



GROVE YB7700 Series



product guide

features

- 2 models ... YB7722 & YB7722XL
- 22 ton (19.9 mt) capacity 360° on outriggers @ 8.5 ft. (2.6m) radius
- 15 ton (13.6 mt) deck carrying capacity
- 15 ton (13.6 mt) on rubber capacity
- YB7722 – 43 ft. (13.1m) 3-section boom
- YB7722XL – 67 ft. (20.43m) 5-section boom
- 17 ft. (5.18m) offsettable swingaway extension
- 130 bhp (97.0 kW) Cummins QSB4.5L (Tier III) diesel engine



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Industrial Hydraulic Crane

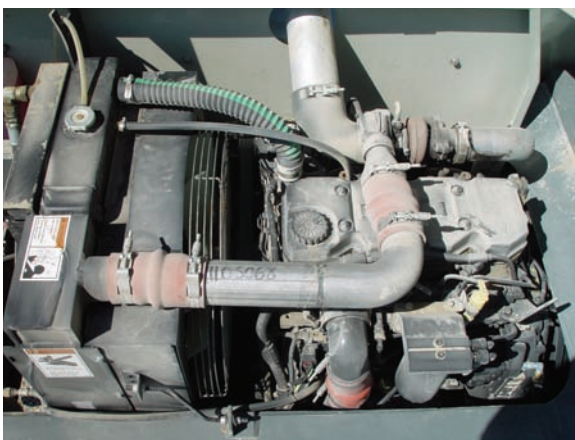


features

2



- Two position beam – jack style outriggers
- All beams or jacks can be extended or retracted at the same time



Standard:

- Water-cooled Cummins QSB4.5L Turbo-charged diesel engine rated @ 130 BHP (97.0kW)
- Variable displacement piston pump w/piggyback gear pump.



Standard: Open air cab shell w/overhead safety glass

Optional: Closed cab with hinged door, heater, defroster, and glass



- 43 ft. (13.1m) 3-section main boom or 67 ft. (20.42m) 5-section main boom
- 4-position pivoting boom head for low head room clearance
- Quick reeve boom head and hookblock



Standard: 4-wheel drive and 4-wheel steer and crab steer with electronic self-alignment

Standard: 17.5 X 25 bias ply tires

YB7700 Series

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specifications

3

Superstructure



Boom

YB7722: 19 ft. 6 in. – 43 ft. 0 in. (5.9m – 13.1m) three-section full power boom.

Maximum tip height: 51 ft. 8 in. (15.7m)

YB7722XL: 19 ft. 6 in. – 67 ft. 0 in. (5.9m – 20.4m) five-section full power boom.

Maximum tip height: 75 ft. 0 in. (22.8m)

Boom angle indicator mounted on both sides of base section.



*Boom Extension

17 ft. (5.18m) fixed boom extension, offsettable to 30° and 60° via pivoting boom nose.

Maximum tip height: 92 ft. 0 in. (28.0m)



Boom Nose

2 sheave, 4-position (0°, + 30°, + 60°, + 80°) pivoting boom nose for minimizing head space requirements. Lowers head height 23.9 in. (0.60m) when nose is pivoted fully forward.



Boom Elevation

Two double acting hydraulic cylinders with integral holding valve.

Elevation: 0° to 80°



Anti-Two Block Device

Standard anti-two block device, when activated, provides an audible warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.



Load Indicator (wireless LSI)

A simple effective and easy to use load indicating system used in conjunction with the anti-two block system to assist the operator in efficient operation of the unit within the limits of the load chart. The display panel displays the hook load and warns the operator when a preset load capacity is exceeded. The warning is by a flashing light on the display panel. In conjunction with the load display panel (receiver), there is a wireless transmitter and load sensing pin attached to the boom head that transmits the hook load to the display panel.



*Rated Capacity Limiter (wireless RCL)

Similar to the Load Indicator, but stops the telescope out and boom lift down function when a load limit is exceeded. Uses a similar display panel with the addition of displaying boom angle and boom length read outs on the panel.



*Load Moment Indicator (hardwired LMI)

Digital display of boom angle, boom length, boom radius, capacity, and allows for operator input to set the limits based on load chart. Displays color coded light bar and audible alarm with function cutout if load exceeds entered parameters.



Swing

Ball bearing swing circle with 360° continuous rotation.

Planetary swing.

Maximum speed: 2.5 rpm



Hydraulic System

Variable displacement piston pump and piggyback gear pump.

Combined flow: 74.0 gpm (280.0 Lpm)

Maximum system operating pressure: 3600 p.s.i.

Six section valve bank, chassis mounted, operated via dash mounted, pilot pressure hydraulic joysticks.

Return line filter with full flow by-pass protection and service indicator.

60.0 gallon (227 L) hydraulic reservoir with sight level gauge and steel side plating to guard against side impact damage.



Hoist Specifications

Piston motor drive with spring applied / hyd. released brake.

Two speed power up and down.

Maximum Single Line Pull: 13,800 lb. (6260kg)

Maximum Single Line Speed: 320 fpm (97.5m/min)

Maximum Permissible Single Line Pull: 11,000 lb (4990kg)
(5/8" [16.0mm] XIPS)

Rope Length (Std): 375 ft. (114.3m)

*Denotes optional equipment

YB7700 Series

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specifications

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Carrier



Frame

High strength alloy steel constructed with integral outrigger housings; front and rear tie-down lugs. 60 ft.² carrydeck size with 30,000 lb (13 608kg) deck only carrying capacity & 20,000 lb (9 072kg) combined with boom load. Deck coated with anti-skid treatment.



Outriggers

2- stage hydraulic telescoping beam with vertical jack at the four corners provides extended and down and retracted and down lifting capacities. Integral holding valves on both beam and jack.



Outrigger Controls

Three switch operation mounted on dash panel. One 3- position rocker switch to select all beams / jacks, left beams / jacks only, or right beams / jacks only. Separate 4- way toggle switch to activate beams out / in and jacks down / up. Level bubble indicator located inside operators compartment.

Outrigger pad size: 11.5 in. x 11.5 in. (29.2cmx29.2cm)

*Independent outrigger controls available as an option.



Std. Engine

Cummins QSB 4.5L turbo-charged diesel rated @ 130 bhp (97kW) @ 2500 rpm with engine block heater.



Operators Control Station

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls, and overhead safety glass. Other standard equipment includes a durable weather resistant seat with seat belt, hourmeter, sight level bubble, and fire extinguisher. The dash panel includes engine oil pressure gauge, engine water temperature gauge, fuel gauge, transmission low oil and high temperature warning lights, low battery warning light, and brake system low pressure warning light. The LSI (load indicator) receiver is mounted to the top of the dash.



*Operators Control Station Enclosed

Includes the standard cab shell with the addition of front, right and rear glass. Hinged full door with sliding glass.

Front windshield wiper, heater and defroster are included.



Fuel Tank Capacity

50 gallon (189 L) all steel construction with steel side plate to guard against side impact. Fuel gauge located on dash panel in operators station.



Electrical System

One 12V maintenance free battery, 820CCA @ 0°.

63 amp alternator.



Drive

4 x 4 – Front and rear axle drive with planetary hubs and limited slip differential.



Steer

Standard: 3-steering modes:

Front 2-wheel, 4-wheel coordinated, and crab steer w/ electronic self alignment. Rotary switch select on dash panel.



Transmission

Clark powershift 4-speeds forward and reverse. Stalk mounted shifter on left side of steering column.



Tires

17.5 x 25 Bias (std.)

