

Grove YB4400 Series Product Guide



- 3,6 m (12 ft) offsettable swingaway extension (YB4409-2 and YB4411)
- 63,4 kW (85 bhp) Cummins diesel engine or 59,6 kW (80 bhp) GM EFI dual fuel engine

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

Standard: Cummins QSB 3.3 L turbo-charged diesel rated at 63,4 kW (85 bhp) at 2600 rpm.



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.



Cab

Standard: Open air cab shell with overhead safety glass.

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



Steering

Standard: four-wheel coordinated steer **Standard:** two-wheel, four-wheel, and crab steer with self alignment (YB4411) **Optional:** two-wheel, four-wheel, and crab steer (standard on YB4409-2)

Contents

Specifications	4
YB4409 (dimensions/turning radius/range diagram/load chart)	7
YB4409XL (dimensions/turning radius/range diagram/load chart)	11
YB4409-2 (dimensions/turning radius/range diagram/load chart)	17
YB4411 (dimensions/turning radius/range diagram/load chart)	21
YB4409 DIN/ISO (range diagram/load chart)	25
YB4409XL DIN/ISO (range diagram/load chart)	27
YB4409-2 DIN/ISO (range diagram/load chart)	29
YB4411 DIN/ISO (range diagram/load chart)	31
Symbols glossary	33

Specifications

Superstructure

Boom

YB4409: 2,9 m - 6,5 m (9 ft 8 in - 21 ft 2 in) threesection 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 $(0^{\circ}, + 30^{\circ}, + 80^{\circ})$ 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.

4

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.



*Load Moment Indicator (hardwired LMI)

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

(hardwired system)



Ball bearing swing circle with 360° continuous rotation.

Hydraulic driven worm gear and pinion. Maximum speed: 2.05 rpm

Hydraulic system

YB4409 and 4409XL: (2) gear pumps

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

Combined flow: 107,9Lpm (28.5 gpm)

Maximum system operating pressure: 3600 psi

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

YB4409-2 and 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.

89 L (23.5 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)

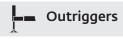
Rope length :

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.



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 YB4411: 387 psi YB4409-2: 135 psi



Outrigger controls

YB4409-2, **YB4409 and YB4409XL**: Lever controls located on dash panel which operate the beams in pairs from side to side.

YB4411: Two switch operation mounted on dash panel. One -three- position rocker switch to select all beams/jacks, left beams/jacks only, or right beams/ jacks only. Separate -four- way toggle switch to activate beams out/in and jacks down/up. Level bubble indicator located inside operators compartment. *Independent outrigger controls available as an option.



Standard engine (Tier III)

Cummins QSB 3.3 L turbo-charged diesel rated at 63,4 kW (85 bhp) at 2600 rpm. Supplied with 110 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.



*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.



Fuel tank capacity

70 L (18.5 gallon) all steel construction with steel side plate to guard against side impact.

Specifications



Electrical system

One 12V maintenance free battery, 820CCA at 0°. Jump start connections. 95 amp alternator.



 $4 \ge 2$ – Front axle drive with planetary hubs and limited slip differential.



YB4409 / XL: two-wheel, four-wheel steer 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.



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



10.00 x 15 pneumatic



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.

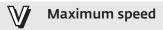


Suspension

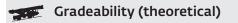
Front: Rigid mounted to frame. Rear: Rigid mounted to frame.



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



35,6 km/h (22 mph)



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)

