

**T7-19-31**  
**Nominal Rating: 3 Tons Maximum Lifting Capacity**  
**Rev 2.0**  
**Rev Date: 12/11/2015**  
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**FULLY RETRACTED**

**IMPERIAL UNITS**

Reach (ft)	Boom Angle (Deg)	Onboard Load (Lbs)	Offboard Load (Lbs)
3.1	80.7	7,000	7,000
5.0	74.8	7,000	7,000
10.0	58.3	7,000	7,000
15.0	37.9	7,000	4,770
19.0	0.0	5,340	3,550

**METRIC UNITS**

Reach (m)	Boom Angle (Deg)	Onboard Load (Kgs)	Offboard Load (Kgs)
0.94	80.7	3,175	3,175
1.52	74.8	3,175	3,175
3.05	58.3	3,175	3,175
4.57	37.9	3,175	2,160
5.80	0.0	2,420	1,610

API Maximum Overturning Moment (ft-lbs.)	245,600	API Maximum Overturning Moment (tonne-meter)	33.96
Corresponding Axial Force (lbs.)	29,980	Corresponding Axial Force (kgs.)	13,600
Maximum Axial Force (lbs.)	35,855	Maximum Axial Force (kgs.)	16,265
Corresponding Moment (ft-lbs.)	152,170	Corresponding Moment (tonne-meter)	21.04
Basic Crane Weight (lbs.)	7,000	Basic Crane Weight (kgs.)	3,175
Center of Gravity (ft)	4.20	Center of Gravity (m)	1.28

**FULLY EXTENDED**

**IMPERIAL UNITS**

Reach (ft)	Boom Angle (Deg)	Onboard Load (Lbs)	Offboard Load (Lbs)
5.0	80.7	7,000	7,000
10.0	71.0	7,000	5,340
15.0	60.7	6,040	4,020
20.0	49.3	4,840	3,220
25.0	35.4	3,870	2,570
30.0	12.2	3,230	2,140
30.7	0.0	3,150	2,100

**METRIC UNITS**

Reach (m)	Boom Angle (Deg)	Onboard Load (Kgs)	Offboard Load (Kgs)
1.51	80.7	3,175	3,175
3.05	71.0	3,175	2,420
4.57	60.7	2,740	1,820
6.10	49.3	2,195	1,460
7.62	35.4	1,755	1,165
9.14	12.2	1,465	970
9.35	0.0	1,425	950

API Maximum Overturning Moment (ft-lbs.)	228,700	API Maximum Overturning Moment (tonne-meter)	31.62
Corresponding Axial Force (lbs.)	14,700	Corresponding Axial Force (kgs.)	6,670
Maximum Axial Force (lbs.)	30,650	Maximum Axial Force (kgs.)	13,900
Corresponding Moment (ft-lbs.)	124,175	Corresponding Moment (tonne-meter)	17.17
Basic Crane Weight (lbs.)	7,000	Basic Crane Weight (kgs.)	3,175
Center of Gravity (ft)	6.17	Center of Gravity (m)	1.88

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.