*17.5 R 25 radial



Brakes

Hydraulic actuated internal wet-disc service brakes acting on all four wheels. A dash mounted toggle switch activates the dry disc parking brake on the transmission output yoke with a dash warning light.



Suspension

Front: Rigid mounted to frame.

Rear: Provides 3.5° oscillation for use on semi-rough terrain.

Axle lock-out switch, on dash panel, to engage / disengage the axle lock-out. Axle lock-out must be engaged (locked) whenever picking on rubber and when traveling in the crab steer mode. A warning light indicates when the axle lock-outs are engaged.



Lights

Recessed mounted, includes head, tail, rear work, stop, and turn signals.



Maximum Speed

19.5 MPH (31.3km/h)



Gradeability**

63%.....no load

38%.....30,000lb (13 608kg) load

G.V.W.

YB7722: 41,270 lb. (18 720kg)

YB7722XL: 43,000 lb (19 504kg)

Miscellaneous Standard Equipment

Two sheaves, "Quick Reeve" style 22T (19.9mt) hookblock

Back-up alarm

Dual rearview mirrors

Outrigger motion alarm

Lifting and tie down lugs

*Denotes optional equipment

**Theoretical

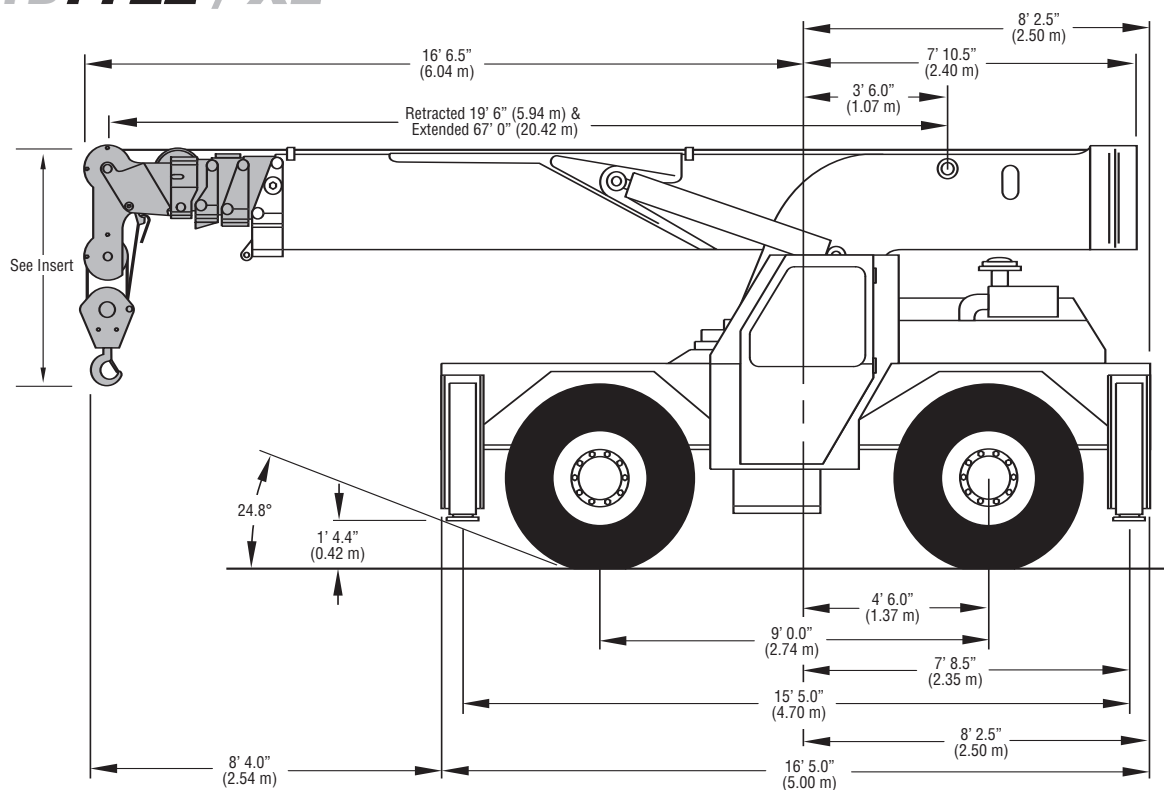
YB7700 Series

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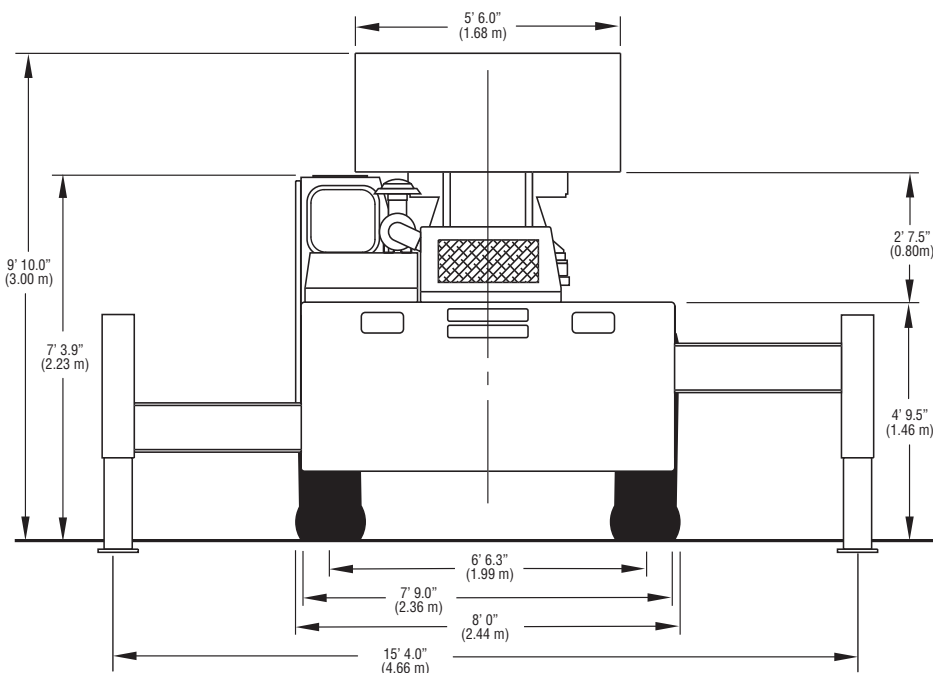
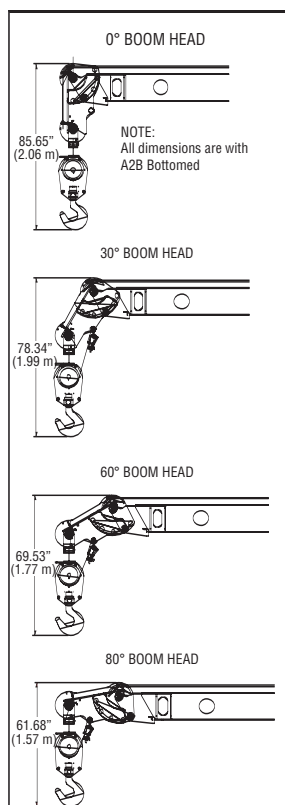