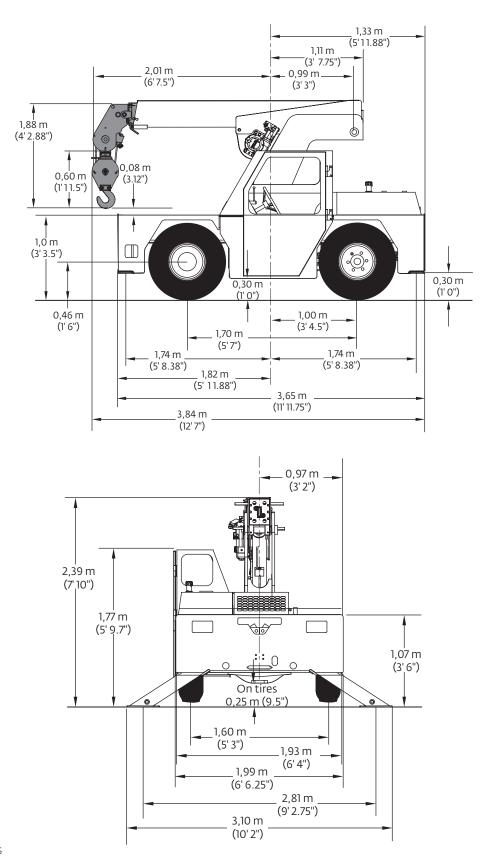
YB4409: 6849 kg (15,100 lb) **YB4409XL**: 7512 kg (16,560 lb) **YB4409-2**: 7734 kg (17,050 lb) **YB4411**: 7947 kg (17,520 lb) *All weights with enclosed cab

Miscellaneous standard equipment

Single sheave, "Quick Reeve" style hook block.; **YB4409 / XL**: 8,0 t (8.5 USt) **YB4409-2**: 8,1 t (9 USt) **YB4411:** 10 t (10.5 USt) Back-up alarm

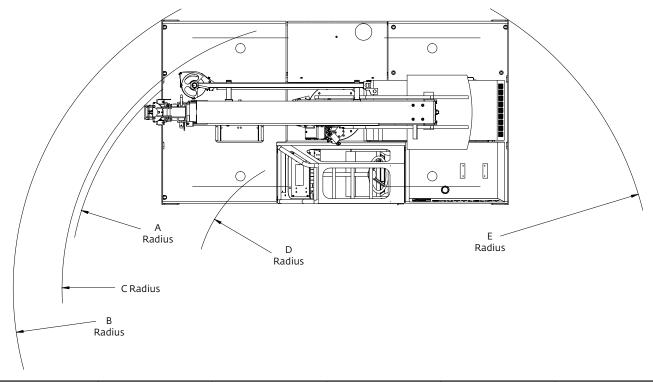
Dimensions

YB4409



Turning radius

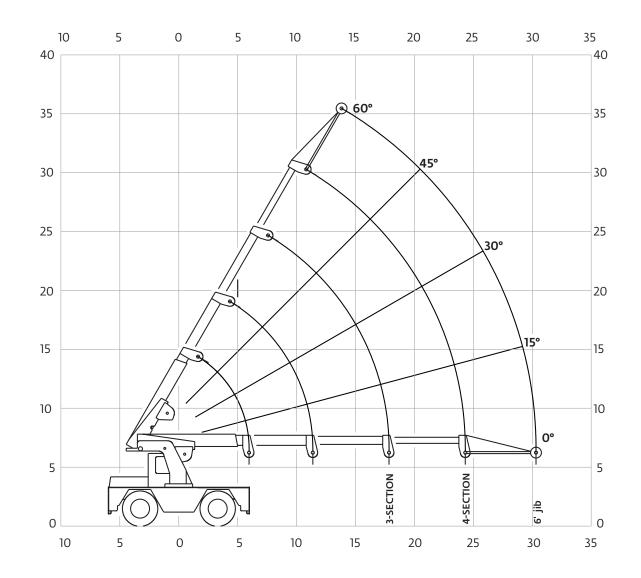




	A	В	С	D	E
Two-wheel steer	4496 mm	4737 mm	4636 mm	2718 mm	5525 mm
	(14 ft 9 in)	(15 ft 6.5 in)	(15 ft 2.5 in)	(8 ft 11 in)	(18 ft 1.5 in)
Four-wheel steer	3048 mm	3645 mm	3188 mm	1473 mm	3569 mm
	(10 ft 0 in)	(11 ft 9.5 in)	(10 ft 5.5 in)	(4 ft 10 in)	(11 ft 8.5 in)

