

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

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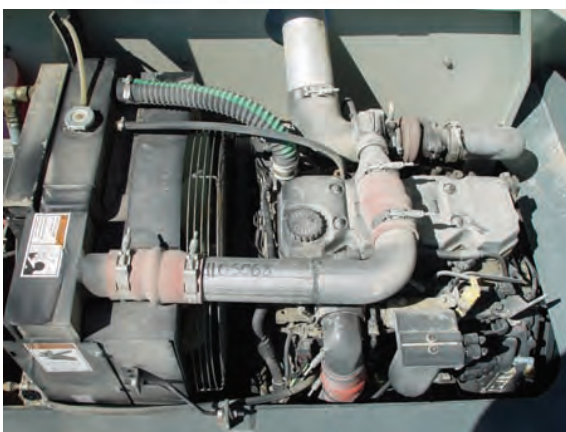


features

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- 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.



- 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: Open air cab shell w/overhead safety glass

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



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

Standard: 17.5 X 25 bias ply tires

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specifications

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

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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

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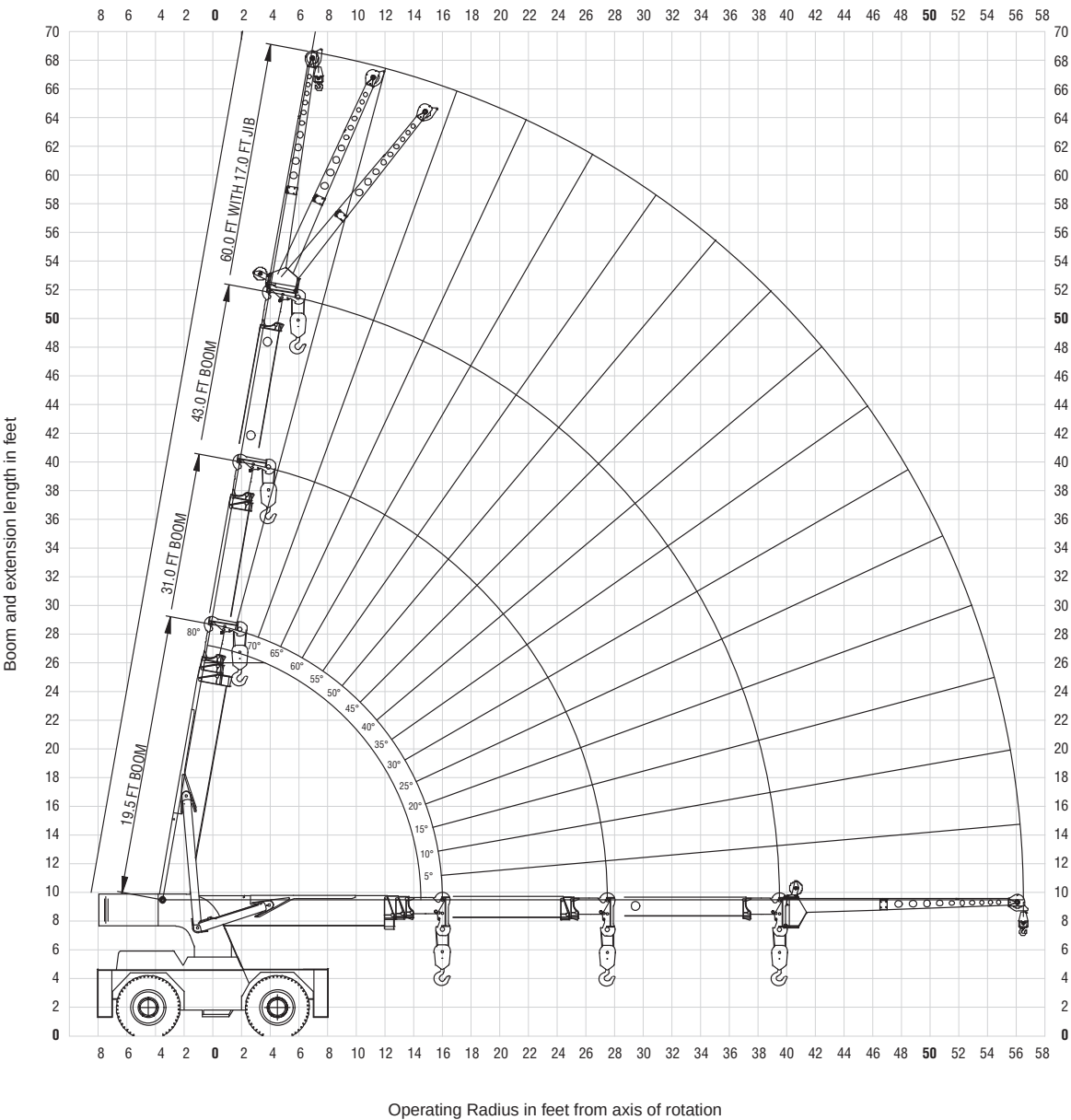
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BIGGE

range diagram

YB7722 (3-section boom)

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YB7700 Series

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.

