

L3000

Load Capacity By Boom Length



US UNITS: BOOM LENGTH = 80 Feet

REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
8	84.6	400,820	242,314
10	83.3	400,820	242,314
15	79.9	400,820	242,314
20	76.4	400,820	242,314
25	72.9	362,937	219,412
30	69.4	302,448	182,843
35	65.7	259,241	156,723
40	62.0	226,836	137,132
45	58.1	201,632	121,896
50	54.0	181,469	109,706
55	49.7	164,971	99,733
60	45.1	151,224	91,422
65	40.1	139,591	84,389
70	34.6	129,620	78,361
75	28.1	120,979	73,137
80	19.8	113,418	68,566
85	0.4	106,746	64,533

US UNITS: BOOM LENGTH = 100 Feet

REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
15	83.8	400,820	242,314
20	82.2	400,820	242,314
25	79.3	358,900	216,971
30	76.4	334,900	202,462
35	73.4	314,240	189,972
40	70.4	300,336	181,567
45	67.3	264,892	160,139
50	64.2	236,538	142,998
55	60.9	213,338	128,973
60	57.6	194,006	117,285
65	54.1	177,647	107,396
70	50.5	163,626	98,919
75	46.7	151,474	91,573
80	42.6	140,840	85,144
85	38.2	131,458	79,472
90	33.3	123,119	74,431
95	27.6	115,657	69,920
100	20.6	108,941	65,860
105	9.7	102,866	62,187
106.4	0.6	101,254	61,213

US UNITS: BOOM LENGTH = 120 Feet

REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
16	82.7	400,820	242,314
20	80.8	400,820	242,314
25	78.5	396,023	239,414
30	76.2	330,019	199,511
35	73.8	282,873	171,010
40	71.4	247,514	149,634
45	68.9	220,013	133,008
50	66.5	198,011	119,707
55	63.9	180,010	108,824
60	61.3	165,009	99,756
65	58.7	152,316	92,082
70	56.0	141,437	85,505
75	53.2	132,008	79,805
80	50.2	123,757	74,817
85	47.2	116,477	70,416
90	44.0	110,006	66,504
95	40.6	104,216	63,004
100	36.9	99,006	59,853
105	32.9	94,291	57,003
110	28.4	90,005	54,412
115	23.1	86,092	52,046
120	16.3	82,505	49,878
125	1.1	79,205	47,883

US UNITS: BOOM LENGTH = 140 Feet

REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
18	82.9	400,820	242,314
20	82.1	400,820	242,314
25	80.1	360,225	217,772
30	78.1	300,187	181,477
35	76.1	257,304	155,552
40	74.0	225,141	136,108
45	72.0	200,125	120,985
50	69.9	180,112	108,886
55	67.7	163,739	98,987
60	65.6	150,094	90,738
65	63.4	138,548	83,759
70	61.2	128,652	77,776
75	58.9	120,075	72,591
80	56.5	112,570	68,054
85	54.1	105,949	64,051
90	51.7	100,062	60,492
95	49.1	94,796	57,309
100	46.4	90,056	54,443
105	43.6	85,768	51,851
110	40.7	81,869	49,494
115	37.5	78,310	47,342
120	34.2	75,047	45,369
125	30.5	72,045	43,554
130	26.3	69,274	41,879
135	21.4	66,708	40,328
140	15.1	64,326	38,888
145	0.9	62,108	37,547

US UNITS: BOOM LENGTH = 160 Feet

REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
20	83.1	400,820	242,314
25	81.3	352,023	212,814
30	79.6	293,352	177,345
35	77.8	251,445	152,010
40	76.0	220,014	133,009
45	74.2	195,568	118,230
50	72.4	176,011	106,407
55	70.6	160,010	96,733
60	68.7	146,676	88,672
65	66.8	135,393	81,851
70	64.9	125,722	76,005
75	63.0	117,341	70,938
80	61.0	110,007	66,504
85	59.0	103,536	62,592
90	57.0	97,784	59,115
95	54.9	92,638	56,004
100	52.7	88,006	53,203
105	50.5	83,815	50,670
110	48.2	80,005	48,367
115	45.8	76,527	46,264
120	43.4	73,338	44,336
125	40.8	70,405	42,563
130	38.0	67,697	40,926
135	35.1	65,189	39,410
140	32.0	62,861	38,002
145	28.5	60,694	36,692
150	24.6	58,670	35,469
155	20.1	56,778	34,325
160	14.1	55,004	33,252
165	1.1	53,337	32,244