Range diagram

YB4409



Operating radius in feet from axis of rotation

Height from the ground in feet

Load chart

YB4409

RADIUS			BOOM OR ITH 4TH RET	RACTED		RADIUS		ION BOOM W	/ITH 4TH EX	TENDED	MAIN	JIB STRUCTURAL CAPACITIES (Ib)	
(ft)		IGGERS (Ib)	ON RU	BBER (Ib)		(ft)		IGGERS (Ib)	ON RU	BBER (Ib)	воом	3-SECTION BOOM OR	
	F/R	360°	F/R	360°			F/R	360°	F/R	360°	ANGLE (deg)	4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED
5.0	* 17,000	* 17,000	10,000	10,000	MAIN BOOM	5.0	6100	6100	6100	6100	60	3500	3500
6.0	ຼັ 15,700	* 14,400	10,000	7450	8	6.0	6100	6100	6100	6100			
8.0	[*] 12,400	10,800	7150	4400	ē	8.0	5300	5300	5300	5250	55	3325	3325
10.0	10,200	8600	4700	2950	I₹ I	10.0	4700	4700	4700	3750	50	3150	3150
12.0	8500	7000	3400	2175	Ξ	12.0	4400	4400	3800	2450	45	3000	3000
14.0	7200	5400	2650	1700		14.0	4400	4400	2900	1875	40	2875	2875
16.0	6100	4300	2150	1325		16.0	4400	4400	2325	1525	35	2800	2800
18.0	5000	3550	1775	1100		18.0	4400	4100	1900	1225	30	2700	2700
20.0	2700	2700	1525	950	Ν	20.0	4300	3150	1600	1000			
22.0	2600	2600	1350	825	$ \rangle$	22.0	3700	2700	1375	850	25	2600	2600
24.5	2200	2200	190	675	$ \rangle$	24.5	3100	2300	1200	700	20	2500	2500
26.0	-	-	-	-		26.0	2700	2125	100	650	15	2400	2400
28.0	-	-	-	-	<u>۳</u>	28.0	2500	1900	975	575	10	2325	2325
30.0	-	-	-	-	=	30.0	2300	1700	850	475	5	2250	2250
31.0	-	-	-	-		31.0	2200	1625	800	425	0	2200	2200

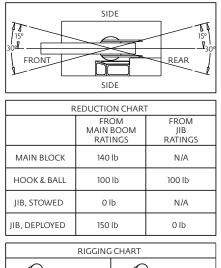
* LIMIT RATINGS TO 11,800 LB WHEN 3RD SECTION IS EXTENDED ANY AMOUNT

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.





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.

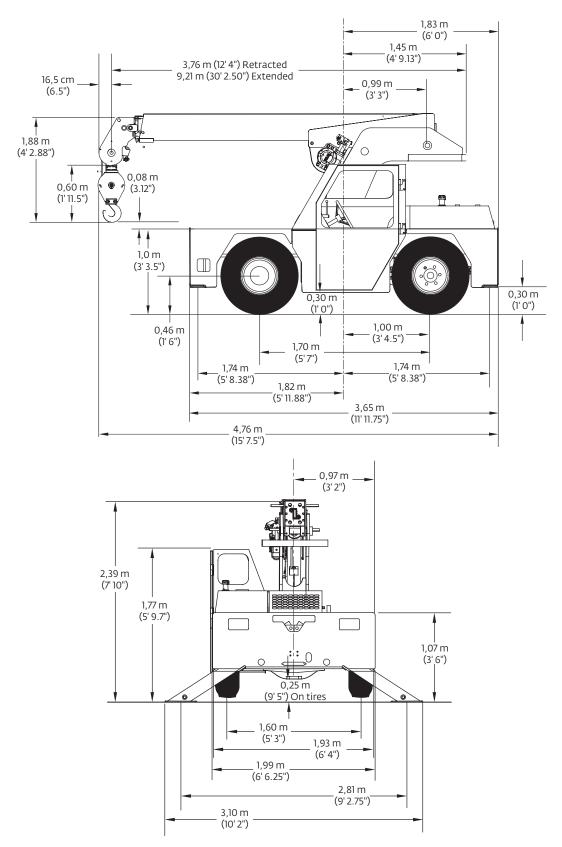
6) For operating radius not shown, use load rating of next larger radius.

7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.

