

F80 Load Capacity By Boom Length

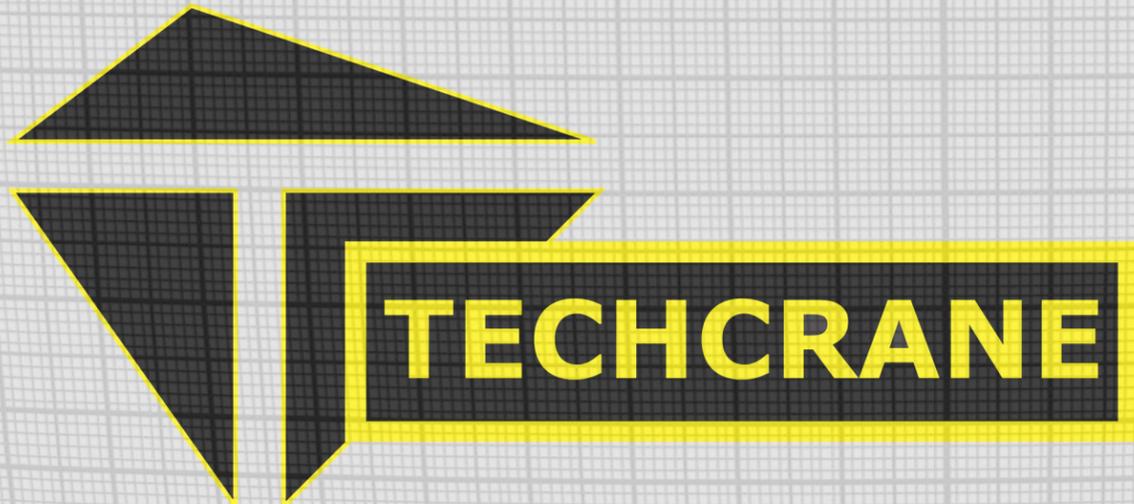


US UNITS: BOOM LENGTH = 40 Feet				US UNITS: BOOM LENGTH = 50 Feet				US UNITS: BOOM LENGTH = 60 Feet				US UNITS: BOOM LENGTH = 70 Feet				US UNITS: BOOM LENGTH = 80 Feet				US UNITS: BOOM LENGTH = 90 Feet				US UNITS: BOOM LENGTH = 100 Feet			
REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs	REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs	REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs	REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs	REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs	REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs	REACH (ft)	ANGLE (deg)	ONBOARD LOAD (STATIC) lbs	OFFBOARD LOAD (DYNAMIC) lbs
5	83.5	110,000	66,500	6	83.5	110,000	66,500	7	83.5	110,000	66,500	8	83.5	110,000	66,500	9.1	83.5	110,000	66,500	10	83.7	110,000	66,500	11.3	83.5	110,000	66,500
10	75.5	110,000	66,500	10	78.5	110,000	66,500	10	80.4	110,000	66,500	10	80.4	110,000	66,500	10	82.8	110,000	66,500	15	80.4	101,430	61,319	15	81.4	93,818	56,717
15	68	107,600	65,049	15	72.5	98,468	59,528	15	75.5	95,380	57,662	15	77.6	99,890	60,388	15	79.3	95,120	57,504	20	77.2	86,148	52,080	20	78.5	77,175	46,656
20	60	85,196	51,505	20	66.4	78,497	47,455	20	70.5	73,686	44,547	20	73.4	88,580	53,551	20	75.5	83,050	50,208	25	73.9	72,988	44,124	25	75.5	62,925	38,041
25	51.3	73,029	44,149	25	60	66,399	40,141	25	65.4	61,606	37,244	25	69.1	72,520	43,842	25	71.8	68,250	41,260	30	70.6	60,513	36,583	30	72.5	52,775	31,905
30	41.4	64,682	39,103	30	53.1	58,231	35,203	30	60	53,489	32,337	30	64.6	69,100	41,774	30	68	58,100	35,124	35	67.1	51,813	31,323	35	69.5	45,525	27,522
35	29	58,249	35,214	35	45.6	52,283	31,607	35	54.3	47,624	28,791	35	60	58,880	35,596	35	64.1	50,825	30,726	40	63.6	45,438	27,469	40	66.4	40,050	24,212
40	0	48,781	29,490	40	36.9	47,652	28,808	40	48.2	43,163	26,094	40	55.2	55,160	33,347	40	60	45,325	27,401	45	60.0	40,550	24,514	45	63.3	35,775	21,628
				45	25.8	43,678	26,405	45	41.4	39,609	23,945	45	50	48,770	29,484	45	55.8	41,025	24,801	50	56.3	36,675	22,172	50	60	32,325	19,542
				50	0	37,013	22,376	50	33.6	36,609	22,132	50	44.4	42,420	25,645	50	51.3	36,150	21,854	55	52.4	32,825	19,844	55	56.6	29,500	17,834
								55	23.6	33,885	20,485	55	38.2	39,670	23,982	55	46.6	31,575	19,089	60	48.2	29,350	17,743	60	53.1	27,125	16,398
								60	0	28,853	17,443	60	31	36,920	22,320	60	41.4	27,775	16,791	65	43.8	26,163	15,816	65	49.5	24,550	14,842
												65	21.8	31,220	18,874	65	35.7	24,550	14,842	70	39.0	23,125	13,980	70	45.6	21,700	13,119
												70	0	27,600	16,685	70	29	21,800	13,179	75	33.6	20,513	12,401	75	41.4	19,225	11,622
																			80	27.3	18,225	11,018	80	36.9	17,050	10,308	
																			85	19.2	16,238	9,816	85	31.8	15,150	9,159	
																			90	0.0	14,220	8,597	90	25.8	13,450	8,131	
																			95	18.2	11,925	7,209	95	18.2	11,925	7,209	
																			100	0	10,575	6,393	100	0	10,575	6,393	

