GROVE

YB7700 Series





• 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

• 17 ft. (5.18m) offsettable swingaway extension

• 130 bhp (97.0 kW) Cummins QSB4.5L (Tier III) diesel engine

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YB7722 / XL

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YB7722

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YB7722/XL (metric)

Range Diagram

DIN/ISO Load Chart

Range Diagram

DIN/ISO Load Chart





Industrial Hydraulic Crane



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





glass

Optional: Closed cab with hinged door, heater,

defroster, and glass



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: 4-wheel drive and 4-wheel steer and

crab steer with electronic self-

alignment

Standard: 17.5 X 25 bias ply tires



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.

T 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)

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

*Denotes optional equipment

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 antiskid 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.

Uutrigger 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.

T 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.

니 Tires

17.5 x 25 Bias (std.)

*17.5 R 25 radial

O 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

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

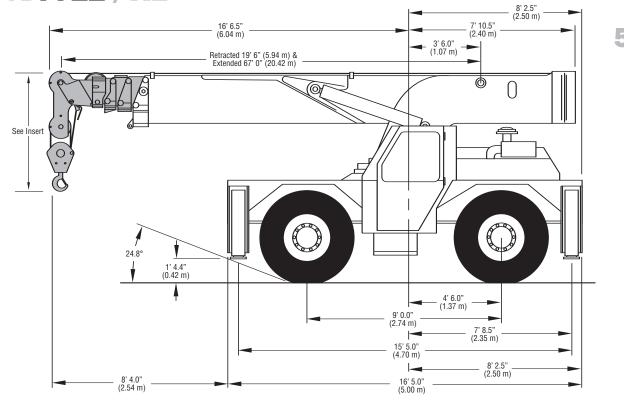
**Theoretical

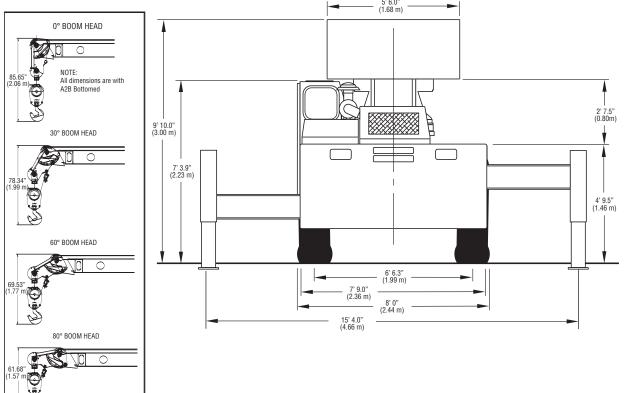




dimensions

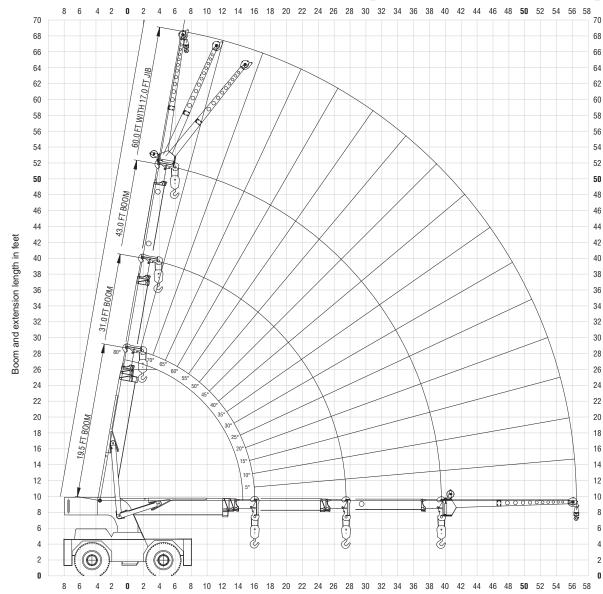
YB7722 / XL





range diagram

YB7722 (3-section boom)



Operating Radius in feet from axis of rotation



YB7722 (3-section boom)