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

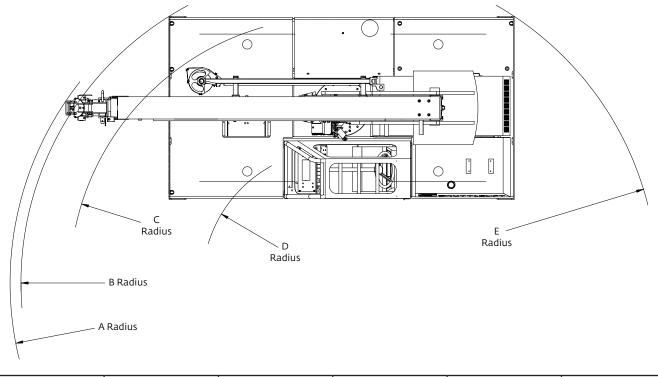
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Dimensions



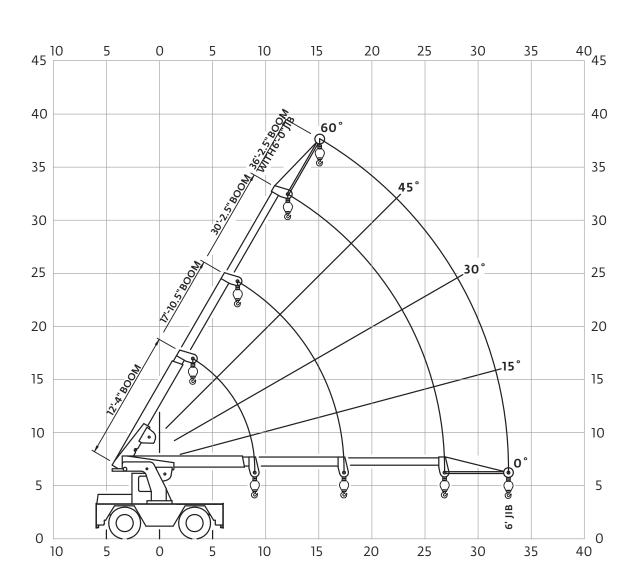
YB4409XL

Turning radius



YB4409XL

	А	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)

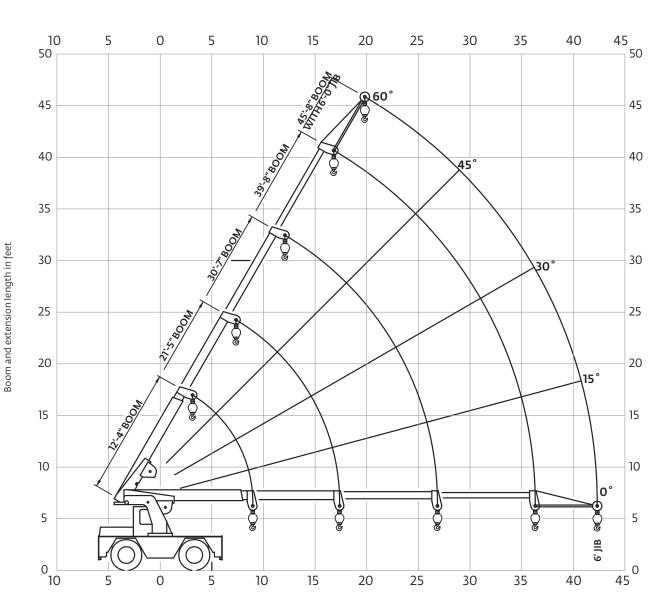


YB4409XL (Three-section boom)

Operating radius in feet from axis of rotation

Height from the ground in feet

Range diagram



Height from the ground in feet

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 RUBBER (Ib)			
(ft)	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		

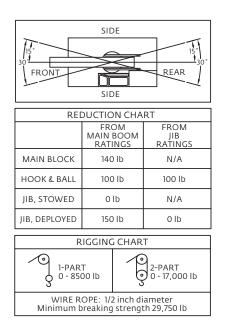
N		3-SECTI	ON MAIN BO	DOM W/6 F1	IJIB DEPL	3-SECTION MAIN BOOM W/6 FT JIB DEPLOYED									
	Radius	LOADED BOOM	ON OUTRI	ON RUBBER (Ib)											
	(ft)	ANGLE (deg)	F/R	360°	F/R	360°									
	16.4	60	3500	3500	2000	1300									
	18	57.5	3375	3375	1775	1150									
	20	53.5	3225	3150	1450	950									
	22	49	3075	2700	1225	800									
	24	44.5	2950	2350	1025	650									
	26	39.5	2850	2050	875	525									
	28	34	2625	1825	800	425									
	30	27	2400	1650	725	350									
	32	16.5	2175	1475	650	300									
	33.5	0	2000	1375	600	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.



