

Absolutely The Best Crane Mats In The World.

This document is stored and available in the Raptor Tech Technical Document Repository.

To help our customers understand certain critical data points that factor into purchasing crane mats, Raptor Tech maintains a repository of technical documents with data from all major crane manufacturers.

You can visit Raptor Tech's repository to get crane specifications and technical details for crane models in addition to this model at:

https://library.steelcranemats.com

Thank You for Visiting the **SteelCraneMats.com** Technical Specifications Document Repository.

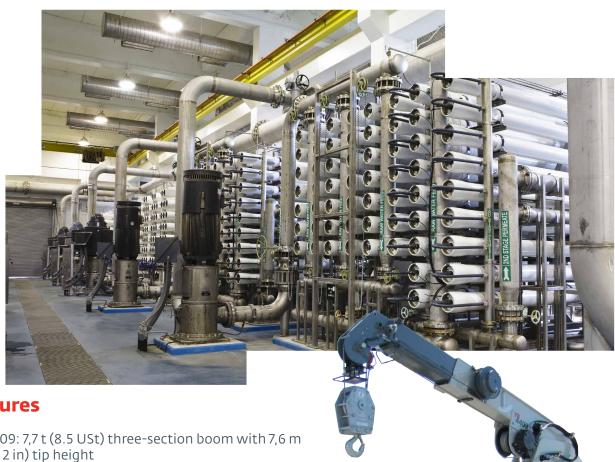


Grove YB4400 Series

Product Guide

ASME B30.5

Imperial 85%, Metric 85% and DIN/ISO



Features

- YB4409: 7,7 t (8.5 USt) three-section boom with 7,6 m (25 ft 2 in) tip height
- YB4409XL: 7,7 t (8.5 USt) three-section boom with 10,2 m (33 ft 6 in) tip height
- YB4409-2: 8,1 t (9 USt) three-section boom with 11,6 m (38 ft 2 in) tip height
- YB4411: 9,5 t (10.5 USt) three-section boom with 11,6 m (38 ft 2 in) tip height
- 1,8 m (6 ft) fixed extension (YB4409/XL) and 3,6 m (12 ft) offsettable swingaway extension (YB4409-2 and YB4411)
- 74,5 kW (100 bhp) Tier IV Cummins diesel engine or 59,6 kW (80 bhp) GM EFI dual fuel engine



Shortely The Seat Come Wate in The World.

The Raptor Tech Technical Document Repository is the original source of this document.

The Raptor Tech Technical Document Repository
is a copyrighted work published by Raptor Tech Inc. 1
on steelcranemats.com

https://www.steelcranemats.com/cranes-detailed-technical-specifications https://library.steelcranemats.com/

Thank You for Visiting the SteelCraneWats.com
Technical Specifications Document Repository.

Features



Boom Standard:

6,4 m (21 ft) main boom on the YB4409. 9,1 m (30 ft) main boom on the YB4409XL. 10, 0 m (32 ft 10 in) main boom on the YB4409-2 and YB4411.

Optional: Manual fourth main boom section adds 3,0 m (10 ft) additional main boom length on YB4409 and YB4409XL only.



Engine (Tier IV) Standard: Cummins QSB 3.3 L turbo-charged diesel rated at 74,5 kW (100 bhp) at 2600 rpm.



Cab

Standard: Open air cab shell with overhead safety glass.

Optional: Closed cab with split hinged door, heater/defroster, and all window glass.



Pivoting boom nose

Standard on the YB4409-2 and YB4411 the exclusive pivoting boom nose allows operators to decrease the overall boom head depth and operate in more confined areas.



Steering

Standard: Two-wheel, four-wheel, and crab steer with electronic self alignment (YB4411). **Standard:** Two-wheel, four-wheel, and crab steer on other YB4400 Series models.

Optional: Electronic self alignment on other

Optional: Electronic self-alignment on other YB4400 Series models.

Contents

Specifications	4
Dimensions	7
Turning radius	11
YB4409 (range diagram/load chart)	15
YB4409XL (range diagram/load chart)	17
YB4409-2 (range diagram/load chart)	21
YB4411 (range diagram/load chart)	23
YB4409 Metric 85% (range diagram/load chart)	25
YB4409XL Metric 85% (range diagram/load chart)	27
YB4409-2 Metric 85% (range diagram/load chart)	29
YB4411 Metric 85% (range diagram/load chart)	31
YB4409 DIN/ISO (range diagram/load chart)	33
YB4409XL DIN/ISO (range diagram/load chart)	35
YB4409-2 DIN/ISO (range diagram/load chart)	37
YB4411 DIN/ISO (range diagram/load chart)	39
Symbols glossary	41

Specifications

Superstructure



Boom

YB4409: 2,9 m - 6,5 m (9 ft 8 in - 21 ft 2 in) three-section full power boom. Maximum tip height: 7,6 m (25 ft 2 in)

YB4409XL: 3,8 m – 9,2 m (12 ft 8 in – 30 ft 2 in) three- section full power boom.

Maximum tip height: 10,2 m (33 ft 6 in)

YB4409-2 and YB4411: 4,2 m – 10,0 m (13 ft 10 in – 32 ft 10 in) three-section full power boom. Maximum tip height: 11,6 m (38 ft 2 in)

*Optional boom

YB4409 and YB4409XL: Manual fourth main boom fly section adds 3,0 m (10 ft) additional boom length.



*Boom extension

YB4409 and YB4409XL: 1,8 m (6 ft) fixed pin on extension

YB4409-2 and YB4411: 3,6 m (12 ft) offsettable extension. 3,6 m - 5,4 m (12 ft- 18 ft) telescopic offsettable extension



Boom nose

YB4409 / XL: Single sheave non-pivoting

YB4409-2 and YB4411: Single sheave, three-position (0°, + 30°, + 80°) pivoting boom nose for minimizing head space requirements. Lowers head height. 0,26 m (10.5 in) when nose is pivoted fully forward.



Boom elevation

Single double acting hydraulic cylinder with integral holding valve.

Elevation: 0° to 60° for the **YB4409 and YB4409XL** 0° to 72° for the **YB4409-2 and YB4411**



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

YB4409 and YB4409XL:

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.

YB4409-2 and YB4411:

Black and white, graphical display of boom angle, boom length, boom radius, rated load, and calculated load. Allows for operator inputs to set the crane configuration. RCI system is hardwired and calculates load via pressure transducers in the lift cylinder. Display includes a color coded light bar and audible alarm with function cut-out if load exceeds the load chart parameters.



Swing

Ball bearing swing circle with 360° continuous rotation. Hydraulic driven worm gear and pinion. Maximum speed: 2.05 rpm



Hydraulic system

YB4409 and YB4409XL: (2) gear pumps

YB4409-2 and YB4411: Variable displacement piston pump and piggyback gear pump.

Combined flow: 107,9 Lpm (28.5 gpm)

Maximum system operating pressure: 3600 psi

YB4409, YB4409XL and YB4409-2: Six section valve bank mounted in dash panel with direct mechanical linkage for low effort lever control.

YB4411: 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.

170 L (45 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impact damage.

Specifications

Superstructure continued



Hoist specifications

YB4409 / **XL**: Worm drive with counter-balance valving. Equal speed power up and down.

YB4409-2 and YB4411: Piston motor drive with spring applied/hydraulic released brake.

Drum diameter:

YB4409 / XL: 0,24 m (9.69 in)

YB4409-2 and **YB4411**: 0,27 m (10.63 in)

Maximum single line pull:

YB4409 / XL: 4854 kg (10,700 lb)

YB4409-2 and YB4411: 6350 kg (14,000 lb)

Maximum single line speed:

YB4409 / XL: 26,8 m/min (88 fpm)

YB4409-2 and YB4411: 36,6 m/min (120 fpm)

Maximum permissible single line pull:

YB4409 / XL: 3855 kg (8500 lb)

(12,7 mm [1/2 inch] Python Ultra XIPS) **YB4409-2 and YB4411**: 4536 kg (10,000 lb)

(14,0 mm [9/16 inch] EEIPS)

Rope length:

YB4409 / XL: (three-section boom) 29,6 m (97 ft)

(four-section boom) 39,6 m (130 ft)

YB4409-2 and YB4411: 36,6 m (120 ft)

Carrier



Frame

High strength alloy steel constructed with integral outrigger housings; front and rear lifting, towing, and tie-down lugs. 38 ft² carrydeck size with 6350 kg (14,000 lb) carrying capacity (**YB4409/XL/YB4409-2**) and 7711 kg (17,000 lb) carrying capacity (**YB4411**). Deck coated with anti-skid treatment.



Outriggers

YB4409, YB4409XL and YB4409-2: Front and rear oblique type beams at all four corners with integral holding valves. Outrigger pads form an integral part of the beam.

YB4411: Hydraulic telescoping beam with oblique type jack provides extended and down and retracted and down lifting capacities. Integral holding valves on both beam and jack.

Padsize YB4400 Series:

18 cm x 20 cm (7.4 in x 7.8 in)

Maximum outrigger pad load: YB4409/XL: 122 psi

YB4409-2: 135 psi YB4411: 387 psi



Outrigger controls

YB4409 and YB4409XL: Lever controls located on dash panel which operate the beams in pairs from side to side.*Independent outrigger controls available as an option.

YB4409-2: Lever controls located on dash panel which operate the beams independently.

YB4411: Two switch operation mounted on dash panel. One -three- position rocker switch to select individual beams or jacks. Separate -four- way toggle switch to activate beams out/in and jacks down/ up. Level bubble indicator located inside operators compartment.



Engine (Tier IV)

Cummins QSB 3.3 L, four-cylinder, turbo-charged diesel rated at 74.5 Kw (100 hp) at 2600 rpm. Standard 120 V engine block heater and cold weather intake grid heater.

Diesel oxidation/catalyst, stainless steel muffler/exhaust system to meet 2012 EPA emissions, combined with a Cummins direct air flow, two-stage cyclonic air filter system.

Maximum torque: 413,5 Nm (305 lb ft) Note: Required for sale in North American and European Union countries.



Engine (Tier III)

Cummins QSB 3.3 L turbo-charged diesel rated at 63,4 kW (85 bhp) at 2600 rpm. Supplied with 120 V engine block heater and air intake grid heater.



*Optional engine

G.M. 3.0 L EFI dual fuel (gasoline / L.P.) rated at 59,6 kW (80 bhp) at 2600 rpm.



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 include 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.

