

# L500

## Load Capacity By Boom Length



US UNITS: BOOM LENGTH = 100 Feet			
REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
18	80.9	650,000	392,955
20	79.8	650,000	392,955
25	77.0	640,000	386,909
30	74.3	533,333	322,424
35	71.4	457,143	276,364
40	68.6	400,000	241,818
45	65.7	355,556	214,949
50	62.7	320,000	193,455
55	59.6	290,909	175,868
60	56.4	266,667	161,212
65	53.1	246,154	148,811
70	49.7	228,571	138,182
75	46.0	213,333	128,970
80	42.1	200,000	120,909
85	37.9	188,235	113,797
90	33.3	177,778	107,475
95	27.9	168,421	101,818
100	21.4	160,000	96,727
105	11.6	152,381	92,121
107	0.5	149,533	90,399

US UNITS: BOOM LENGTH = 120 Feet			
REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
25	81.4	536,371	324,261
30	78.9	507,749	306,957
35	76.5	484,228	292,738
40	74.0	440,397	266,240
45	71.5	387,952	234,535
50	69.0	346,116	209,243
55	66.4	311,968	188,599
60	63.8	283,568	171,430
65	61.1	259,581	156,929
70	58.3	239,051	144,517
75	55.5	221,283	133,776
80	52.5	205,757	124,390
85	49.5	192,074	116,118
90	46.2	179,927	108,774
95	42.8	169,071	102,211
100	39.2	159,311	96,311
105	35.2	150,491	90,979
110	30.9	142,484	86,138
115	25.8	135,183	81,724
120	19.7	124,573	75,310
125	10.5	106,991	64,681
127	0.5	90,845	54,920

US UNITS: BOOM LENGTH = 140 Feet			
REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
30	80.5	441,681	267,016
35	78.5	419,222	253,439
40	76.4	400,407	242,064
45	74.3	384,223	232,280
50	72.1	342,469	207,038
55	70.0	308,385	186,433
60	67.8	280,038	169,296
65	65.5	256,092	154,820
70	63.3	235,598	142,429
75	60.9	217,859	131,706
80	58.6	202,358	122,335
85	56.1	188,695	114,075
90	53.6	176,564	106,741
95	51.1	165,723	100,187
100	48.4	155,973	94,293
105	45.6	147,161	88,966
110	42.6	139,160	84,129
115	39.5	131,861	79,716
120	36.2	125,177	75,675
125	32.6	119,036	71,963
130	28.5	113,373	68,539
135	23.9	108,139	65,375
140	18.2	98,408	59,492
145	9.7	85,027	51,403
147	0.5	72,404	43,771

US UNITS: BOOM LENGTH = 160 Feet			
REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
32	81.0	363,156	219,544
35	79.9	351,670	212,600
40	78.1	335,012	202,530
45	76.3	320,811	193,945
50	74.4	308,515	186,511
55	72.5	297,733	179,993
60	70.7	276,653	167,250
65	68.7	254,175	153,660
70	66.8	233,727	141,299
75	64.8	216,026	130,597
80	62.9	200,558	121,247
85	60.8	186,924	113,004
90	58.8	174,816	105,684
95	56.6	163,995	99,142
100	54.5	154,263	93,259
105	52.2	145,468	87,942
110	49.9	137,480	83,113
115	47.5	130,193	78,708
120	45.1	123,519	74,673
125	42.5	117,385	70,965
130	39.8	111,728	67,545
135	36.9	106,495	64,381
140	33.8	101,641	61,447
145	30.4	97,129	58,719
150	26.7	92,921	56,175
155	22.3	87,827	53,095
160	17.0	79,886	48,295
165	9.1	69,325	41,910
167	0.5	59,156	35,763

US UNITS: BOOM LENGTH = 180 Feet			
REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
34	80.1	298,340	180,360
40	78.2	253,589	153,306
45	76.6	225,413	136,272
50	75.0	202,871	122,645
55	73.4	184,428	111,495
60	71.8	169,059	102,204
65	70.2	156,055	94,342
70	68.6	144,908	87,604
75	66.9	135,248	81,763
80	65.2	126,795	76,653
85	63.5	119,336	72,144
90	61.8	112,706	68,136
95	60.0	106,774	64,550
100	58.2	101,436	61,322
105	56.4	96,605	58,402
110	54.5	92,214	55,748
115	52.6	88,205	53,324
120	50.6	84,530	51,102
125	48.6	81,149	49,058
130	46.5	78,027	47,171
135	44.3	75,138	45,424
140	42.0	72,454	43,802
145	39.7	69,956	42,291
150	37.2	67,624	40,882
155	34.5	65,442	39,563
160	31.7	63,397	38,327
165	28.6	61,476	37,165
170	25.1	59,668	36,072
175	21.1	57,963	35,041
180	16.2	56,353	34,068
185	8.9	54,830	33,147
187	0.5	54,244	32,793

