GUAY

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

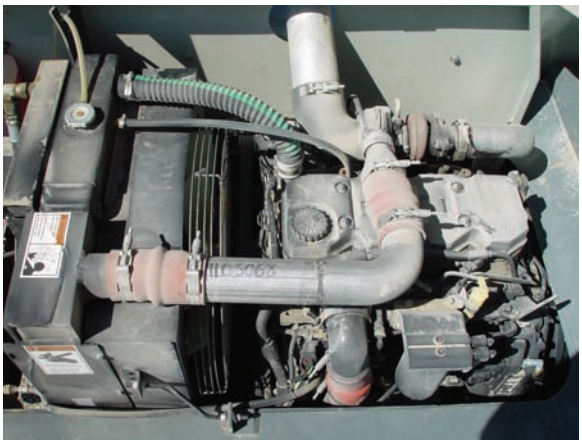


- Two position beam – jack style outriggers
- All beams or jacks can be extended or retracted at the same time



Standard: Open air cab shell w/overhead safety 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.



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

Standard: 17.5 X 25 bias ply tires



- 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

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

specifications

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)

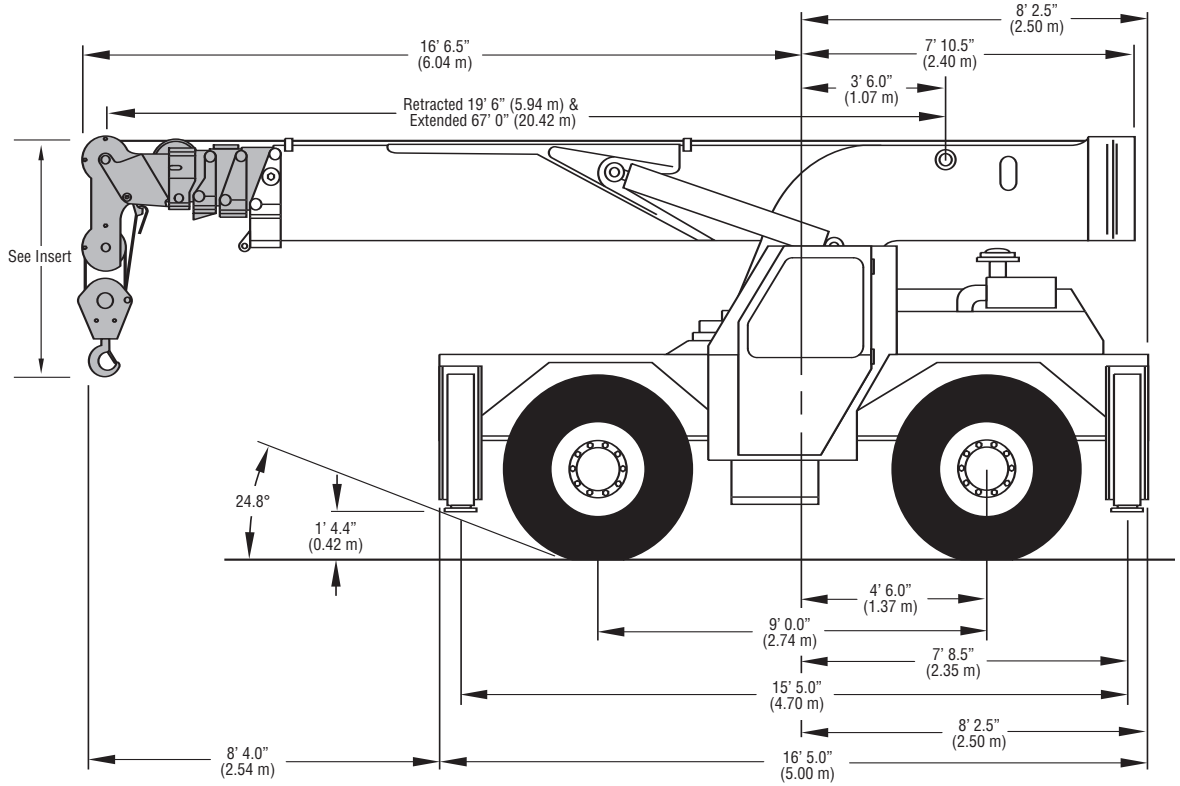
Gradeability**
63%....no load
38%....30,000lb (13 608kg) load

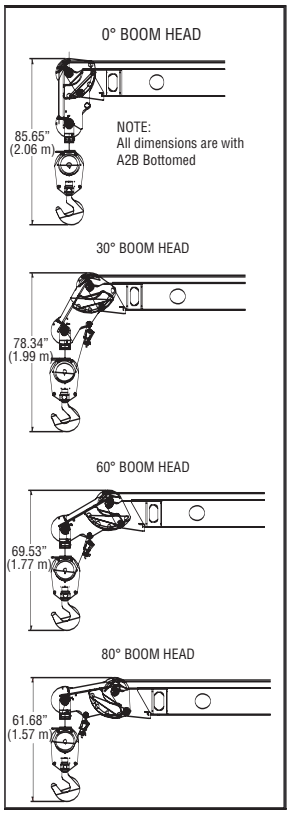
G.V.W.
YB7722: 41,270 lb. (18 720kg)
YB7722XL: 43,000 lb (19 504kg)

