

# T120 Load Capacity By Boom Length

MODEL T120-40-70				MODEL T120-56-100				MODEL T120-76-120																			
US UNITS: RETRACTED BOOM LENGTH: 45 (ft)				US UNITS: EXTENDED BOOM LENGTH: 82 (ft)				US UNITS: RETRACTED BOOM LENGTH: 56 (ft)				US UNITS: EXTENDED BOOM LENGTH: 100 (ft)				US UNITS: RETRACTED BOOM LENGTH: 76 (ft)				US UNITS: EXTENDED BOOM LENGTH: 120 (ft)							
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
6.5	81.7	162,000	107,730	12	81.6	162,000	107,730	8	81.8	162,000	107,730	14.5	81.7	162,000	107,730	11	81.7	121,900	81,064	17.5	81.7	136,000	90,440				
10	77.2	162,000	107,730	15	79.5	156,342	103,967	10	79.8	162,000	107,730	15	81.4	162,000	107,730	15	78.7	118,000	78,470	20	80.4	116,559	77,512				
15	70.6	151,890	101,007	20	75.9	139,623	92,849	15	74.5	137,800	91,637	20	78.5	157,037	104,430	20	74.8	101,980	67,817	25	78.0	88,223	58,668				
20	63.6	132,550	88,146	25	72.3	112,367	74,724	20	69.1	107,991	71,814	25	75.6	124,698	82,924	25	70.8	90,423	60,131	30	75.6	70,055	46,586				
25	56.3	100,362	66,740	30	68.6	98,771	65,683	25	63.5	88,040	58,547	30	72.6	108,895	72,415	30	66.8	82,110	54,603	35	73.1	61,177	40,683				
30	48.2	87,162	57,963	35	64.8	88,943	59,147	30	57.6	73,730	49,030	35	69.5	95,594	63,570	35	62.6	71,118	47,293	40	70.6	53,705	35,714				
35	39.0	63,446	42,192	40	60.8	78,624	52,285	35	51.3	62,944	41,858	40	66.5	84,240	56,020	40	58.3	60,508	40,238	45	68.0	47,326	31,472				
40	27.3	56,706	37,710	45	56.7	70,270	46,730	40	44.4	54,510	36,249	45	63.3	74,429	49,495	45	53.7	54,784	36,431	50	65.4	41,814	27,806				
45	0.0	42,765	28,439	50	52.5	63,309	42,100	45	36.5	47,720	31,734	50	60.0	65,861	43,798	50	48.9	50,345	33,480	55	62.8	37,001	24,606				
				55	47.9	57,330	38,124	50	26.8	42,117	28,008	55	56.7	58,327	38,787	55	43.7	47,591	31,648	60	60.0	32,768	21,791				
				60	43.0	52,334	34,802	55	10.8	37,367	24,849	60	53.2	51,647	34,345	60	37.9	38,191	25,397	65	57.2	29,015	19,295				
				65	37.6	47,912	31,861	56	0.0	33,211	22,085	65	49.5	45,655	30,361	65	31.2	30,958	20,587	70	54.3	25,649	17,057				
				70	31.4	44,062	29,301					70	45.6	40,278	26,785	70	22.9	24,211	16,100	75	51.3	22,628	15,048				
				75	23.9	40,704	27,068					75	41.4	35,410	23,547	75	9.3	20,364	13,542	80	48.2	19,893	13,229				
				80	12.7	35,053	23,310					80	36.9	30,991	20,609	80	0.0	17,650	11,737	85	44.9	17,411	11,578				
				82	0.0	32,760	21,785					85	31.8	26,947	17,920	85	0.0			90	41.4	15,139	10,067				
												90	25.9	23,232	15,449	90	0.0			95	37.7	13,052	8,679				
												95	18.2	19,817	13,178	95	0.0			100	33.6	11,133	7,403				
												100	0.0	16,656	11,076	100	0.0			105	29.0	9,357	6,223				
																				110	23.6	7,708	5,126				
																				115	16.6	6,177	4,107				
																				120	0.0	4,746	3,156				

  