GROVE



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		43 ft Boom				19.5 ft Boom	
Radius (ft)	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)	Rated Load (lbs)	Radius (ft)	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
10	52	40000	31600	68	31600	28000	74	28000	10	52	24000	22300	68	22300	22000
12	44	33800	30500	64	30500	25000	72	25000	12	44	17200	16300	64	16300	16300
14	33	28500	28500	59	28500	22600	69	22600	14	33	13300	12600	59	12600	12600
16	0	24900	24900	55	25700	20000	66	20000	16	0	10200	9800	55	9800	9800
18	-	-	22800	50	22800	17900	63	17900	18	-	-	7900	50	7900	7900
20	-	-	20200	45	20200	16100	60	16100	20	-	-	6000	45	6000	6000
22	-	-	17800	39	17800	14600	56	14600	22	-	-	5300	39	5300	5300
24	-	-	-	31	15360	13300	53	13300	24	-	-	4300	31	4300	4300
26	-	-	-	22	13200	12300	49	12300	26	-	-	3500	22	3500	3500
27.5	-	-	11600	0	11600	11600	47	11600	27.5	-	-	2900	0	2900	2900
30	-	-	-	-	-	9900	42	10500	30	-	-	-	-	-	2600
32	-	-	-	-	-	8800	37	9800	32	-	-	-	-	-	2300
34	-	-	-	-	-	7800	32	8700	34	-	-	-	-	-	1900
36	-	-	-	-	-	7100	26	7800	36	-	-	-	-	-	1750
39.5	-	-	-	-	-	6400	0	6400	39.5	-	-	-	-	-	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

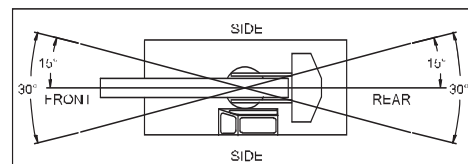
17 FT JIB CAP. ON EXT. OUTRIGGERS (lbs)			
Main Boom Angle (deg)	Jib Offset Angle		
	0 deg	15 deg	30 deg
	Any Boom Length	Any Boom Length	Any Boom Length
80	-	5000	3500
75	7500	4400	3100
70	6100	3900	2800
65	5000	3500	2550
60	4300	3150	2350
55	3800	2850	2200
50	3400	2600	2100
45	3050	2400	2000
40	2800	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

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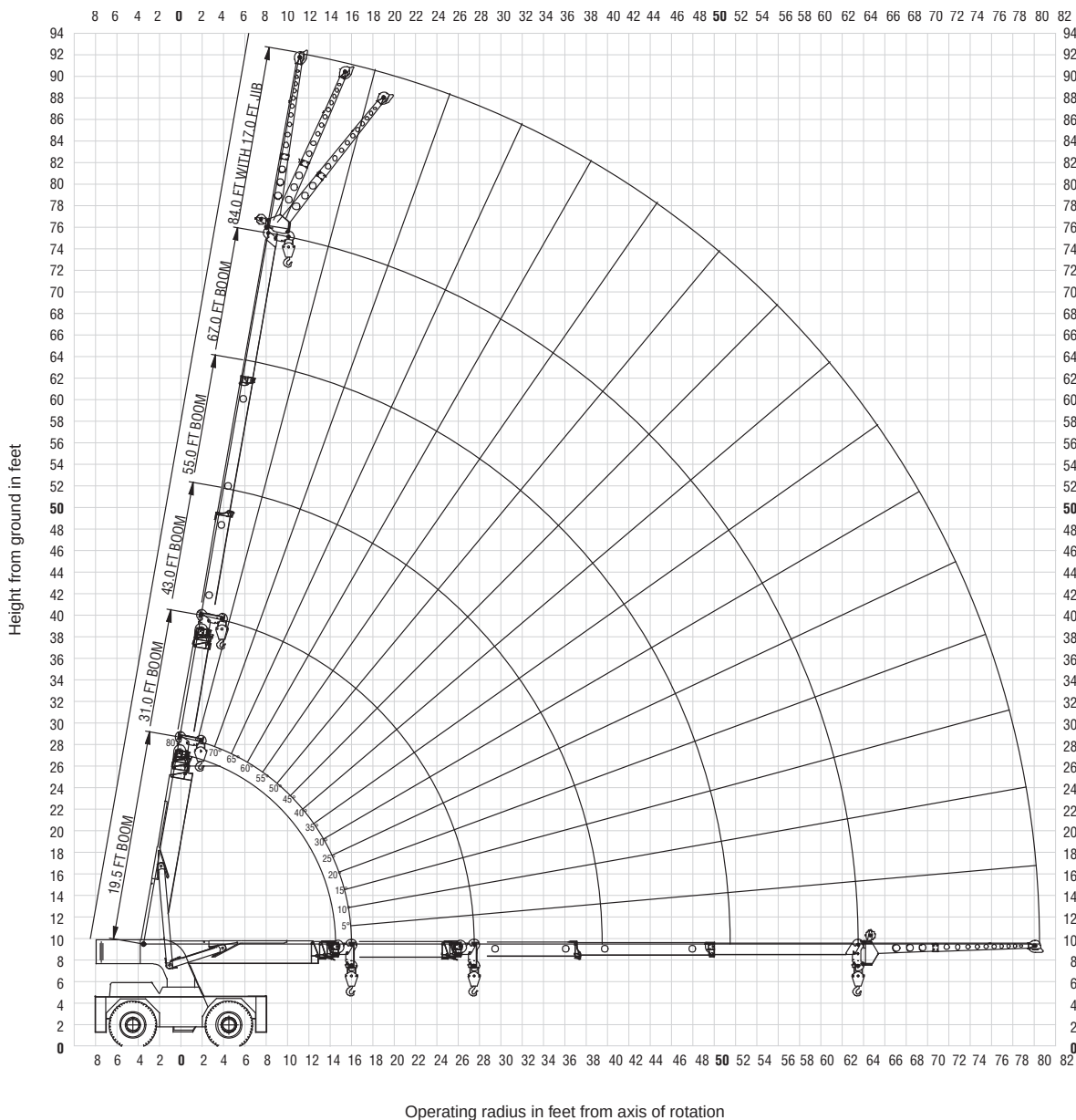
YB7700 Series