dimensions

YB7722 / XL



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YB7700 Series

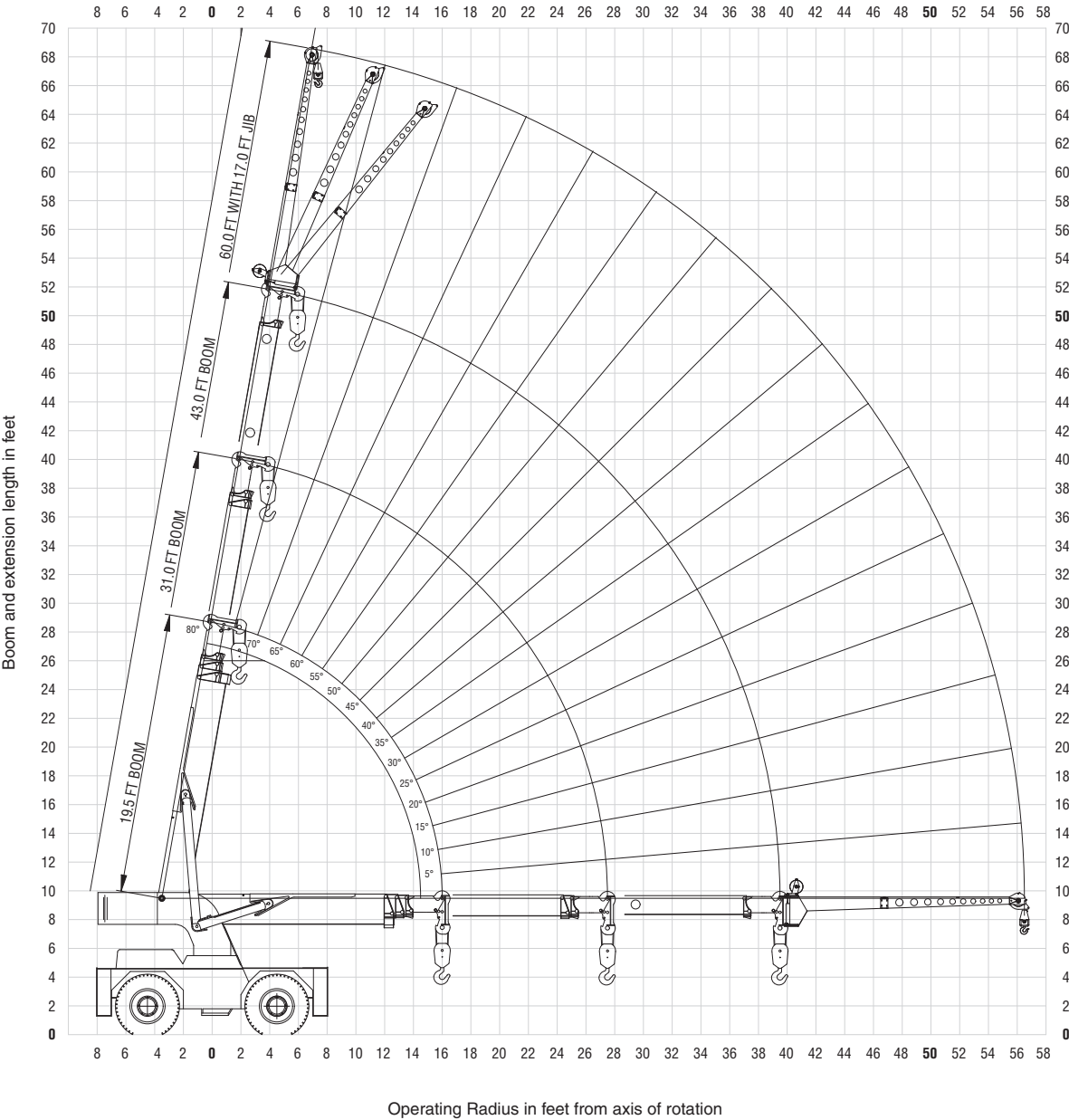
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range diagram

YB7722 (3-section boom)

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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

YB7700 Series

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load chart

YB7722 (3-section boom)

MAIN BOOM LOAD RATINGS ON OUTRIGGERS Extended and Down 360° or Retracted and Down Front/Rear									MAIN BOOM LOAD RATINGS ON OUTRIGGERS Retracted and Down 360°										
19.5 ft Boom			20.5-30 ft Boom		31 ft Boom		32-42 ft Boom		19.5 ft Boom			20.5-30 ft Boom		31 ft Boom		32-42 ft Boom		43 ft Boom	
Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	
8.5	58	44000	26500	71	26500	25400	76	25400	8.5	58	31000	26500	71	26500	25400	76	25400	25400	
10	52	40000	31600	68	31600	28000	74	28000	10	52	24000	22300	68	22300	22000	74	22000	22000	
12	44	33800	30500	64	30500	25000	72	25000	12	44	17200	16300	64	16300	16300	72	17000	17000	
14	33	28500	28500	59	28500	22600	69	22600	14	33	13300	12500	59	12500	12500	69	13600	13600	
16	0	24900	24900	55	25700	20000	66	20000	16	0	10200	9800	55	9800	9800	66	11100	11100	
18	-	-	22800	50	22800	17900	63	17900	18	-	-	7900	50	7900	7900	63	9100	9100	
20	-	-	20200	45	20200	16100	60	16100	20	-	-	6500	45	6500	6500	60	7500	7500	
22	-	-	17800	39	17800	14600	56	14600	22	-	-	5300	39	5300	5300	56	6200	6200	
24	-	-	15360	31	15360	13300	53	13300	24	-	-	4300	31	4300	4300	53	5200	5200	
26	-	-	13250	22	13250	12300	49	12300	26	-	-	3500	22	3500	3500	49	4400	4400	
27.5	-	-	11600	0	11600	11600	47	11600	27.5	-	-	2900	0	2900	2900	47	3900	3900	
30	-	-	-	-	-	9900	42	10500	30	-	-	-	-	-	2600	42	3200	3200	
32	-	-	-	-	-	8800	37	9800	32	-	-	-	-	-	2300	37	2700	2700	
34	-	-	-	-	-	7800	32	8700	34	-	-	-	-	-	1900	32	2300	2300	
36	-	-	-	-	-	7100	26	7800	36	-	-	-	-	-	1750	26	1900	1900	
39.5	-	-	-	-	-	6400	0	6400	39.5	-	-	-	-	-	1400	0	1400	1400	

MAIN BOOM ON RUBBER		
Any Boom Length		
Radius (ft)	Front Rating (lbs)	360° Rating (lbs)
6	30000	21000
8	28000	17900
10	25000	15000
12	19600	12400
14	15600	9900
16	12700	7700
18	10300	6300
20	8300	4900
22	6800	3900
24	5800	3100
26	4900	2500
28	4200	2100
30	3700	1800
32	3300	1550
34	3000	1300
36	2700	1100
38	2500	950
40	2200	800

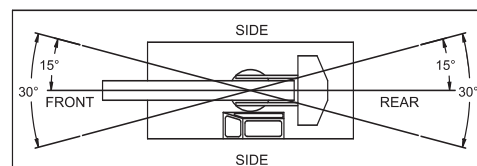
17 FT JIB CAP. ON EXT. OUTRIGGERS (lbs)			
Main Boom Angle (deg)	Jib Offset Angle		
	0 deg	15 deg	30 deg
	Any Boom Length	Any Boom Length	Any Boom Length
80	-	5000	3500
75	7500	4400	3100
70	6100	3900	2800
65	5000	3500	2550
60	4300	3150	2350
55	3800	2850	2200
50	3400	2600	2100
45	3050	2400	2000
40	2800	2250	1950
35	2600	2150	1900
30	2400	2080	1830
25	2300	2050	-
20	2200	2000	-
15	2100	1950	-
10	2050	-	-
5	2020	-	-
0	2000	-	-

SHADED AREAS ARE GOVERNED BY
STRUCTURAL STRENGTH, DO NOT RELY
ON TIPPING.