SI UNITS BOOM LENGTH = 12 Meters				SI UNITS BOOM LENGTH = 15 Meters				SI UNITS BOOM LENGTH = 18 Meters				SI UNITS BOOM LENGTH = 21 Meters				SI UNITS BOOM LENGTH = 24 Meters				SI UNITS BOOM LENGTH = 27 Meters				SI UNITS BOOM LENGTH = 30 Meters			
REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg	REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg	REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg	REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg	REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg	REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg	REACH (m)	ANGLE (deg)	ONBOARD LOAD (STATIC) Kg	OFFBOARD LOAD (DYNAMIC) Kg
1.5	83.5	50,000	30,227	1.8	83.5	50,000	30,227	2.1	83.5	50,000	30,227	2.4	83.5	50,000	30,227	2.8	83.5	50,000	30,227	3.0	83.7	50,000	30,227	3.4	83.5	50,000	30,227
3.0	75.5	50,000	30,227	3.0	78.5	50,000	30,227	3.0	80.4	50,000	30,227	3.0	80.4	50,000	30,227	3.0	82.8	50,000	30,227	4.6	80.4	46,105	27,872	4.6	81.4	42,645	25,781
4.6	68	48,909	29,568	4.6	72.5	44,758	27,058	4.6	75.5	43,355	26,210	4.6	77.6	45,405	27,449	4.6	79.3	43,236	26,138	6.1	77.2	39,158	23,673	6.1	78.5	35,080	21,207
6.1	60	38,725	23,411	6.1	66.4	35,680	21,570	6.1	70.5	33,494	20,248	6.1	73.4	40,264	24,341	6.1	75.5	37,750	22,822	7.6	73.9	33,176	20,056	7.6	75.5	28,602	17,291
7.6	51.3	33,195	20,068	7.6	60	30,181	18,246	7.6	65.4	28,003	16,929	7.6	69.1	32,964	19,928	7.6	71.8	31,023	18,755	9.1	70.6	27,506	16,628	9.1	72.5	23,989	14,502
9.1	41.4	29,401	17,774	9.1	53.1	26,469	16,001	9.1	60	24,313	14,698	9.1	64.6	31,409	18,988	9.1	68	26,409	15,965	10.7	67.1	23,551	14,238	10.7	69.5	20,693	12,510
10.7	29	26,477	16,006	10.7	45.6	23,765	14,367	10.7	54.3	21,647	13,087	10.7	60	26,764	16,180	10.7	64.1	23,102	13,966	12.2	63.6	20,653	12,486	12.2	66.4	18,205	11,005
12.2	0	22,173	13,405	12.2	36.9	21,660	13,094	12.2	48.2	19,620	11,861	12.2	55.2	25,073	15,158	12.2	60	20,602	12,455	13.7	60.0	18,432	11,143	13.7	63.3	16,261	9,831
				13.7	25.8	19,854	12,002	13.7	41.4	18,004	10,884	13.7	50	22,168	13,402	13.7	55.8	18,648	11,273	15.2	56.3	16,670	10,078	15.2	60	14,693	8,883
				15.2	0	16,824	10,171	15.2	33.6	16,640	10,060	15.2	44.4	19,282	11,657	15.2	51.3	16,432	9,934	16.8	52.4	14,920	9,020	16.8	56.6	13,409	8,106
								16.8	23.6	15,402	9,311	16.8	38.2	18,032	10,901	16.8	46.6	14,352	8,677	18.3	48.2	13,341	8,065	18.3	53.1	12,330	7,454
								18.3	0	13,115	7,929	18.3	31	16,782	10,145	18.3	41.4	12,625	7,632	19.8	43.8	11,892	7,189	19.8	49.5	11,159	6,746
												19.8	21.8	14,191	8,579	19.8	35.7	11,159	6,746	21.3	39.0	10,511	6,355	21.3	45.6	9,864	5,963
												21.3	0	12,545	7,584	21.3	29	9,909	5,990	22.9	33.6	9,324	5,637	22.9	41.4	8,739	5,283
																			24.4	20.4	8,818	5,331	24.4	36.9	7,750	4,685	
																			25.9	19.2	7,381	4,462	25.9	31.8	6,886	4,163	
																			27.4	0.0	6,464	3,908	27.4	25.8	6,114	3,696	
																							29.0	18.2	5,420	3,277	
																							30.5	0	4,807	2,906	

LOAD CHART CREATOR: DSHAD 12/2018 rev1.0 - Values listed subject to change without notice. - Values reflect structural capacities and may vary with configuration via client specification. Offboard denotes a default CV=2. Sea State Load Charts are available by request and in conjunction with client supplied vessel data.

Designed and Manufactured under the controls set forth



TechCrane Designs Previously Approved By