range diagram

YB7722 XL (5-section boom)

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GROVE



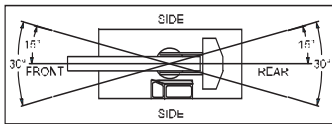
load chart

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)	Rated Load (lbs)	Rated Load (deg)	Rated Load (lbs)	Rated Load (deg)	Rated Load (lbs)	Rated Load (deg)	Rated Load (lbs)	Rated Load (deg)	Rated Load (lbs)	Rated Load (deg)	Rated Load (lbs)	Rated Load (deg)	Rated Load (lbs)	Rated Load (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	33800	25300	64	24200	24200	72	24200	17600	76	17600	14500	78	14500	77	13200	77	13200	
14	33	28500	22900	59	22900	22600	69	22600	16100	74	16100	13200	77	13200	73	12200	73	12200	
16	0	23700	20900	55	20900	20000	66	20000	14800	71	14800	12200	75	12200	70	11200	70	11200	
18	-	-	19300	50	19300	17900	63	17900	13700	69	13700	11200	73	11200	68	10400	68	10400	
20	-	-	17800	45	17800	16100	60	16100	12800	67	12800	10400	71	10400	66	9700	66	9700	
22	-	-	16400	39	16400	14600	56	14600	12000	64	12000	9700	63	9700	63	9100	63	9100	
24	-	-	14700	31	14700	13300	53	13300	11200	62	11200	9100	61	9100	61	8600	61	8600	
26	-	-	13200	22	13200	12300	49	12300	10600	60	10600	8600	59	8600	59	8200	59	8200	
27.5	-	-	11600	0	11600	11600	47	11600	10200	58	10200	8200	57	8200	57	7900	57	7900	
30	-	-	-	-	-	9900	42	10500	9400	55	9400	7700	54	7700	54	7400	54	7400	
32	-	-	-	-	-	8900	37	9600	8700	52	8700	7300	51	7300	51	7000	51	7000	
34	-	-	-	-	-	7900	32	8700	8100	49	8100	6900	48	6900	48	6600	48	6600	
36	-	-	-	-	-	7100	26	7900	7600	46	7600	6600	45	6600	45	6300	45	6300	
38	-	-	-	-	-	6500	18	7000	7000	43	7100	6300	42	6300	42	6000	42	6000	
39.5	-	-	-	-	-	6400	0	6400	6400	41	6800	6100	40	6100	40	5800	40	5800	
42	-	-	-	-	-	-	-	-	5700	36	6300	5800	35	5800	35	5500	35	5500	
44	-	-	-	-	-	-	-	-	5300	32	5900	5600	31	5600	31	5300	31	5300	
46	-	-	-	-	-	-	-	-	4900	28	5500	5300	27	5300	27	5000	27	5000	
48	-	-	-	-	-	-	-	-	4600	23	4900	4800	22	4800	22	4600	22	4600	
50	-	-	-	-	-	-	-	-	4400	16	4400	4400	15	4400	15	4200	15	4200	
51.5	-	-	-	-	-	-	-	-	4000	0	4000	4000	37	4500	37	4200	37	4200	
54	-	-	-	-	-	-	-	-	-	-	-	3900	33	4200	33	3900	33	3900	
56	-	-	-	-	-	-	-	-	-	-	-	3600	29	3900	29	3600	29	3600	
58	-	-	-	-	-	-	-	-	-	-	-	3400	25	3600	25	3300	25	3300	
60	-	-	-	-	-	-	-	-	-	-	-	3200	20	3300	20	3000	20	3000	
62	-	-	-	-	-	-	-	-	-	-	-	3000	14	3000	14	3000	14	3000	
63.5	-	-	-	-	-	-	-	-	-	-	-	2900	0	2900	0	2700	0	2700	