OPERATION OF THIS EQUIPMENT IN EXCESS
OF RATING CHARTS AND DISREGARD OF
INSTRUCTIONS IS DANGEROUS AND VOIDS
WARRANTY.

MAXIMUM PERMISSIBLE SINGLE LINE PULL
= 11,000 lbs

HOIST ROPE: 5/8" diameter
6 x 19 XIPS IWRC BRIGHT
Min. req'd breaking strength = 38,500 lbs



- The rated loads are the maximum lifting capacities as determined by operating radius, boom length, and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- Rated load columns for discrete boom lengths apply when actual boom length is within +/- 1.0 ft of discrete length. For other boom lengths, use appropriate intermediate boom length column.
- For operating radius not shown, use load rating of next larger radius.
- The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper handling must all be taken into account by the operator.
- The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.
- Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (110 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth hard level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.
- The maximum combined total boom and deck load is 20,000 lbs. The maximum deck load only is 30,000 lbs.
- Do not induce any external side loads to boom or jib.

RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (lbs)		
	FROM MAIN BOOM	FROM JIB
MAIN BLOCK	400	N/A
HOOK & BALL	100	100
JIB STOWED	0	N/A
JIB DEPLOYED	500	0

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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YB7700 Series

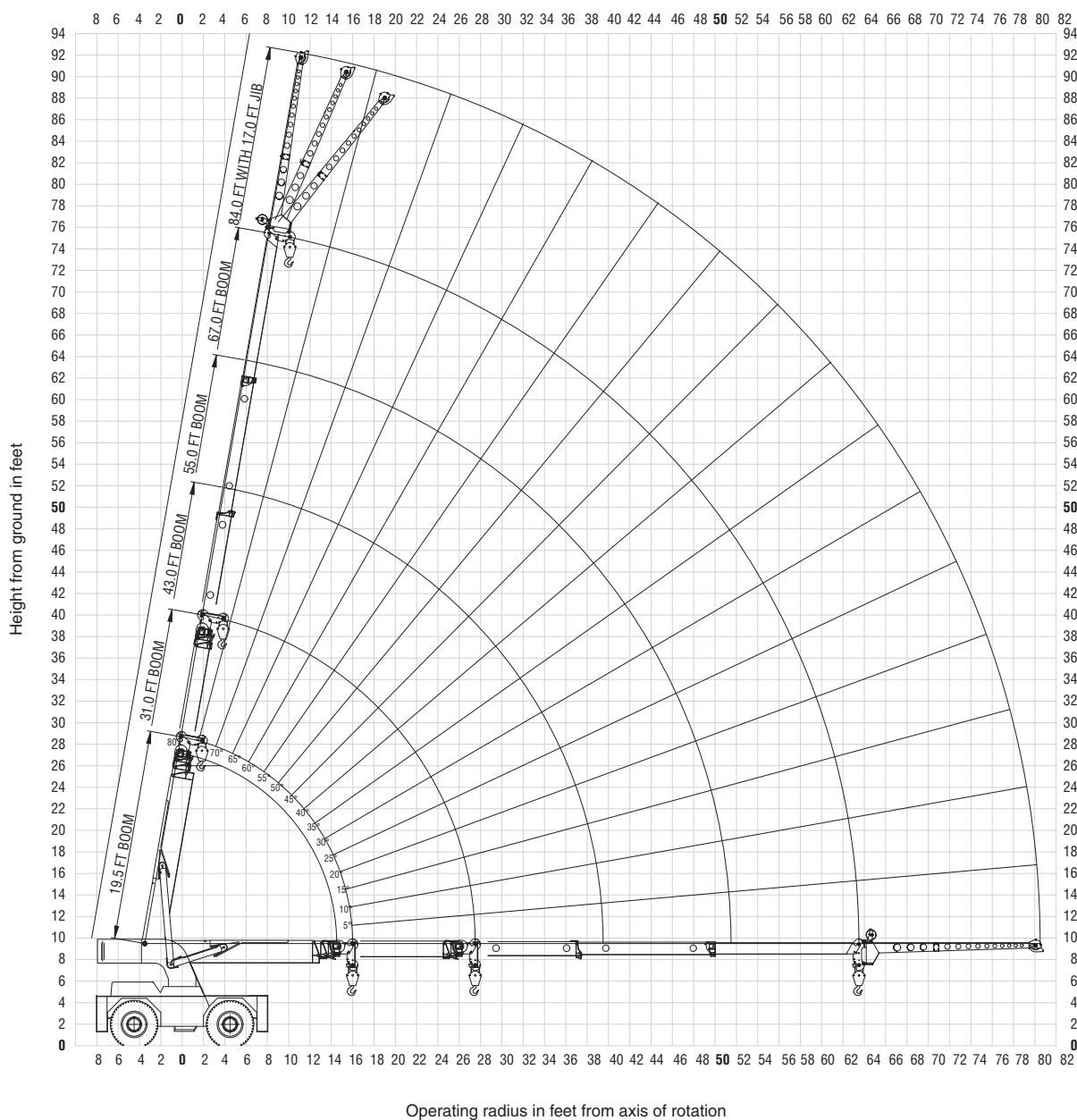
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range diagram

YB7722 XL (5-section boom)

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YB7700 Series

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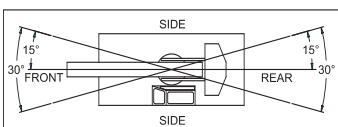
load chart

YB7722 XL (5-section boom)

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MAIN BOOM LOAD RATINGS ON OUTRIGGERS Extended and Down 360° or Retracted and Down Front/Rear																			
		19.5 ft Boom		20.5-30 ft Boom		31 ft Boom		32-42 ft Boom		43 ft Boom		44-54 ft Boom		55 ft Boom		56-66 ft Boom		67 ft Boom	
Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	
8.5	58	44000	26500	71	26500	25400	76	25400	19500	79	19500	-	-	-	-	-	-	-	
10	52	40000	26500	68	26500	25400	74	25400	19500	78	19500	-	-	-	-	-	-	-	
12	44	38800	26300	64	24200	24200	72	24200	17600	76	17600	14500	78	14500	14500	78	14500	14500	
14	33	28500	22900	59	22900	22600	69	22600	16100	74	16100	13200	77	13200	13200	77	13200	13200	
16	0	23700	20900	55	20900	20000	66	20000	14800	71	14800	12200	75	12200	12200	75	12200	12200	
18	-	-	19300	50	19300	17900	63	17900	13700	69	13700	11200	73	11200	11200	73	11200	11200	
20	-	-	17800	45	17800	16100	60	16100	12800	67	12800	10400	71	10400	10400	71	10400	10400	
22	-	-	16400	39	16400	14600	56	14600	12000	64	12000	9700	69	9700	9700	69	9700	9700	
24	-	-	14700	31	14700	13300	53	13300	11200	62	11200	9100	67	9100	9100	67	9100	9100	
26	-	-	13200	22	13200	12300	49	12300	10600	60	10600	8600	66	8600	8600	66	8600	8600	
27.5	-	-	11600	0	11600	11600	47	11600	10200	58	10200	8200	64	8200	8200	64	8200	8200	
30	-	-	-	-	-	9900	42	10500	9400	55	9400	7700	62	7700	7700	62	7700	7700	
32	-	-	-	-	-	8800	37	9800	8700	52	8700	7300	60	7300	7300	60	7300	7300	
34	-	-	-	-	-	7800	32	8700	8100	49	8100	6900	58	6900	6900	58	6900	6900	
36	-	-	-	-	-	7100	26	7800	7600	46	7600	6600	56	6600	6600	56	6600	6600	
38	-	-	-	-	-	6500	18	7000	7000	43	7100	6300	53	6300	6300	53	6300	6300	
39.5	-	-	-	-	-	6400	0	6400	6400	41	6400	6100	52	6100	6100	52	6100	6100	
42	-	-	-	-	-	-	-	-	5700	36	6300	5800	49	5800	5800	49	5800	5800	
44	-	-	-	-	-	-	-	-	5300	32	5800	5600	47	5600	5600	47	5600	5600	
46	-	-	-	-	-	-	-	-	4900	28	5300	5300	44	5300	5300	44	5300	5300	
48	-	-	-	-	-	-	-	-	4600	23	4800	4800	42	5000	4800	42	5000	4800	
50	-	-	-	-	-	-	-	-	4400	16	4400	4400	39	4700	4400	39	4700	4400	
51.5	-	-	-	-	-	-	-	-	4000	0	4000	4000	37	4600	4000	37	4600	4000	
54	-	-	-	-	-	-	-	-	-	-	-	3800	33	4200	3800	33	4200	3800	
56	-	-	-	-	-	-	-	-	-	-	-	3600	29	3900	3600	29	3900	3600	
58	-	-	-	-	-	-	-	-	-	-	-	3400	25	3600	3400	25	3600	3400	
60	-	-	-	-	-	-	-	-	-	-	-	3200	20	3300	3200	20	3300	3200	
62	-	-	-	-	-	-	-	-	-	-	-	3000	14	3000	3000	14	3000	3000	
63.5	-	-	-	-	-	-	-	-	-	-	-	2800	0	2800	2800	0	2800	2800	

RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (lbs)		
	FROM MAIN BOOM	FROM JIB
MAIN BLOCK	400	N/A
HOOK & BALL	100	100
JIB STOWED	0	N/A
JIB DEPLOYED	500	0



1) The rated loads are the maximum lifting capacities as determined by operating radius, boom length, and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) Rated load columns for discrete boom lengths apply when actual boom length is within +/- 1.0 ft. of discrete length. For other boom lengths, use appropriate intermediate boom length column.

3) For operating radius not shown, use load rating of next larger radius.

4) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper handling must all be taken into account by the operator.

5) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except for the hoist rope, shall be considered as part of the load. See reduction chart.

6) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

7) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (110 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth hard level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.

8) The maximum combined total boom and deck load is 20,000 lbs. The maximum deck load only is 30,000 lbs.

9) Do not induce any external side loads to boom or jib.

MAIN BOOM LOAD RATINGS ON OUTRIGGERS																			
Retracted and Down 360°																			
		19.5 ft Boom		20.5-30 ft Boom		31 ft Boom		32-42 ft Boom		43 ft Boom		44-54 ft Boom		55 ft Boom		56-66 ft Boom		67 ft Boom	
Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (lbs)	
8.5	58	31000	26500	71	26500	25400	76	25400	19500	79	19500x	-	-	-	-	-	-	-	
10	52	24000	22300	68	22300	22000	74	22000	19500	78	19500	-	-	-	-	-	-	-	
12	44	17200	16300	64	16300	16300	72	17000	17000	76	17100	14500	78	17100	14500	78	17100	14500	
14	33	13300	12500	59	12500	12500	69	13600	13600	74	14000	13200	77	14000	13200	77	14000	13200	
16	0	10200	9800	55	9800	9800	66	11100	11100	71	11200	11200	75	11200	11200	75	11500	11500	
18	-	-	7900	50	7900	7900	63	9100	9100	69	9300	9300	73	9300	9300	73	9400	9400	
20	-	-	6500	45	6500	6500	60	7500	7500	67	7800	7700	71	7700	7700	71	7700	7700	
22	-	-	5300	39	5300	5300	56	6200	6200	64	6600	6500	69	6500	6500	69	6500	6500	
24	-	-	4300	31	4300	4300	53	5200	5200	62	5600	5600	67	5600	5600	67	5600	5600	
26	-	-	3500	22	3500	3500	49	4400	4400	60	4800	4800	66	5000	4800	66	5000	4800	
27.5	-	-	2900	0	2900	2900	47	3900	3900	58	4300	4300	64	4600	4300	64	4600	4300	
30	-	-	-	-	-	2600	42	3200	3200	55	3600	3600	62	3900	3600	62	3900	3600	
32	-	-	-	-	-	2300	37	2700	2700	52	3100	3100	60	3400	3100	60	3400	3100	
34	-	-	-	-	-	1900	32	2300	2300	49	2700	2700	58	2900	2700	58	2900	2700	
36	-	-	-	-	-	1750	26	1900	1900	46	2300	2300	56	2500	2300	56	2500	2300	
38	-	-	-	-	-	1500	18	1600	1600	43	2000	2000	53	2100	2000	53	2100	2000	
39.5	-	-	-	-	-	1400	0	1400	1400	41	1750	1750	52	1850	1750	52	1850	1750	
42	-	-	-	-	-	-	-	-	1150	36	1450	1450	49	1500	1450	49	1500	1450	
44	-	-	-	-	-	-	-	-	1000	32	1200	1200	47	1300	1200	47	1300	1200	
46	-	-	-	-	-	-	-	-	850	28	1000	1000	44	1100	1000	44	1100	1000	
48	-	-	-	-	-	-	-	-	750	23	850	850	42	950	850	42	950	850	
50	-	-	-	-	-	-	-	-	650	16	700	700	39	800	700	39	800	700	
51.5	-	-	-	-	-	-	-	-	600	0	600	600	37	700	600	37	700	600	
54	-	-	-	-	-	-	-	-	-	-	-	-	-	450	350	33	500	450	
56	-	-	-	-	-	-	-	-	-	-	-	-	-	350	250	29	350	350	
58	-	-	-	-	-	-	-	-	-	-	-	-	-	250	150	25	250	250	
60	-	-	-	-	-	-	-	-	-	-	-	-	-	150	20	20	150	150	
62	-	-	-	-	-	-	-	-	-	-	-	-	-	50	14	14	50	50	
63.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	

MAIN BOOM ON RUBBER		
Any Boom Length		
Radius (ft)	Front Rating (lbs)	360° Rating (lbs)
6	30000	21000
8	28000	17900
10	25000	15000
12	19600	12400
14	15500	9500
16	12400	7400
18	9900	6000
20	8100	4600
22	6800	3700
24	5700	3000
26	4900	2350
28	4200	2100
30	3700	1800
32	3300	1550
34	3000	1300
36	2700	1100
38	2500	950
40	2200	800
42	2000	675
44	1800	550
46	1650	450
48	1400	350
50	1300	250
52	1150	200
54	1050	150
56	950	75
58	875	25
60	800	-
62	700	-
63.5	600	-

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.

OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGEROUS AND VOIDS WARRANTY.

