

# TRUCK CRANES T 780

DATA SHEET - IMPERIAL

# T 780



- ▶ 80 T Maximum Lifting Capacity
- ▶ 126 ft Maximum Boom Length
- ▶ 133 ft Maximum Tip Height
- ▶ Engine Configurations up to 500 hp
- Automatic and Manual Transmission Options
- Air-ride Suspension
- Travel Speeds up to 65 mph

**WORKS FOR YOU.** 

# **CONTENTS**

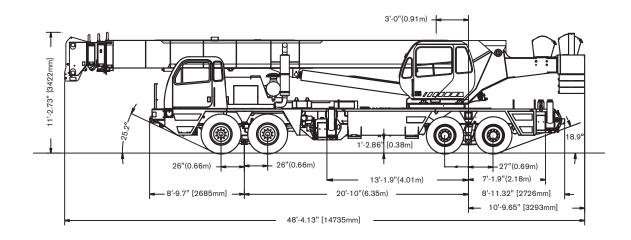
	Б
	Page:
Key	3
Dimensions Crane Dimensions and Boom Transport Dolly Dimensions. Specifications Specifications with Dolly and Boom Over Rear. Range Diagram.	4 5 6 7
Load Charts  15,000 lb Counterweight  11,000 lb Counterweight  7,000 lb Counterweight  5,000 lb Counterweight	8 11 13 16
Technical Descriptions  Hydraulics Upper Operator Cab Boom Controls Counterweight Hoists and Rope Engine and Transmission Lower Operator Cab Chassis and Related Components Boom and Components	18 18 18 19 19 19 20 20
Notes	21

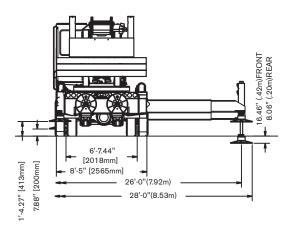




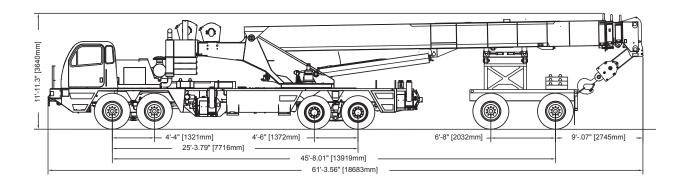
	Counterweight		Main boom with auxiliary head / rooster sheave
	Lifting capacity on outriggers	2	Auxiliary hoist
	Radius		Hook and ball
1/8	Main boom	(( <sup>+</sup> )	Swing brake
	Maximum axle loads	<u> </u>	Heating and air conditioning
0	Tires		Crane in standard configuration
	Hook block		Load limiter / safety devices
1	Main hoist		Engine
<u></u>	Travel speed	- +	Electrical system
	Gradeability – road	( <b>j</b>	Transmission
(w)	Swing	t	Rated weight on hook block
	Boom telescoping		Boom over the rear
Б	Maximum line pull	1-1	Steering
	Rope diameter	HYDR	Hydraulics
	Rope length		Hook block (capacity-sheaves-rope diameter)

# **CRANE DIMENSIONS**





# **BOOM TRANSPORT DOLLY DIMENSIONS**





# **SPECIFICATIONS**

# Weight And Axle Load Chart: Boom In Front Travel Position

Icon	Configuration	Front Axle Load 48,000 Lbs Max	Rear Axle Load 60,000 Lbs Max	Gross Vehicle Weight
	Crane with 1/4 tank fuel 200 lb Operator seated in cab Front Tires: 445/65 20PR Rear Tires: 315/80 22.5 20PR 126 ft Boom/No Jib 2850 lb rear counterweight	36,781	44,474	81,255
	Counterweight Additions:			
	2,000 lb semi-permanent rear & 1,000 lb front bumper	+ 647	+ 2,374	+ 3,020
	2,000 lb removable on rear	- (904)	+ 2,904	+ 2,000
	4,000 lb removable on rear	- (1,807)	+ 5,807	+ 4,000
	2,000 lb removable on carrier deck	+ 1,485	+ 515	+ 2,000
	4,000 lb removable on carrier deck	+ 2,969	+ 1,031	+ 4,000
	Other Additions:			
	Full Tank of Fuel	+ 244	+ 301	+ 545
2	Auxiliary hoist w/drum roller and 600 ft of 16x9 class wire rope	- (18)	+ 102	+ 84
	Spin resistant wire rope – main hoist	- (31)	+ 127	+ 96
	Spin resistant wire rope – auxiliary hoist	- (42)	+ 138	+ 96
<u>=</u>	Electric remote control	+ 100	+ 100	+ 200
	32 ft swing-on jib	+ 1,393	- (123)	+ 1,270
	32 ft to 57 ft extenable swing-on jib	+ 2,262	- (92)	+ 2,170
	Auxiliary boom head	+ 227	- (102)	+ 125
\$ <b>t</b>	80 T hook block on bumper 5 sheave, quick reeving	+ 2,569	- (961)	+ 1,608
e t	12 T hook block on bumper	+ 669	- (250)	+ 419

### 15,000 lb Counterweight Package Consists of:

one 2,850 lb rear superstructure fixed weight one 1,000 lb front bumper semi-fixed weight