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

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)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	Rated Load (lbs)	
8.5	58	31000	26500	71	26500	25400	76	25400	19500	79	19500	-	-	-	-	-	-	-	-	
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	14500	77	13200	77	13200	77	13200
14	33	13300	12500	59	12500	12500	69	13600	13600	74	14000	13900	76	14000	74	12000	73	11500	73	11500
16	0	10200	9800	55	9800	9800	66	11100	11100	71	11200	11200	71	11200	71	11200	70	9300	70	9400
18	-	-	7900	50	7900	7900	63	9100	9100	69	9300	9300	69	9300	69	9300	68	7700	68	7700
20	-	-	6900	45	6900	6900	60	7900	7900	67	7900	7900	67	7900	67	7900	66	7100	66	7100
22	-	-	5300	39	5300	5300	56	6200	6200	64	6600	6600	64	6600	64	6600	63	5900	63	5900
24	-	-	4300	31	4300	4300	53	5200	5200	62	5600	5600	62	5600	62	5600	61	4900	61	4900
26	-	-	3500	22	3500	3500	49	4400	4400	60	4800	4800	60	4800	60	4800	59	4200	59	4200
27.5	-	-	2900	0	2900	2900	47	3800	3800	58	4300	4300	58	4300	58	4300	57	3800	57	3800
30	-	-	-	-	-	2600	42	4200	4200	55	3600	3600	55	3600	55	3600	54	3100	54	3100
32	-	-	-	-	-	2300	37	2700	2700	52	3100	3100	52	3100	52	3100	51	2600	51	2600
34	-	-	-	-	-	1900	32	2300	2300	49	2700	2700	49	2700	49	2700	48	2200	48	2200
36	-	-	-	-	-	1750	28	1900	1900	46	2300	2300	46	2300	46	2300	45	1800	45	1800
38	-	-	-	-	-	1500	18	1500	1500	43	2000	2000	43	2000	43	2000	42	1500	42	1500
39.5	-	-	-	-	-	1400	0	1400	1400	41	1750	1750	41	1750	41	1750	40	1300	40	1300
42	-	-	-	-	-	-	-	-	1150	35	1450	1450	34	1450	34	1450	33	1100	33	1100
44	-	-	-	-	-	-	-	-	1000	32	1200	1200	32	1200	32	1200	31	900	31	900
48	-	-	-	-	-	-	-	-	850	28	1000	1000	28	1000	28	1000	27	700	27	700
48	-	-	-	-	-	-	-	-	750	23	850	850	23	850	23	850	22	550	22	550
50	-	-	-	-	-	-	-	-	650	16	700	700	16	700	16	700	15	450	15	450
51.5	-	-	-	-	-	-	-	-	600	0	600	600	37	600	37	600	36	400	36	400
54	-	-	-	-	-	-	-	-	-	-	-	450	33	500	33	500	32	350	32	350
56	-	-	-	-	-	-	-	-	-	-	-	350	29	450	29	450	28	250	28	250
58	-	-	-	-	-	-	-	-	-	-	-	250	25	350	25	350	24	150	24	150
60	-	-	-	-	-	-	-	-	-	-	-	150	20	250	20	250	19	100	19	100
62	-	-	-	-	-	-	-	-	-	-	-	50	14	200	14	200	13	50	13	50
63.5	-	-	-	-	-	-	-	-	-	-	-	0	0	250	0	250	0	0	0	0

MAIN BOOM ON RUBBER		
Any Boom Length		
Radius (ft)	Front Rating (lbs)	360° Rating (lbs)
8	30000	21000
10	28000	17800
12	25000	15000
14	19000	12400
16	15500	9500
18	12400	7400
20	9600	6000
22	8100	4800
24	6800	3700
26	5700	3000
28	4900	2350
30	4200	2100
32	3700	1850
34	3300	1550
36	3000	1300
38	2700	1100
40	2500	950
42	2200	800
44	2000	675
46	1800	550
48	1650	450
50	1400	350
52	1300	250
54	1150	200
56	1050	150
58	950	75
60	875	25
62	800	-
63.5	600	-