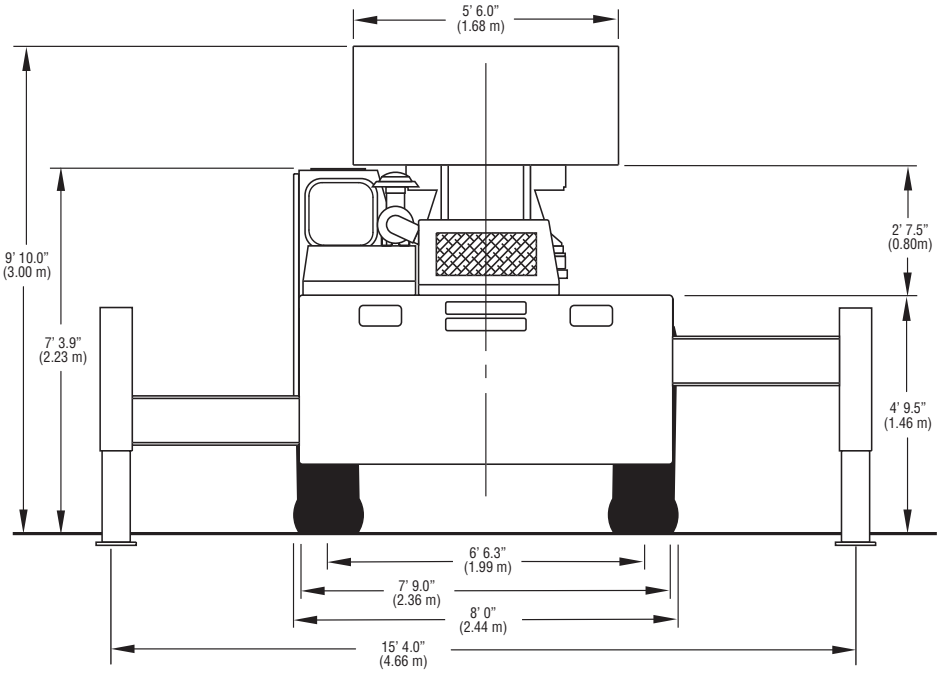
Miscellaneous Standard Equipment
Two sheaves, “Quick Reeve” style 22T (19.9mt) hookblock
Back-up alarm
Dual rearview mirrors
Outrigger motion alarm
Lifting and tie down lugs