one 2,000 lb semi-fixed weight one 2,000 lb removable weight

two 4,000 lb removable weight

DO NOT add additional counterweight

# **SPECIFICATIONS**

## Weight And Axle Load Chart: With Dolly and Boom Over Rear

Icon	Configuration	Front Axle Load 48,000 Lbs Max	Rear Axle Load 60,000 Lbs Max	Dolly	Gross Vehicle Weight
	Crane w/ 1/4 tank fuel 200 lb Operator seated in Cab Front Tires: 445/65 20PR Rear Tires: 315/80 22.5 20PR 126 ft Boom/No Jib 2850 lb rear counterweight	29,162	37,299	20,614	87,075
	Counterweight Additions:				
	2,000 lb semi-permanent rear & 1,000 lb front bumper	+ 3,059	- (39)	+ 0	+ 3,020
	2,000 lb removable on rear	+ 1,485	+ 515	+ 0	+ 2,000
	4,000 lb removable on rear	+ 2,970	+ 1,030	+ 0	+ 4,000
	2,000 lb removable on carrier deck	+ 1,485	+ 515	+ 0	+ 2,000
	4,000 lb removable on carrier deck	+ 2,970	+ 1,030	+ 0	+ 4,000
00	4,000 lb removable on dolly	+ 0	+ 0	+ 4,000	+ 4,000
	Other Additions:				
	Full Tank of Fuel	+ 244	+ 301	+ 0	+ 545
2	Auxiliary hoist w/drum roller and 600 ft of 16x9 class wire rope	+ 43	+ 41	+ 0	+ 84
	Spin resistant wire rope – main hoist	+ 59	+ 37	+ 0	+ 96
	Spin resistant wire rope – auxiliary hoist	+ 70	+ 26	+ 0	+ 96
= +	Electric remote control	+ 100	+ 100	+ 0	+ 200
	32 ft swing-on jib	+ 13	+ 18	+ 1,239	+ 1,270
	32 ft to 57 ft extenable swing-on jib	+ 62	+ 86	+ 2,022	+ 2,170
	Auxiliary boom head	- (43)	- (60)	+ 228	+ 125
i t	80 T hook block on bumper 5 sheave, quick reeving	- (27)	- (37)	+ 1,672	+ 1,608
ŧ	12 T hook block on bumper	- (7)	- (10)	+ 436	+ 419