SI UNITS BOOM LENGTH = 32 Meters			
REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
5.5	80.9	295,455	178,616
6.1	79.8	295,455	178,616
7.6	77.0	290,909	175,868
9.1	74.3	242,424	146,556
10.7	71.4	207,792	125,620
12.2	68.6	181,818	109,917
13.7	65.7	161,616	97,704
15.2	62.7	145,455	87,934
16.8	59.6	132,231	79,940
18.3	56.4	121,212	73,278
19.8	53.1	111,888	67,641
21.3	49.7	103,896	62,810
22.9	46.0	96,970	58,623
24.4	42.1	90,909	54,959
25.9	37.9	85,561	51,726
27.4	33.3	80,808	48,852
29.0	27.9	76,555	46,281
30.5	21.4	72,727	43,967
32.0	11.6	69,264	41,873
32.6	0.5	67,969	41,091

SI UNITS BOOM LENGTH = 38 Meters			
REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
7.6	81.4	243,805	147,391
9.1	78.9	230,795	139,526
10.7	76.5	220,103	133,063
12.2	74.0	200,181	121,018
13.7	71.5	176,342	106,607
15.2	69.0	157,325	95,110
16.8	66.4	141,804	85,727
18.3	63.8	128,895	77,923
19.8	61.1	117,991	71,331
21.3	58.3	108,659	65,690
22.9	55.5	100,583	60,807
24.4	52.5	93,526	56,541
25.9	49.5	87,307	52,781
27.4	46.2	81,785	49,443
29.0	42.8	76,850	46,460
30.5	39.2	72,414	43,778
32.0	35.2	68,405	41,354
33.5	30.9	64,766	39,154
35.1	25.8	61,447	37,147
36.6	19.7	56,624	34,232
38.1	10.5	48,632	29,401
38.7	0.5	41,293	24,964

SI UNITS BOOM LENGTH = 44 Meters			
REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
9.1	80.5	200,764	121,371
10.7	78.5	190,555	115,199
12.2	76.4	182,003	110,029
13.7	74.3	174,647	105,582
15.2	72.1	155,668	94,108
16.8	70.0	140,175	84,742
18.3	67.8	127,290	76,953
19.8	65.5	116,406	70,373
21.3	63.3	107,090	64,741
22.9	60.9	99,027	59,866
24.4	58.6	91,981	55,607
25.9	56.1	85,771	51,852
27.4	53.6	80,256	48,518
29.0	51.1	75,329	45,540
30.5	48.4	70,897	42,860
32.0	45.6	66,891	40,439
33.5	42.6	63,255	38,240
35.1	39.5	59,937	36,235
36.6	36.2	56,899	34,398
38.1	32.6	54,107	32,710
39.6	28.5	51,533	31,154
41.2	23.9	49,154	29,716
42.7	18.2	44,731	27,042
44.2	9.7	38,649	23,365
44.8	0.5	32,911	19,896

SI UNITS BOOM LENGTH = 50 Meters			
REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
9.8	81.0	165,071	99,793
10.7	79.9	159,850	96,637
12.2	78.1	152,278	92,059
13.7	76.3	145,823	88,157
15.2	74.4	140,234	84,778
16.8	72.5	135,333	81,815
18.3	70.7	125,752	76,023
19.8	68.7	115,534	69,846
21.3	66.8	106,240	64,227
22.9	64.8	98,193	59,362
24.4	62.9	91,163	55,112
25.9	60.8	84,965	51,365
27.4	58.8	79,462	48,038
29.0	56.6	74,543	45,065
30.5	54.5	70,120	42,391
32.0	52.2	66,122	39,974
33.5	49.9	62,491	37,779
35.1	47.5	59,179	35,776
36.6	45.1	56,145	33,942
38.1	42.5	53,357	32,257
39.6	39.8	50,785	30,702
41.2	36.9	48,407	29,264
42.7	33.8	46,201	27,930
44.2	30.4	44,149	26,690
45.7	26.7	42,237	25,534
47.3	22.3	39,921	24,134
48.8	17.0	36,312	21,952
50.3	9.1	31,511	19,050
50.9	0.5	26,889	16,256

SI UNITS BOOM LENGTH = 57 Meters			
REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
10.4	80.1	135,609	81,982
12.2	78.2	115,268	69,685
13.7	76.6	102,460	61,942
15.2	75.0	92,214	55,748
16.8	73.4	83,831	50,680
18.3	71.8	76,845	46,456
19.8	70.2	70,934	42,883
21.3	68.6	65,867	39,820
22.9	66.9	61,476	37,165
24.4	65.2	57,634	34,842
25.9	63.5	54,244	32,793
27.4	61.8	51,230	30,971
29.0	60.0	48,534	29,341
30.5	58.2	46,107	27,874
32.0	56.4	43,912	26,547
33.5	54.5	41,916	25,340
35.1	52.6	40,093	24,238
36.6	50.6	38,423	23,22