*Denotes optional equipment
**Theoretical

YB7722 / XL

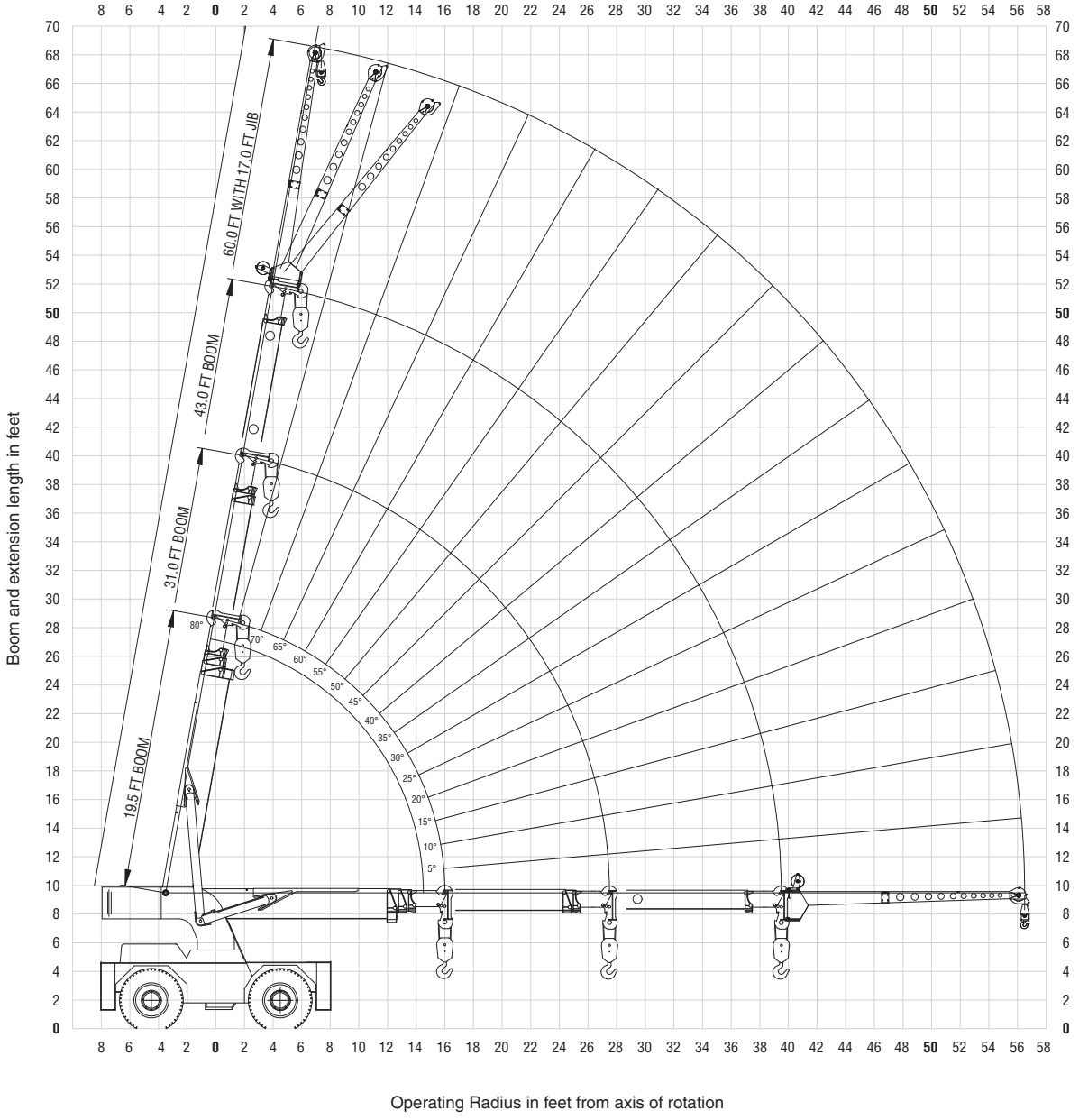

8' 2.5"
(2.50 m)
16' 6.5"
(6.04 m)
7' 10.5"
(2.40 m)
3' 6.0"
(1.07 m)
Retracted 19' 6" (5.94 m) &
Extended 67' 0" (20.42 m)
See Insert
24.8°
1' 4.4"
(0.42 m)
4' 6.0"
(1.37 m)
9' 0.0"
(2.74 m)
7' 8.5"
(2.35 m)
15' 5.0"
(4.70 m)
8' 2.5"
(2.50 m)
8' 4.0"
(2.54 m)
16' 5.0"
(5.00 m)


0° BOOM HEAD
85.65"
(2.06 m)
NOTE:
All dimensions are with
A2B Bottomed
30° BOOM HEAD
78.34"
(1.99 m)
60° BOOM HEAD
69.53"
(1.77 m)
80° BOOM HEAD
61.68"
(1.57 m)


5' 6.0"
(1.68 m)
9' 10.0"
(3.00 m)
7' 3.9"
(2.23 m)
2' 7.5"
(0.80m)
4' 9.5"
(1.46 m)
6' 6.3"
(1.99 m)
7' 9.0"
(2.36 m)
8' 0"
(2.44 m)
15' 4.0"
(4.66 m)

range diagram

YB7722 (3-section boom)



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.

YB7722 (3-section boom)

MAIN BOOM LOAD RATINGS ON OUTRIGGERS
Extended and Down 360° or Retracted and Down Front/Rear

Radius (ft)	19.5 ft Boom Angle (deg)	19.5 ft Boom Rated Load (lbs)	20.5-30 ft Boom Rated Load (lbs)	31 ft Boom Angle (deg)	31 ft Boom Rated Load (lbs)	32-42 ft Boom Rated Load (lbs)	43 ft Boom Angle (deg)	43 ft Boom Rated Load (lbs)
8.5	58	**44000**	**26500**	71	**26500**	**25400**	76	**25400**
10	52	**40000**	**31600**	68	**31600**	**28000**	74	**28000**
12	44	**33800**	**30500**	64	**30500**	**25000**	72	**25000**
14	33	**28500**	**28500**	59	**28500**	**22600**	69	**22600**
16	0	**24900**	**24900**	55	**25700**	**20000**	66	**20000**
18	-	-	**22800**	50	**22800**	**17900**	63	**17900**
20	-	-	**20200**	45	**20200**	**16100**	60	**16100**
22	-	-	**17800**	39	**17800**	**14600**	56	**14600**
24	-	-	15360	31	15360	**13300**	53	**13300**
26	-	-	13250	22	13250	**12300**	49	**12300**
27.5	-	-	11600	0	11600	**11600**	47	**11600**
30	-	-	-	-	-	9900	42	**10500**
32	-	-	-	-	-	8800	37	9800
34	-	-	-	-	-	7800	32	8700
36	-	-	-	-	-	7100	26	7800
39.5	-	-	-	-	-	6400	0	6400

MAIN BOOM LOAD RATINGS ON OUTRIGGERS
Retracted and Down 360°

Radius (ft)	19.5 ft Boom Angle (deg)	19.5 ft Boom Rated Load (lbs)	20.5-30 ft Boom Rated Load (lbs)	31 ft Boom Angle (deg)	31 ft Boom Rated Load (lbs)	32-42 ft Boom Rated Load (lbs)	43 ft Boom Angle (deg)	43 ft Boom Rated Load (lbs)
8.5	58	31000	**26500**	71	**26500**	**25400**	76	**25400**
10	52	24000	22300	68	22300	22000	74	22000
12	44	17200	16300	64	16300	16300	72	17000
14	33	13300	12500	59	12500	12500	69	13600
16	0	10200	9800	55	9800	9800	66	11100
18	-	-	7900	50	7900	7900	63	9100
20	-	-	6500	45	6500	6500	60	7500
22	-	-	5300	39	5300	5300	56	6200
24	-	-	4300	31	4300	4300	53	5200
26	-	-	3500	22	3500	3500	49	4400
27.5	-	-	2900	0	2900	2900	47	3900
30	-	-	-	-	-	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 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)

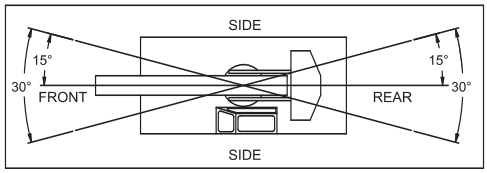
Main Boom Angle (deg)	Jib Offset Angle 0 deg Any Boom Length	15 deg Any Boom Length	30 deg Any Boom Length
80	-	**5000**	**3500**
75	**7500**	**4400**	**3100**
70	**6100**	**3900**	**2800**
65	**5000**	**3500**	**2550**
60	**4300**	**3150**	**2350**
55	**3800**	**2850**	**2200**
50	**3400**	**2600**	**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



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 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 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.