		Ext	MAIN BOOM LO ended and Down 3				ear					
	19.5	ft Boom	20.5-30 ft Boom	31 ft	Boom	32-42 ft Boom	43 ft Boom		1	İ	19.5 f	ft Bo
Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (I bs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (I bs)	Boom Angle (deg)	Rated Load (lbs)		Radius (ft)	Boom Angle (deg)	F L
8.5 10	58 52	44000 40000	26500 31600	71 68	26500 31600	25400 28000	76 74	25400 28000		8.5 10	58 52	3
12	44	33800	30500	64	30500	25000	72	25000	ı	12	44	1
14	33	28500	28500	59	28500	22600	69	22600	ı	14	33	1:
16 18	0	24900	24900 22800	55 50	25700 22800	20000 17900	66 63	20000 17900	ı	16 18	0	11
20	-		20200	45	20200	16100	60	16100	ı	20		
22	-	-	17800	39	17800	14600	56	14600	ı	22	-	
24	-	-	15360	31	15360	13300	53	13300	ı	24	-	
26	-	-	13250	22	13250	12300	49	12300	ı	26	-	
27.5	-	-	11600	0	11600	11600	47	11600	ı	27.5	-	
30	-	-	-	-	-	9900	42	10500		30	-	
32	-	-	-	-	-	8800	37	9800		32	- 1	
34	-	-	-	-	-	7800	32	8700		34	-	
36	-	-	-	-	-	7100	26	7800		36	- 1	

		MAIN BOOM LOAD RATINGS ON OUTRIGGERS Retracted and Down 360°									
	19.5 f	19.5 ft Boom 20.5-30 ft Boom 31 ft Boom 32-42 ft Boom									
Radius (ft)	Boom Rated Angle Load (deg) (lbs)		le Load Load Angle Load		Rated Load (I bs)	Boom Angle (deg)	Rated Load (Ibs)				
8.5					26500	25400	76	25400			
10				68	22300	22000	74	22000			
12				64	16300	16300	72	17000			
14	33 13300 12500 0 10200 9800			59	12500	12500	69	13600			
16			55	9800	9800	66	11100				
18	- 1	-	7900	50	7900	7900	63	9100			
20	-	-	6500	45	6500	6500	60	7500			
22	-	-	5300	39	5300	5300	56	6200			
24	- 1	-	4300	31	4300	4300	53	5200			
26	-	-	3500	22	3500	3500	49	4400			
27.5	- 1	-	2900	0	2900	2900	47	3900			
30	- 1	-	-	-	-	2600	42	3200			
32	-	-	-	-	-	2300	37	2700			
34	-	-	-	-	-	1900	32	2300			
36	-	-	-	-	-	1750	26	1900			
39.5	-	-	-	-	-	1400	0	1400			

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

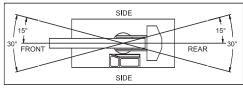
17 F	17 FT JIB CAP. ON EXT. OUTRIGGERS (lbs)								
	Jib Offset Angle								
Main Boom	0 deg	15 deg	30 deg						
Angle (deg)	Any Boom Length	Any Boom Length	Any Boom Length						
80	-	5000	3500						
75	7500	4400	3100						
70	6100	3900	2800						
65	5000	3500	2550						
60	4300	3150	2350						
55	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.
- 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 the hoist rope, shall be considered as part of the load. See reduction chart.
- Ratings on outrigggers 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.

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					

range diagram

YB7722 XL (5-section boom)

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 **50** 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 67.0 FT BOOM 4 55.0 FT BOOM Height from ground in feet 43.0 FT BOOM 31.0 FT BOOM **(** 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 **50** 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82

Operating radius in feet from axis of rotation

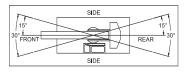


load chart

YB7722 XL (5-section boom)

	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					Boom	56-66 ft Boom	67 ft	Boom
Radius (ft)	Boom Angle (deg)	Rated Load (I bs)	Rated Load (I bs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (I bs)	Boom Angle (deg)	Rated Load (lbs)	Rated Load (I bs)	Boom Angle (deg)	Rated Load (Ibs)	Rated Load (I bs)	Boom Angle (deg)	Rated Load (lbs)
(ft) 8.5 10 12 14 16 18 20 22 24 26 27.5 30 32 34 36 38 39.5 42 44 46 48									(lbs) 19500 19500 17600 17600 16100 14800 13700 12800 11200 11200 10600 10600 10200 9400 8700 8100 7000 6400 5700 5700 5300 4900 4600	(deg) 79 78 76 74 71 69 67 64 62 60 58 55 52 49 46 43 41 36 32 28 23	(lbs) 19500 19500 19500 17500 16100 14800 12800 12800 11200 10200 9400 8700 8700 8700 6800 7100 6800 5800 5800	(lbs)	(deg)	(lbs)
50 51.5	:	-		-	-	-	-	-	4400 4000	16 0	4400 4000	4400 4000	39 37	4700 4600
54 56 58 60 62 63.5		-	- - - -	-	-	- - - -	-	-	- - - -	-	-	3800 3600 3400 3200 3000 2800	33 29 25 20 14 0	4200 3900 3600 3300 3000 2800

RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (lbs)								
HANDLING DE								
	FROM	FROM						
	MAIN BOOM	J I B						
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.
- 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
- 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.
- 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.
- 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 shorted 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°													
	19.51	t Boom	20.5-30 ft Boom	31 ft	Boom	32-42 ft Boom		Boom	44-54 ft Boom	55 ft	Boom	56-66 ft Boom	67 ft	Boom
Radlus (ft)	Boom Angle (deg)	Rated Load (Ibs)	Rated Load (I bs)	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 (I bs)	Boom Angle (deg)	Rated Load (lbs)
8.5 10 12 14 16 18 20 22 24 26 27.5 30 32 34 36 38 39.5 42 44 46 48 50 51.5 54	58 52 444 33 0	31000 24000 17200 13300 10200 - - - - - - - - - - - - - -	26500 22300 16300 16300 12500 9800 7900 6500 5300 4300 2900	71 68 64 59 55 50 45 39 31 22 0	26500 22300 16300 12500 9800 7900 6500 5300 4300 3500 2900 - - - - -	25400 22000 22000 16300 12500 9800 7900 6500 5300 4300 2800 2800 2800 1950 1400	76 74 72 69 66 63 60 55 49 47 42 37 32 26 18 0	25400 222000 17000 13600 13100 9100 7500 6200 5200 3200 2700 2300 1900 1400 -	19500 19500 19500 17000 13600 11100 9100 7500 6200 5200 4400 3200 2700 1300 1300 1400 1400 1410 1150 1000 650 650 660	79 78 76 74 71 69 67 64 62 60 58 55 52 49 46 43 41 36 32 28 23 16	19500x 19500x 19500 17100 14000 11200 9300 7800 6600 5600 4300 3100 2700 2300 2700 2300 1750 1450 1200 1000 850 700 6600	14500 13200 13200 13200 9300 7700 6500 5600 4800 4800 2300 2300 2200 2200 2200 1450 1450 1450 1600 600 450	78 77 75 73 71 69 67 66 64 62 60 58 56 53 52 49 47 44 42 39 37 33	
56 58 60	-	-		-	-	- - -	-	-	-	-	-	350 250 150	29 25 20	350 250 150
62 63.5	-	-	:	-	-	-	-	-	-	:	-	50 -	14 0	50 -

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

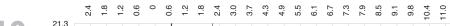
	SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.
	ODERATION OF THE FOLIRMENT IN EVEROS OF RATING
	OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGEROUS
_	AND VOIDS WARRANTY.
	MAXIMUM PERMISSIBLE SINGLE LINE PULL = 11,000 lbs

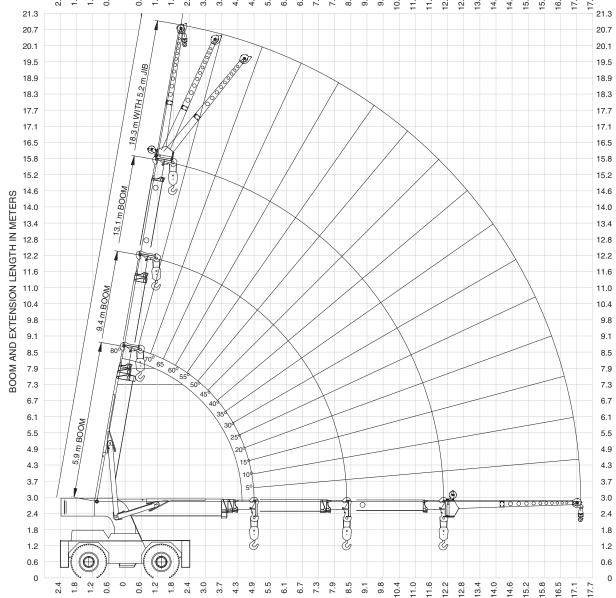
	/8 Inch dla. 6 x 19 XIPS IWRC BRIGHT
Mir	n. req'd breaking strength = 38,500 lbs
47 FT UD	OADAOITICO ON EVITENDED OUTDIOGEDO

	17 FT JIB CAPACITIES ON EXTENDED OUTRIGGERS							
Maln			l i b Offset Angle)				
Boom	0	deg	15	deg	30 deg			
Angle (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	Any Boom Length			
80 75 70 65 60 55 50 45 40 35 30 25 20 15	7500 6100 5000 4300 3800 3400 3050 2800 2400 2400 2200 2100 2050 2020	4600 3800 3800 2900 2600 2400 2150 1930 1750 1600 1460 1450	5000 4400 3900 3500 3150 2850 2600 2400 2250 2150 2050 2050 2000 1950	5000 4400 3900 3500 3150 2850 2600 2400 2250 2050 1850 1720 1590	3500 3100 2800 2550 2350 2200 2100 2000 1950 1900 1830			
ő	2000	1440	-	-				

range diagram

YB7722 (3-section boom)