Specifications



Fuel tank capacity

64 L (17 gal) all steel construction with steel side plate to guard against side impact.



*Operators control station enclosed

Includes the standard cab shell with the addition of front, right, and rear glass, a split (two-piece) hinged door with sliding glass.

Front windshield wiper and heater and defroster is included.



Electrical system

One 12V maintenance free battery, 820CCA at 0°. Jump start connections.120 amp alternator.

I-●-| Drive

4 x 2 – Front axle drive with planetary hubs and limited slip differential.



YB4409/ YB4409XL/YB4409-2: two-wheel, four-wheel with crab steer

YB4411: two-wheel, four-wheel, and crab steer with electronic self alignment.



Transmission

YB4409 / XL and YB4409-2: Synchromesh -fourspeeds forward and reverse with stalk mounted forward/ reverse selector.

YB4411: Powershift -four- speeds forward and reverse. Stalk mounted shifter on left side of steering column.



Axles

Front: Carraro planetary drive/steer with internal multi-wet-disc brakes and limited slip differential.

Rear: Fabricated non-drive steer



Tires

10.00 x 15 pneumatic



Brakes

Hydraulic actuated internal wet-disc service brakes acting on front 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: Rigid mounted to frame.



Lights

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



Maximum speed

35,6 km/h (22 mph)



Gradeability (theoretical)

YB4409 / XL and YB4409-2:

57%....no load 31%.... 5443 kg (12,000 lb) load

YB4411: 68%....no load

40%.... 9072 kg (20,000 lb) load

Gross vehicle weight (G.V.W)

YB4409: 7231 kg (15,941 lb) **YB4409XL**: 7855 kg (17,318 lb) **YB4409-2**: 8021 kg (17,683 lb) **YB4411**: 8312 kg (18,324 lb)

*All weights with enclosed cab and Tier IV engine

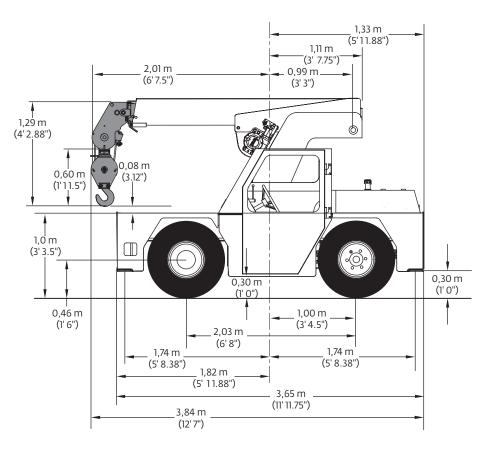
Miscellaneous standard equipment

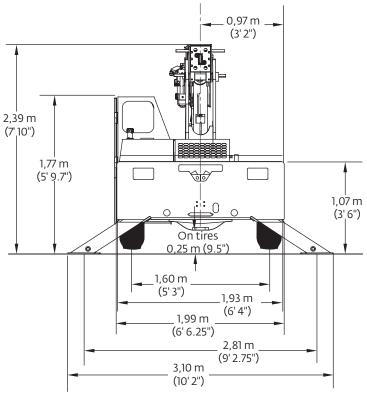
Single sheave, "Quick Reeve" style hook block.;

YB4409 / XL: 8,0 t (8.5 USt)

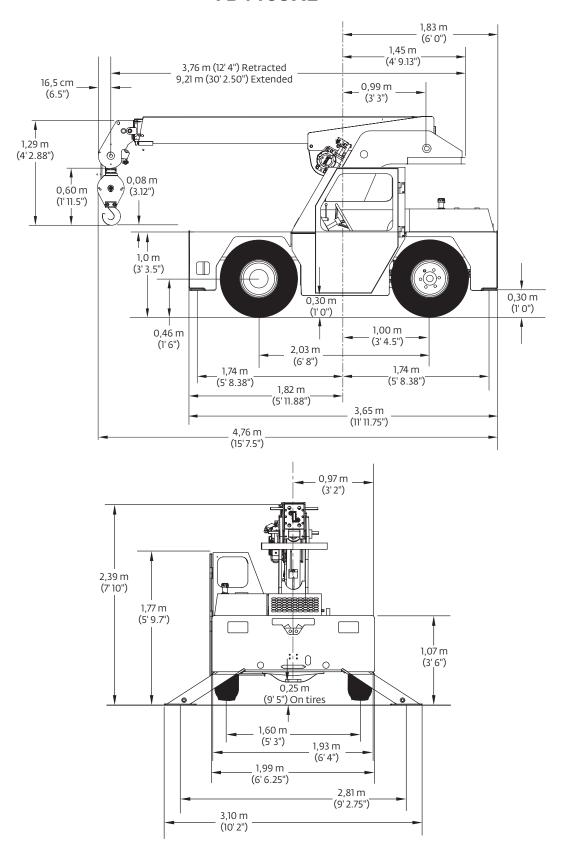
YB4409-2 and YB4411: 10 t (10.5 USt)

Back-up alarm

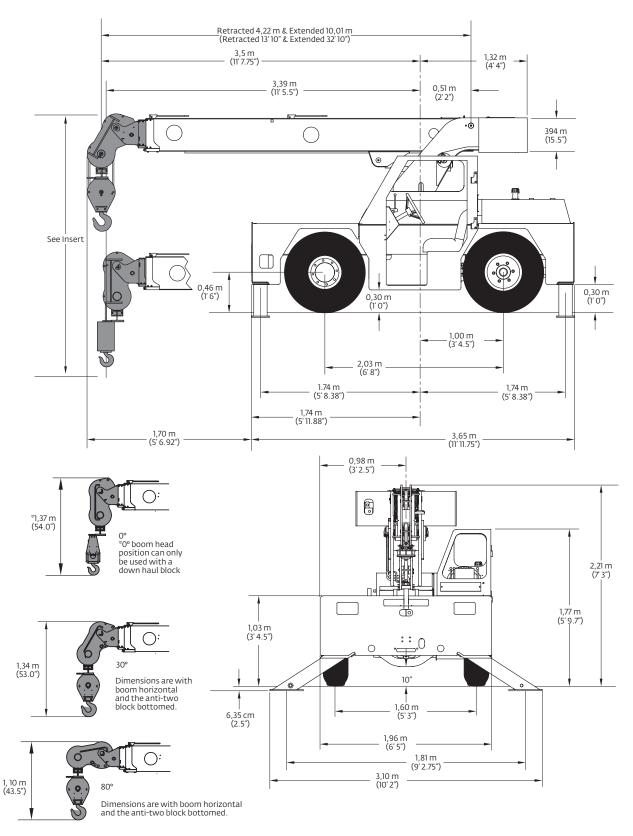




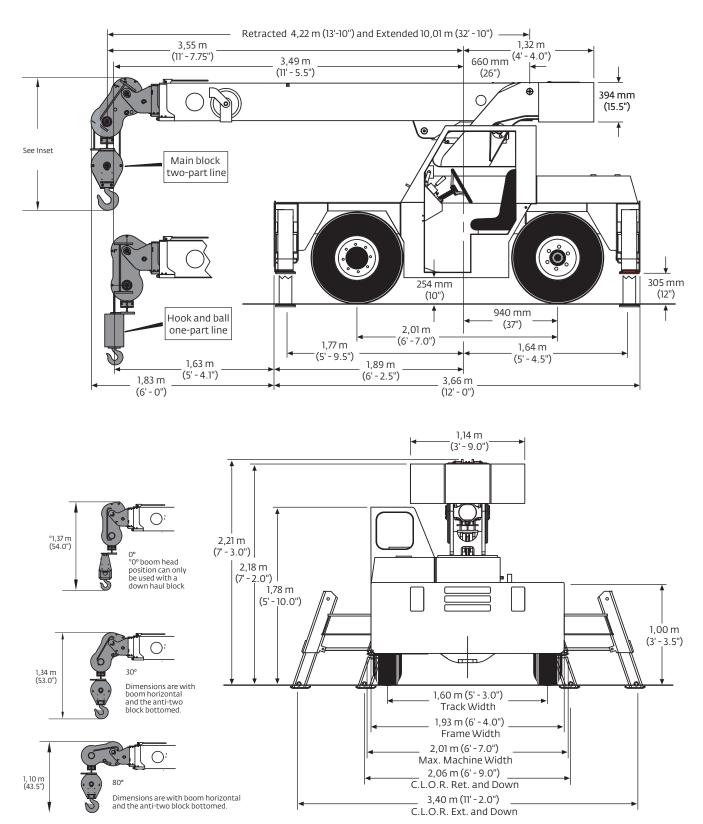
YB4409XL

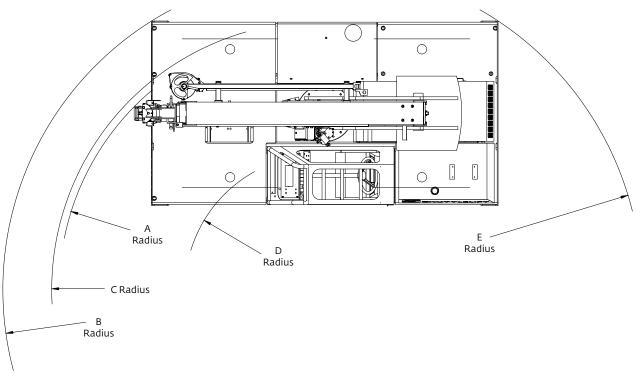


YB4409-2



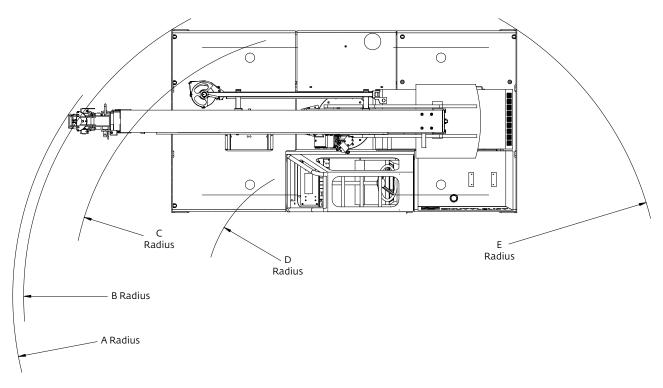
9





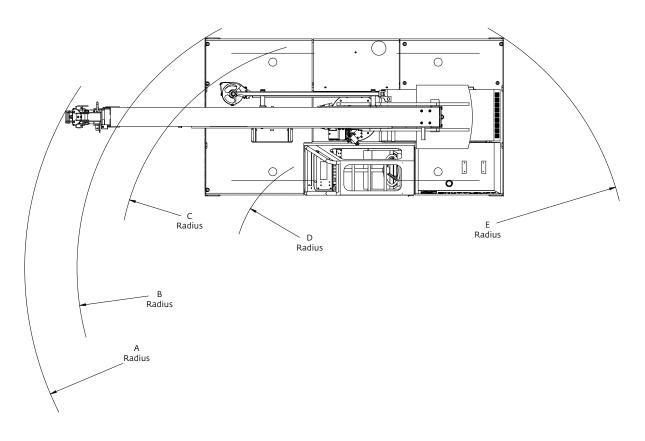
	Α	В	С	D	E
Two-wheel steer	4496 mm	4737 mm	4636 mm	2718 mm	5525 mm
	(14 ft 9 in)	(15 ft 6.5 in)	(15 ft 2.5 in)	(8 ft 11 in)	(18 ft 1.5 in)
Four-wheel steer	3048 mm	3645 mm	3188 mm	1473 mm	3569 mm
	(10 ft 0 in)	(11 ft 9.5 in)	(10 ft 5.5 in)	(4 ft 10 in)	(11 ft 8.5 in)