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.

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Load chart

YB4409XL (Four-section boom)

		CTION M / 4TH RE					CTION M // 4TH EX		
	ON OUTRIC	GGERS (Ib)	ON RUB	BER (Ib)	Radius	ON OUTRIC	GERS (Ib)	ON RUB	BER (Ib)
(ft)	F/R	360°	° F/R 360°	360°	(ft)	F/R	360°	F/R	360°
5 6 8 10 12 14 16 18 20 22 22 24	17000 15700 12400 10200 8500 7100 6000 5200 4450 3800 3300	17000 14400 10800 8500 6950 5800 4650 3800 3150 2700 2350	10000 9500 8000 5400 3800 2750 2150 1800 1500 1300 1100	10000 8200 5600 3800 2700 1950 1450 1150 950 775 600 450	5 6 8 10 12 14 16 18 20 22 24	- 4900 4300 3800 3400 3100 2900 2900 2900 2900 2900	- 4900 4300 3800 3400 3100 2900 2900 2900 2900 2900 2900	4900 4300 3800 3400 2900 2400 1950 1600 1350	- 4900 4250 3300 2600 2100 1700 1350 1050 850 700
26 27	2900 2750	2050 1925	900 825	450 375	26 27	2900 2900	2300 2150	1100 1000	700 650
					28 30 32 33.5 36	2750 2450 2200 1975 1775	2000 1800 1600 1400 1250	925 800 700 625 550	600 500 400 325 250

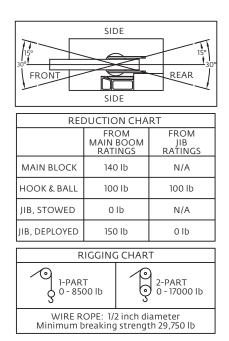
NOTES:

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

SHADED AREAS ARE GOVERNED BY STRUC-TURAL STRENGTH. DO NOT RELY ON TIPPING.

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

		SECTION						SECTION M			
Radius	LOADED BOOM	ON OUTRI	GGERS (Ib)	ON RUE	BER (Ib)	Radius	LOADED BOOM	ON OUTRIC	GGERS (Ib)	ON RUBE	BER (Ib)
(ft)	ANGLE (deg)	F/R	360°	F/R	360°	(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 1800 1500 1300 1100 925 800 725 650 600	1300 1150 950 800 650 525 425 350 300 250	22 24 26 28 30 32 33.5 36 38 40	60 57 54 50.5 47 43 40 34.5 29 22.5	2900 2900 2750 2450 2200 1975 1775 1650 1550	2900 2650 2300 1800 1600 1400 1250 1150 1075	1600 1350 1100 925 800 700 625 550 500 450	1050 850 700 600 500 400 325 250 200 150
						42 43	11.5 0	1450 1400	1000 950	400 375	125 100



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.

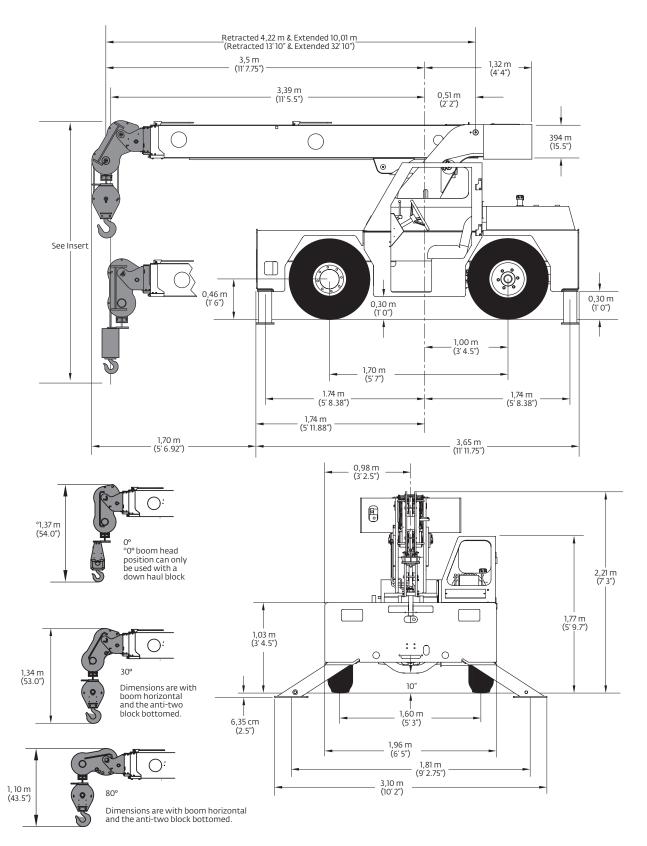
6) For operating radius not shown, use load rating of next larger radius.