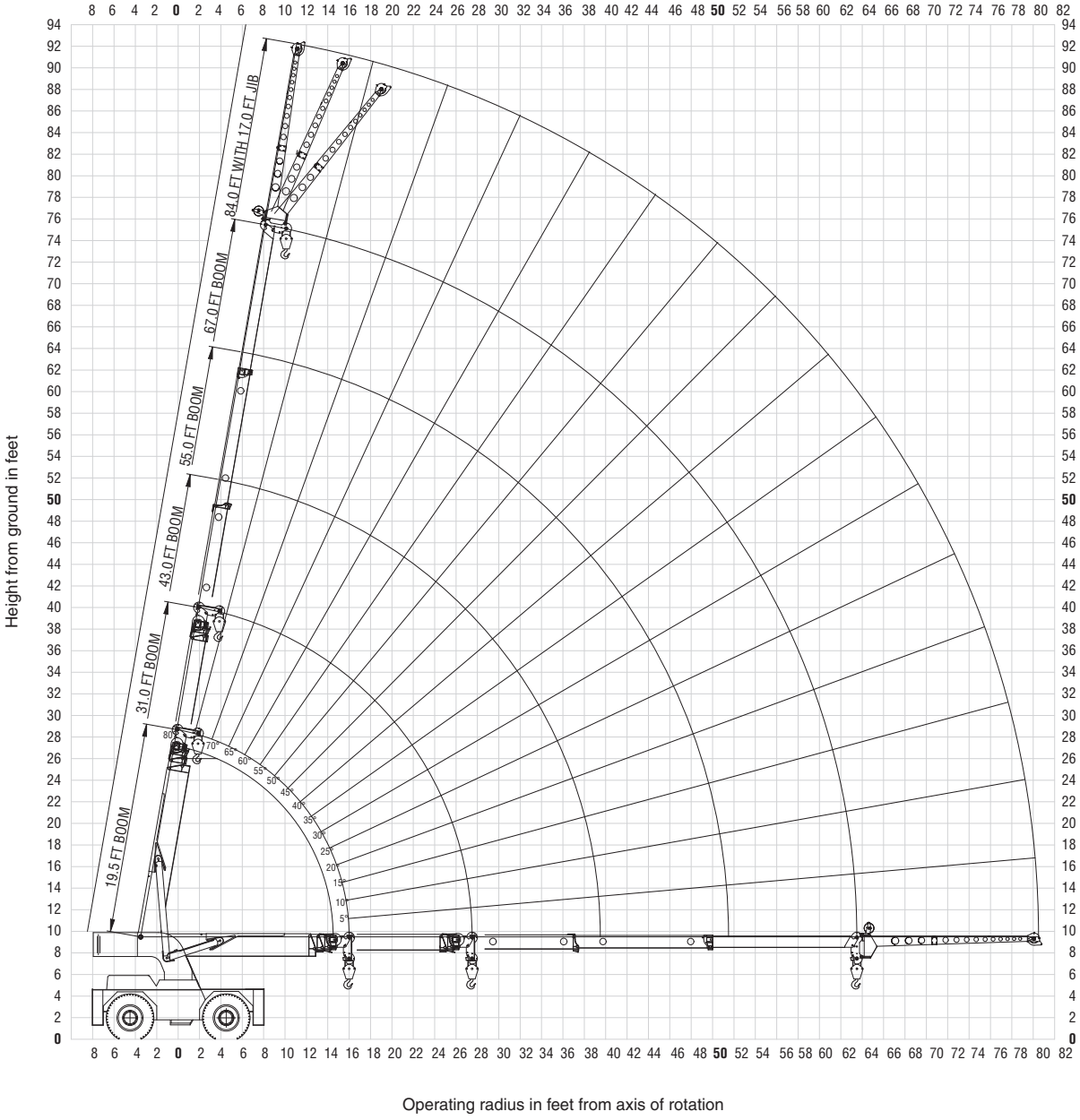
RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (lbs)

	FROM MAIN BOOM	FROM JIB
MAIN BLOCK	400	N/A
HOOK & BALL	100	100
JIB STOWED	0	N/A
JIB DEPLOYED	500	0

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range diagram

YB7722 XL (5-section boom)



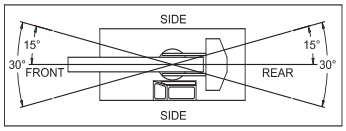
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YB7722 XL (5-section boom)