MAXIMUM PERMISSIBLE SINGLE LINE PULL = 11,000 lbs

WIRE ROPE: 5/8 inch dia. 6 x 19 XIPS IWRC BRIGHT
Min. req'd breaking strength = 38,500 lbs

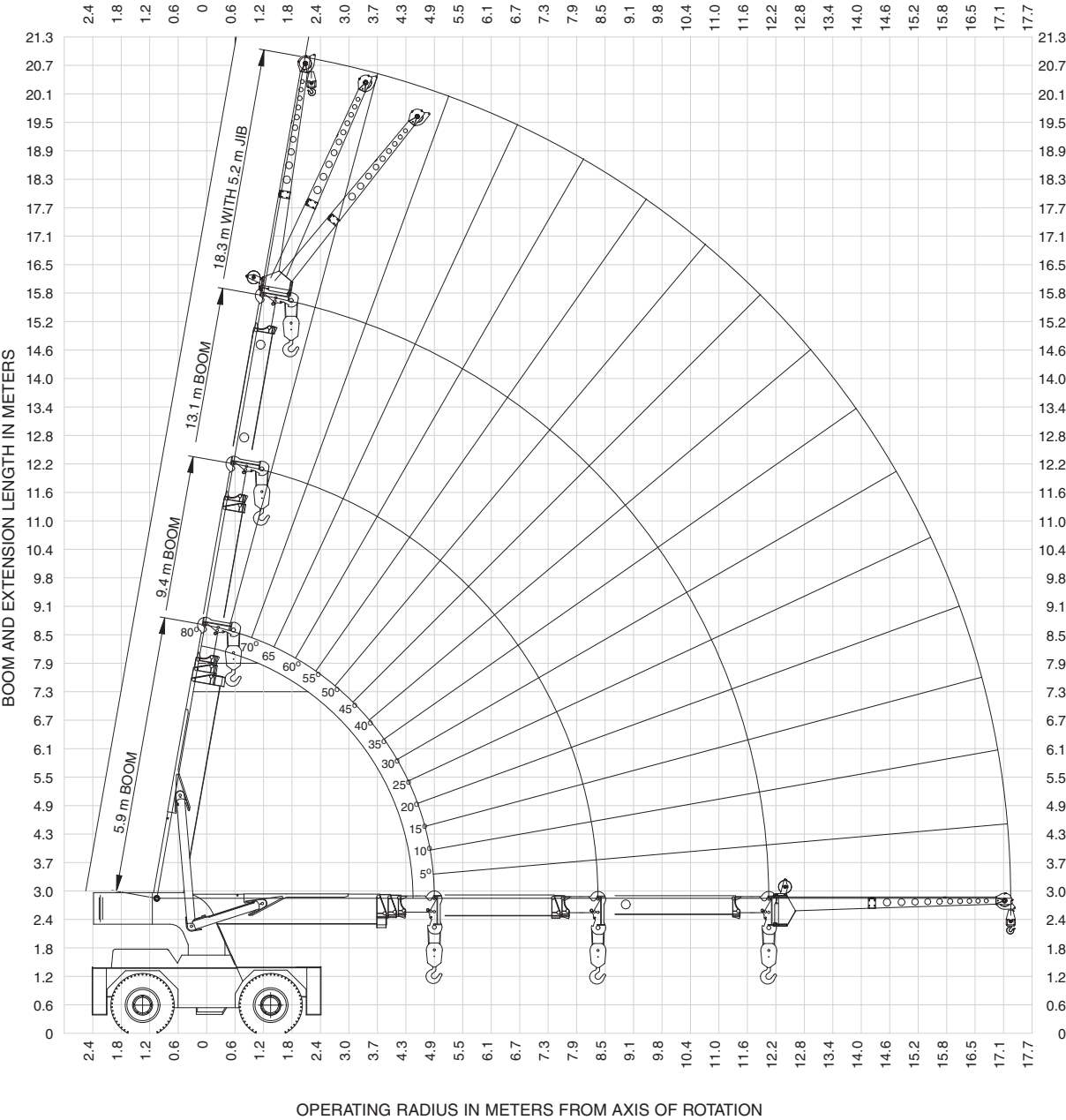
17 FT JIB CAPACITIES ON EXTENDED OUTRIGGERS					
Main Boom Angle (deg)	Jib Offset Angle				
	0 deg		15 deg		30 deg
	Main Boom	Main Boom	To 55.0 ft Main Boom	To 67.0 ft Main Boom	
80	-	-	5000	5000	3500
75	7500	-	4400	4400	3100
70	6100	-	3900	3900	2800
65	5000	4600	3500	3500	2500
60	4300	3800	3150	3150	2350
55	3800	3300	2850	2850	2200
50	3400	2900	2600	2600	2100
45	3050	2600	2400	2400	2000
40	2800	2400	2250	2250	1950
35	2600	2150	2150	2150	1900
30	2400	1930	2080	1850	1830
25	2300	1750	2050	1720	-
20	2200	1600	2000	1590	-
15	2100	1500	1950	1520	-
10	2000	1460	-	-	-
5	1920	1450	-	-	-
0	2000	1440	-	-	-



range diagram

YB7722 (3-section boom)

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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

YB7700 Series

GROVE



DIN/ISO load chart

YB7722 (3-section boom)

MAIN BOOM LOAD RATINGS ON OUTRIGGERS Extended and Down 360° or Retracted and Down Front/Rear								
Radius (m)	5.9 m Boom		6.2-9.1 m Boom		9.4 m Boom		9.7-12.8 m Boom	
	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)
2.6	58	19960	14330	71	14330	12700	76	12700
3.0	52	18140	14330	68	14330	12700	74	12700
3.7	44	15350	13830	64	13830	11340	72	11340
4.3	33	12930	12930	59	12930	10270	69	10270
4.9	0	10740	10740	55	11660	9090	66	9090
5.5	-	-	10340	50	10340	8110	63	8110
6.1	-	-	8900	45	8900	7300	60	7300
6.7	-	-	7710	39	7710	6620	56	6620
7.3	-	-	6550	31	6550	6050	53	6050
7.9	-	-	5520	22	5520	5520	49	5560
8.4	-	-	4790	0	4790	4790	47	5150
9.1	-	-	-	-	-	4050	42	4630
9.8	-	-	-	-	-	3580	37	4050
10.4	-	-	-	-	-	3160	32	3560
11.0	-	-	-	-	-	2880	26	3180
12.0	-	-	-	-	-	2580	0	2580

MAIN BOOM LOAD RATINGS ON OUTRIGGERS Retracted and Down 360°								
Radius (m)	5.9 m Boom		6.2-9.1 m Boom		9.4 m Boom		9.7-12.8 m Boom	
	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)
2.6	58	13070	13070	71	13270	12700	76	12700
3.0	52	10110	9360	68	9360	9020	74	9020
3.7	44	7190	6800	64	6800	6800	72	7100
4.3	33	5520	5210	59	5210	5210	69	5630
4.9	0	4230	4050	55	4050	4050	66	4630
5.5	-	-	3210	50	3210	3210	63	3730
6.1	-	-	2620	45	2620	2620	60	3060
6.7	-	-	2100	39	2100	2100	56	2490
7.3	-	-	1710	31	1710	1710	53	2060
7.9	-	-	1340	22	1340	1340	49	1720
8.4	-	-	1080	0	1080	1080	47	1510
9.1	-	-	-	-	-	950	42	1200
9.8	-	-	-	-	-	820	37	1000
10.4	-	-	-	-	-	670	32	820
11.0	-	-	-	-	-	590	26	660
12.0	-	-	-	-	-	450	0	450

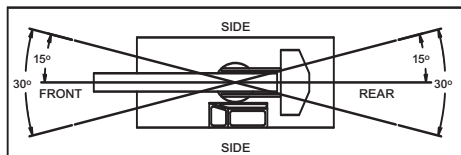
MAIN BOOM ON RUBBER		
Radius (m)	Any Boom Length	
	Front Rating (kg)	360° Rating (kg)
1.8	13610	9520
2.4	12700	8120
3.0	11340	6800
3.7	8890	5470
4.3	6990	4340
4.9	5570	3320
5.5	4520	2680
6.1	3620	2070
6.7	2940	1620
7.3	2480	1260
7.9	2070	980
8.5	1760	810
9.1	1530	670
9.8	1350	550
10.4	1210	440
11.0	1080	350
11.6	960	280
12.0	900	210