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

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

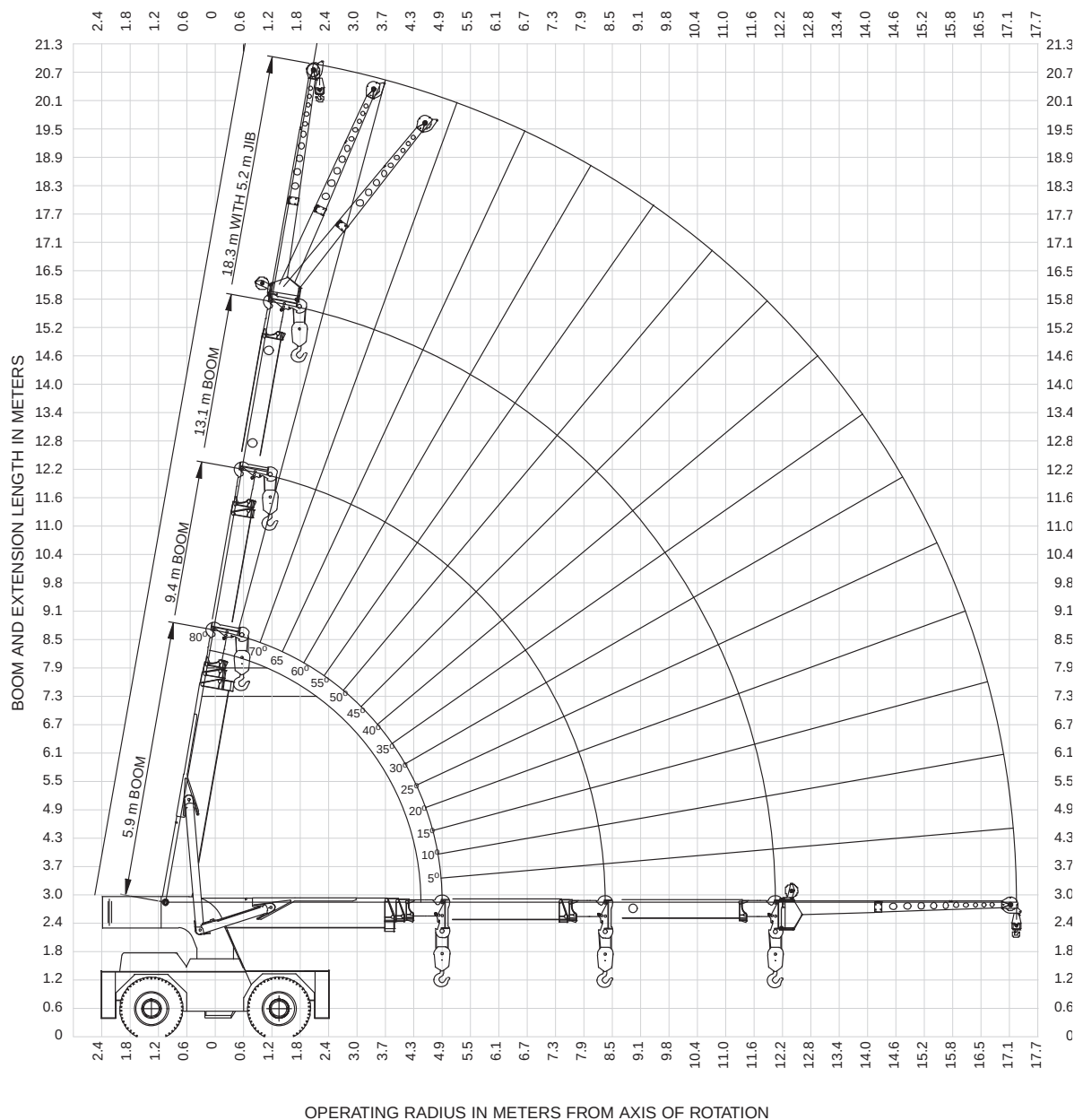
WIRE ROPE: 5/8" inch dia. 6 x 19 XIPS IWRC BRIGIT
Min. rec'd breaking strength = 34,500 lbs

JIB CAPACITIES ON EXTENDED OUTRIGGERS					
Main Boom Angle (deg)	Jib Offset Angle				
	0 deg		15 deg		30 deg
	To 55.0 ft Main Boom	To 67.0 ft Main Boom	To 55.0 ft Main Boom	To 67.0 ft Main Boom	

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.