YB4409XL

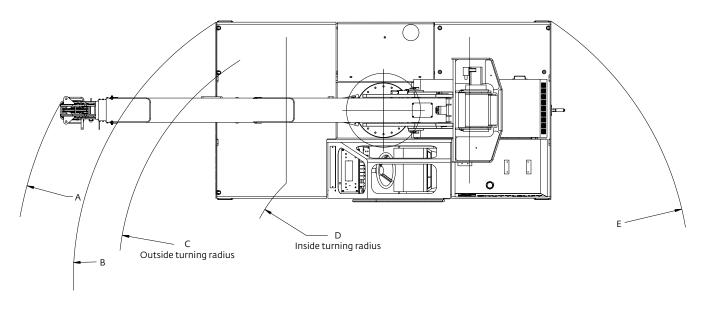


	Α	В	С	D	E
Two-wheel steer	5131 mm	4737 mm	4636 mm	2718 mm	5525 mm
	(16 ft 10 in)	(15 ft 6.5 in)	(15 ft 2.5 in)	(8 ft 11 in)	(18 ft 1.5 in)
Four-wheel steer	3683 mm	3645 mm	3188 mm	1473 mm	3569 mm
	(12 ft 1 in)	(11 ft 9.5 in)	(10 ft 5.5 in)	(4 ft 10 in)	(11 ft 8.5 in)

YB4409-2

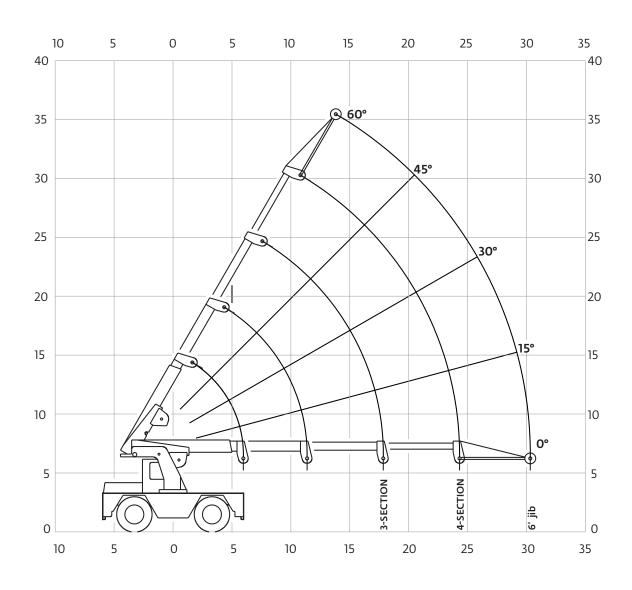


	Α	В	С	D	E
Two-wheel steer	4674 mm	4737 mm	4636 mm	2718 mm	5525 mm
	(14 ft 4 in)	(15 ft 6.5 in)	(15 ft 2.5 in)	(8 ft 11 in)	(18 ft 1.5 in)
Four-wheel steer	4267 mm	3645 mm	3188 mm	1473 mm	3569 mm
	(14 ft 0 in)	(11 ft 9.5 in)	(10 ft 5.5 in)	(4 ft 10 in)	(11 ft 8.5 in)



	Α	В	С	D	E
Two-wheel steer	4759 mm	4482 mm	4080 mm	2556 mm	4522 mm
	(15 ft 7.4 in)	(14 ft 8.4 in)	(13 ft 4.6 in)	(8 ft 4.6 in)	(14 ft 10.0 in)
Four-wheel steer	3990 mm	3346 mm	2853 mm	1470 mm	3416 mm
	(13 ft 1.1 in)	(10 ft 11.7 in)	(9 ft 4.3 in)	(4 ft 9.9 in)	(11 ft 2.5 in)

Range diagram



Operating radius in feet from axis of rotation

Load chart

YB4409

RADIUS	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED RADIUS RADIUS						TENDED			
(ft)		IGGERS (Ib)	ON RU	BBER (Ib)		(ft)		GGERS (Ib)	ON RU	BBER (lb)
	F/R	360°	F/R	360°			F/R	360°	F/R	360°
5.0	* 17,000	* 17,000	10,000	10,000	Σ	5.0	6100	6100	6100	6100
6.0	* 15,700	* 14,400	10,000	7450	MOO	6.0	6100	6100	6100	6100
8.0	* 12,400	10,800	7150	4400	m	8.0	5300	5300	5300	5250
10.0	10,200	8600	4700	2950	MAIN	10.0	4700	4700	4700	3750
12.0	8500	7000	3400	2175	ž	12.0	4400	4400	3800	2450
14.0	7200	5400	2650	1700		14.0	4400	4400	2900	1875
16.0	6100	4300	2150	1325		16.0	4400	4400	2325	1525
18.0	5000	3550	1775	1100	l	18.0	4400	4100	1900	1225
20.0	2700	2700	1525	950	Ν	20.0	4300	3150	1600	1000
22.0	2600	2600	1350	825	$ \setminus $	22.0	3700	2700	1375	850
24.5	2200	2200	190	675		24.5	3100	2300	1200	700
26.0	-	-	-	-		26.0	2700	2125	100	650
28.0	-	-	-	-	8	28.0	2500	1900	975	575
30.0	-	-	-	-	_	30.0	2300	1700	850	475
31.0	-	-	-	-		31.0	2200	1625	800	425

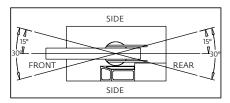
$\overline{}$						
MAIN	JIB STRUCTURAL CAPACITIES (Ib)					
BOOM ANGLE (deg)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED				
60	3500	3500				
55	3325	3325				
50	3150	3150				
45	3000	3000				
40	2875	2875				
35	2800	2800				
30	2700	2700				
25	2600	2600				
20	2500	2500				
15	2400	2400				
10	2325	2325				
5	2250	2250				
0	2200	2200				

NOTES:

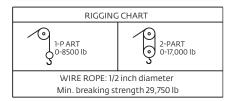
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART					
	FROM JIB RATINGS				
MAIN BLOCK	140 lb	N/A			
HOOK & BALL	100 lb	100 lb			
JIB, STOWED	0 lb	N/A			
JIB, DEPLOYED	150 lb	0 lb			



- 1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension 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) 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 training must all be taken into account by the operator.
- 3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.

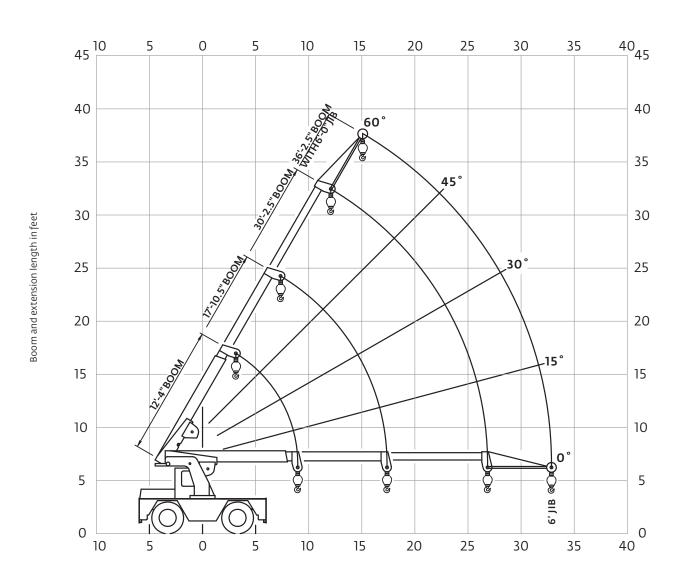
- 4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum seed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000
- 8) Do not induce any external side loads to boom or jib.

^{*} LIMIT RATINGS TO 11 800 LB WHEN 3RD SECTION IS EXTENDED ANY AMOUNT

Height from the ground in feet

Range diagram

YB4409XL (Three-section boom)

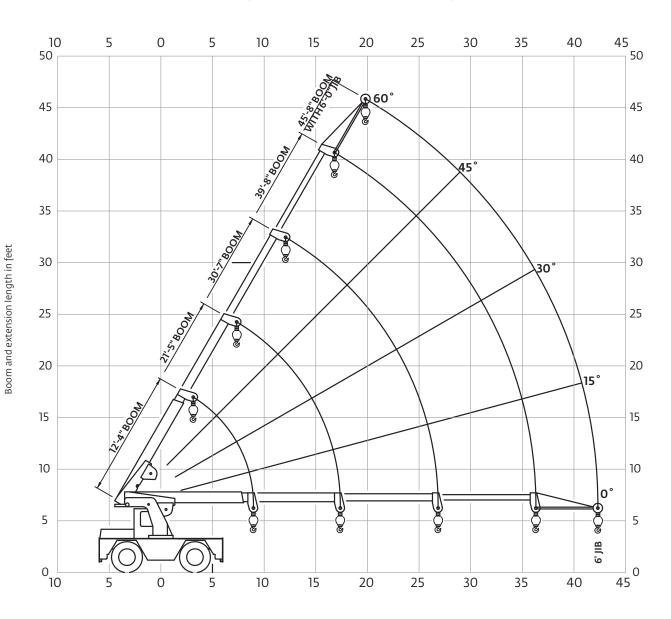


Operating radius in feet from axis of rotation

Height from the ground in feet

Range diagram

YB4409XL (Four-section boom)



Operating radius in feet from axis of rotation

YB4409XL (Three-section boom)

