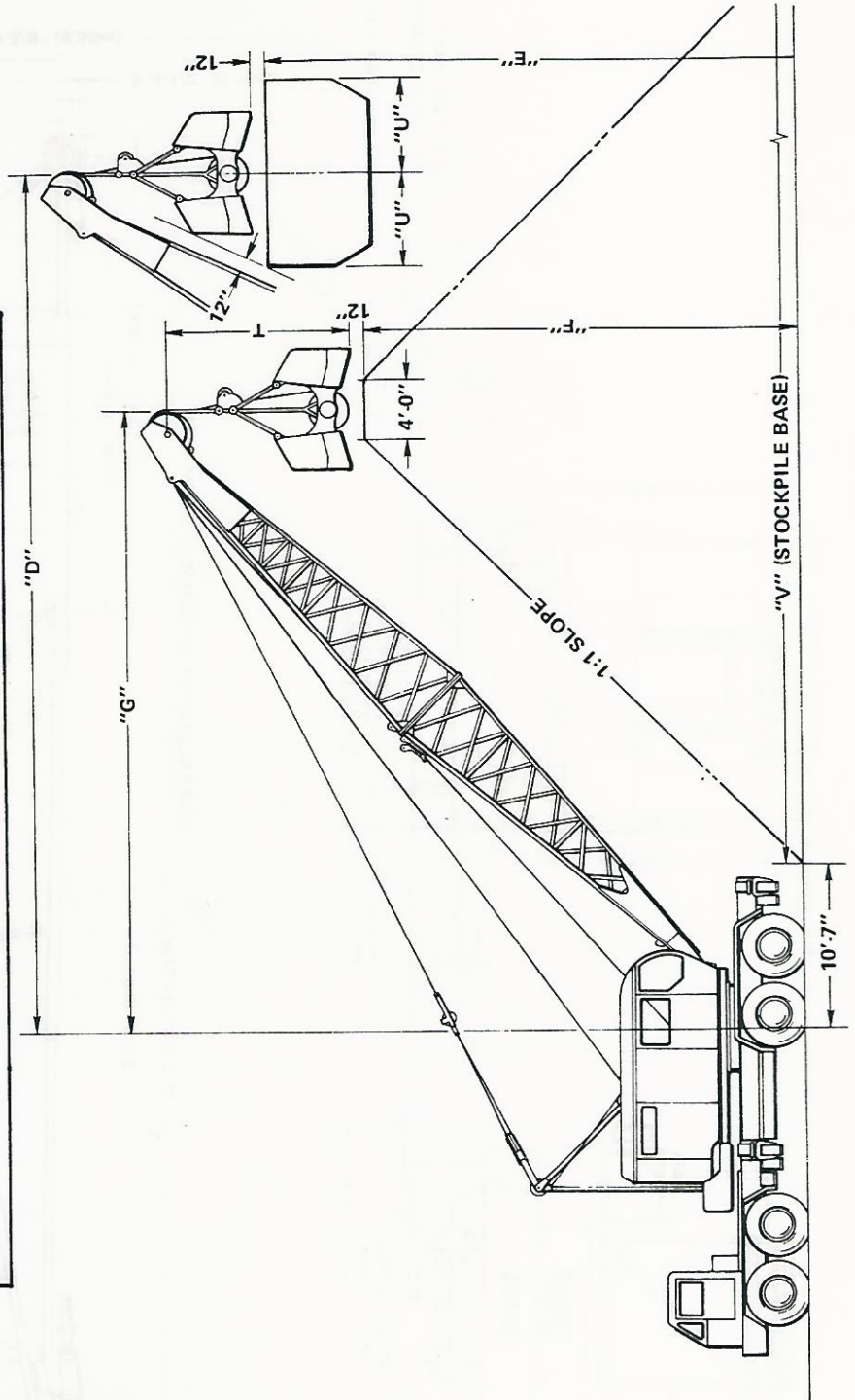


Figure 1-7. Clamshell Range Diagram (105J380)