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	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)
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**
14	33	**28500**	**22900**	59	**22900**	**22600**	69	**22600**	**16100**	74	**16100**	**13200**	77	**13200**
16	0	**23700**	**20900**	55	**20900**	**20000**	66	**20000**	**14800**	71	**14800**	**12200**	75	**12200**
18	-	-	**19300**	50	**19300**	**17900**	63	**17900**	**13700**	69	**13700**	**11200**	73	**11200**
20	-	-	**17800**	45	**17800**	**16100**	60	**16100**	**12800**	67	**12800**	**10400**	71	**10400**
22	-	-	**16400**	39	**16400**	**14600**	56	**14600**	**12000**	64	**12000**	**9700**	69	**9700**
24	-	-	**14700**	31	**14700**	**13300**	53	**13300**	**11200**	62	**11200**	**9100**	67	**9100**
26	-	-	**13200**	22	**13200**	**12300**	49	**12300**	**10600**	60	**10600**	**8600**	66	**8600**
27.5	-	-	11600	0	11600	**11600**	47	**11600**	**10200**	58	**10200**	**8200**	64	**8200**
30	-	-	-	-	-	9900	42	**10500**	**9400**	55	**9400**	**7700**	62	**7700**
32	-	-	-	-	-	8800	37	**9800**	**8700**	52	**8700**	**7300**	60	**7300**
34	-	-	-	-	-	7800	32	8700	**8100**	49	**8100**	**6900**	58	**6900**
36	-	-	-	-	-	7100	26	7800	**7600**	46	**7600**	**6600**	56	**6600**
38	-	-	-	-	-	6500	18	7000	7000	43	**7100**	**6300**	53	**6300**
39.5	-	-	-	-	-	6400	0	6400	6400	41	**6800**	**6100**	52	**6100**
42	-	-	-	-	-	-	-	-	5700	36	**6300**	**5800**	49	**5800**
44	-	-	-	-	-	-	-	-	5300	32	5800	**5600**	47	**5600**
46	-	-	-	-	-	-	-	-	4900	28	5300	**5300**	44	**5300**
48	-	-	-	-	-	-	-	-	4600	23	4800	4800	42	**5000**
50	-	-	-	-	-	-	-	-	4400	16	4400	4400	39	**4700**
51.5	-	-	-	-	-	-	-	-	4000	0	4000	4000	37	4600
54	-	-	-	-	-	-	-	-	-	-	-	3800	33	4200
56	-	-	-	-	-	-	-	-	-	-	-	3600	29	3900
58	-	-	-	-	-	-	-	-	-	-	-	3400	25	3600
60	-	-	-	-	-	-	-	-	-	-	-	3200	20	3300
62	-	-	-	-	-	-	-	-	-	-	-	3000	14	3000
63.5	-	-	-	-	-	-	-	-	-	-	-	2800	0	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



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)
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	**14500**
14	33	13300	12500	59	12500	12500	69	13600	13600	74	14000	**13200**	77	**13200**
16	0	10200	9800	55	9800	9800	66	11100	11100	71	11200	11200	75	11500
18	-	-	7900	50	7900	7900	63	9100	9100	69	9300	9300	73	9400
20	-	-	6500	45	6500	6500	60	7500	7500	67	7800	7700	71	7700
22	-	-	5300	39	5300	5300	56	6200	6200	64	6600	6500	69	6500
24	-	-	4300	31	4300	4300	53	5200	5200	62	5600	5600	67	5600
26	-	-	3500	22	3500	3500	49	4400	4400	60	4800	4800	66	5000
27.5	-	-	2900	0	2900	2900	47	3900	3900	58	4300	4300	64	4600
30	-	-	-	-	-	2600	42	3200	3200	55	3600	3600	62	3900
32	-	-	-	-	-	2300	37	2700	2700	52	3100	3100	60	3400
34	-	-	-	-	-	1900	32	2300	2300	49	2700	2700	58	2900
36	-	-	-	-	-	1750	26	1900	1900	46	2300	2300	56	2500
38	-	-	-	-	-	1500	18	1600	1600	43	2000	2000	53	2100
39.5	-	-	-	-	-	1400	0	1400	1400	41	1750	1750	52	1850
42	-	-	-	-	-	-	-	-	1150	36	1450	1450	49	1500
44	-	-	-	-	-	-	-	-	1000	32	1200	1200	47	1300
46	-	-	-	-	-	-	-	-	850	28	1000	1000	44	1100
48	-	-	-	-	-	-	-	-	750	23	850	850	42	950
50	-	-	-	-	-	-	-	-	650	16	700	700	39	800
51.5	-	-	-	-	-	-	-	-	600	0	600	600	37	700
54	-	-	-	-	-	-	-	-	-	-	-	450	33	500
56	-	-	-	-	-	-	-	-	-	-	-	350	29	350
58	-	-	-	-	-	-	-	-	-	-	-	250	25	250
60	-	-	-	-	-	-	-	-	-	-	-	150	20	150
62	-	-	-	-	-	-	-	-	-	-	-	50	14	50
63.5	-	-	-	-	-	-	-	-	-	-	-	-	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 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 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