### 15,000 lb Counterweight Package Consists of:

one 2,850 lb rear superstructure fixed weight

one 1,000 lb front bumper semi-fixed weight

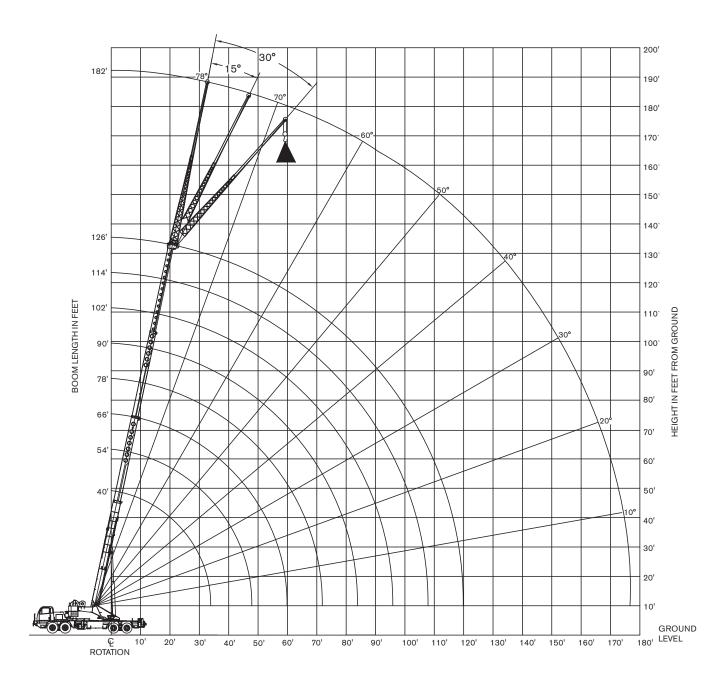
one 2,000 lb semi-fixed weight

one 2,000 lb removable weight

two 4,000 lb removable weight

DO NOT add additional counterweight





	15,000 lb		100%	<u>(</u> ∞	) 360°	40	to 126 ft	ASME S B 30.5	Standard
Ā				Boom Le	ength (ft)				
A	40	54	66	78	90	102	114	126	// <del></del> \$
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	83,800	84,800	71,900	62,200	56,200				20
25	65,500	66,500	64,800	55,700	48,000	41,900			25
30	52,200	53,600	54,000	49,700	41,700	36,400	31,500		30
35		40,900	41,500	41,700	36,600	32,100	29,500	24,700	35
40		32,500	33,100	33,400	32,900	28,600	26,200	24,600	40
45		26,400	27,100	27,400	27,600	25,700	23,500	22,100	45
50 55		19,000	22,500 19,000	22,900 19,400	23,100 19,700	23,300 19,800	21,400 19,500	20,000	50 55
60			19,000	16,600	16,800	17,000		18,200 16,600	60
65				14,200	14,500	14,700	17,100 14,800	14,900	65
70				17,200	12,600	12,800	12,900	13,000	70
75					11,000	11,100	11,300	11,400	75
80					9,500	9,800	9,900	10,000	80
85					.,	8,500	8,700	8,800	85
90						7,500	7,700	7,700	90
95						6,500	6,700	6,800	95
100							5,800	6,000	100
105							5,000	5,200	105
100								4 500	110
110								4,500	110
								3,900	115
110	15,000 lb		100%		Over Rear	<i>]</i> /// 8 41	O to 126 ft		115
110	15,000 lb	54	100%			102	0 to 126 ft 114	3,900 ASME S	115
110 115	40		66	Boom Le	ength (ft)	102	114	3,900 ASME S B 30.5	115 Standard
110 115	40	lb		Boom Le	ength (ft)	<b>4</b> /4		3,900 ASME S B 30.5	115 Standard
110 115 ft 10	40 lb 160,000	<b>Ib</b> 102,500	66	Boom Le	ength (ft)	102	114	3,900 ASME S B 30.5	115 Standard
110 115 <b>ft</b> 10 12	40 Ib 160,000 125,600	lb 102,500 102,500	66 Ib	Boom Le	ength (ft)	102	114	3,900 ASME S B 30.5	115 Standard  ft 10 12
110 115 ft 10	40 lb 160,000	<b>Ib</b> 102,500	66	Boom Le	ength (ft)	102	114	3,900 ASME S B 30.5	115 Standard
110 115 ft 10 12 15	40 Ib 160,000 125,600 108,900 84,500	Ib 102,500 102,500 100,500	66 Ib	Boom Le	90	102	114	3,900 ASME S B 30.5	115 Standard  ft 10 12 15
110 115 ft 10 12 15 20	40 Ib 160,000 125,600 108,900	Ib 102,500 102,500 100,500 85,300	66 Ib 80,600 71,900	78 Ib	90 Ib 56,200	102	114	3,900 ASME S B 30.5	ft 10 12 15 20
110 115 ft 10 12 15 20 25	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900	66 Ib 80,600 71,900 64,800 54,000 41,500	78  Ib  62,200 55,700 49,700 41,700	90 Ib 56,200 48,000 41,700 36,600	102 Ib 41,900 36,400 32,100	114 Ib 31,500 29,500	3,900 ASME S B 30.5	ft 10 12 15 20 25
110 115 ft 10 12 15 20 25 30 35 40	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100	62,200 55,700 49,700 41,700 33,400	90 Ib 56,200 48,000 41,700 36,600 32,900	102 Ib 41,900 36,400 32,100 28,600	31,500 29,500 26,200	3,900  ASME S B 30.5	ft 10 12 15 20 25 30 35 40
110 115 ft 10 12 15 20 25 30 35	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900	80,600 71,900 64,800 54,000 41,500 33,100 27,100	62,200 55,700 49,700 41,700 33,400 27,400	90 Ib 56,200 48,000 41,700 36,600 32,900 27,600	102 Ib 41,900 36,400 32,100 28,600 25,700	31,500 29,500 26,200 23,500	3,900  ASME S B 30.5	ft 10 12 15 20 25 30 35
110 115 ft 10 12 15 20 25 30 35 40 45 50	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900	56,200 48,000 41,700 36,600 32,900 27,600 23,100	102 Ib 41,900 36,400 32,100 28,600 25,700 23,300	31,500 29,500 26,200 23,500 21,400	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000	ft 10 12 15 20 25 30 35 40 45 50
110 115 ft 10 12 15 20 25 30 35 40 45 50 55	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700	41,900 36,400 32,100 28,600 25,700 23,300 19,800	31,500 29,500 26,200 23,500 21,400 19,500	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200	ft 10 12 15 20 25 30 35 40 45 50 55
110 115 ft 10 12 15 20 25 30 35 40 45 50 55 60	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000	31,500 29,500 26,200 23,500 21,400 19,500 17,100	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600	ft 10 12 15 20 25 30 35 40 45 50 55 60
110 115 ft 10 12 15 20 25 30 35 40 45 50 55 60 65	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900	ft 10 12 15 20 25 30 35 40 45 50 55 60 65
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600 11,000	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400	ft 10 12 15 20 25 30 35 40 45 50 65 70 75
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100 9,800	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300 9,900	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400 10,000	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600 11,000	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100 9,800 8,500	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300 9,900 8,700	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400 10,000 8,800	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600 11,000	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100 9,800 8,500 7,500	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300 9,900 8,700 7,700	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400 10,000 8,800 7,700	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600 11,000	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100 9,800 8,500	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300 9,900 8,700 7,700 6,700	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400 10,000 8,800 7,700 6,800	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600 11,000	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100 9,800 8,500 7,500	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300 9,900 8,700 7,700 6,700 5,800	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400 10,000 8,800 7,700 6,800 6,000	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90
110 115 ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100	40 Ib 160,000 125,600 108,900 84,500 65,500	1b 102,500 102,500 100,500 85,300 66,500 53,600 40,900 32,500	80,600 71,900 64,800 54,000 41,500 33,100 27,100 22,500	62,200 55,700 49,700 41,700 33,400 27,400 22,900 19,400 16,600 14,200	56,200 48,000 41,700 36,600 32,900 27,600 23,100 19,700 16,800 14,500 12,600 11,000	41,900 36,400 32,100 28,600 25,700 23,300 19,800 17,000 14,700 12,800 11,100 9,800 8,500 7,500	31,500 29,500 26,200 23,500 21,400 19,500 17,100 14,800 12,900 11,300 9,900 8,700 7,700 6,700	3,900  ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 16,600 14,900 13,000 11,400 10,000 8,800 7,700 6,800	115 Standard  ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100



### **Notes to lifting capacity**



15.000 lb	100%	<b>(</b> ∞ <b>)</b> 360°	ASME Standard
15,000 lb	100%	360	B 30.5

33 ft Jib with Pullout								
0	•	1:	5°	30°				
Load Radius ft	360° lbs	Load Radius ft	360° lbs	Load Radius ft	360° lbs			
40	12,500	51	8,500	56	6,400			
47	12,000	56	8,100	61	6,200			
53	11,500	62	7,800	67	6,100			
59	10,900	67	7,500	72	5,900			
68	9,900	75	7,100	79	5,900			
76	9,200	82	6,700	86	5,600			
83	8,900	89	6,400	93	5,400			
90	7,900	96	6,200	99	5,300			
99	6,800	104	5,900	107	5,200			
106	5,700	111	5,300	114	5,100			
113	4,700	118	4,500	121	4,500			
120	3,900	125	3,800	126	3,700			
127	3,100	132	3,100	132	3,000			
135	2,400	139	2,400	138	2,400			
143	1,800	145	1,700					
150	1,300	150	1,300					
152	1,100							

15 000 lb	100%	(m) 260°	ASME Standard
15,000 lb	100%	(∞) 360°	B 30.5

57 ft Jib with Pullout							
0	0°		5°	30°			
Load Radius ft	360° lbs	Load Radius ft	360° lbs	Load Radius ft	360° lbs		
49	6,500	65	4,500	76	3,300		
56	6,400	71	4,300	81	3,200		
63	6,200	77	4,100	87	3,100		
70	6,000	83	3,900	92	3,000		
80	5,400	92	3,700	100	2,900		
89	4,900	100	3,500	107	2,800		
98	4,500	108	3,300	114	2,700		
106	4,200	115	3,100	121	2,600		
116	3,800	124	2,900	129	2,500		
126	3,500	132	2,800	136	2,500		
134	3,300	140	2,700	143	2,400		
142	3,100	147	2,600	149	2,400		
150	2,500	154	2,300	156	2,300		
159	1,900	162	1,800	162	1,800		
167	1,400	169	1,400				
173	1,000	174	1,000				
177	800						