**SHADED AREAS ARE GOVERNED BY
STRUCTURAL STRENGTH, DO NOT RELY
ON TIPPING.**

**OPERATION OF THIS EQUIPMENT IN EXCESS
OF RATING CHARTS AND DISREGARD OF
INSTRUCTIONS IS DANGEROUS AND VOIDS
WARRANTY.**

**MAXIMUM PERMISSIBLE SINGLE LINE PULL
= 4990 kg**

**WIRE ROPE: 16 mm dia.
6 x 19 XXIPS IWRC BRIGHT
Min. req'd breaking strength = 188.4 kN**



RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (kg)		
	FROM MAIN BOOM	FROM JIB
MAIN BLOCK	180	N/A
HOOK & BALL	50	50
JIB STOWED	0	N/A
JIB DEPLOYED	230	0

5.2 m JIB CAP. ON EXT. OUTRIGGERS (kg)			
Main Boom Angle (deg)	Jib Offset Angle		
	0 deg	15 deg	30 deg
	Any Boom Length	Any Boom Length	Any Boom Length
80	-	2270	1590
75	3400	2000	1410
70	2770	1770	1270
65	2270	1590	1160
60	1950	1430	1070
55	1720	1290	1000
50	1540	1180	950
45	1380	1090	910
40	1270	1020	880
35	1180	980	860
30	1090	940	830
25	1040	930	-
20	1000	910	-
15	950	880	-
10	930	-	-
5	920	-	-
0	910	-	-

- The rated loads are the maximum lifting capacities as determined by operating radius, boom length, and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- Rated load columns for discrete boom lengths apply when actual boom length is within +/- 0.3 m of discrete length. For other boom lengths, use appropriate intermediate boom length column.
- For operating radius not shown, use load rating of next larger radius.
- The rated loads shown on outriggers do not exceed 80% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper handling must all be taken into account by the operator.
- The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.
- Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (7.6 bar). Loads on rubber may be transported at a maximum speed of 1.4 km/h on a smooth hard level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.
- The maximum combined total boom and deck load is 9070 kg. The maximum deck load only is 13610 kg.
- Do not induce any external side loads to boom or jib.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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YB7700 Series

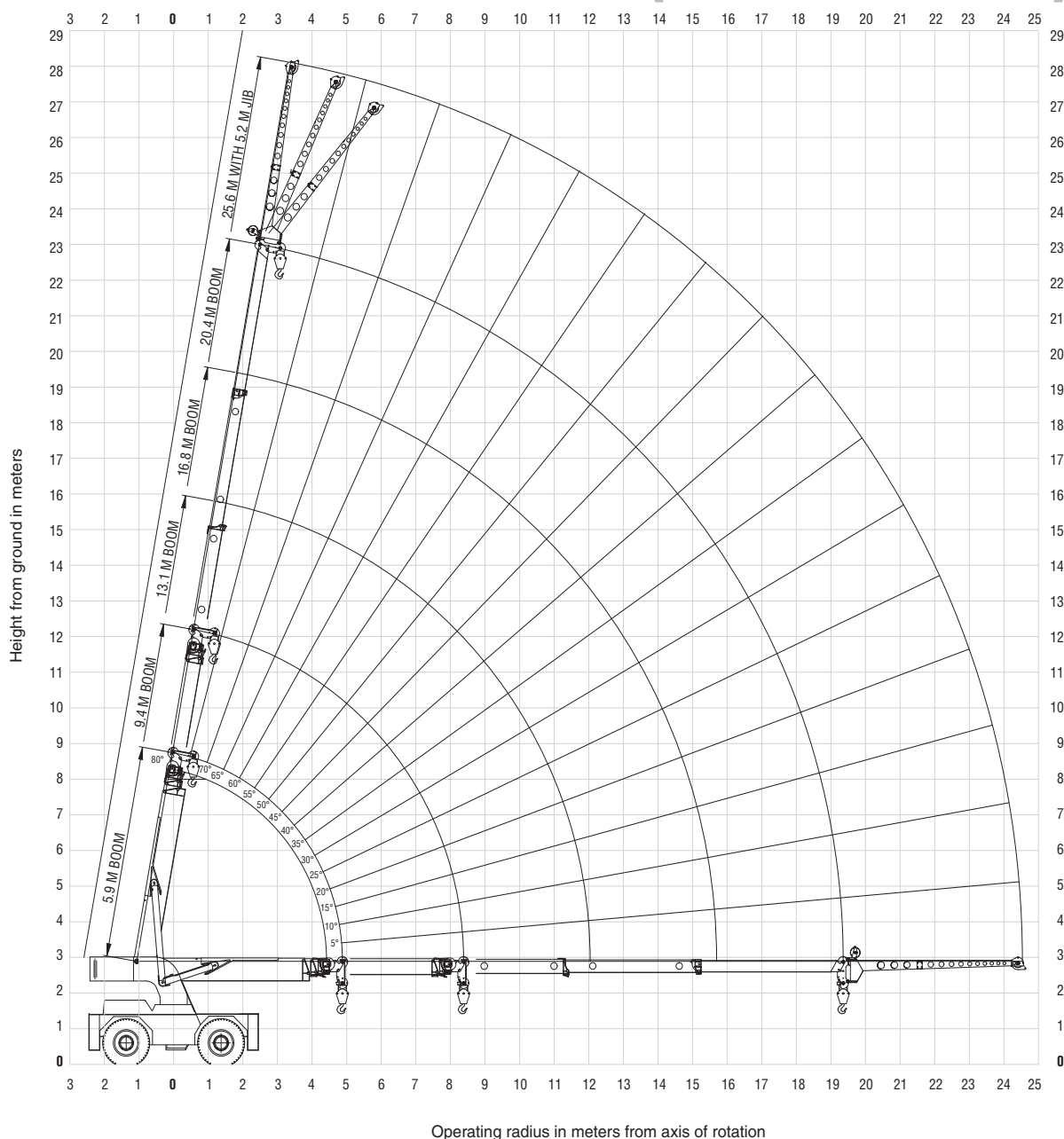
GROVE



range diagram

YB7722XL (5-section boom)

12



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

YB7700 Series

GROVE



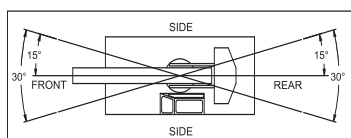
DIN/ISO load chart

YB7722XL (5-section boom)