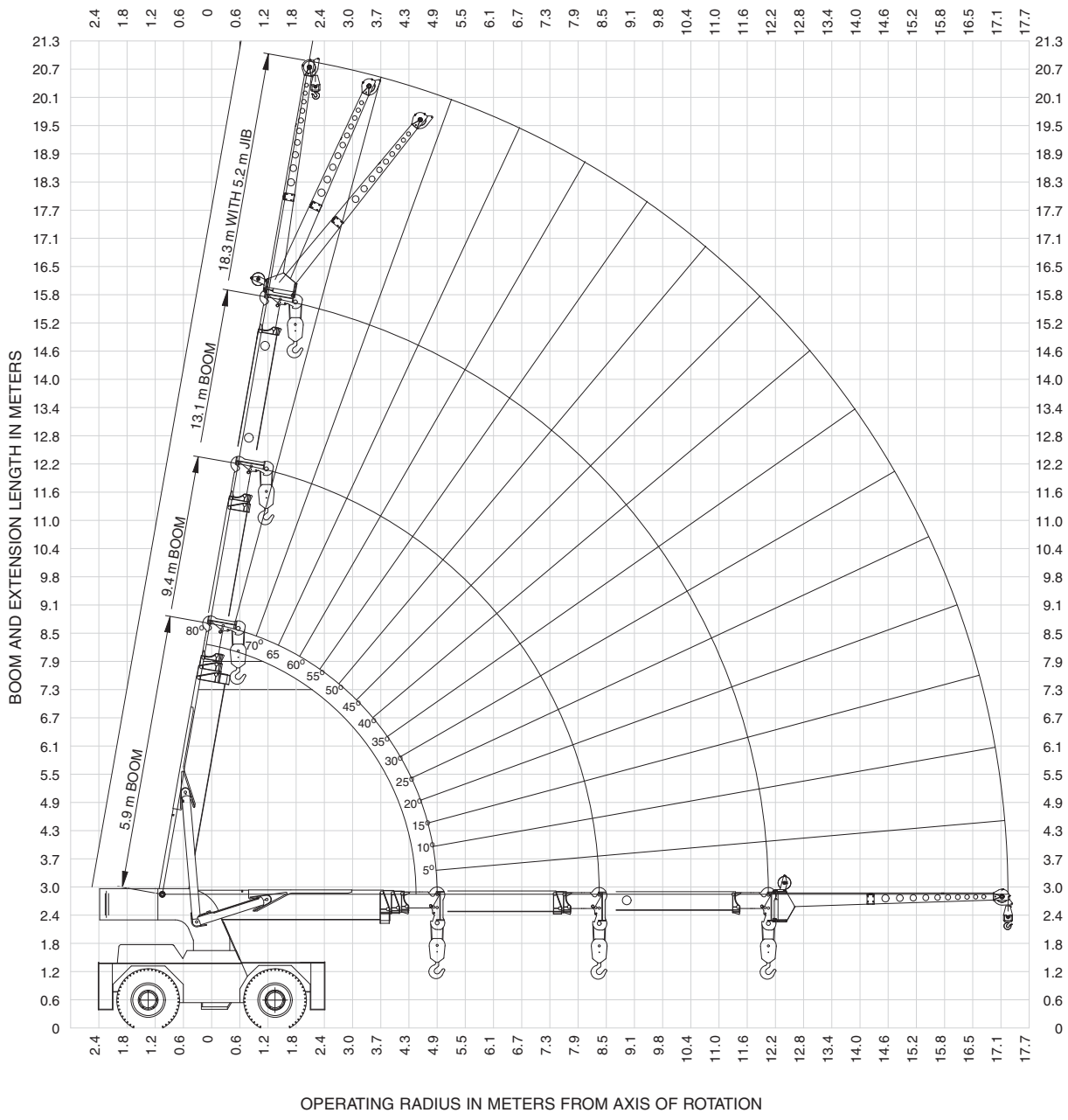
17 FT JIB CAPACITIES ON EXTENDED OUTRIGGERS

Main Boom Angle (deg)	Jib Offset Angle				
	0 deg		15 deg		30 deg
	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	-	-	**5000**	**5000**	**3500**
75	**7500**	-	**4400**	**4400**	**3100**
70	**6100**	-	**3900**	**3900**	**2800**
65	**5000**	**4600**	**3500**	**3500**	**2550**
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**	**2050**	**1900**
30	**2400**	**1930**	**2080**	**1850**	**1830**
25	**2300**	**1750**	**2050**	**1720**	-
20	**2200**	**1600**	**2000**	**1590**	-
15	**2100**	**1500**	**1950**	**1520**	-
10	**2050**	**1460**	-	-	-
5	**2020**	**1450**	-	-	-
0	**2000**	**1440**	-	-	-

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.

range diagram

YB7722 (3-section boom)



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.

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	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)
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)
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

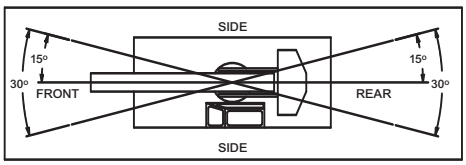
Radius (m)	Front Rating (kg)	360° Rating (kg)
1.8	**13610**	**9520**
2.4	**12700**	**8120**
3.0	**11340**	**6800**
3.7	**8890**	5470
4.3	6990	4340
4.9	5570	3320
5.5	4520	2680
6.1	3620	2070
6.7	2940	1620
7.3	2480	1260
7.9	2070	980
8.5	1760	810
9.1	1530	670
9.8	1350	550
10.4	1210	440
11.0	1080	350
11.6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