### **Notes to lifting capacity**



15,000 lb





ASME Standard B 30.5

Do	o		Travel Co and			
В0	om	Travel Speed				
Radius	Length	0 mph	Creep	2.5 mph		
ft	ft	lb	lb	lb		
10	40	53,700	38,700	31,200		
12	40	49,300	35,300	28,400		
15	40	43,800	31,100	24,700		
20	40	33,000	25,500	19,900		
25	54	23,400	21,100	16,300		
30	54	17,700	17,700	13,300		
35	54	13,700	13,700	10,900		
40	66	11,100	11,100	9,300		
45	66	8,900	8,900	7,900		
50	66	7,200	7,200	6,700		
55	78	5,800	5,800	5,700		
60	78	4,600	4,600	4,600		
65	78	3,700	3,700	3,700		
70	90	3,000	3,000	3,000		
75	90	2,400	2,400	2,400		
80	90	1,800	1,800	1,800		

	11,000 lb		100%	(∞	<b>)</b> 360°	40	to 126 ft	ASME S B 30.5	Standard
/71				Boom Le	ength (ft)				
	40	54	66	78	90	102	114	126	/ <del>/_</del> 3
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12 15	125,600 108,900	102,500 100,500	80,600						12 15
20	82,000	83,100	71,900	62,200	56,200				20
25	63,400	64,500	64,800	55,700	48,000	41,900			25
30	49,000	50,400	50,800	49,700	41,700	36,400	31,500		30
35		38,400	38,900	39,200	36,600	32,100	29,500	24,700	35
40		30,300	30,900	31,200	31,400	28,600	26,200	24,600	40
45		24,600	25,200	25,600	25,700	25,700	23,500	22,100	45
50			20,900	21,300	21,500	21,600	21,400	20,000	50
55 60			17,500	17,900 15,100	18,100 15,400	18,200 15,500	18,300 15,600	18,200 15,700	55 60
65				12,800	13,100	13,300	13,400	13,400	65
70				11,000	11,300	11,400	11,500	11,600	70
75				1	9,700	9,900	10,000	10,100	75
80					8,300	8,500	8,700	8,800	80
85						7,400	7,500	7,600	85
90						6,400	6,500	6,600	90
95						5,500	5,600	5,800	95
100 105							4,900 4,100	5,000 4,300	100 105
110							4,100	3,600	110
								-,	
115						<b>1</b> → ~		3,100	115
115	11,000 lb		100%		Over Rear	<b>1</b> 40	0 to 126 ft	3,100 ASME S B 30.5	•
115	11,000 lb	54	100%			102	0 to 126 ft 114	ASME S	•
115		54 Ib		Boom Le	ength (ft)	<b>•</b> /7		ASME S B 30.5	•
ft 10	40 Ib 160,000	<b>Ib</b> 102,500	66	Boom Le	ength (ft)	102	114	ASME S B 30.5	Standard  ft 10
ft 10 12	40 Ib 160,000 125,600	lb 102,500 102,500	66 Ib	Boom Le	ength (ft)	102	114	ASME S B 30.5	Standard  ft 10 12
ft 10 12 15	40 Ib 160,000 125,600 108,900	Ib 102,500 102,500 100,500	66 Ib	Boom Le	90	102	114	ASME S B 30.5	ft 10 12 15
ft 10 12 15 20	40 Ib 160,000 125,600 108,900 82,000	Ib 102,500 102,500 100,500 83,100	66 Ib 80,600 71,900	78 Ib	90 Ib 56,200	102	114	ASME S B 30.5	ft 10 12 15 20
ft 10 12 15	40 Ib 160,000 125,600 108,900	Ib 102,500 102,500 100,500	66 Ib	Boom Le	90	102 Ib	114 Ib	ASME S B 30.5	ft 10 12 15
ft 10 12 15 20 25	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500	66 Ib 80,600 71,900 64,800	78 Ib  62,200 55,700	90 Ib 56,200 48,000	102	114	ASME S B 30.5	ft 10 12 15 20 25
ft 10 12 15 20 25 30 35 40	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900	78  Ib  62,200 55,700 49,700 39,200 31,200	90 Ib 56,200 48,000 41,700 36,600 31,400	102 Ib 41,900 36,400 32,100 28,600	31,500 29,500 26,200	ASME S B 30.5	ft 10 12 15 20 25 30 35 40
ft 10 12 15 20 25 30 35 40 45	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400	80,600 71,900 64,800 50,800 38,900 30,900 25,200	78  Ib  62,200 55,700 49,700 39,200 31,200 25,600	56,200 48,000 41,700 36,600 31,400 25,700	102 Ib 41,900 36,400 32,100 28,600 25,700	31,500 29,500 26,200 23,500	ASME S B 30.5	ft 10 12 15 20 25 30 35 40 45
ft 10 12 15 20 25 30 35 40 45 50	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300	56,200 48,000 41,700 36,600 31,400 25,700 21,500	102 Ib 41,900 36,400 32,100 28,600 25,700 21,600	31,500 29,500 26,200 23,500 21,400	ASME S B 30.5	ft 10 12 15 20 25 30 35 40 45 50
ft 10 12 15 20 25 30 35 40 45 50 55	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200	41,900 36,400 32,100 28,600 25,700 21,600 18,300	31,500 29,500 26,200 23,500 21,400 18,400	ASME S B 30.5	ft 10 12 15 20 25 30 35 40 45 50 55
ft 10 12 15 20 25 30 35 40 45 50 55 60	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700	31,500 29,500 26,200 23,500 21,400 18,400 15,800	ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 15,800	ft 10 12 15 20 25 30 35 40 45 50 55 60
ft 10 12 15 20 25 30 35 40 45 50 55 60 65	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500	31,500 29,500 26,200 23,500 21,400 18,400 15,800 13,600	ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 15,800 13,700	ft 10 12 15 20 25 30 35 40 45 50 55
ft 10 12 15 20 25 30 35 40 45 50 55 60	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700	31,500 29,500 26,200 23,500 21,400 18,400 15,800	ASME S B 30.5  126  Ib  24,700 24,600 22,100 20,000 18,200 15,800	ft 10 12 15 20 25 30 35 40 45 50 55 60 65
## 10	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000	## Company of the com
## 10	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000 7,900	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85
## 10	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600 6,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700	24,700 24,600 22,100 20,000 18,200 15,800 11,900 10,300 9,000 7,900 6,900	## To 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
## 10	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700 5,900	24,700 24,600 22,100 20,000 18,200 13,700 11,900 10,300 9,000 7,900 6,900 6,000	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95
## 10	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600 6,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700 5,900 5,100	24,700 24,600 22,100 20,000 18,200 11,900 10,300 9,000 7,900 6,900 6,000 5,200	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100
## 10	40 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600 6,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700 5,900	24,700 24,600 22,100 20,000 18,200 13,700 11,900 10,300 9,000 7,900 6,900 6,000	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95