	3-SECTION I	MAIN BOOM		3-SECTION I	MAIN BOOM
Radius	ON OUTRI	GGERS (Ib)	Radius	ON RUB	BER (Ib)
(ft)	F/R	F/R 360°	(ft)	F/R	360°
5	17,000	17,000	5	10,000	10,000
6	15,700	14,400	6	9500	8200
8	12,400	10,800	8	7325	5125
10	10,200	8500	10	4875	3475
12	8500	6950	12	3550	2550
14	7100	5800	14	2750	1925
16	6000	4650	16	2150	1450
18	5200	3800	18	1775	1150
20	4450	3150	20	1450	950
22	3800	2700	22	1225	800
24	3300	2350	24	1025	650
26	2900	2050	26	875	525
27	2750	1925	27	850	475

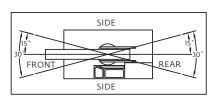
	3-SECTI	SECTION MAIN BOOM W/6 FT JIB DEPLOYED					
Radius	LOADED BOOM	ON OUTRI	GGERS (Ib)	ON RUE	BBER (lb)		
(ft)	ANGLE (deg)	F/R	360°	F/R	360°		
16.4 18 20 22 24 26 28 30 32 33.5	60 57.5 53.5 49 44.5 39.5 34 27 16.5 0	3500 3375 3225 3075 2950 2850 2625 2400 2175 2000	3500 3375 3150 2700 2350 2050 1825 1650 1475 1375	2000 1775 1450 1225 1025 875 800 725 650 600	1300 1150 950 800 650 525 425 350 300 250		

NOTES:

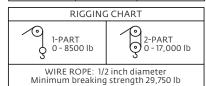
OPERATE WITH JIB BY RADIUS WHEN MAIN BOOM IS FULLY EXTENDED AND BY BOOM ANGLE WHEN MAIN BOOM IS PARTIALLY EXTENDED. DO NOT EXCEED JIB CAPACITIES AT ANY PARTIALLY EXTENDED BOOM LENGTH.

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.



REDUCTION CHART					
	FROM JIB RATINGS				
MAIN BLOCK	140 lb	N/A			
HOOK & BALL	100 lb	100 lb			
JIB, STOWED	0 lb	N/A			
JIB, DEPLOYED	150 lb	0 lb			



- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. 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) 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 training must all be taken into account by the operator.
- 3) 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.

- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 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.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.
- 8) Do not induce any external side loads to boom or jib.

80017680

Load chart

YB4409XL (Four-section boom)

	4-SECTION MAIN BOOM W/ 4TH RETRACTED							
	ON OUTRI	GGERS (Ib)	ON RUB	BER (lb)				
(ft)	F/R	360°	F/R	360°				
5 6 8 10 12 14 16 18 20 22 24 26 27	17000 15700 12400 10200 8500 7100 6000 5200 4450 3800 3300 2900 2750	17000 14400 10800 8500 6950 5800 4650 3800 3150 2700 2350 2050 1925	10000 9500 8000 5400 3800 2750 2150 1800 1500 1100 900 825	10000 8200 5600 3800 2700 1950 1450 1150 950 775 600 450 375				

		CTION M // 4TH EX		
	ON OUTRIC	GGERS (Ib)	ON RUB	BER (lb)
(ft)	F/R	360°	F/R	360°
5 6 8 10 12 14 16 18 20 22 24 26 27 28 30 32 33.5 36	4900 4300 3800 3400 3100 2900 2900 2900 2900 2900 2900 2900 2	- 4900 4300 3800 3400 3100 2900 2900 2900 2650 2300 2150 2000 1800 1600 1400 1250	4900 4300 3800 3400 2900 2400 1950 11000 925 800 700 625 550	4900 4250 3300 2600 2100 1700 1050 850 650 600 500 400 325 250

NOTES:

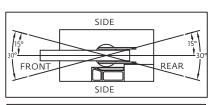
OPERATE WITH JIB BY RADIUS WHEN MAIN BOOM IS FULLY EXTENDED (WITH 4TH SECTION EXTENDED OR RETRACTED) AND BY BOOM ANGLE WHEN MAIN BOOM IS PARTIALLY EXTENDED. DO NOT EXCEED JIB CAPACITIES AT ANY PARTIALLY EXTENDED BOOM LENGTH.

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

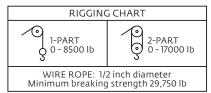
OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGEROUS AND VOIDS WARRANTY.

Radius	RE-	SECTION TRACTED	W/ 6 FT J	IB DEPL	OYED
(ft)	BOOM ANGLE (deg)	F/R	360°	F/R	360°
16.4 18 20 22 24 26 28 30 32 33.5	60 57.5 53.5 49 44.5 39.5 34 27 16.5	3500 3375 3225 3075 2950 2850 2625 2400 2175 2000	3500 3375 3150 2700 2350 2050 1825 1650 1475 1375	2000 1800 1500 1300 1100 925 800 725 650 600	1300 1150 950 800 650 525 425 350 300 250

		SECTION M		-	
Radius	LOADED BOOM	ON OUTRI	GGERS (Ib)	ON RUBE	BER (lb)
(ft)	ANGLE (deg)	F/R	360°	F/R	360°
22 24 26 28 30 32 33.5 36 38 40 42 43	60 57 54 50.5 47 43 40 34.5 29 22.5 11.5 0	2900 2900 2900 2750 2450 2200 1975 1775 1650 1550 1450 1400	2900 2650 2300 2000 1800 1600 1400 1250 1150 1075 1000 950	1600 1350 1100 925 800 700 625 550 500 450 400 375	1050 850 700 600 500 400 325 250 200 150 125 100



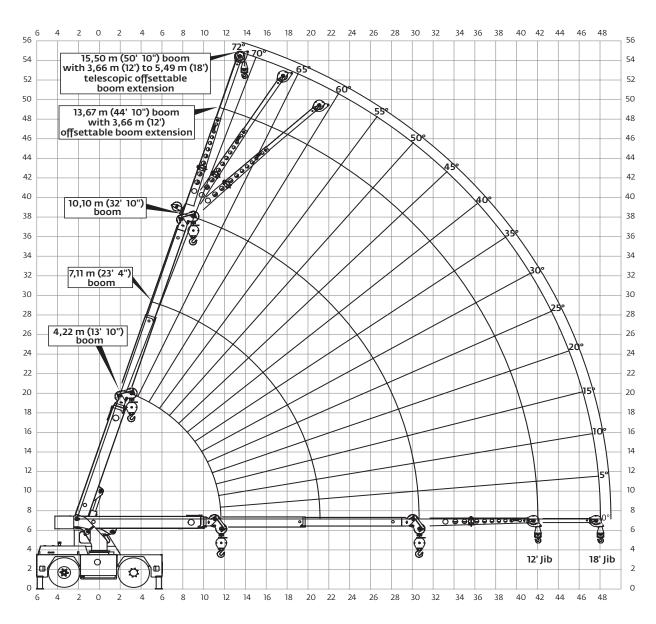
REDUCTION CHART						
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS				
MAIN BLOCK	140 lb	N/A				
HOOK & BALL	100 lb	100 lb				
JIB, STOWED	0 lb	N/A				
JIB, DEPLOYED	150 lb	0 lb				



- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. 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) 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 training must all be taken into account by the operator.
- 3) 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.
- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 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.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.
- 8) Do not induce any external side loads to boom or jib.

Range diagram

YB4409-2



Operating radius in feet from axis of rotation

Boom and extension length in feet

Load chart

YB4409-2

			ON OUTR	IGGERS (Ib)		ON RUI	BBER(Ib)
	RADIUS (ft)	F,	/R	36	50°	F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
	5.0	18,000	14,700	18,000	14,700	11,500	9400
	6.0	15,700	14,400	15,000	14,400	10,000	7500
	8.0	12,200	12,200	11,400	11,400	8100	5040
	10.0	10,200	10,200	9100	9100	5480	3530
Σ	12.0	8400	8400	7600	7600	3920	2590
1 8	14.0	-	7200	-	6500	3040	1970
🖁	16.0	-	6200	-	5310	2420	1560
MAIN BOOM	18.0	-	5400	-	4340	1970	1250
≰	20.0	-	4830	-	3610	1640	1020
-	22.0	-	4000	-	3030	1370	850
	24.0	-	3480	-	2590	1160	710
	26.0	-	3020	-	2250	990	590
	28.0	-	2680	-	2010	830	490
	31.0	-	2270	-	1740	650	360
	34.0	-	1960	-	1500	510	250 180
	36.0	-	1770	-	1350	430 350	130
	38.0	-	1590	-	1200	280	
 ≝	40.0	-	1420	-	1050	280	80 60
'	42.0	-	1270	-	930 880	190	40
	44.0	-	1200	-	880 820	170	20
	46.0	-	1160 1110	-	760	1/0	0
	48.0		1110	-	700	140	U

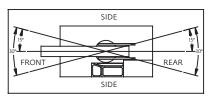
MAIN		JIB STRUCTURAL CAPACITIES (Ib)							
BOOM ANGLE		12 ft JII	3		18 ft JIB				
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET			
72	7500	5100	3500	4000	3300	2300			
70	7000	4800	3400	3750	3100	2200			
65	5700	4100	3100	3200	2700	2000			
60	4500	3500	2800	2800	2400	1850			
55	3500	3000	2550	2450	2150	1700			
50	2800	2500	2300	2150	1950	1600			
45	2300	2200	2000	1900	1750	1500			
40	2000	1900	1800	1700	1600	1400			
35	1775	1675	1600	1525	1450	1350			
30	1600	1500	1400	1400	1300	1300			
25	1450	1400	-	1275	1200	-			
20	1350	1350	-	1175	1125	-			
15	1300	1300	-	1100	1100	-			
10	1275	-	-	1050	-	-			
5	1225	-	-	1025	-	-			
0	1200	_	_	1000	_	-			

NOTES:

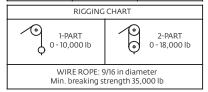
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART							
	FROM MAIN BOOM RATINGS	FROM MAIN JIB RATINGS					
MAIN BLOCK	140 lb	N/A					
HOOK & BALL	100 lb	100 lb					
JIB, STOWED	0 lb	N/A					
JIB, DEPLOYED	450 lb	0 lb					



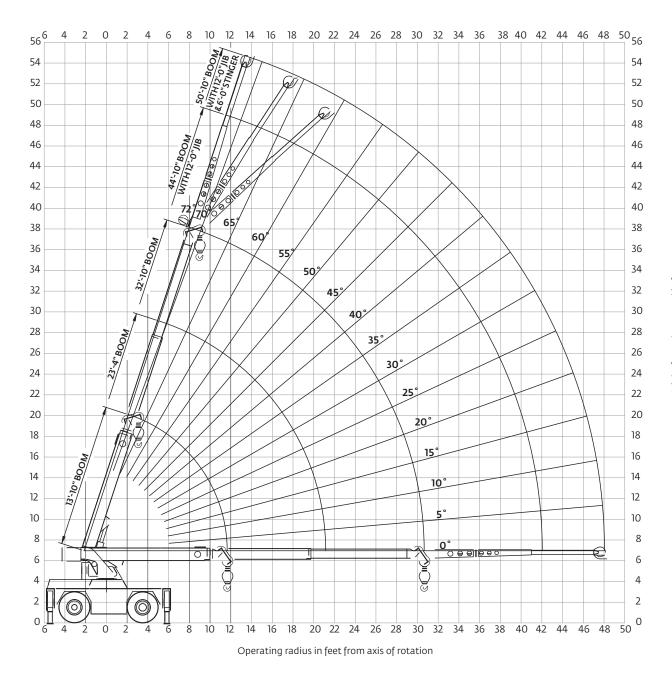
- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) 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 training must all be taken into account by the operator.
- 3) 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.

- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 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.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.
- 8) Do not induce any external side loads to boom or jib.

Height from the ground in feet

Range diagram

YB4411



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.

Boom and extension length in feet

Load chart

YB4411

			ONOUTRIG	GERS (lb)		ON RUB	BER (Ib)
	RADIUS (ft)		ED360° TEDF/R	RETRAC	TED 360°	F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
	4.0	21,000	15,000	19,625	13,975	11,500	11,500
	5.0	18,000	14,700	16,800	13,700	11,500	9400
	6.0	15,700	14,400	13,400	13,400	10,000	7800
	8.0	12,200	12,200	8700	8700	7600	5600
	10.0	10,200	10,200	6150	6150	5175	3875
≥	12.0	8400	8400	4550	4550	3850	2875
1 8	14.0	-	7100	-	3425	3000	2250
l a	16.0	-	6000	-	2775	2400	1800
MAINBOOM	18.0	-	5000	-	2300	1975	1475
≥	20.0	-	4300	-	1825	1650	1200
	22.0	-	3700	-	1550	1400	1000
	24.0	-	3300	-	1275	1200	850
	26.0	-	2900	-	1075	1025	700
	28.0	-	2600	-	950	875	600
	31.0	-	2300	-	800	700	450
	34.0	-	1975	-	650	600	350
	36.0	-	1775	-	550	500	275
	38.0	-	1575	-	450	400	200
<u> </u>	40.0	-	1425	-	350	300	125
	42.0	-	1300	-	250	200	-
	44.0	-	1200	-	200	150	-
	46.0	-	1100	-	175	-	-
	48.0	-	1000	-	150	-	-

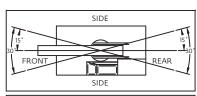
		JIB STRUCTURAL CAPACITIES (Ib)							
MAIN BOOM ANGLE		12 ft JIB			18ftJIB				
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET			
72	7500	5100	3500	4000	3300	2300			
70	7000	4800	3400	3750	3100	2200			
65	5700	4100	3100	3200	2700	2000			
60	4500	3500	2800	2800	2400	1850			
55	3500	3000	2550	2450	2150	1700			
50	2800	2500	2300	2150	1950	1600			
45	2300	2200	2000	1900	1750	1500			
40	2000	1900	1800	1700	1600	1400			
35	1775	1675	1600	1525	1450	1350			
30	1600	1500	1400	1400	1300	1300			
25	1450	1400	-	1275	1200	-			
20	1350	1350	-	1175	1125	-			
15	1300	1300	-	1100	1100	-			
10	1275	-	-	1050	-	-			
5	1225	-	-	1025	-	-			
0	1200	-	-	1000	-	-			

NOTES:

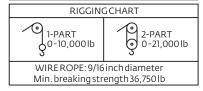
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART						
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS				
MAINBLOCK	140 lb	N/A				
HOOK&BALL	100 lb	100 lbs				
JIB, STOWED	Olb	N/A				
JIB, DEPLOYED	450lb	Olb				



- 1) The rated loads are the maximum lifting capacities as determined by operating radius, boom extension 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) 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. Retracted outrigger rated loads meet ASME B30.5-2004. 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 training must all be taken into account by the operator.
- 3) 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.

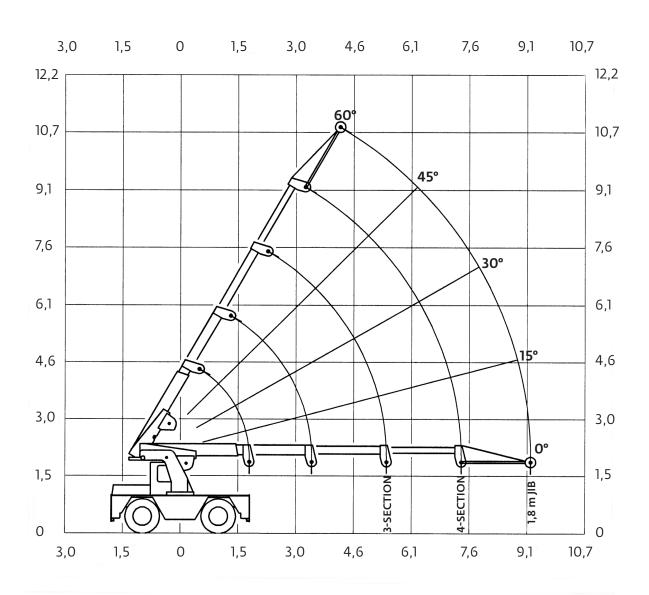
- 4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (125 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.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.
- 8) Do not induce any external side loads to boom or jib.

80016879

Height from the ground in meters

Metric 85% range diagram

YB4409



Operating radius in meters from axis of rotation

Boom and extension length in meters

Metric 85% load chart

YB4409

	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED						l	4-SECTION ITH 4TH E)
Radius	ON OUTRIC	GERS (kg)	ON RUBBI	ER (kg)		Radius	ON OUTRIC	GGERS (kg)	ON RUBI	BER (kg)
(m)	F/R	360°	F/R	360°		(m)	F/R	360°	F/R	360°
1,5 1,8 2,4 3,0	7710 7120 5620 4630	7710 6530 4900 3900	4540 4540 3240 2130	4540 3380 2000 1340	MOO	1,5 1,8 2,4 3,0	2770 2770 2400 2130	2770 2770 2400 2130	2770 2770 2400 2130	2770 2770 2380 1700
3,7 4,3 4,9 5,5	3860 3270 2770 2270	3180 2450 1950 1610	1540 1200 980 810	990 770 600 500	MAINB	3,7 4,3 4,9 5,5	2000 2000 2000 2000 2000	2000 2000 2000 1860	1720 1320 1050 860	1110 850 690 560
6,1 6,7 7,5	1220 1180 1000	1220 1180 1000	690 610 520	430 370 310		6,1 6,7 7,5	1950 1680 1410	1430 1220 1040	730 620 540	450 390 320
7,9 8,5 9,1 9,4	- - -	- - -	- - -	- - -)IB	7,9 8,5 9,1 9,4	1220 1130 1040 1000	960 860 770 740	500 440 390 360	290 260 220 190

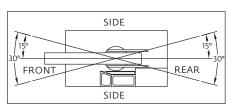
MAIN BOOM	JIB STRUCTURAL	JIB STRUCTURAL CAPACITIES (kg)					
ANGLE (deg)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED					
60	1590	1590					
55	1510	1510					
50	1430	1430					
45	1360	1360					
40	1305	1305					
35	1270	1270					
30	1225	1225					
25	1180	1180					
20	1135	1135					
15	1090	1090					
10	1055	1055					
5	1020	1020					
0	1000	1000					

NOTES:

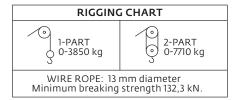
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART								
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS						
MAIN BLOCK	60 kg	N/A						
HOOK & BALL	50 kg	50 kg						
JIB, STOWED	0 kg	N/A						
JIB, DEPLOYED	70 kg	0 kg						



- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. 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) 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 operator, and proper training must all be taken into account by the operator.
- 3) 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.

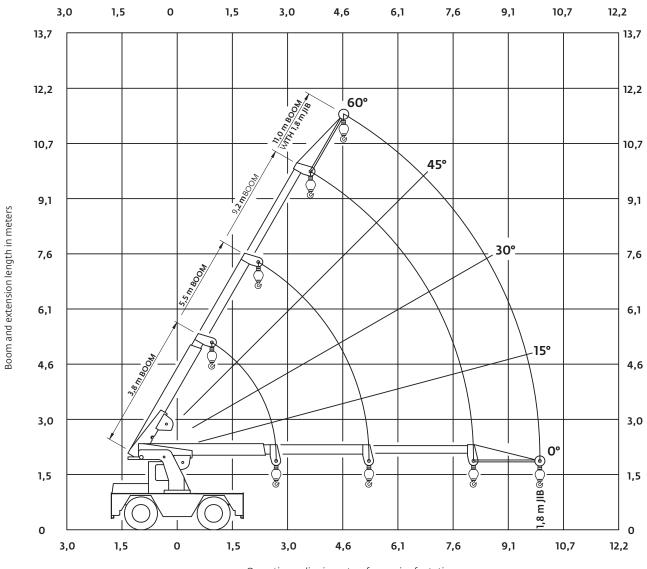
- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

^{*}Limit ratings to 5350 kg when third section is extended any amount.