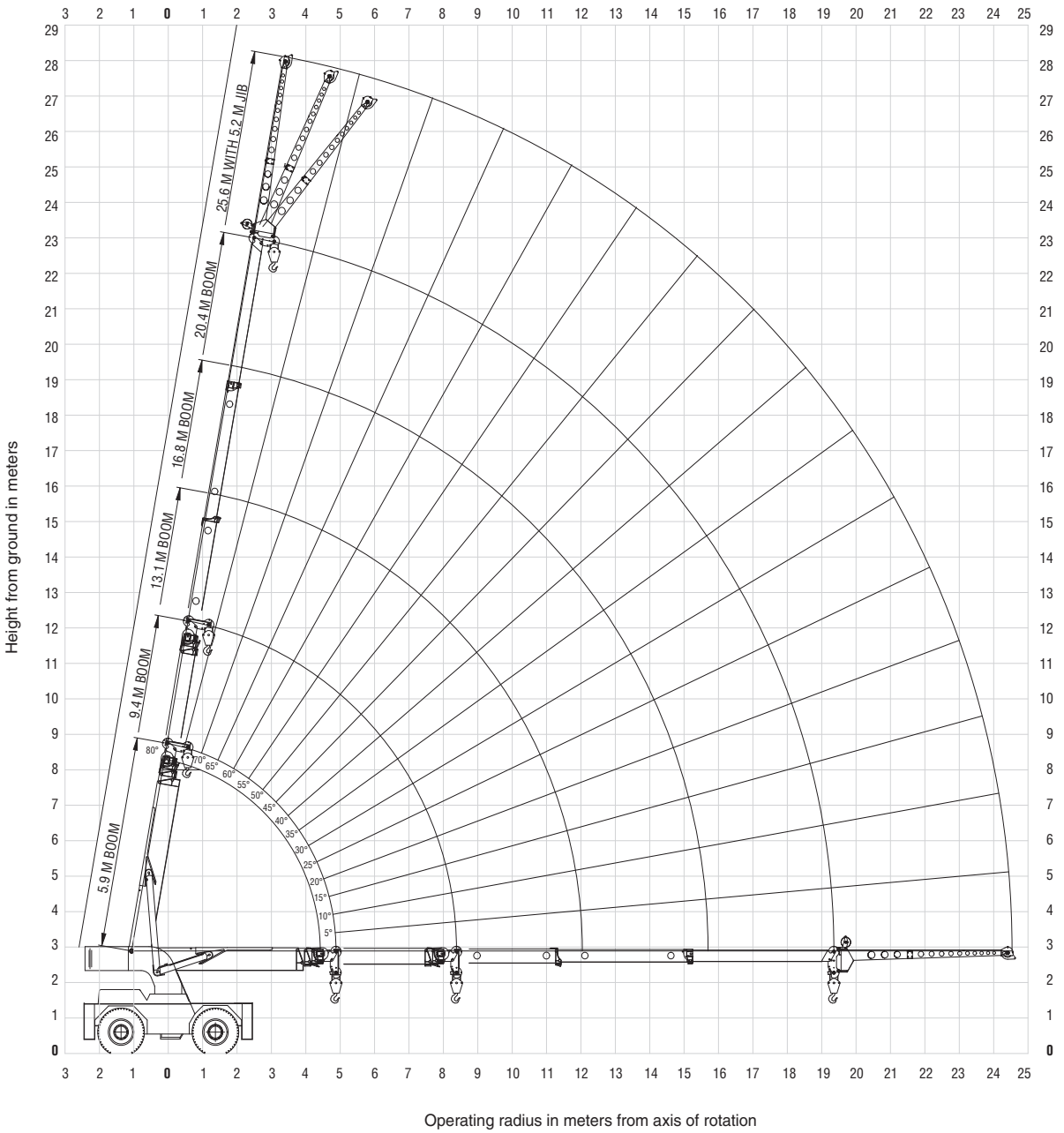
Main Boom Angle (deg)	Jib Offset Angle		
	0 deg	15 deg	30 deg
	Any Boom Length	Any Boom Length	Any Boom Length
80	-	**2270**	**1590**
75	**3400**	**2000**	**1410**
70	**2770**	**1770**	**1270**
65	**2270**	**1590**	**1160**
60	**1950**	**1430**	**1070**
55	**1720**	**1290**	**1000**
50	**1540**	**1180**	**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**	-	-

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 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.
2) 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.
3) 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 setting.
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.
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.

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.

range diagram

YB7722XL (5-section boom)



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.

DIN/ISO load chart

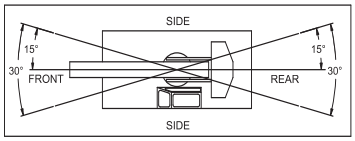
YB7722XL (5-section boom)

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		9.7-12.8m Boom	13.1 m Boom		13.4-16.5m Boom	16.8 m Boom		17.1-20.1m Boom	20.4 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)
2.6	58	**19960**	**12020**	71	**12020**	**11520**	76	**11520**	**8850**	79	**8850**	-	-	-
3.0	52	**18140**	**12020**	68	**12020**	**11520**	74	**11520**	**8850**	78	**8850**	-	-	-
3.7	44	**15330**	**11480**	64	**11480**	**10980**	72	**10980**	**7980**	76	**7980**	**6580**	78	**6580**
4.3	33	**12930**	**10390**	59	**10390**	**10250**	69	**10250**	**7300**	74	**7300**	**5990**	77	**5990**
4.9	0	**10750**	**9480**	55	**9480**	**9070**	66	**9070**	**6710**	71	**6710**	**5530**	75	**5530**
5.5	-	-	**8750**	50	**8750**	**8120**	63	**8120**	**6210**	69	**6210**	**5080**	73	**5080**
6.1	-	-	**7940**	45	**7940**	**7300**	60	**7300**	**5810**	67	**5810**	**4720**	71	**4720**
6.7	-	-	**7440**	39	**7440**	**6620**	56	**6620**	**5440**	64	**5440**	**4400**	69	**4400**
7.3	-	-	6550	31	6550	**6030**	53	**6030**	**5080**	62	**5080**	**4130**	67	**4130**
7.9	-	-	5520	22	5520	5520	49	**5580**	**4810**	60	**4810**	**3900**	66	**3900**
8.4	-	-	4790	0	4790	4790	47	5150	**4630**	58	**4630**	**3720**	64	**3720**
9.1	-	-	-	-	-	4050	42	4630	**4260**	55	**4260**	**3490**	62	**3490**
9.8	-	-	-	-	-	3580	37	4050	**3950**	52	**3950**	**3310**	60	**3310**
10.4	-	-	-	-	-	3160	32	3560	3560	49	**3670**	**3130**	58	**3130**
11.0	-	-	-	-	-	2880	26	3180	3180	46	**3450**	**2990**	56	**2990**
11.6	-	-	-	-	-	2600	18	2830	2830	43	3180	**2860**	53	**2860**
12.0	-	-	-	-	-	2580	0	2580	2580	41	2920	**2770**	52	**2770**
12.8	-	-	-	-	-	-	-	-	2280	36	2540	2540	49	**2630**
13.4	-	-	-	-	-	-	-	-	2120	32	2320	2320	47	2470
14.0	-	-	-	-	-	-	-	-	1960	28	2110	2110	44	2260
14.6	-	-	-	-	-	-	-	-	1810	23	1910	1910	42	2070
15.2	-	-	-	-	-	-	-	-	1710	16	1720	1720	39	1920
15.7	-	-	-	-	-	-	-	-	1550	0	1550	1550	37	1810
16.5	-	-	-	-	-	-	-	-	-	-	-	1470	33	1640
17.1	-	-	-	-	-	-	-	-	-	-	-	1400	29	1510
17.7	-	-	-	-	-	-	-	-	-	-	-	1290	25	1380
18.3	-	-	-	-	-	-	-	-	-	-	-	1220	20	1250
19.4	-	-	-	-	-	-	-	-	-	-	-	1040	0	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	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	-