### **Notes to lifting capacity**







ASME Standard B 30.5

В	oom	Travel Speed			
Radius	Length	0 mph	Creep	2.5 mph	
ft	ft	lb	lb	lb	
10	40	56,000	41,000	33,500	
12	40	51,500	37,500	30,500	
15	40	45,500	33,000	26,700	
20	40	29,500	27,200	21,700	
25	54	21,100	21,100	17,800	
30	54	16,000	16,000	14,700	
35	54	12,600	12,600	12,100	
40	66	9,700	9,700	9,700	
45	66	7,500	7,500	7,500	
50	66	5,900	5,900	5,900	
55	78	4,800	4,800	4,800	
60	78	4,000	4,000	4,000	
65	78	3,300	3,300	3,300	
70	90	2,800	2,800	2,800	
75	90	2,100	2,100	2,100	

	7,000 lb		100%	<u>(</u> ∞	<b>)</b> 360°	40	to 126 ft	ASME S B 30.5	Standard
/71				Boom Le	ength (ft)				
	40	54	66	78	90	102	114	126	/ <del>/_</del> \$
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10 12	149,300 125,600	102,500 102,500							10 12
15	106,300	100,500	80,600						15
20	79,600	80,600	71,900	62,200	56,200				20
25 30	61,500 44,600	62,500 46,000	63,100 46,400	55,700 46,700	48,000 41,700	41,900 36,400	31,500		25 30
35	44,000	34,900	35,400	35,600	35,800	32,100	29,500	24,700	35
40		27,400	28,000	28,300	28,500	28,600	26,200	24,600	40
45		22,000	22,700	23,000	23,200	23,300	23,400	22,100	45
50 55			18,700 15,500	19,100 15,900	19,300 16,100	19,400 16,300	19,500 16,300	19,600 16,400	50 55
60			,	13,200	13,500	13,900	13,700	13,800	60
65				11,100	11,400	11,900	11,600	11,700	65
70 75				9,300	9,600 8,100	10,200 8,700	9,900 8,400	10,000 8,500	70 75
80					6,900	7,500	7,200	7,300	80
85						6,400	6,100	6,200	85
90						5,500	5,200	5,300	90
95 100						4,600	4,400 3,600	4,500 3,700	95 100
105							2,900	3,100	105
110								2,500	110
115								2,000	115
	7,000 lb		100%		Over Rear	1 4	0 to 126 ft	ASME S B 30.5	Standard
	7,000 lb		100%		Over Rear	<b>/</b> /// 41	0 to 126 ft		Standard
	7,000 lb	54	100%			102	0 to 126 ft 114		Standard
ft	40 Ib	lb		Boom Le	ength (ft)	<b>*</b> /7		B 30.5	rt (ft
10	40 Ib 160,000	<b>Ib</b> 102,500	66	Boom Lo	ength (ft)	102	114	B 30.5	ft 10
	40 Ib	lb	66	Boom Lo	ength (ft)	102	114	B 30.5	rt (ft
10 12 15 20	40 Ib 160,000 125,600 108,900 79,600	Ib 102,500 102,500 100,500 80,600	66 Ib 80,600 71,900	78 Ib	90 Ib 56,200	102 Ib	114	B 30.5	ft 10 12 15 20
10 12 15 20 25	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500	66  Ib  80,600 71,900 63,100	78 Ib  62,200 55,700	90 Ib 56,200 48,000	102 Ib	114 lb	B 30.5	ft 10 12 15 20 25
10 12 15 20	40 Ib 160,000 125,600 108,900 79,600	Ib 102,500 102,500 100,500 80,600	66 Ib 80,600 71,900	78 Ib	90 Ib 56,200	102 Ib	114	B 30.5	ft 10 12 15 20
10 12 15 20 25 30 35 40	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000	78  Ib  62,200 55,700 46,700 35,600 28,300	90 Ib 56,200 48,000 41,700 35,800 28,500	102 Ib 41,900 36,400 32,100 28,600	31,500 29,500 26,200	B 30.5  126  Ib  24,700 24,600	ft 10 12 15 20 25 30 35 40
10 12 15 20 25 30 35 40 45	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900	80,600 71,900 63,100 46,400 35,400 28,000 22,700	62,200 55,700 46,700 35,600 28,300 23,000	90 Ib 56,200 48,000 41,700 35,800 28,500 23,200	102 Ib 41,900 36,400 32,100 28,600 23,300	31,500 29,500 26,200 23,400	B 30.5  126  Ib  24,700 24,600 22,100	ft 10 12 15 20 25 30 35 40 45
10 12 15 20 25 30 35 40 45	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100	56,200 48,000 41,700 35,800 28,500 23,200 19,300	102 Ib 41,900 36,400 32,100 28,600 23,300 19,400	31,500 29,500 26,200 23,400 19,500	B 30.5  126  Ib  24,700 24,600 22,100 19,600	ft 10 12 15 20 25 30 35 40 45 50
10 12 15 20 25 30 35 40 45	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700	62,200 55,700 46,700 35,600 28,300 23,000	90 Ib 56,200 48,000 41,700 35,800 28,500 23,200	102 Ib 41,900 36,400 32,100 28,600 23,300	31,500 29,500 26,200 23,400	B 30.5  126  Ib  24,700 24,600 22,100	ft 10 12 15 20 25 30 35 40 45
10 12 15 20 25 30 35 40 45 50 55 60 65	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700	41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900	31,500 29,500 26,200 23,400 19,500 16,400 14,000	24,700 24,600 22,100 19,600 16,500 14,100 12,100	ft 10 12 15 20 25 30 35 40 45 50 55 60 65
10 12 15 20 25 30 35 40 45 50 55 60 65 70	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 19,100 15,900 13,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700 10,000	41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900	31,500 29,500 26,200 23,400 19,500 16,400 14,000 12,000 10,300	24,700 24,600 22,100 19,600 16,500 14,100 12,100 10,400	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70
10 12 15 20 25 30 35 40 45 50 55 60 65	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700	41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900	31,500 29,500 26,200 23,400 19,500 16,400 14,000	24,700 24,600 22,100 19,600 16,500 14,100 12,100	ft 10 12 15 20 25 30 35 40 45 50 55 60 65
10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700 10,000 8,500	102 1b 41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900 10,200 8,700 7,500 6,400	31,500 29,500 26,200 23,400 19,500 16,400 14,000 12,000 10,300 8,900 7,600 6,600	24,700 24,600 22,100 19,600 16,500 14,100 12,100 10,400 9,000 7,800 6,700	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700 10,000 8,500	102 1b 41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900 10,200 8,700 7,500 6,400 5,500	31,500 29,500 26,200 23,400 19,500 16,400 14,000 12,000 10,300 8,900 7,600 6,600 5,600	24,700 24,600 22,100 19,600 16,500 14,100 10,400 9,000 7,800 6,700 5,700	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90
10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700 10,000 8,500	102 1b 41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900 10,200 8,700 7,500 6,400	31,500 29,500 26,200 23,400 19,500 16,400 14,000 12,000 10,300 8,900 7,600 6,600 5,600 4,800	24,700 24,600 22,100 19,600 16,500 14,100 10,400 9,000 7,800 6,700 5,700 4,900	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95
10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700 10,000 8,500	102 1b 41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900 10,200 8,700 7,500 6,400 5,500	31,500 29,500 26,200 23,400 19,500 16,400 14,000 12,000 10,300 8,900 7,600 6,600 5,600	24,700 24,600 22,100 19,600 16,500 14,100 10,400 9,000 7,800 6,700 5,700	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90
10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95	40 Ib 160,000 125,600 108,900 79,600 61,500	1b 102,500 102,500 100,500 80,600 62,500 46,000 34,900 27,400	80,600 71,900 63,100 46,400 35,400 28,000 22,700 18,700	62,200 55,700 46,700 35,600 28,300 23,000 19,100 15,900 13,400 11,400	56,200 48,000 41,700 35,800 28,500 23,200 19,300 16,200 13,700 11,700 10,000 8,500	102 1b 41,900 36,400 32,100 28,600 23,300 19,400 16,300 13,900 11,900 10,200 8,700 7,500 6,400 5,500	31,500 29,500 26,200 23,400 19,500 16,400 14,000 12,000 10,300 8,900 7,600 6,600 5,600 4,800 4,000	24,700 24,600 22,100 19,600 16,500 14,100 12,100 10,400 9,000 7,800 6,700 5,700 4,900 4,200	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100

### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

**Note:** Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

7,000 lb		100% (w) 360°			ASME Standard B 30.5		
33 ft Jib with Pullout							
0	o	15	15°		0°		
Load Radius ft	360° lbs	Load Radius ft	360° lbs	Load Radius ft	360° lbs		
39	12,500	49	8,500	57	6,400		
46	12,000	55	8,100	62	6,200		
53	11,500	60	7,800	67	6,100		
59	10,900	66	7,500	72	5,900		
67	9,900	73	7,100	79	5,900		
75	9,200	81	6,700	86	5,600		
82	8,000	87	6,400	93	5,400		
88	6,800	94	6,000	99	5,300		
97	5,400	102	4,900	106	4,500		
104	4,200	110	3,900	113	3,600		
111	3,300	117	3,100	120	2,900		
117	2,600	123	2,400	126	2,200		
125	1,800	130	1,600	132	1,600		
135	1,200	137	1,000	138	1,100		
7,000 lb		100%		360°	ASME Standard B 30.5		
	57 ft Jib with Pullout						
0	0	15	5°	3	0°		

57 ft Jib with Pullout							
0°		15°		30°			
Load Radius ft	360° lbs	Load Radius ft	360° lbs	Load Radius ft	360° lbs		
49	6,500	66	4,500	75	3,300		
57	6,400	72	4,300	81	3,200		
64	6,200	78	4,100	86	3,100		
71	6,000	84	3,900	92	3,000		
81	5,400	92	3,700	99	2,900		
90	4,900	100	3,500	107	2,800		
98	4,500	108	3,300	114	2,700		
106	4,200	115	3,100	120	2,600		
116	3,800	124	2,900	128	2,500		
124	3,200	132	2,800	136	2,500		
132	2,400	140	2,200	143	2,200		
139	1,800	146	1,700	149	1,700		
147	1.200	154	1.200	155	1.200		



7,000 lb

0



ASME Standard B 30.5

Воот		Travel Speed			
Radius	Length	0 mph	Creep	2.5 mph	
ft	ft	lb	lb	lb	
10	40	56,000	41,000	33,500	
12	40	51,500	37,500	30,500	
15	40	45,500	33,000	26,700	
20	40	29,500	27,200	21,700	
25	54	21,100	21,100	17,800	
30	54	16,000	16,000	14,700	
35	54	12,600	12,600	12,100	
40	66	9,700	9,700	9,700	
45	66	7,500	7,500	7,500	
50	66	5,900	5,900	5,900	
55	78	4,800	4,800	4,800	
60	78	4,000	4,000	4,000	
65	78	3,300	3,300	3,300	
70	90	2,800	2,800	2,800	