Height from the ground in meters

Metric 85% range diagram

YB4409XL



Operating radius in meters from axis of rotation

Metric 85% load chart

YB4409XL

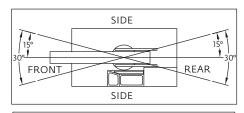
	3-SECTION	MAIN BOOM		3-SECTION	MAIN BOOM		3-SECT	ION MAIN B	OOM W/1,8	m JIB DE	PLOYED
Radius	ON OUTRI	GGERS (kg)	Radius	ON RUB	BER (kg)	Radius	LOADED BOOM	ON OUTRI	GGERS (kg)	ON RUB	BER (kg
(m)	F/R	360°	(m)	F/R	360°	(m)	ANGLE (deg)	F/R	360°	F/R	360°
1,5	7710	<i>7</i> 710	1,5	4540	4540	5,0	60	1590	1590	910	590
1,8	7120	6530	1,8	4310	3720	5,5	57,5	1530	1530	810	520
2,4	5620	4900	2,4	3320	2320	6,1	53,5	1460	1430	660	430
3,0	4630	3860	3,0	2210	1580	6,7	49	1390	1220	560	360
3,7	3860	3150	3,7	1610	1160	7,3	44,5	1340	1070	460	290
4,3	3220	2630	4,3	1250	870	7,9	39,5	1290	930	400	240
4,9	2720	2110	4,9	980	660	8,5	34	1190	830	360	190
5,5	2360	1720	5,5	810	520	9,1	27	1090	750	330	160
6,1	2020	1430	6,1	660	430	9,8	16,5	990	670	300	140
6,7	1720	1220	6,7	560	360	10,2	0	910	620	270	110
7,3	1500	1070	7,3	460	290			•			
7,9	1320	930	7,9	400	240						
8,2	1250	870	8,2	390	220						

NOTES:

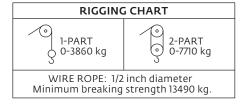
OPERATE WITH JIB BY RADIUS WHEN MAIN BOOM IS FULLY EXTENDED AND BY BOOM ANGLE WHEN MAIN BOOM IS PARTIALLY EXTENDED. DO NOT EXCEED JIB CAPACITIES AT ANY PARTIALLY EXTENDED BOOM LENGTH.

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

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



REI	REDUCTION CHART								
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS							
MAIN BLOCK	64 kg	N/A							
HOOK & BALL	48 kg	48 kg							
JIB, STOWED	0 kg	N/A							
JIB, DEPLOYED	68 kg	0 kg							

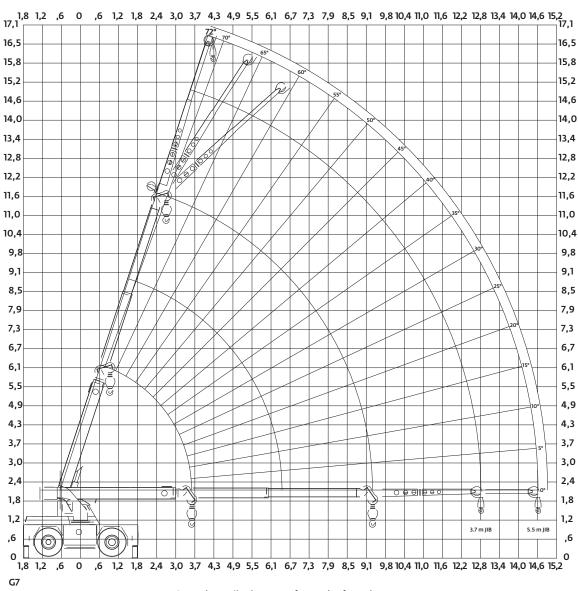


- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) 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 operator, and proper training must all be taken into account by the operator.

- 3) 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.
- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5443 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

Metric 85% range diagram

YB4409-2



Operating radius in meters from axis of rotation

Boom and extension length in meters

Metric 85% load chart

YB4409-2

			ON OUTRI	ON RUBE	BER (kg)		
	RADIUS (m)	F/	'R	36	0°	F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
	1,5	8165	6670	8165	6670	5215	4265
	1,8	7120	6530	6805	6530	4535	3400
	2,4	5535	5535	5170	5170	3675	2285
	3,0	4625	4625	4130	4130	2485	1600
Σ	3,7	3810	3810	3450	3450	1780	1175
8	4,3	-	3265	-	2950	1380	895
<u>ĕ</u>	4,9	-	2810	-	2410	1100	705
MAIN BOOM	5,5	-	2450	-	1970	895	565
È	6,1	-	2190	-	1640	745	460
	6,7	-	1815	-	1375	620	385
	7,3	-	1580	-	1175	525	320
	7,9	-	1370	-	1020	450	270
	8,5	-	1215	-	910	375	220
	9,4	-	1030	-	790	295	165
	10,4	-	890	-	680	230	115
	11,0	-	800	-	610	195	80
	11,6	-	720	-	545	160	60
ω	12,2	-	645	-	475	125	35
<u> </u>	12,8	-	575	-	420	95	30
	13,4	-	545	-	400	85	20
	14,0	-	525	-	370	80	10
	14,6	-	505	-	345	65	0

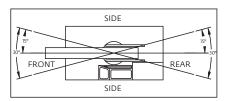
	JIB STRUCTURAL CAPACITIES (kg)								
MAIN BOOM ANGLE		3,7 m JIB		į	5,5 m JIB				
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET					
72	3400	2315	1590	1815	1500	1045			
70	3175	2180	1540	1700	1405	1000			
65	2585	1860	1405	1450	1225	910			
60	2040	1590	1270	1270	1090	840			
55	1590	1360	1155	1110	975	770			
50	1270	1135	1045	975	885	725			
45	1045	1000	910	860	795	680			
40	910	860	815	770	725	635			
35	805	760	725	690	660	610			
30	725	680	635	635	590	590			
25	660	635	-	580	545	-			
20	610	610	-	530	510	-			
15	590	590	-	500	500	-			
10	580	-	-	475	-	-			
5	555	-	-	465	-	-			
0	545	-	-	455	-	-			

NOTES:

JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



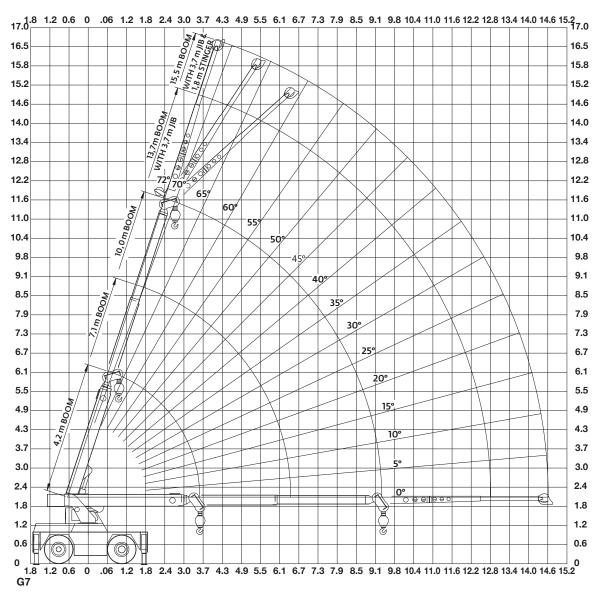
R	REDUCTION CHART							
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS						
MAIN BLOCK	60 kg	N/A						
HOOK & BALL	45 kg	45 kg						
JIB, STOWED	0 kg	N/A						
JIB, DEPLOYED	200 kg	0 kg						



- 1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension 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) 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 operator, and proper training must all be taken into account by the operator.
- 3) 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.
- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

Boom and extension length in meters

Metric 85% range diagram



Operating radius in meters from axis of rotation

Metric 85% load chart

YB4411

			ONOUTRIGO	ONRUBBE	R(kg)		
	RADIUS (m)	EXTENDED360° RETRACTEDF/R		RETRACT	ED360°	F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
	1,2	9530	6800	8900	6340	5220	5220
	1,5	8160	6670	7620	6210	5220	4260
	1,8	7120	6530	6080	6080	4540	3540
	2,4	5530	5530	3950	3950	3450	2540
	3,0	4630	4630	2790	2790	2350	1760
Σ	3,7	3810	3810	2060	2060	1750	1300
MAINBOOM	4,3	-	3220	-	1550	1360	1020
<u> </u>	4,9	-	2720	-	1260	1090	820
	5,5	-	2270	-	1040	900	670
È	6,1	-	1950	-	830	750	540
	6,7	-	1680	-	700	640	450
	7,3	-	1500	-	580	540	390
	7,9	-	1320	-	490	460	320
	8,5	-	1180	-	430	400	270
	9,4	-	1040	-	360	320	200
	10,3	-	900	-	290	270	350
	10,9	-	800	-	250	230	160
	11,5	-	710	-	200	180	90
	12,1	-	650	-	160	140	60
=	12,8	-	590	-	110	90	-
	13,4	-	540	-	90	70	-
	14,0	-	500	-	80	-	-
	14,6	-	450	-	70	-	-

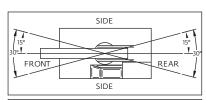
	JII	JIBSTRUCTURAL CAPACITIES (kg)								
MAIN BOOM ANGLE		3,7mJIB			5,5 mJIB					
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET				
72	3400	2310	1590	1810	1500	1040				
70	3180	2180	1540	1700	1410	1000				
65	2590	1860	1400	1450	1220	910				
60	2040	1590	1270	1270	1090	840				
55	1590	1360	1160	1110	980	770				
50	1270	1130	1040	980	880	730				
45	1040	1000	910	860	793	680				
40	1000	860	820	770	730	640				
35	800	760	730	690	660	610				
30	730	680	640	640	590	590				
2	660	640	-	580	540	-				
2	610	610	-	530	510	-				
15	590	590	-	500	500	-				
10	580	-	-	480	-	-				
5	560	-	-	460	-	-				
0	540	-	-	450	-	-				

NOTES:

JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



RE	REDUCTION CHART							
	FROM MAINBOOM RATINGS	FROM JIB RATINGS						
MAINBLOCK	66kg	N/A						
HOOK&BALL	48kg	48kg						
JIB, STOWED	0kg	N/A						
JIB, DEPLOYED	200 kg	0kg						

RIGGIN	GCHART
1-PART 0-4540 kg	2-PART 0-9530kg
WIREROPE:14m	
Min.breakingstr	enatn=16.6/0ka.

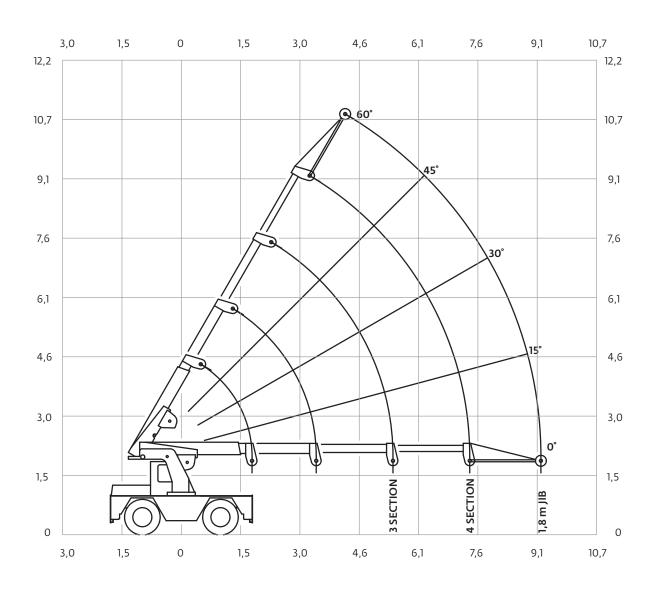
- 1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) 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. Retracted outrigger rated loads meet ASME B30.5-2004. 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 operator, and proper training must all be taken into account by the operator.
- 3) 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.