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.

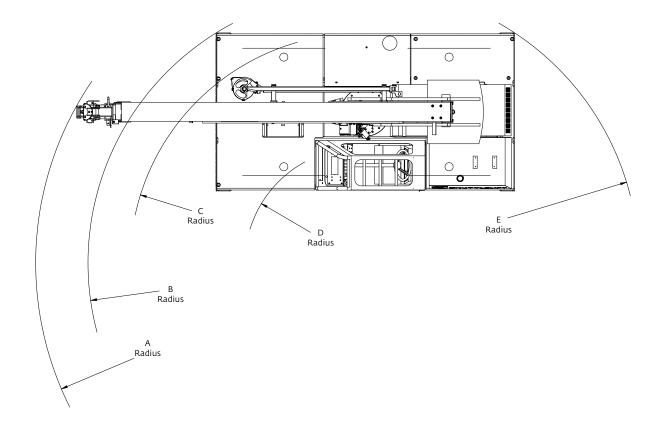
Dimensions

YB4409-2



Turning radius

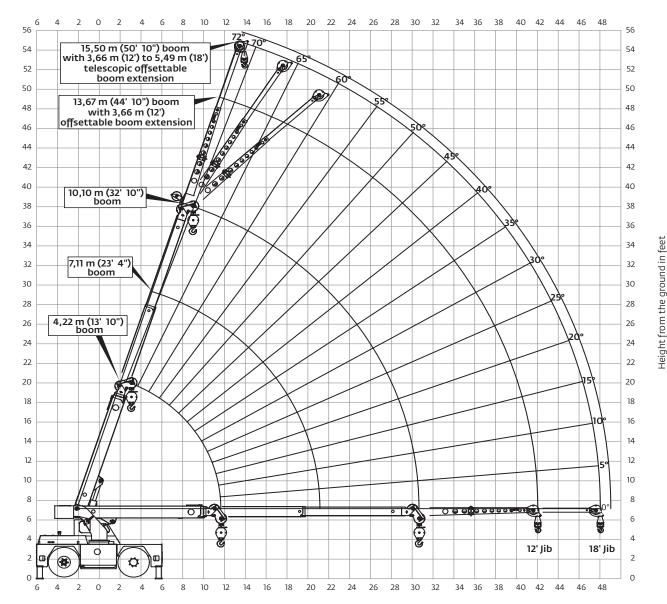
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	A	В	С	D	E
Two-wheel steer	4674 mm	4737 mm	4636 mm	2718 mm	5525 mm
	(14 ft 4 in)	(15 ft 6.5 in)	(15 ft 2.5 in)	(8 ft 11 in)	(18 ft 1.5 in)
Four-wheel steer	4267 mm	3645 mm	3188 mm	1473 mm	3569 mm
	(14 ft 0 in)	(11 ft 9.5 in)	(10 ft 5.5 in)	(4 ft 10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

Range diagram

YB4409-2



Operating radius in feet from axis of rotation

			ON OUTR	IGGERS (Ib)		ON RUI	BBER(Ib)
	RADIUS (ft)	F,	/R	30	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
	12.0	8400	8400	7600	7600	3920	2590
IX	14.0	-	7200	-	6500	3040	1970
<u> </u>	16.0	-	6200	-	5310	2420	1560
MAIN BOOM	18.0 20.0	-	5400 4830	-	4340 3610	1970 1640	1250 1020
È È	20.0	-	4000	-	3030	1370	850
-	22.0	-	3480	-	2590	1370	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
	36.0	-	1770	-	1350	430	180
	38.0	-	1590	-	1200	350	130
E E	40.0	-	1420	-	1050	280	80
=	42.0	-	1270	-	930	210	60
	44.0	-	1200	-	880	190	40
	46.0	-	1160	-	820	170	20
	48.0	-	1110	-	760	140	0