SI UNITS RETRACTED BOOM LENGTH = 13.7 Meters				SI UNITS EXTENDED BOOM LENGTH = 25 Meters				SI UNITS RETRACTED BOOM LENGTH = 17 Meters				SI UNITS EXTENDED BOOM LENGTH = 30 Meters				SI UNITS RETRACTED BOOM LENGTH = 23 Meters				SI UNITS EXTENDED BOOM LENGTH = 36 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
2.0	81.7	73,636	48,968	3.7	81.6	73,636	48,968	2.4	81.8	73,636	48,968	4.4	81.7	73,636	48,968	3.4	81.7	55,409	36,847	5.3	81.7	61,818	41,109				
3.0	77.2	73,636	48,968	4.6	79.5	71,064	47,258	3.0	79.8	73,636	48,968	4.6	81.4	73,636	48,968	4.6	78.7	53,636	35,668	6.1	80.4	52,981	35,233				
4.6	70.6	69,041	45,912	6.1	75.9	63,465	42,204	4.6	74.5	62,636	41,653	6.1	78.5	71,381	47,468	6.1	74.8	46,355	30,826	7.6	78.0	40,101	26,667				
6.1	63.6	60,250	40,066	7.6	72.3	51,076	33,956	6.1	69.1	49,087	32,643	7.6	75.6	56,681	37,693	7.6	70.8	41,101	27,332	9.1	75.6	31,843	21,176				
7.6	56.3	45,619	30,337	9.1	68.6	44,896	29,856	7.6	63.5	40,018	26,612	9.1	72.6	49,498	32,916	9.1	66.8	37,323	24,820	10.7	73.1	27,808	18,492				
9.1	48.2	39,619	26,347	10.7	64.8	40,429	26,885	9.1	57.6	33,514	22,287	10.7	69.5	43,452	28,895	10.7	62.6	32,326	21,497	12.2	70.6	24,411	16,233				
10.7	39.0	28,839	19,178	12.2	60.8	35,738	23,766	10.7	51.3	28,611	19,026	12.2	66.5	38,291	25,464	12.2	58.3	27,504	18,290	13.7	68.0	21,512	14,305				
12.2	27.3	25,776	17,141	13.7	56.7	31,941	21,241	12.2	44.4	24,777	16,477	13.7	63.3	33,831	22,498	13.7	53.7	24,902	16,560	15.2	65.4	19,006	12,639				
13.7	0.0	19,439	12,927	15.2	52.5	28,777	19,136	13.7	36.5	21,691	14,424	15.2	60.0	29,937	19,908	15.2	48.9	22,884	15,218	16.8	62.8	16,819	11,184				
				16.8	47.9	26,059	17,329	15.2	26.8	19,144	12,731	16.8	56.7	26,512	17,631	16.8	43.7	21,632	14,385	18.3	60.0	14,895	9,905				
				18.3	43.0	23,788	15,819	16.8	10.8	16,985	11,295	18.3	53.2	23,476	15,611	18.3	37.9	17,360	11,544	19.8	57.2	13,189	8,770				
				19.8	37.6	21,778	14,482	17.1	0.0	15,096	10,039	19.8	49.5	20,752	13,800	19.8	31.2	14,072	9,358	21.3	54.3	11,659	7,753				
				21.3	31.4	20,028	13,319					21.3	45.6	18,308	12,175	21.3	22.9	11,005	7,318	22.9	51.3	10,285	6,840				
				22.9	23.9	18,502	12,304					22.9	41.4	16,095	10,703	22.9	9.3	9,256	6,155	24.4	48.2	9,042	6,013				
				24.4	12.7	15,933	10,596					24.4	36.9	14,087	9,368	24.4	0.0	8,023	5,335	25.9	44.9	7,914	5,263				
				25.0	0.0	14,891	9,902					25.9	31.8	12,248	8,145	25.9	0.0			27.4	41.4	6,881	4,576				
												27.4	25.9	10,560	7,022	27.4	0.0			29.0	37.7	5,933	3,945				
												29.0	18.2	9,008	5,990	29.0	0.0			30.5	33.6	5,060	3,365				
												30.5	0.0	7,571	5,035	30.5	0.0			32.0	29.0	4,253	2,829				
																				33.5	23.6	3,504	2,330				
																				35.1	16.6	2,808	1,867				
																				36.6	0.0	2,157	1,435				

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**

Techcrane Designs Previously Approved By