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		9.7-12.8m Boom	13.1 m Boom		13.4-16.5m Boom	16.8 m Boom		17.1-20.1m Boom	20.4 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)
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	28	270	270	44	320
14.6	-	-	-	-	-	-	-	-	170	23	200	200	42	250
15.2	-	-	-	-	-	-	-	-	120	16	140	140	39	180
15.7	-	-	-	-	-	-	-	-	100	0	100	100	37	130
16.5	-	-	-	-	-	-	-	-	-	-	-	30	33	50
17.1	-	-	-	-	-	-	-	-	-	-	-	-	29	-
17.7	-	-	-	-	-	-	-	-	-	-	-	-	25	-
18.3	-	-	-	-	-	-	-	-	-	-	-	-	20	-
19.4	-	-	-	-	-	-	-	-	-	-	-	-	0	-

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

1) The rated loads are the maximum lifting capacities as determined by operating rdius, 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 +/- 0.3 m. 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 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 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 (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 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 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, 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		30 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**	-	-	-

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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GROVE



Regional Headquarters

Americas
Manitowoc, Wisconsin, USA
Tel: +1 920 684 6621
Fax: +1 920 683 6278

Shady Grove, Pennsylvania, USA
Tel: +1 717 597 8121
Fax: +1 717 597 4062

Europe, Middle East, Africa
Ecully, France
Tel: +33 472 18 2020
Fax: +33 472 18 2000

Asia – Pacific
Shanghai, China
Tel: +86 21 51113579
Fax: +86 21 51113578

Singapore
Tel: +65 6264 1188
Fax: +65 6862 4142

Regional Offices

Americas

Brazil
Alphaville
Tel: +55 11 3103 0200
Fax: +55 11 4688 2013

Mexico
Monterrey
Tel: +52 81 8124 0128
Fax: +52 81 8124 0129

Europe, Middle East, Africa

Algeria
Hydra
Tel: +21 3 21 48 1173
Fax: +21 3 21 48 1454

Czech Republic
Netvorice
Tel: +420 317 78 9313
Fax: +420 317 78 9314

France
Baudemont
Tel: +33 385 28 2589
Fax: +33 385 28 0430

Cergy
Tel: +33 130 31 3150
Fax: +33 130 38 6085

Decines
Tel: +33 472 81 5000
Fax: +33 472 81 5010

Germany
Langenfeld
Tel: +49 21 73 8909-0
Fax: +49 21 73 8909 30

Hungary
Budapest
Tel: +36 13 39 8622
Fax: +36 13 39 8622

Italy
Parabiago
Tel: +390 331 49 3311
Fax: +390 331 49 3330

Netherlands
Breda
Tel: +31 76 578 3999
Fax: +31 76 578 3978

Poland
Warsaw
Tel: +48 22 843 3824
Fax: +48 22 843 3471

Portugal
Alfena
Tel: +351 229 69 8840
Fax: +351 229 69 8848

Lisbon
Tel: +351 212 109 340
Fax: +351 212 109 349

Russia
Moscow
Tel: +7 495 641 2359
Fax: +7 495 641 2358

U.A.E.
Dubai
Tel: +971 4 3381 861
Fax: +971 4 3382 343

U. K.
Middlesex
Tel: +44 1 895 43 0053
Fax: +44 1 895 45 9500

Sunderland
Tel: +44 191 522 2000
Fax: +44 191 522 2052

Asia – Pacific

Australia
Brisbane
38 Suscatand Street
Rocklea Queensland 4106
Tel: +617 3274 5879
Fax: +617 3274 6558

Melbourne
1/46 Venture Drive
Sunshine West VIC 3020
Tel: +(03) 9336 1322
Fax: +(03) 9336 1300

Sydney
142 Magowar Road
Girraween, NSW 2145
Tel: +61 02 9896 4433
Fax: +61 02 9896 3122

China
Beijing
Tel: +86 10 58674761
Fax: +86 10 58674760

Xi'an
Tel: +86 29 87891465
Fax: +86 29 87884504

Korea
Seoul
Tel: +82 2 3439 0400
Fax: +82 2 3439 0405

Philippines
Makati City
Tel: +63 2 844 9437
Fax: +63 2 844 4712

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