YB4409-2

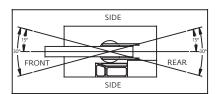
MAIN		JIB STRUCTURAL CAPACITIES (Ib)									
BOOM ANGLE		12 ft JII	3	18 ft JIB							
(deg)	0° 15° OFFSET OFFSET		30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET					
72	7500	5100	3500	4000	3300	2300					
70 65	7000 5700	4800	3400 3100	3750 3200	3100 2700	2200 2000					
60	4500	4100 3500	2800	2800	2700	1850					
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 30	1775	1675	1600 1400	1525 1400	1450	1350 1300					
25	1600 1450	1500 1400	1400	1275	1300 1200	1300					
20	1350	1350	-	1175	1125	-					
15	1300	1300	-	1100	1100	-					
10	1275	-	-	1050	-	-					
5	1225	-	-	1025	-	-					
0	1200	-	-	1000	-	-					

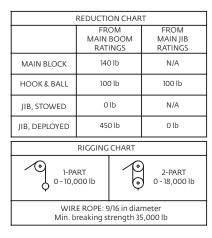
NOTES:

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.





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.

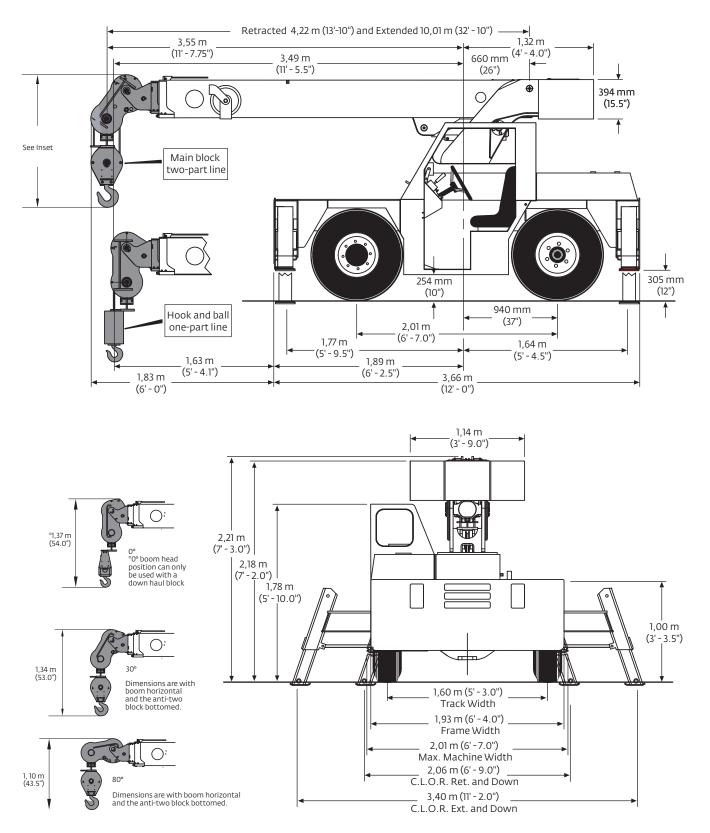
7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.

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

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Dimensions

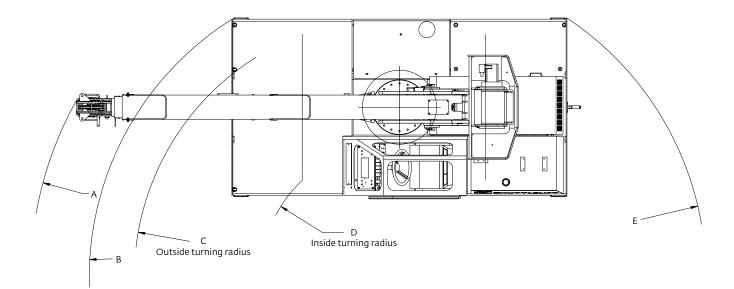
YB4411



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.