MAIN BOOM LOAD RATINGS ON OUTRIGGERS Extended and Down 360° or Retracted and Down Front/Rear												
		5.9 m Boom	6.2-9.1 m Boom	9.4 m Boom	9.7-12.8m Boom	13.1 m Boom	13.4-16.5m Boom	16.8 m Boom	17.1-20.1m Boom	20.4 m Boom		
Radius (m)	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)
2.6	58	19960	12020	71	12020	76	11520	79	8850	-	-	-
3.0	52	18140	12020	68	12020	74	11520	78	8850	-	-	-
3.7	44	15330	11400	64	11400	72	10980	76	7930	-	-	-
4.3	33	12330	10390	59	10390	69	10250	74	7300	6580	77	6580
4.9	0	10750	9480	55	9480	66	9070	71	6710	5530	75	5530
5.5	-	-	8750	50	8750	63	8120	69	6210	5080	73	5080
6.1	-	-	7940	45	7940	60	7300	67	5810	4720	71	4720
6.7	-	-	7440	39	7440	56	6620	64	5440	4400	69	4400
7.3	-	-	6550	31	6550	53	6030	62	5080	4130	67	4130
7.9	-	-	5520	22	5520	49	5580	60	4810	3900	66	3900
8.4	-	-	4790	0	4790	47	5150	58	4630	3720	64	3720
9.1	-	-	-	-	-	42	4630	55	4260	3490	62	3490
9.8	-	-	-	-	-	37	4050	52	3950	3310	60	3310
10.4	-	-	-	-	-	32	3560	49	3670	3130	58	3130
11.0	-	-	-	-	-	26	3180	46	3450	2990	56	2990
11.6	-	-	-	-	-	18	2830	43	3180	2860	53	2860
12.0	-	-	-	-	-	0	2580	41	2920	2770	52	2770
12.8	-	-	-	-	-	-	-	36	2540	2540	49	2630
13.4	-	-	-	-	-	-	-	32	2320	2320	47	2470
14.0	-	-	-	-	-	-	-	28	2110	2110	44	2260
14.6	-	-	-	-	-	-	-	23	1910	1910	42	2070
15.2	-	-	-	-	-	-	-	16	1720	1720	39	1920
15.7	-	-	-	-	-	-	-	0	1550	1550	37	1810
16.5	-	-	-	-	-	-	-	-	1470	1640	33	1640
17.1	-	-	-	-	-	-	-	-	1400	29	1510	1510
17.7	-	-	-	-	-	-	-	-	1290	25	1380	1380
18.3	-	-	-	-	-	-	-	-	1220	20	1250	1250
19.4	-	-	-	-	-	-	-	-	1040	0	1040	1040

MAIN BOOM ON RUBBER		
Any Boom Length		
Radius (m)	Front Rating (kg)	360° Rating (kg)
1.8	13610	9530
2.4	12700	8120
3.0	11340	6800
3.7	8890	5200
4.3	6750	4040
4.9	5480	3140
5.5	4250	2550
6.1	3520	1950
6.7	2920	1520
7.3	2450	1170
7.9	2050	930
8.5	1780	810
9.1	1530	670
9.8	1350	550
10.4	1210	440
11.0	1080	350
11.6	960	280
12.2	850	210
12.8	760	160
13.4	660	100
14.0	570	50
14.6	500	10
15.2	440	-
15.8	370	-
16.5	330	-
17.1	280	-
17.7	240	-
18.3	200	-
18.9	170	-
19.4	130	-

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RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (kg)		
	FROM MAIN BOOM	FROM JIB
MAIN BLOCK	180	N/A
HOOK & BALL	50	50
JIB STOWED	0	N/A
JIB DEPLOYED	230	0

MAIN BOOM LOAD RATINGS ON OUTRIGGERS																			
Retracted and Down 360°																			
		5.9 m Boom		6.2-9.1 m Boom		9.4 m Boom		9.7-12.8m Boom		13.1 m Boom		13.4-16.5m Boom		16.8 m Boom		17.1-20.1m Boom		20.4 m Boom	
Radius (m)	Boom Angle (deg)	Rated Load (kg)		Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)		Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)		Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)		Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	
2.6	58	13070		12020	71	12020		11520	76	11520		8850	79	8850		-	-	-	
3.0	52	10110		9360	68	9360		9020	74	9020		8850	78	8850		-	-	-	
3.7	44	7190		6800	64	6800		6800	72	7100		7100	76	7130		6580	78	6580	
4.3	33	5520		5210	59	5210		5210	69	5630		5630	74	5810		5610	77	5610	
4.9	0	4230		4050	55	4050		4050	66	4630		4630	71	4630		4630	75	4720	
5.5	-	-		3210	50	3210		3210	63	3730		3730	69	3810		3810	73	3850	
6.1	-	-		2620	45	2620		2620	60	3060		3060	67	3170		3130	71	3130	
6.7	-	-		2100	39	2100		2100	56	2490		2490	64	2660		2620	69	2620	
7.3	-	-		1710	31	1710		1710	53	2060		2060	62	2230		2230	67	2240	
7.9	-	-		1340	22	1340		1340	49	1720		1720	60	1890		1890	66	1970	
8.4	-	-		1080	0	1080		1080	47	1510		1510	58	1680		1680	64	1780	
9.1	-	-		-	-	-		950	42	1200		1200	55	1380		1380	62	1500	
9.8	-	-		-	-	-		820	37	1000		1000	52	1160		1160	60	1290	
10.4	-	-		-	-	-		670	32	820		820	49	990		990	58	1090	
11.0	-	-		-	-	-		590	26	660		660	46	830		830	56	910	
11.6	-	-		-	-	-		490	18	530		530	43	690		690	53	740	
12.0	-	-		-	-	-		450	0	450		450	41	590		590	52	630	
12.8	-	-		-	-	-		-	-	-		330	36	460		460	49	490	
13.4	-	-		-	-	-		-	-	-		280	32	360		360	47	400	
14.0	-	-		-	-	-		-	-	220		220	28	270		270	44	320	
14.6	-	-		-	-	-		-	-	170		170	23	200		200	42	250	
15.2	-	-		-	-	-		-	-	120		120	16	140		140	39	180	
15.7	-	-		-	-	-		-	-	100		100	0	100		100	37	130	
16.5	-	-		-	-	-		-	-	-		-	-	-		30	33	50	
17.1	-	-		-	-	-		-	-	-		-	-	-		-	29	-	
17.7	-	-		-	-	-		-	-	-		-	-	-		-	25	-	
18.3	-	-		-	-	-		-	-	-		-	-	-		-	20	-	
19.4	-	-		-	-	-		-	-	-		-	-	-		-	0	-	

- The rated loads are the maximum lifting capacities as determined by operating radius, boom length, and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- Rated load columns for discrete boom lengths apply when actual boom length is within +/- 0.3 m. of discrete length. For other boom lengths, use appropriate intermediate boom length column.
- For operating radius not shown, use load rating of next larger radius.
- The rated loads shown on outriggers do not exceed 80% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper handling must all be taken into account by the operator.
- The weights of all load handling devices such as hooks, hook blocks, slings, etc., except for the hoist rope, shall be considered as part of the load. See reduction chart.
- Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (7.6 bar). Loads on rubber may be transported at a maximum speed of 1.4 km/h on a smooth hard level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.
- The maximum combined total boom and deck load is 9070 kg. The maximum deck load only is 13610 kg.
- Do not induce any external side loads to boom or jib.

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH.
DO NOT RELY ON TIPPING.OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING
CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGEROUS
AND VOIDS WARRANTY.

MAXIMUM PERMISSIBLE SINGLE LINE PULL = 4990 kg

WIRE ROPE: 16 mm dia. 6 x 19 XXIPS IWRC BRIGHT
Min. req'd breaking strength = 188.4 kN

5.2 m JIB CAPACITIES ON EXTENDED OUTRIGGERS (kg)					
Main Boom Angle (deg)	Jib Offset Angle				
	0 deg		15 deg		Any Boom Length
	To 16.8 m Main Boom	To 20.4 m Main Boom	To 16.8 m Main Boom	To 20.4 m Main Boom	
80	-	-	2270	2270	1590
75	3400	-	2000	2000	1410
70	2710	-	1770	1770	1270
65	2270	2090	1590	1590	1160
60	1950	1720	1430	1430	1070
55	1720	1500	1290	1290	1000
50	1540	1320	1180	1180	950
45	1380	1180	1090	1090	910
40	1270	1090	1020	1020	880
35	1180	980	980	930	860
30	1090	880	940	840	830
25	1040	790	930	780	-
20	1000	730	910	720	-
15	950	680	880	690	-
10	930	660	-	-	-
5	920	660	-	-	-
0	910	650	-	-	-

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



notes

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YB7700 Series

GROVE



notes



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