OPERATING RADIUS IN METERS FROM AXIS OF ROTATION

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	13.1 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)					
2.6 3.0	58 52	19960 18140	14330 14330	71 68	14330 14330	12700 12700	76 74	12700 12700					
3.7	44	15350	13830	64	13830	11340	72	11340					
4.3	33	12930	12930 10740	59 55	12930 11660	10270 9090	69 66	10270 9090					
4.9 5.5	0 -	10740	10740	50	10340	8110	63	8110					
6.1	-	-	8900	45	8900	7300	60	7300					
6.7	-	-	7710 6550	39 31	7710 6550	6620 6050	56 53	6620 6050					
7.3 7.9	-	-	5520	22	5520	5520	49	5560					
8.4	-	-	4790	0	4790	4790	47	5150					
9.1	-	-	-	-	-	4050	42	4630					
9.8 10.4	-	-		-	-	3580 3160	37 32	4050 3560					
11.0		_		-	-	2880	26	3180					
12.0	-	-	-	-	-	2580	0	2580					

	MAIN BOOM LOAD RATINGS ON OUTRIGGERS Retracted and Down 360°												
	5.9 m	Boom	6.2-9.1 m Boom	9.4 m	Boom	9.7-12.8 m Boom	13.1 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)					
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	-	-	l -	-	-	450	0	450					

	ON RUBBER							
	Any Boom Length							
Radius (m)	Front Rating (kg)	360° Rating (kg)						
1.8 2.4 3.0	13610 12700 11340	9520 8120 6800						
3.7	8890	5470						
4.3	6990	4340						
4.9 5.5	5570 4520	3320 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 1210	550 440						
10.4 11.0	1210	440 350						
11.6	960	280						
12.0	900	280						
12.0	300	210						

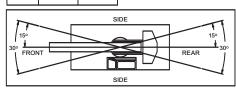
MAIN BOOM

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.

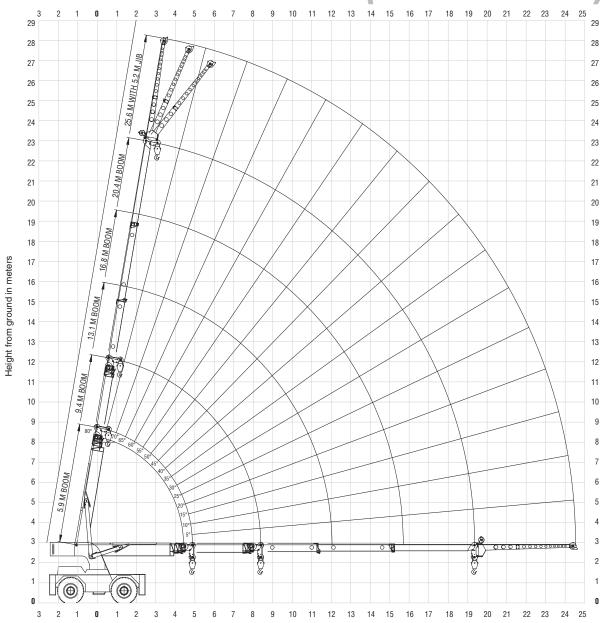
MAXIMUM PERMISSIBLE SINGLE LINE PULL = 4990 kg

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								

- The rated loads are the maximum lifting capacities as determined by operating radius, boom length, and boom angle. The operating radius is the horizontal distancefrom 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.
- 4) 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.
- 5) 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.
- 6) Ratings on outrigggers 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
- 7) 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.



Operating radius in meters from axis of rotation



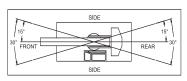
DIN/ISO load chart

YB7722XL (5-section boom)