US UNITS: BOOM LENGTH = 180 Feet

REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
22	83.2	363,660	219,849
25	82.3	320,020	193,467
30	80.7	266,684	161,222
35	79.1	228,586	138,191
40	77.6	200,013	120,917
45	76.0	177,789	107,482
50	74.4	160,010	96,733
55	72.7	145,464	87,940
60	71.1	133,342	80,611
65	69.5	123,085	74,410
70	67.8	114,293	69,095
75	66.1	106,673	64,489
80	64.4	100,006	60,458
85	62.7	94,124	56,902
90	60.9	88,895	53,741
95	59.1	84,216	50,912
100	57.3	80,005	48,367
105	55.4	76,195	46,064
110	53.5	72,732	43,970
115	51.6	69,570	42,058
120	49.6	66,671	40,306
125	47.5	64,004	38,693
130	45.4	61,542	37,205
135	43.2	59,263	35,827
140	40.8	57,147	34,548
145	38.4	55,176	33,356
150	35.8	53,337	32,244
155	33.1	51,616	31,204
160	30.1	50,003	30,229
165	26.9	48,488	29,313
170	23.2	47,062	28,451
175	18.9	45,717	27,638
180	13.4	44,447	26,870
185	1.2	43,246	26,144

SI UNITS BOOM LENGTH = 26 Meters

REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
2.4	84.6	182,191	110,143
3.0	83.3	182,191	110,143
4.6	79.9	182,191	110,143
6.1	76.4	182,191	110,143
7.6	72.9	164,971	99,733
9.1	69.4	137,476	83,111
10.7	65.7	117,837	71,238
12.2	62.0	103,107	62,333
13.7	58.1	91,651	55,407
15.2	54.0	82,486	49,866
16.8	49.7	74,987	45,333
18.3	45.1	68,738	41,555
19.8	40.1	63,451	38,359
21.3	34.6	58,918	35,619
22.9	28.1	54,990	33,244
24.4	19.8	51,554	31,166
25.9	0.4	48,521	29,333

SI UNITS BOOM LENGTH = 32 Meters

REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
4.6	83.8	182,191	110,143
6.1	82.2	182,191	110,143
7.6	79.3	163,136	98,623
9.1	76.4	152,227	92,028
10.7	73.4	142,836	86,351
12.2	70.4	136,516	82,530
13.7	67.3	120,405	72,791
15.2	64.2	107,517	64,999
16.8	60.9	96,972	58,624
18.3	57.6	88,185	53,312
19.8	54.1	80,749	48,816
21.3	50.5	74,375	44,963
22.9	46.7	68,852	41,624
24.4	42.6	64,018	38,702
25.9	38.2	59,754	36,124
27.4	33.3	55,963	33,832
29.0	27.6	52,571	31,782
30.5	20.6	49,519	29,936
32.0	9.7	46,757	28,267
32.4	0.6	46,025	27,824

SI UNITS BOOM LENGTH = 38 Meters

REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
4.9	82.7	182,191	110,143
6.1	80.8	182,191	110,143
7.6	78.5	180,010	108,824
9.1	76.2	150,009	90,687
10.7	73.8	128,579	77,732
12.2	71.4	112,506	68,015
13.7	68.9	100,006	60,458
15.2	66.5	90,005	54,412
16.8	63.9	81,823	49,466
18.3	61.3	75,004	45,344
19.8	58.7	69,235	41,856
21.3	56.0	64,289	38,866
22.9	53.2	60,003	36,275
24.4	50.2	56,253	34,008
25.9	47.2	52,944	32,007
27.4	44.0	50,003	30,229
29.0	40.6	47,371	28,638
30.5	36.9	45,003	27,206
32.0	32.9	42,860	25,911
33.5	28.4	40,911	24,733
35.1	23.1	39,133	23,657
36.6	16.3	37,502	22,672
38.1	1.1	36,002	21,765

SI UNITS BOOM LENGTH = 44 Meters

REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
5.5	82.9	182,191	110,143
6.1	82.1	182,191	110,143
7.6	80.1	163,739	98,987
9.1	78.1	136,449	82,490
10.7	76.1	116,956	70,705
12.2	74.0	102,337	61,867
13.7	72.0	90,966	54,993
15.2	69.9	81,869	49,494
16.8	67.7	74,427	44,994
18.3	65.6	68,224	41,245
19.8	63.4	62,976	38,072
21.3	61.2	58,478	35,353
22.9	58.9	54,580	32,996
24.4	56.5	51,168	30,934
25.9	54.1	48,158	29,114
27.4	51.7	45,483	27,497
29.0	49.1	43,089	26,049
30.5	46.4	40,935	24,747
32.0	43.6	38,985	23,568
33.5	40.7	37,213	22,497
35.1	37.5	35,595	21,519
36.6	34.2	34,112	20,622
38.1	30.5	32,748	19,797
39.6	26.3	31,488	19,036
41.2	21.4	30,322	18,331
42.7	15.1	29,239	17,676
44.2	0.9	28,231	17,067

SI UNITS BOOM LENGTH = 50 Meters

REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
6.1	83.1	182,191	110,143
7.6	81.3	160,010	96,733
9.1	79.6	133,342	80,611
10.7	77.8	114,293	69,095
12.2	76.0	100,006	60,458
13.7			