### **Notes to lifting capacity**

	5,000 lb		100%	<b>(</b> ∞	) 360°	40	to 126 ft	ASME S B 30.5	Standard
/71				Boom Le	ength (ft)				
	40	54	66	78	90	102	114	126	/7 <del>\$</del>
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	148,200	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	82,000	83,100	71,900	62,200	56,200	44.000			20
25	63,400	64,500	64,800	55,700	48,000	41,900	04.500		25
30 35	49,000	50,400 38,400	50,800 38,900	49,700 39,200	41,700 36,600	36,400 32,100	31,500 29,500	24,700	30 35
40		30,300	30,900	39,200	31,400	28,600	26,200	24,700	40
45		24,600	25,200	25,600	25,700	25,700	23,500	22,100	45
50		24,000	20,900	21,300	21,500	21,600	21,400	20,000	50
55			17,500	17,900	18,100	18,200	18,300	18,200	55
60			·	15,100	15,400	15,500	15,600	15,700	60
65				12,800	13,100	13,300	13,400	13,400	65
70				11,000	11,300	11,400	11,500	11,600	70
75					9,700	9,900	10,000	10,100	75
80					8,300	8,500	8,700	8,800	80
85						7,400	7,500	7,600	85
90						6,400	6,500	6,600	90
95						5,500	5,600	5,800	95
100							4,900	5,000	100
105 110							4,100	4,300	105 110
115								3,600 3,100	115
_		-							
		П				- ->>		VOWE	Standard
	5,000 lb		100%		Over Rear	<b>1</b> 40	0 to 126 ft	ASME S B 30.5	Standard
	5,000 lb		100%		Over Rear	<b>/</b> / 4	0 to 126 ft		Standard
	5,000 lb	54	100%			102	0 to 126 ft		Standard
ft		54 Ib		Boom Lo	ength (ft)	<b>*</b> /7		B 30.5	Standard
<b>ft</b>	40 Ib 160,000	lb 102,500	66	Boom Lo	ength (ft)	102	114	B 30.5	ft 10
ft 10 12	40 Ib 160,000 125,600	1b 102,500 102,500	66 Ib	Boom Lo	ength (ft)	102	114	B 30.5	ft 10 12
ft 10 12 15	40 Ib 160,000 125,600 108,900	Ib 102,500 102,500 100,500	66 Ib	Boom Lo	90	102	114	B 30.5	ft 10 12 15
ft 10 12 15 20	40 Ib 160,000 125,600 108,900 82,000	Ib 102,500 102,500 100,500 83,100	66 Ib 80,600 71,900	78 Ib	90 Ib 56,200	102	114	B 30.5	ft 10 12 15 20
ft 10 12 15 20 25	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500	66 Ib 80,600 71,900 64,800	78 Ib  62,200 55,700	90 Ib 56,200 48,000	102 Ib	114 lb	B 30.5	ft 10 12 15 20 25
ft 10 12 15 20 25 30	40 Ib 160,000 125,600 108,900 82,000	1b 102,500 102,500 100,500 83,100 64,500 50,400	80,600 71,900 64,800 50,800	78  Ib  62,200 55,700 49,700	90 Ib 56,200 48,000 41,700	102 Ib 41,900 36,400	114 Ib	126	ft 10 12 15 20 25 30
ft 10 12 15 20 25 30 35	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400	80,600 71,900 64,800 50,800 38,900	78  Ib  62,200 55,700 49,700 39,200	90 Ib 56,200 48,000 41,700 36,600	102 Ib 41,900 36,400 32,100	114 Ib 31,500 29,500	126 Ib	ft 10 12 15 20 25 30 35
ft 10 12 15 20 25 30 35 40	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400	80,600 71,900 64,800 50,800	78  Ib  62,200 55,700 49,700	90 Ib 56,200 48,000 41,700	102 Ib 41,900 36,400 32,100 28,600	31,500 29,500 26,200	B 30.5  126  Ib  24,700 24,600	ft 10 12 15 20 25 30 35 40
ft 10 12 15 20 25 30 35	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900	78  1b  62,200 55,700 49,700 39,200 31,200	56,200 48,000 41,700 36,600 31,400	102 Ib 41,900 36,400 32,100	114 Ib 31,500 29,500	126 Ib	ft 10 12 15 20 25 30 35
ft 10 12 15 20 25 30 35 40 45	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200	62,200 55,700 49,700 39,200 31,200 25,600	56,200 48,000 41,700 36,600 31,400 25,700	102 Ib 41,900 36,400 32,100 28,600 25,700	31,500 29,500 26,200 23,500	126 Ib 24,700 24,600 22,100	ft 10 12 15 20 25 30 35 40 45
ft 10 12 15 20 25 30 35 40 45	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300	56,200 48,000 41,700 36,600 31,400 25,700 21,500	102 Ib 41,900 36,400 32,100 28,600 25,700 21,600	31,500 29,500 26,200 23,500 21,400	B 30.5  126  Ib  24,700 24,600 22,100 20,000	ft 10 12 15 20 25 30 35 40 45 50
ft 10 12 15 20 25 30 35 40 45 50 55 60 65	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200	102 Ib 41,900 36,400 32,100 28,600 25,700 21,600 18,300	31,500 29,500 26,200 23,500 21,400 18,400	24,700 24,600 22,100 20,000 18,200	ft 10 12 15 20 25 30 35 40 45 50 55
ft 10 12 15 20 25 30 35 40 45 50 65 70	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500	102 1b 41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700	31,500 29,500 26,200 23,500 21,400 18,400 15,800 13,600 11,800	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70
ft 10 12 15 20 25 30 35 40 45 50 65 70 75	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	102 1b 41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75
ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80
ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000 7,900	ft 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600 6,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000 7,900 6,900	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90
ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700 5,900	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000 7,900 6,900 6,000	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95
ft  10  12  15  20  25  30  35  40  45  50  65  70  75  80  85  90  95  100	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600 6,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700 5,900 5,100	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000 7,900 6,900 6,000 5,200	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100
ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95	40 Ib 160,000 125,600 108,900 82,000 63,400	1b 102,500 102,500 100,500 83,100 64,500 50,400 38,400 30,300	80,600 71,900 64,800 50,800 38,900 30,900 25,200 20,900	62,200 55,700 49,700 39,200 31,200 25,600 21,300 17,900 15,200 13,000	56,200 48,000 41,700 36,600 31,400 25,700 21,500 18,200 15,500 13,300 11,500 9,900	41,900 36,400 32,100 28,600 25,700 21,600 18,300 15,700 13,500 11,700 10,100 8,800 7,600 6,600	31,500 29,500 26,200 23,500 21,400 18,400 15,800 11,800 10,200 8,900 7,800 6,700 5,900	24,700 24,600 22,100 20,000 18,200 15,800 13,700 11,900 10,300 9,000 7,900 6,900 6,000	ft 10 12 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95



