



## STRUCTURAL LOAD CAPACITY CHART

30 FOOT BOOM (FULLY RETRACTED)				50 FOOT BOOM (EXTENDED)			
RADIUS (FT.)	BOOM ANGLE (DEG.)	STATIC RATED LOAD (LBS)	DYNAMIC RATED LOAD (LBS)	RADIUS (FT.)	BOOM ANGLE (DEG.)	STATIC RATED LOAD (LBS)	DYNAMIC RATED LOAD (LBS)
10	71	29,200	20,000	10	78	29,200	20,000
20	48	22,600	14,933	20	66	18,600	12,267
25	34	18,600	12,267	30	53	13,600	8933
30	0	12,100	7,933	40	37	9,600	6257
				45	26	7850	5100
				50	0	5100	3267

Notes:

1. Main Hoist capacities are based on 4 part revving of 9/16” Diameter, DyForm18HSLRWR rope (Breaking Strength = 37,000 lbs.) 393ft. of rope is required
2. Sheave Efficiency is included
3. All ratings in accordance with API specification 2c (Spec2c) Fifth Edition, April 3, 1999 or Dynamic coefficient (cb) of 2.0 is used.
4. The above ratings are considered “net ratings” as the Load Block weight of 400 lbs. has already been deducted.
5. The above capacities are based on published data from the original equipment manufacturer.



43 FT. FULLY RETRACTED						53 FT. EXTENDED					
REACH (FT.)	BOOM ANGLE (DEG.)	LOAD LINE (lbs.)		FAST LINE (lbs.)		REACH (FT.)	BOOM ANGLE (DEG.)	LOAD LINE (lbs.)		FAST LINE (lbs.)	
		DYNAMIC LOAD	STATIC LOAD	DYNAMIC LOAD	STATIC LOAD			DYNAMIC LOAD	STATIC LOAD	DYNAMIC LOAD	STATIC LOAD
10	76	48940	66110	4890	4890	10	79	26070	39810	4890	4890
15	69	31990	48690	4890	4890	15	73	26070	39810	4890	4890
20	62	23700	36250	4890	4890	20	68	24020	36740	4890	4890
25	54	18330	28210	4890	4890	25	62	18570	28570	4890	4890
30	45	14740	22820	4890	4890	30	56	15130	23400	4890	4890
35	35	12330	19200	4890	4890	35	49	12470	19410	4890	4890
40	21	10460	16400	4890	4890	40	42	10670	16710	4890	4890
43	1	9590	15090	4890	4890	45	32	8990	14200	4890	4890
						50	20	7830	12460	4890	4890
						53	1	7180	11480	4890	4890

**API PEDESTAL REACTIONS**

MAXIMUM OTM = 2,743,707 FT. LBS.

CORRESPONDING AXIAL FORCE = 94,164

LBS.

MAXIMUM AXIAL FORCE = 202,437 LBS.

CORRESPONDING OTM = 1,870,871 FT. LBS.

BASIC CRANE WEIGHT = 37,500 LBS.

(REACTIONS @ 3 X DYNAMIC RATED LOAD)

(OTM = OVERTURNING MOMENT)

IN ACCORDANCE WITH API-2C, VALUES SHOWN ARE ACTUAL HOOK LOADS (WEIGHT OF BLOCK AND HOOK EXCLUDED).

LOAD LINE BLOCK WEIGHT IS 1300 LBS.

LOAD LINE (4 PART LINE): 1" 6x25 EIPS IWRC; 100,000 LB. BREAKING STRENGTH; 20,000 LB. WORKING STRENGTH.

FAST LINE BLOCK IS 110 LBS.

FAST LINE (1 PART LINE): 9/16" 19x7 EIPS IWRC; 25,000 LB. BREAKING STRENGTH; 5000 LB. WORKING STRENGTH.

STATIC LOAD = 1.5 x DYNAMIC LOAD

PEDESTAL REACTIONS ARE BASED ON THREE TIMES THE DYNAMIC LOAD PLUS DEAD LOAD



63 FT. RETRACTED						73 FT. EXTENDED					
REACH (FT.)	BOOM ANGLE (DEG.)	LOAD LINE (lbs.)		FAST LINE (lbs.)		REACH (FT.)	BOOM ANGLE (DEG.)	LOAD LINE (lbs.)		FAST LINE (lbs.)	
		DYNAMIC LOAD	STATIC LOAD	DYNAMIC LOAD	STATIC LOAD			DYNAMIC LOAD	STATIC LOAD	DYNAMIC LOAD	STATIC LOAD
10	81	26070	38910	4890	4890	10	82	26070	39900	4890	4890
15	76	26070	39810	4890	4890	15	78	26070	39900	4890	4890
20	71	23260	34310	4890	4890	20	74	22690	33590	4890	4890
25	67	18900	28920	4890	4890	25	70	18660	27200	4890	4890
30	62	15250	23580	4890	4890	30	66	15240	22870	4890	4890
35	56	12340	19220	4890	4890	35	61	12330	19120	4890	4890
40	51	10650	16680	4890	4890	40	57	10660	16700	4890	4890
45	45	9160	14450	4890	4890	45	52	9110	14370	4890	4890
50	38	7930	12600	4890	4890	50	47	7950	12630	4890	4890
55	30	6960	11140	4890	4890	55	41	6910	11070	4890	4890
60	18	6070	9820	4890	4890	60	35	6140	9920	4890	4890
63	1	5630	9160	4890	4890	65	27	5420	8830	4890	4890
						70	17	4850	7980	4890	4890
						73	1	4510	6880	4890	4890

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 CORRESPONDING AXIAL FORCE = 94,164 LBS.  
 MAXIMUM AXIAL FORCE = 202,437 LBS.  
 CORRESPONDING OTM = 1,870,871 FT. LBS.  
 BASIC CRANE WEIGHT = 37,500 LBS.  
 (REACTIONS @ 3 X DYNAMIC RATED LOAD)  
 (OTM = OVERTURNING MOMENT)

IN ACCORDANCE WITH API-2C, VALUES SHOWN ARE ACTUAL HOOK LOADS (WEIGHT OF BLOCK AND HOOK EXCLUDED).  
 LOAD LINE BLOCK WEIGHT IS 1300 LBS.  
 LOAD LINE (4 PART LINE): 1" 6x25 EIPS IWRC; 100,000 LB. BREAKING STRENGTH; 20,000 LB. WORKING ST RENGTH.  
 FAST LINE BLOCK IS 110 LBS.  
 FAST LINE (1 PART LINE): 9/16" 19x7 EIPS IWRC; 25,000 LB. BREAKING STRENGTH; 5000 LB. WORKING STRENGTH.  
 STATIC LOAD = 1.5 x DYNAMIC LOAD  
 PEDESTAL REACTIONS ARE BASED ON THREE TIMES THE DYNAMIC LOAD PLUS DEAD LOAD