

T120-58-100
Nominal Rating: 60 Tons Maximum Lifting Capacity
Rev 2.0
Rev Date: 12/10/2015
Author: R. Fitzgerald

FULLY RETRACTED

IMPERIAL UNITS

Reach (ft)	Boom Angle (Deg)	Onboard Load (Lbs)	Offboard Load (Lbs)
5.7	84.4	120,000	90,450
10.0	80.1	120,000	90,450
15.0	75.0	120,000	90,450
20.0	69.8	120,000	90,450
25.0	64.5	120,000	81,225
30.0	58.9	103,875	69,075
35.0	52.9	90,575	60,225
40.0	46.4	78,950	52,500
45.0	39.1	66,400	44,150
50.0	30.4	56,375	37,475
55.0	18.5	48,175	32,025
58.0	0.0	43,925	29,200

METRIC UNITS

Reach (m)	Boom Angle (Deg)	Onboard Load (Kgs)	Offboard Load (Kgs)
1.73	84.4	54,430	41,020
3.05	80.1	54,430	41,020
4.57	75.0	54,430	41,020
6.10	69.8	54,430	41,020
7.62	64.5	54,430	36,840
9.14	58.9	47,110	31,330
10.67	52.9	41,080	27,310
12.19	46.4	35,810	23,810
13.72	39.1	30,110	20,020
15.24	30.4	25,570	16,990
16.76	18.5	21,850	14,520
17.68	0.0	19,920	13,240

API Maximum Overturning Moment (ft-lbs.)	7,659,515	API Maximum Overturning Moment (tonne-meter)	1,058.97
Corresponding Axial Force (lbs.)	265,340	Corresponding Axial Force (kgs.)	120,356
Maximum Axial Force (lbs.)	379,570	Maximum Axial Force (kgs.)	172,170
Corresponding Moment (ft-lbs.)	6,113,220	Corresponding Moment (tonne-meter)	845.18
Basic Crane Weight (lbs.)	107,500	Basic Crane Weight (kgs.)	48,760
Center of Gravity (ft)	18.12	Center of Gravity (m)	5.52

FULLY EXTENDED

IMPERIAL UNITS

Reach (ft)	Boom Angle (Deg)	Onboard Load (Lbs)	Offboard Load (Lbs)
9.8	84.4	120,000	90,450
10.0	84.3	120,000	90,450
15.0	81.4	120,000	90,450
20.0	78.5	120,000	90,450
25.0	75.5	108,925	72,425
30.0	72.5	90,750	60,350
35.0	69.5	77,700	51,675
40.0	66.4	67,875	45,125
45.0	63.3	60,175	40,000
50.0	60.0	53,950	35,875
55.0	56.6	48,825	32,450
60.0	53.1	44,475	29,575
65.0	49.5	40,775	27,100
70.0	45.6	36,350	24,175
75.0	41.4	31,950	21,250
80.0	36.9	28,125	18,700
85.0	31.8	24,750	16,450
90.0	25.8	21,725	14,450
95.0	18.2	19,050	12,650
100.0	0.0	16,625	11,050

METRIC UNITS

Reach (m)	Boom Angle (Deg)	Onboard Load (Kgs)	Offboard Load (Kgs)
2.98	84.4	54,430	41,020
3.05	84.3	54,430	41,020
4.57	81.4	54,430	41,020
6.10	78.5	54,430	41,020
7.62	75.5	49,400	32,850
9.14	72.5	41,160	27,370
10.67	69.5	35,240	23,430
12.19	66.4	30,780	20,460
13.72	63.3	27,290	18,140
15.24	60.0	24,470	16,270
16.76	56.6	22,140	14,710
18.29	53.1	20,170	13,410
19.81	49.5	18,490	12,290
21.34	45.6	16,480	10,960
22.86	41.4	14,490	9,630
24.38	36.9	12,750	8,480
25.91	31.8	11,220	7,460
27.43	25.8	9,850	6,550
28.96	18.2	8,640	5,730
30.48	0.0	7,540	5,010

API Maximum Overturning Moment (ft-lbs.)	7,191,595	API Maximum Overturning Moment (tonne-meter)	994.27
Corresponding Axial Force (lbs.)	189,040	Corresponding Axial Force (kgs.)	85,750
Maximum Axial Force (lbs.)	379,570	Maximum Axial Force (kgs.)	172,170
Corresponding Moment (ft-lbs.)	6,023,370	Corresponding Moment (tonne-meter)	832.76
Basic Crane Weight (lbs.)	107,500	Basic Crane Weight (kgs.)	48,760
Center of Gravity (ft)	27.06	Center of Gravity (m)	8.25

The published load chart generated in accordance with Legacy Dynamic Method per API 2C 7th Edition. The load ratings may vary due to the number of part line, line pull, and environmental conditions, etc. The information provided in this document is intended for informational purposes only and is subject to change without notice.