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											
		5.9 m Boom		6.2-9.1 m Boom		9.4 m Boom		9.7-12.8 m Boom		13.1 m Boom	
Radius	Boom	Rated	Rated	Boom	Rated	Rated	Boom	Rated	Boom	Rated	
(m)	Angle	Load	Load	Angle	Load	Load	Angle	Load	Angle	Load	
	(deg)	(kg)	(kg)	(deg)	(kg)	(kg)	(deg)	(kg)	(deg)	(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		13.1 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)	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

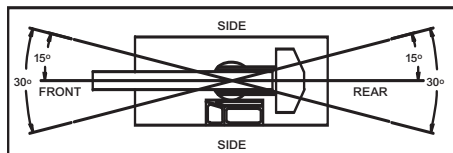
MAIN BOOM ON RUBBER		
Any Boom Length		
Radius (m)	Front Rating (kg)	360° Rating (kg)
1.8	13610	9520
2.4	12700	8120
3.0	11340	6800
3.7	8890	5470
4.3	6990	4340
4.9	5570	3320
5.5	4520	2680
6.1	3620	2070
6.7	2940	1620
7.3	2480	1260
7.9	2070	980
8.5	1760	810
9.1	1530	670
9.8	1350	550
10.4	1210	440
11.0	1080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

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YB7700 Series

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.

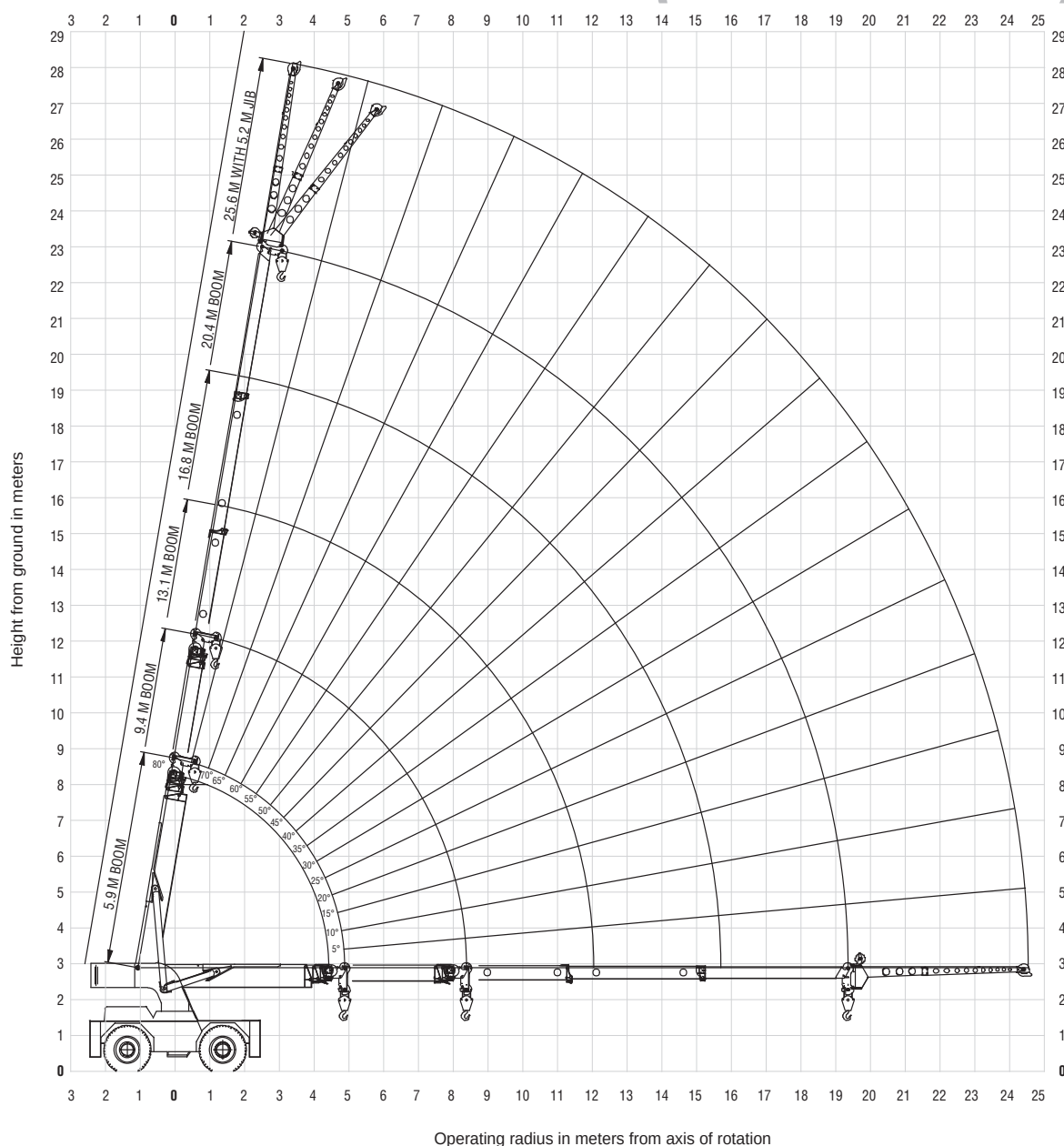
GROVE



range diagram

YB7722XL (5-section boom)

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YB7700 Series

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.