### **Notes to lifting capacity**

5,000 lb

0



ASME Standard B 30.5

Boom		Travel Speed			
Radius	Length	0 mph	Creep	2.5 mph	
ft	ft	lb	lb	lb	
10	40	55,600	40,600	33,200	
12	40	49,100	37,200	30,200	
15	40	40,000	32,700	26,400	
20	40	27,500	26,900	21,400	
25	54	18,200	18,200	17,500	
30	54	12,400	12,400	12,400	
35	54	9,900	9,900	9,900	
40	66	7,700	7,700	7,700	
45	66	5,600	5,600	5,600	
50	66	4,700	4,700	4,700	
55	78	3,600	3,600	3,600	
60	78	2,700	2,700	2,700	
65	78	1,800	1,800	1,800	

### **Notes to lifting capacity**

## **TECHNICAL DESCRIPTIONS**

### **Hydraulics**

**HYDR** 

Three Pump System

Main hoist/boom hoist and telescope tandem pump

Outrigger and swing

Power steering

Simultaneous operation of hydraulic functions

Two-speed boom extension

Full Flow with bypass protection

Suction Return

Pressurized Tank with Sight Level Gauge

57.3 /42.6 gal/min @ 4,500 psi 21.2 gal/min 3,500 psi 8 gal/min @ 1,900 psi

> 250 micron screen 5 micron filter

> > 202 gal

### **Upper Operator Cab**

Upper Cab

Sliding door on left side

Sliding window on the right side

Tilting, tinted glass skylight

Removable front windshield

Six-way adjustable seat with armrest dual-axis electro-proportional joysticks

Joystick control for hoist(s), swing and boom elevation

Foot pedals for swing brake, boom telescope and engine rpm

Hand control for engine rpm



Optional Features for Upper Cab

Air conditioning - hydraulically powered

Heater and air conditioning package - hydraulically powered

Liquid Propane (LP) Cab Heater Single-Axis armrest mounted controls

Work Lights

Upper cab remote carrier control

AM/FM radio with cassette



Rated capacity indicator with pictograph display of boom radius, boom angle,

boom length, allowable load, actual load and % of allowable load

Settable alarms for swing angle, boom length, boom angle, tip height and

work area exclusion zone

### **Boom Controls**



Foot pedal actuated multi-disc brake and air actuated 360° house lock



Hydraulic driven double planetary reduction gear drive

2.5 rev/min

### **Counterweight**



Main counterweight with integrated hydraulic removal system is bolted to upper crane structure

Hydraulic system allows weights to be removed and attached without additional lifting equipment for placement on carrier deck or dolly trailer

15,000 lb standard counterweight package



# **TECHNICAL DESCRIPTIONS**

### **Hoists and Rope**

1	Two speeds First layer (no load speed) Fifth layer (no load speed)	Low Speed: 200 ft/min 287 ft/min	High Speed: 320 ft/min 460 ft/min
	First layer Fifth layer	Low Speed: 18,450 lb 12,845 lb	High Speed: 10,002 lb 6,963 lb
1	Permissible line pull		13,800 lb
		6x1	9 IWRC XIPS
	Maximum useable		561 ft
	Rope diameter		0.75 in
2	Two speeds First layer (no load speed) Fifth layer (no load speed)	Low Speed: 200 ft/min 287 ft/min	High Speed: 320 ft/min 460 ft/min
ii.	First layer Fifth layer	Low Speed: 18,450 lb 12,845 lb	High Speed: 10,002 lb 6,963 lb
2	Permissible line pull		13,800 lb
	Optional	34	x7 Grade 960
	Optional		.75 in

### **Engine and Transmission**

Liigiiio aiii		
-	Standard Engine and Transmission Detroit Diesel 60 Series Turbocharged and Aftercooled Eaton Fuller  Optional Engine and Transmission Detroit Diesel 60 Series Turbocharged and Aftercooled Allision automatic	14 L / 435 hp 10 speed manual 14 L / 515 hp 7 speed with lock-up torque converter
	Fuel Capacity	100 gal
==	Voltage Batteries Alternator	12 VDC Three 2,400 CCA 130 amp

### **Lower Operator Cab**



### Lower Cab

Hinged door on left side with roll-down window Sliding window on the right side Six-way adjustable seat with seatbelt Cruise control Two speed windshield wiper with washer Jacobs engine brake

# **TECHNICAL DESCRIPTIONS**

### **Chassis and Related Components**

	• • • • • • • • • • • • • • • • • • •	
<b>1</b> -1	Hydraulic assist	33 ft 4 in turn radius to CL of tires
	Front axle – maximum capacity Tubular beam with equalizer air suspension mounting Rear axle – maximum capacity Interaxle differential with lock-out. Equalizer beam air suspension mounting	48,000 lb 60,000 lb
•	Aluminium wheels with stainless hub covers Front Rear	445/65R22.5-20 PR 315/80R22.5 -20 PR
	Theoretical maximum Manual transmission Automatic transmission	100 +% 100 +%
<b>©</b>	Manual transmission Automatic transmission Axle drive system Air brakes with ABS	67 mph 65 mph 8x4 drive Air release / spring set

## **Boom and Components**

	Full power extension via foot pedal control	Four Section
	Retracted boom length Extended boom length Maximum tip height	40 ft 126 ft 133 ft
	Raised – maximum Lower – minimum	+78° -4°
M	Optional Swing-On Jib – Fixed length – Can be offset to 0°, 15°, or 30° Maximum tip height with fixed jib Swing-On Jib – with 25 ft extension – Can be offset to 0°, 15°, or 30° Maximum tip height with extended jib	32 ft 164 ft 33 ft to 57 ft 189 ft
00	Optional Boom Dolly	
1/78	5 or 6 metallic load sheaves 2 nylon idler sheaves Quick reeving design	
	Installs only on main boom head Compatible with extendable and fixed swing-on jibs	Single nylon sheave
	5 metallic sheaves Quick reeving design	80 T
	Optional 5 metallic sheaves Quick reeving design	60 T
Å	Top swivel ball with hook and latch	12 T



# **NOTES**



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