- 4) 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.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (125 psi). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

Height from the ground in meters

DIN/ISO range diagram

YB4409



Operating radius in meters from axis of rotation

Boom and extension length in meters

DIN/ISO load chart

YB4409

DADILIC	4-SEC	3-SECTION FION BOOM W	BOOM OR ITH 4TH RETR	ACTED		DADUIS	4-SECTION BOOM WITH 4TH EXTENDED				
RADIUS (m)	ON OUTRI	GGERS (kg)	ON RUB	BER (kg)	1	RADIUS (m)	ON OUTRI	GGERS (kg)	ON RUE	BER (kg)	
	F/R	360°	F/R	360°			F/R	360°	F/R	360°	
1,5	7710	7710	4540	4380		1,5	2770	2770	2770	2770	
1,8	7120	6530	4540	3260		1,8	2770	2770	2770	2770	
2,4	5620	4900	3200	1970	5	2,4	2400	2400	2400	2380	
3,0	4630	3900	2080	1300	ВООМ	3,0	2130	2130	2130	1560	
3,7	3860	3000	1520	950	M	3,7	2000	2000	1660	1080	
4,3	3270	2250	1160	730	MAIN	4,3	2000	2000	1280	820	
4,9	2580	1800	930	570	Σ	4,9	2000	2000	1010	650	
5,5	2100	1470	770	460		5,5	2000	1720	820	510	
6,1	1220	1220	670	400	١	6,1	1800	1310	690	420	
6,7	1180	1120	590	340	$ \setminus $	6,7	1540	1110	590	340	
7,5	1000	930	480	260	\	7,5	1290	940	500	270	
7,9	-	-	-	-		7,9	1190	870	460	250	
8,5	-	-	-	-		8,5	1080	780	410	210	
9,1	-	-	-	-	黑	9,1	970	690	350	170	
9,4	-	-	-	-		9,4	920	660	330	150	

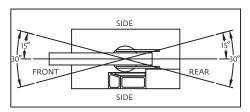
MAIN	JIB STRUCTURAL CAPACITIES (kg)						
BOOM ANGLE (deg)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED					
60	1590	1588					
55	1510	1508					
50	1430	1429					
45	1360	1361					
40	1305	1304					
35	1270	1270					
30	1225	1225					
25	1180	1179					
20	1135	1134					
15	1090	1089					
10	1055	1055					
5	1020	1021					
0	1000	998					

NOTES:

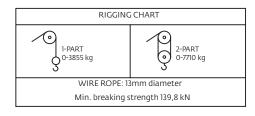
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART					
	FROM FROM MAIN BOOM JIB RATINGS RATINGS				
MAIN BLOCK	64 kg	N/A			
HOOK & BALL	45 kg	45 kg			
JIB, STOWED	0 kg	N/A			
JIB, DEPLOYED	68 kg	0 kg			



- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. 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) 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 operator, and proper training must all be taken into account by the operator.
- 3) 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.

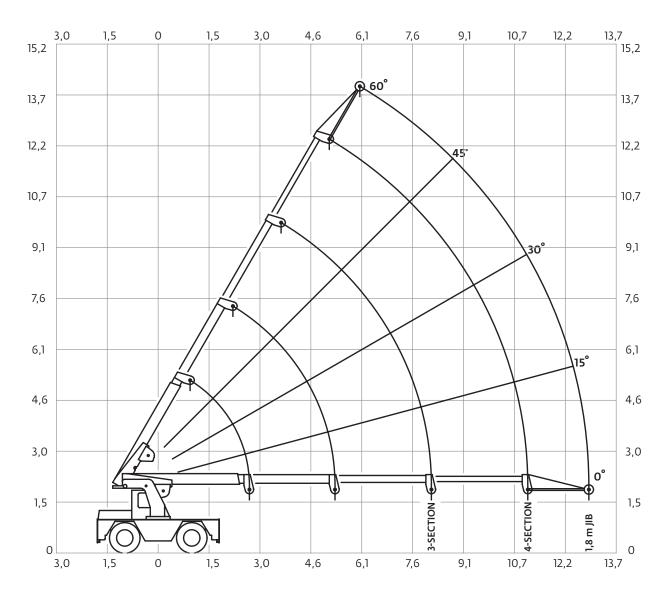
- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

^{*}LIMIT RATINGS TO 5350 kg WHEN 3RD SECTION IS EXTENDED ANY AMOUNT.

Height from the ground in meters

DIN/ISO range diagram

YB4409XL



Operating radius in meters from axis of rotation

Boom and extension length in meters

DIN/ISO load chart

YB4409XL

RADIUS	4-SECTIO	3-SECTION ON BOOM W	BOOM OR ITH 4TH RET	RACTED		RADIUS		ON BOOM V	VITH 4TH EX	TENDED
(m)	ON OUTRI	GGERS (kg)	ON RUB	BER (kg)		(m)	ON OUTRI	GGERS (kg)	ON RUB	BER (kg)
	F/R	360°	F/R	360°	l		F/R	360°	F/R	360°
1,5	7710	7710	4535	4535	П	1,5	-	-	-	-
1,8	7120	6530	4310	3720		1,8	-	-	-	-
2,4	5625	4900	3580	2490		2,4	2225	2225	2225	2225
3,0	4625	3855	2400	1670		3,0	1950	1950	1950	1880
3,7	3855	3150	1670	1170	⅀	3,7	1725	1725	1725	1450
4,3	3220	2550	1200	830	BOOM	4,3	1540	1540	1540	1130
4,9	2720	1930	930	610	<u>~</u>	4,9	1405	1405	1270	900
5,5	2360	1570	770	470	MAIN	5,5	1315	1315	1040	720
6,1	1850	1290	630	380	Ì	6,1	1315	1315	830	560
6,7	1570	1100	540	310		6,7	1315	1315	680	430
7,3	1360	950	450	240		7,3	1315	1080	560	340
7,9	1180	820	370	190		7,9	1315	930	450	270
8,2	1120	770	340	170		8,2	1200	860	400	240
8,5	1070	730	310	140	Λ	8,5	1120	800	370	220
9,1	970	650	280	110	I۱	9,1	990	710	310	180
9,8	880	580	240	90	I١	9,8	890	630	270	130
10,2	800	530	220	60	I١	10,2	790	540	230	100
11,0	-	-	-	-	ı۷	11,0	700	480	200	60
11,6	-	-	-	-		11,6	650	440	180	40
12,2	-	-	-	-	Щ	12,2	610	410	150	20
12,8	-	-	-	-	ľ	12,8	570	370	130	10
13,1	-	-	-	-	$ldsymbol{ld}}}}}}$	13,1	540	350	120	0

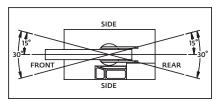
MAIN	JIB STRUCTURAL CAPACITIES (kg)					
BOOM ANGLE (deg)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED				
60	1590	1540				
55	1510	1405				
50	1430	1295				
45	1360	1180				
40	1305	1100				
35	1270	1045				
30	1225	1000				
25	1180	975				
20	1135	965				
15	1090	955				
10	1055	930				
5	1020	920				
0	1000	905				

NOTES:

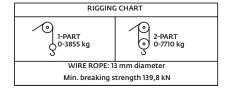
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



	REDUCTION CHART					
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS				
MAIN BLOCK	64 kg	N/A				
HOOK & BALL	45 kg	45 kg				
JIB, STOWED	0 kg	N/A				
JIB, DEPLOYED	68 kg	0 kg				

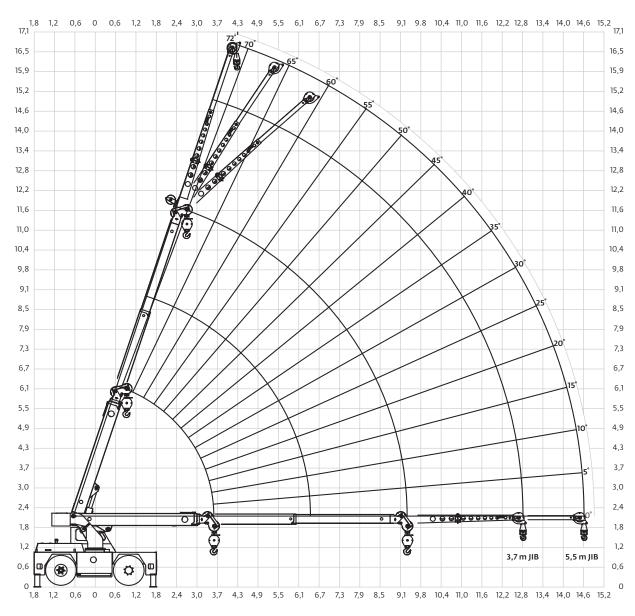


- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) 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 operator, and proper training must all be taken into account by the operator.
- 3) 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.

- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5443 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

DIN/ISO range diagram

YB4409-2



Operating radius in meters from axis of rotation

Boom and extension length in meters

DIN/ISO load chart

YB4409-2

			ON OUTRI		ON RUB	BER (kg)	
	RADIUS (m)	F/	'R	36	o°	F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6800	6530	4540	3360
	2,4	5530	5530	5170	5170	3670	2240
	3,0	4630	4630	4130	4130	2440	1550
Σ	3,7	3810	3810	3450	3450	1730	1130
8	4,3	-	3270	-	2800	1330	840
8 7	4,9	-	2810	-	2220	1050	660
MAIN BOOM	5,5	-	2450	-	1800	850	520
_ ≥	6,1	-	2010	-	1490	700	420
	6,7	-	1670	-	1250	570	340
	7,3	-	1430	-	1060	480	280
	7,9	-	1240	-	910	400	220
	8,5	-	1090	-	810	330	170
	9,4	-	920	-	690	250	120
	10,4	-	780	-	590	180	70
	11,0	-	710	-	530	150	40
	11,6	-	630	-	460	110	10
	12,2	-	560	-	400	80	0
E	12,8	-	490	-	350	50	0
	13,4	-	460	-	320	40	0
	14,0	-	440	-	300	30	0
	14,6	-	430	-	270	20	0

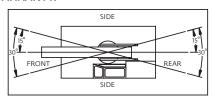
		JIB STRUCTURAL CAPACITIES (kg)						
MAIN BOOM ANGLE		3,7 m JIB		5,5 m JIB				
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET		
72	3400	2310	1590	1810	1500	1040		
70	3180	2180	1540	1700	1410	1000		
65	2590	1860	1410	1450	1220	910		
60	2040	1590	1270	1270	1090	840		
55	1590	1360	1160	1110	980	770		
50	1270	1130	1040	980	880	730		
45	1040	1000	910	860	790	680		
40	910	860	820	770	730	640		
35	810	760	730	690	660	610		
30	730	680	640	640	590	590		
25	660	640	-	580	540	-		
20	610	610	-	530	510	-		
15	590	590	-	500	500	-		
10	580	-	-	480	-	-		
5	560	-	-	460	-	-		
0	540	-	-	450	-	-		

NOTES:

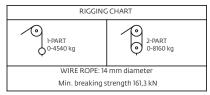
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART						
	FROM FROM JIB RATINGS RATINGS					
MAIN BLOCK	60 kg	N/A				
HOOK & BALL	45 kg	45 kg				
JIB, STOWED	0 kg	N/A				
JIB, DEPLOYED	200 kg	0 kg				



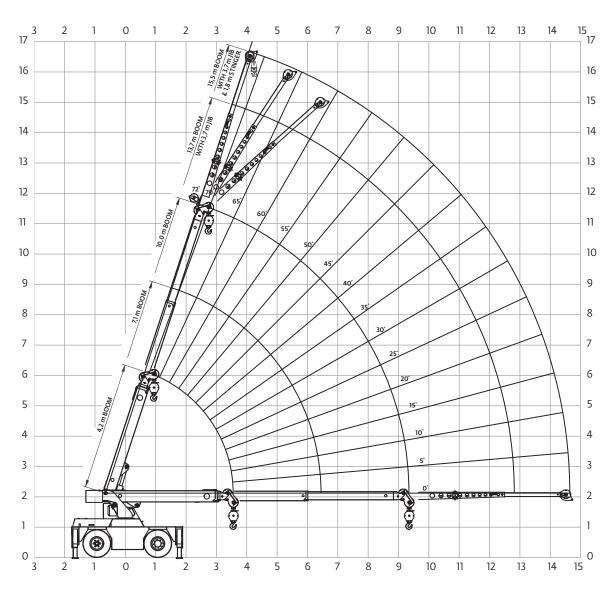
- 1) The rated loads are the maximum lifting capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading to the center of vertical hoist line or tackle with load applied.
- 2) 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 training must all be taken into account by the operator.
- 3) 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.

- 4) Ratings on outriggers are for outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (700 kPA). 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.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

80019958

DIN/ISO range diagram

YB4411



Operating radius in meters from axis of rotation

Boom and extension length in meters

DIN/ISO load chart

YB4411

			ON OUTRI	GGERS (kg)		ON RUB	BER (kg)
	RADIUS (m)	EXTEND RETRAC		RETRAC	TED 360°	F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
	1,2	9530	6800	9530	6800	5220	5220
	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6530	6530	4540	3540
	2,4	5530	5530	3960	3960	3670	2680
	3,0	4630	4630	2810	2810	2720	1810
≥	3,7	3810	3810	2090	2090	2040	1310
MAIN BOOM	4,3	-	3220	-	1570	1590	1040
<u>a</u>	4,9	-	2720	-	1270	1270	820
₽	5,5	-	2270	-	1060	1040	680
Σ	6,1	-	1790	-	850	860	540
	6,7	-	1530	-	720	730	430
	7,3	-	1360	-	590	630	380
	7,9	-	1190	-	510	540	320
	8,5	-	1060	-	440	480	270
	9,4	-	930	-	380	360	180
	10,4	-	790	-	310	270	110
	11,0	-	710	-	270	230	80
	11,6	-	620	-	220	180	40
æ	12,2	-	560	-	180	150	10
E E	12,8	-	510	-	130	110	0
	13,4	-	460	-	110	90	0
	14,0	-	420	-	90	80	0
	14,6	-	380	-	80	70	0

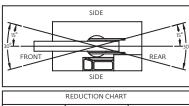
		JIB STRUCTURAL CAPACITIES (kg)						
MAIN BOOM ANGLE		3,7 m JIB		5,5 m JIB				
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET		
72	3400	2310	1590	1810	1500	1040		
70	3180	2180	1540	1700	1410	1000		
65	2590	1860	1410	1450	1220	910		
60	2040	1590	1270	1270	1090	840		
55	1590	1360	1160	1110	980	770		
50	1270	1130	1040	980	880	730		
45	1040	1000	910	860	790	680		
40	910	860	820	770	730	640		
35	810	760	730	690	660	610		
30	730	680	640	640	590	590		
25	660	640	-	580	540	-		
20	610	610	-	530	510	-		
15	590	590	-	500	500	-		
10	580	-	-	480	-	-		
5	560	-	-	460	-	-		
0	540	-	-	450	-	-		

NOTES:

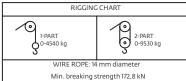
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



REDUCTION CHART					
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS			
MAIN BLOCK	60 kg	N/A			
HOOK & BALL	45 kg	45 kg			
JIB, STOWED	0 kg	N/A			
JIB, DEPLOYED	200 kg	0 kg			



1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. 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) 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 operator, and proper training must all be taken into account by the operator.

3) 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.

4) Ratings on outriggers are with

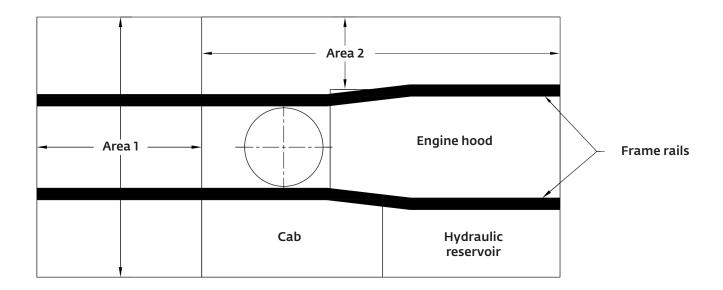
outriggers fully extended.

- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4 km/h on a smooth, hard level surface with boom retracted to the shortest length possible and centered over front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.
- 8) Do not induce any external side loads to boom or jib.

Load distribution chart

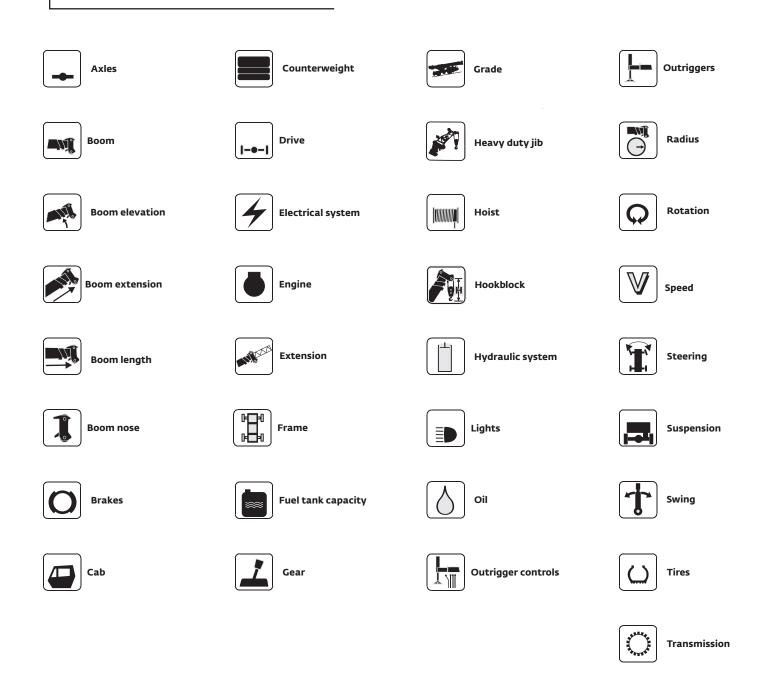
AREA 1	
2,37 m sq (25.5 sq ft)	4082 kg (9000 lb)
AREA 2	
1,43 m sq (15.4 sq ft)	2268 kg (5000 lb)

- 1) Maximum travel speed with any or all loads 4,0 km/h (2.5 mph)
- 2) Loads to be transported on smooth level surfaces only.
- 3) Boom must be retracted and in center forward position.
- 4) Any combination or total of areas 1 and 2 may be used.
- 5) Lifting is not permitted when carry deck is loaded except for loading and unloading carry deck.
- 6) Rated pick and carry loads may be transported on deck area 1 provided the load is cribbed directly on the frame rails.



Grove YB4400 Series 41

Symbols glossary



Notes

Grove YB4400 Series 43



Manitowoc Cranes

Regional headquarters

Americas

Manitowoc, Wisconsin, USA

Tel: +1 920 684 6621 Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA

Tel: +17175978121 Fax: +17175974062 Europe, Middle East, Africa Ecully, France

Tel: +33 (0)4 72 18 20 20 Fax: +33 (0)4 72 18 20 00 China

Shanghai, China Tel: +86 21 6457 0066 Fax: +86 21 6457 4955 **Greater Asia-Pacific**Singapore

Tel: +65 6264 1188 Fax: +65 6862 4040

Regional offices

Americas

Brazil
Alphaville
Mexico
Monterrey
Chile
Santiago

Europe, Middle East,

Africa
France
Baudemont
Cergy
Decines
Germany
Langenfeld
Italy
Lainate

Netherlands Breda **Poland**

Warsaw **Portugal** Baltar **Russia** Moscow

South Africa Johannesburg

U.A.E. Dubai **U.K.**

Buckingham

China

Beijing Chengdu Guangzhou Xian

Greater Asia-Pacific

Australia
Brisbane
Melbourne
Sydney
India
Chennai
Delhi
Hyderabad
Pune
Korea
Seoul
Philippines
Makati City
Singapore

Factories

BrazilPasso Fundo **China**TaiAn

Zhangjiagang France Charlieu

Moulins **Germany** Wilhelmshaven

India Pune Italy Niella Tanaro

Portugal Baltar Fânzeres USA Manitowoc Port Washington

Shady Grove

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.