GROVE

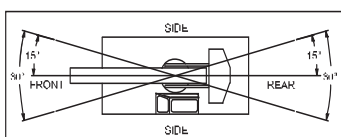
DIN/ISO load chart

YB7722XL (5-section boom)

MAIN BOOM LOAD RATINGS ON OUTRIGGERS																		
Extended and Down 90° or Retracted and Down Front/Rear																		
Radius (m)	5.9 m Boom		8.2-9.1 m Boom		9.4 m Boom		9.7-12.0m Boom		13.1 m Boom		13.4-16.5m Boom		16.9 m Boom		17.1-21.1m Boom		21.4 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)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)	Rated Load (kg)	Boom Angle (deg)	Rated Load (kg)
2.8	50	19900	12020	71	12020	11520	76	11520	8950	79	8950	-	-	-	-	-	-	-
3.0	52	18140	12020	69	12020	11520	74	11520	8950	78	8950	-	-	-	-	-	-	-
3.7	44	15330	11490	64	11490	10990	72	10990	7990	76	7990	-	-	6590	70	6590	-	-
4.3	33	12930	10390	59	10390	10290	69	10290	7300	74	7300	5930	77	5930	-	-	-	-
4.9	0	10750	9490	54	9490	9070	66	9070	6710	71	6710	5530	75	5530	-	-	-	-
5.5	-	-	8750	50	8750	8120	63	8120	6210	69	6210	5090	73	5090	-	-	-	-
6.1	-	-	7940	45	7940	7300	61	7300	5910	67	5910	4720	71	4720	-	-	-	-
6.7	-	-	7440	39	7440	6620	59	6620	5440	64	5440	4400	69	4400	-	-	-	-
7.3	-	-	6940	31	6940	6030	53	6030	5090	62	5090	4130	67	4130	-	-	-	-
7.9	-	-	5520	22	5520	4810	49	5590	4910	60	4910	3000	68	3000	-	-	-	-
8.4	-	-	4790	0	4790	4150	47	4790	4530	58	4530	3720	64	3720	-	-	-	-
9.1	-	-	-	-	-	4050	42	4050	4260	55	4260	3490	62	3490	-	-	-	-
9.9	-	-	-	-	-	3990	37	4050	3990	52	3990	3310	60	3310	-	-	-	-
10.4	-	-	-	-	-	3180	32	3590	3590	49	3670	2530	58	2530	-	-	-	-
11.0	-	-	-	-	-	2990	28	3190	3190	46	3490	2200	56	2200	-	-	-	-
11.6	-	-	-	-	-	2990	19	2990	2990	43	3190	2080	53	2080	-	-	-	-
12.0	-	-	-	-	-	2990	0	2990	2990	41	2990	2770	52	2770	-	-	-	-
12.9	-	-	-	-	-	-	-	-	2290	36	2940	2940	49	2630	-	-	-	-
13.4	-	-	-	-	-	-	-	-	2120	32	2920	2920	47	2640	-	-	-	-
14.0	-	-	-	-	-	-	-	-	1990	28	2110	2110	44	2290	-	-	-	-
14.6	-	-	-	-	-	-	-	-	1910	23	1910	1910	42	2070	-	-	-	-
15.2	-	-	-	-	-	-	-	-	1710	19	1720	1720	39	1920	-	-	-	-
15.7	-	-	-	-	-	-	-	-	1590	0	1590	1590	37	1910	-	-	-	-
16.5	-	-	-	-	-	-	-	-	-	-	1470	38	1690	-	-	-	-	-
17.1	-	-	-	-	-	-	-	-	-	-	1400	29	1510	-	-	-	-	-
17.7	-	-	-	-	-	-	-	-	-	-	1290	25	1590	-	-	-	-	-
18.3	-	-	-	-	-	-	-	-	-	-	1220	20	1290	-	-	-	-	-
19.4	-	-	-	-	-	-	-	-	-	-	1140	0	1140	-	-	-	-	-

MAIN BOOM ON RUBBER		
Radius (m)	Front Hauling (kg)	Rear Hauling (kg)
1.8	13610	9530
2.4	12700	8120
3.0	11340	6920
3.7	8920	5710
4.3	6790	4490
4.9	5490	3140
5.5	4790	2590
6.1	3520	1990
6.7	2920	1520
7.3	2490	1170
7.9	2090	990
8.5	1790	810
9.1	1590	670
9.7	1390	590
10.4	1210	490
11.0	1090	390
11.6	990	290
12.2	890	210
12.8	790	160
13.4	690	100
14.0	590	50
14.6	490	0
15.2	490	-
15.8	390	-
16.5	290	-
17.1	290	-
17.7	290	-
18.3	290	-
19.4	190	-

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RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (kg)		
	FROM MAIN BOOM	FROM JIB
MAIN BLOCK	10%	N/A
HOOK & BALL	5%	5%
JIB STAYERS	0	N/A
JIB DEPLOYED	25%	0