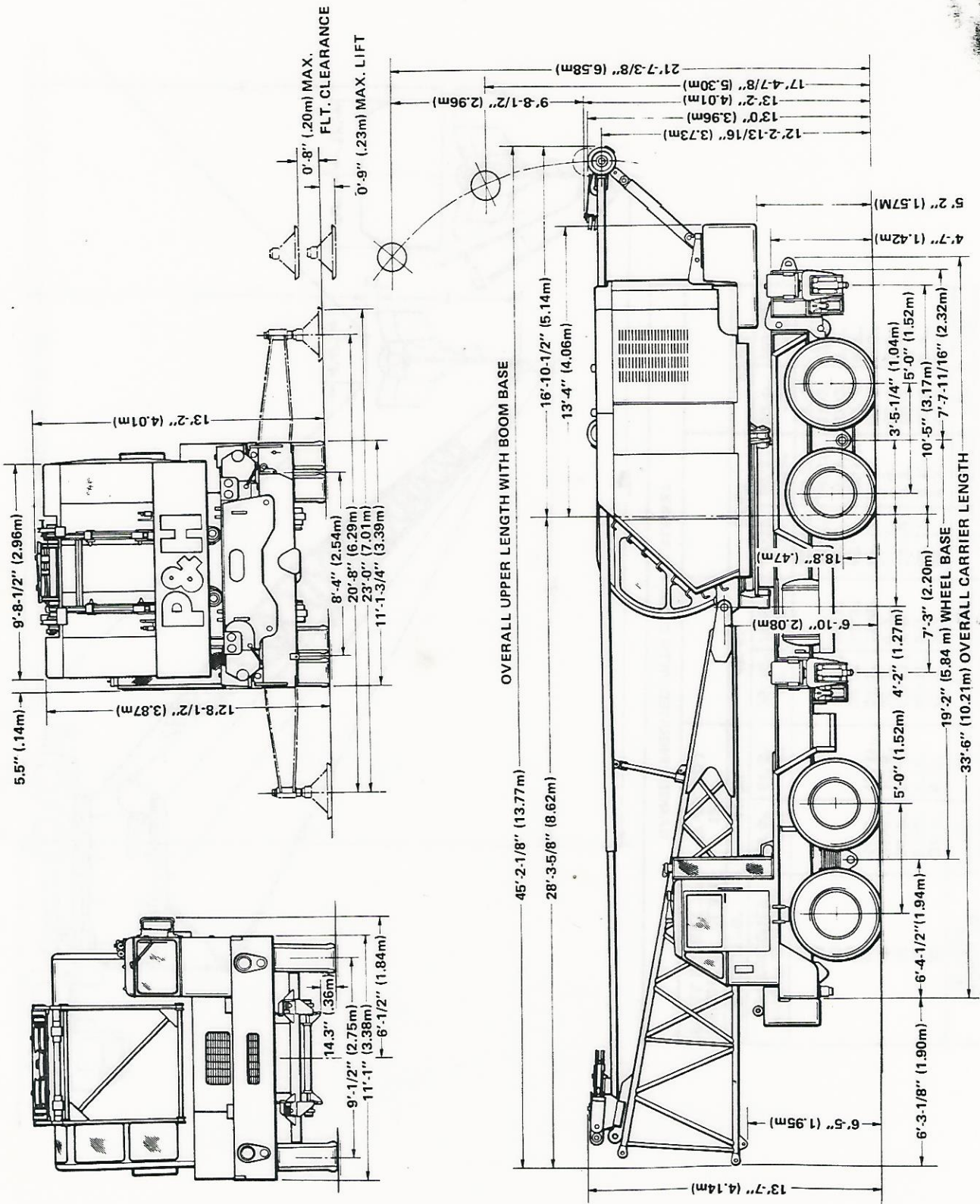


Figure 1-8. General Dimensions (8105J270)