	MAIN BOOM LOAD RATINGS ON OUTRIGGERS Extended and Down 360° or Retracted and Down Front/Rear													
	5.9 n	n Boom	6.2-9.1 m Boom	9.4 n	n Boom	9.7-12.8m Boom		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 3.0 3.7 4.3 4.9 5.5 6.1 6.7 7.3 7.9	58 52 44 33 0	19960 18140 15330 12930 10750	12020 12020 11480 10390 9480 8750 7940 7440 6550 5520	71 68 64 59 55 50 45 39 31 22	12020 12020 11480 10390 9480 8750 7940 7440 6550 5520	11520 11520 10980 10250 9070 8120 7300 6620 6030	76 74 72 69 66 63 60 56 53 49	11520 11520 10980 10250 9070 8120 7300 6620 6030 5580	8850 8850 7980 7300 6710 6210 5810 5440 5080 4810	79 78 76 74 71 69 67 64 62 60	8850 8850 7980 7300 6710 6210 5810 5440 5080 4810	6580 5990 5530 5080 4720 4400 4130 3900	78 77 75 73 71 69 67 66	6580 5990 5530 5080 4720 4400 4130 3900
8.4 9.1 9.8 10.4 11.0	-	-	4790 - - -	0	4790	4790 4050 3580 3160 2880	47 42 37 32 26	5150 4630 4050 3560 3180	4630 4260 3950 3560 3180	58 55 52 49 46	4630 4260 3950 3670 3450	3720 3490 3310 3130 2990	64 62 60 58 56	3720 3490 3310 3130 2990
11.6 12.0 12.8 13.4 14.0	-	-	-	-	-	2600 2580 - -	18 0 -	2830 2580 -	2830 2580 2280 2120 1960	43 41 36 32 28	3180 2920 2540 2320 2110	2860 2770 2540 2320 2110	53 52 49 47 44	2860 2770 2630 2470 2260
14.6 15.2 15.7 16.5 17.1	-	-	- - - -	-	-	-	-	-	1810 1710 1550	23 16 0	1910 1720 1550 -	1910 1720 1550 1470 1400	42 39 37 33 29	2070 1920 1810 1640 1510
17.7 18.3 19.4	-	- -	- - -	-	-		-	-	- - -	-	- - -	1290 1220 1040	25 20 0	1380 1250 1040

	MAIN BOOM						
	ON RUBBER						
	Any Boom Length						
	Front	360°					
Radlus	Rating	Rating					
(m)	(kg)	(kg)					
1.8	13610	9530					
2.4	12700	8120					
3.0	11340	6800					
3.7	8890	5200					
4.3	6750	4040					
4.9	5460	3140					
5.5	4250	2550					
6.1	3520	1950					
6.7	2920	1520					
7.3	2450	1170					
7.9	2050	930					
8.5	1760	810					
9.1	1530	670					
9.8	1350	550					
10.4	1210	440					
11.0	1080	350					
11.6	960	280					
12.2	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	-					

13



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							

	Retracted and Down 360°													
	5.9 n	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 3.0 3.7 4.3 4.9 5.5 6.1 6.7 7.3 7.9 8.4 9.1 9.8 10.4 11.0 11.6 12.0 12.8									(kg) 8850 8850 7100 6830 4630 3700 3060 2490 2060 1720 1510 1200 1000 820 660 530 450 330	(deg) 79 78 76 74 71 69 67 64 62 60 58 55 52 49 46 43 41 36	(kg) 8850 8850 7130 5810 4630 3810 3170 2660 2230 1890 1680 1160 990 830 690 460	(kg)	(deg)	(kg)
13.4 14.0 14.6 15.2 15.7 16.5 17.1 17.7 18.3 19.4	-		- - - - - - - - -		-	- - - - - - - - -		-	280 220 170 120 100 - - - - -	32 28 23 16 0 - -	360 270 200 140 100 - - - -	360 270 200 140 100 30 - - -	47 44 42 39 37 33 29 25 20 0	400 320 250 180 130 50 -

MAIN BOOM LOAD RATINGS ON OUTRIGGERS

- The rated loads are the maximum lifting capacities as determined by operating ridius, boom length, and boom angle. The operating radius is the horizontal distance from a projection of the asks 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.
- 4) 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 varface, 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.
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- 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 thes 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 shorted length possible and centered over front, For 360° ratings on rubber, rear axie oscillation locks must be in place. Do not use jib with crane on rubber.
- 8) The maximum combined total boom and deck load is 9070 kg. The maximum deck load only is 13610 kg.
- 9) Do not induce any external side loads to boom or jib.

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH,

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 J I B	CAPACITIES ON	EXTENDED OUT	FRIGGERS (kg)							
Maln	Jlb Offset Angle										
Boom	0	deg	15	deg	30 deg						
Angle (deg)	To 16.8 m Main Boom	To 20.4 m Main Boom	To 16.8 m Main Boom	To 20.4 m Main Boom	Any Boom Length						
80	-	-	2270	2270	1590						
75	3400	-	2000	2000	1410						
70	2770	-	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	-	-	-						

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