MAIN BOOM LOAD RATINGS ON OUTRIGGERS Retracted and Down 90°																		
Radius (m)	5.9 m Boom		6.2-9.1 m Boom		9.4 m Boom		9.7-12.0m Boom		13.1 m Boom		13.4-16.5m Boom		16.9 m Boom		17.1-21.1m Boom		21.4 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)	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	50	15170	12020	71	12020	11520	76	11520	8950	70	8950	-	-	-	-	-	-	
3.0	52	14110	11990	69	11990	11520	74	11520	8950	70	8950	-	-	-	-	-	-	
3.7	44	11910	10990	64	10990	10990	72	11000	7100	76	7100	5530	75	5530	77	5530	75	
4.3	33	10210	10210	59	10210	10210	69	10210	7650	74	7650	5930	77	5930	77	5930	75	
4.9	0	12930	10390	54	10390	9070	66	9050	6650	71	6650	5530	75	5530	77	5530	75	
5.5	-	-	8710	50	8710	8120	63	8120	6750	69	6750	5090	73	5090	75	5090	73	
6.1	-	-	7940	45	7940	7300	61	7300	5900	67	5900	4720	71	4720	71	4720	71	
6.7	-	-	7440	39	7440	6620	59	6620	5490	64	5490	4400	69	4400	69	4400	69	
7.3	-	-	6940	31	6940	6030	53	6030	5090	62	5090	4130	67	4130	67	4130	67	
7.9	-	-	5520	22	5520	4810	49	4810	4330	61	4330	3720	64	3720	64	3720	64	
8.4	-	-	4790	0	4790	4150	47	4150	3810	60	3810	3490	62	3490	62	3490	62	
9.0	-	-	-	-	-	3990	37	3990	3260	52	3260	3110	60	3110	60	3110	60	
10.1	-	-	-	-	-	3180	32	3200	2590	49	2590	2530	58	2530	58	2530	58	
11.0	-	-	-	-	-	2990	28	2990	2390	46	2390	2200	56	2200	56	2200	56	
11.6	-	-	-	-	-	2990	19	2990	2390	43	2390	2100	53	2100	53	2100	53	
12.0	-	-	-	-	-	2990	0	2990	2390	41	2390	2070	52	2070	52	2070	52	
12.6	-	-	-	-	-	-	-	-	2390	36	2400	2040	49	2040	49	2040	49	
13.1	-	-	-	-	-	-	-	-	2120	32	2130	2020	47	2020	47	2020	47	
14.0	-	-	-	-	-	-	-	-	1990	28	2000	2110	44	2110	44	2110	44	
14.6	-	-	-	-	-	-	-	-	1910	23	1920	2100	42	2100	42	2100	42	
15.2	-	-	-	-	-	-	-	-	1710	19	1720	1720	39	1720	39	1720	39	
15.7	-	-	-	-	-	-	-	-	1590	0	1600	1590	37	1590	37	1590	37	
16.5	-	-	-	-	-	-	-	-	-	-	1470	38	1480	38	1480	38	1480	
17.1	-	-	-	-	-	-	-	-	-	-	1400	29	1410	29	1410	29	1410	
17.7	-	-	-	-	-	-	-	-	-	-	1290	25	1300	25	1300	25	1300	
18.3	-	-	-	-	-	-	-	-	-	-	1220	20	1230	20	1230	20	1230	
19.4	-	-	-	-	-	-	-	-	-	-	1140	0	1150	0	1150	0	1150	

- 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 dock load is 9070 kg. The maximum dock load only is 13910 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 PERMITTED SINGLE LIFT LIMIT = 1090 kg

WIRE ROPE : 16 mm dia. 6 x 19 XXLS (VRC BRIGHT)
Min. rope breaking strength = 109.4 kN

5.9 m JIB CAPACITIES ON EXTENDED OUTRIGGERS (kg)					
Main Boom Angle (deg)	Jib Offset Angle				
	0 deg		15 deg		30 deg
	To 16.9 m Main Boom	To 21.4 m Main Boom	To 16.9 m Main Boom	To 21.4 m Main Boom	Any Boom Length
0°	-	-	2270	2270	1530
7°	3400	-	2000	2000	1410
7°	3770	-	1770	1770	1270
6°	2270	2090	1530	1530	1160
6°	1050	1720	1430	1430	1070
5°	1720	1500	1290	1290	1000
5°	1540	1320	1190	1190	950
4°	1380	1180	1090	1090	910
4°	1270	1090	1020	1020	880
3°	1180	980	980	930	860
3°	1020	880	940	840	800
2°	1040	790	790	780	-
2°	1000	730	710	720	-
1°	950	680	680	690	-
1°	930	660	-	-	-
0°	910	640	-	-	-

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.

GROVE



notes

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notes

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Printed in USA

Form No. YB7700 Series

Part No. 04-021 / 0708 / 1M



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