Turning radius

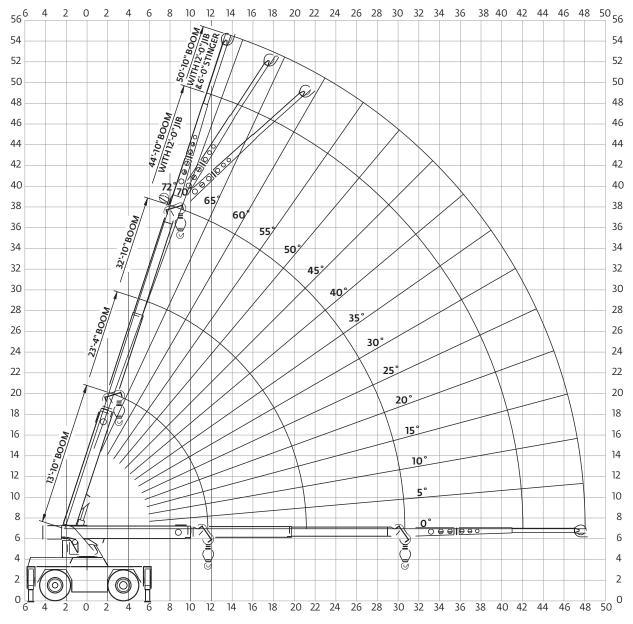
YB4411



	А	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

YB4411



Operating radius in feet from axis of rotation

Height from the ground in feet

Load chart

			ONOUTRIC	ONRUE	BER (Ib)	ΙΓ		
	RADIUS (ft)		EXTENDED 360° RETRACTED F/R		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	IΓ
	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	
Σ	12.0	8400	8400	4550	4550	3850	2875	
8	14.0	-	7100	-	3425	3000	2250	
I BU	16.0	-	6000	-	2775	2400	1800	
MAINBOOM	18.0	-	5000	-	2300	1975	1475	
È È	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	ΙL
	36.0	-	1775	-	550	500	275	
	38.0	-	1575	-	450	400	200	
E	40.0	-	1425	-	350	300	125	
=	42.0	-	1300	-	250	200	-	
	44.0	-	1200	-	200	150	-	
	46.0	-	1100	-	175	-	-	
	48.0	-	1000	-	150	-	-	

YB4411

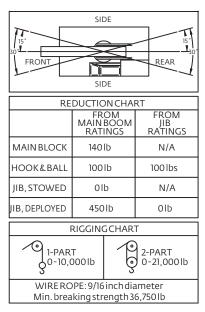
	JIB STRUCTURAL CAPACITIES (Ib)								
MAIN BOOM ANGLE		12 ft JIB		18ftJIB					
(deg)	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET			
72	7500	5100	3500	4000	3300	2300			
70	7000	4800	3400	3750	3100	2200			
65	5700	4100	3100	3200	2700	2000			
60	4500	3500	2800	2800	2400	1850			
55	3500	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.



 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.

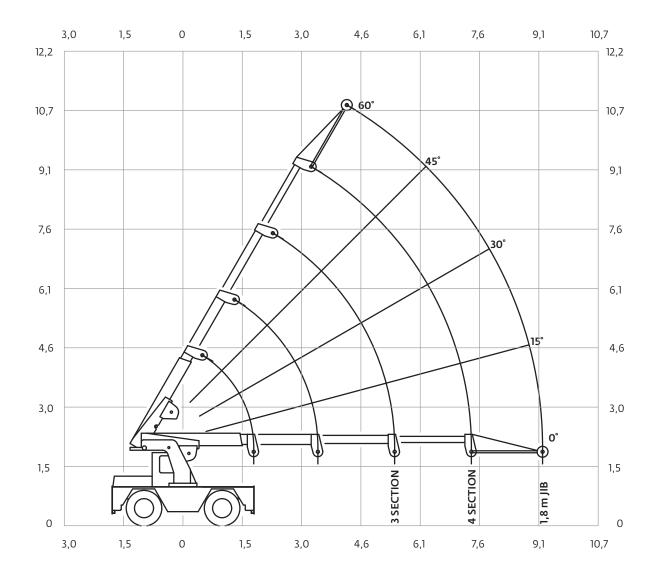
7) The maximum combined total boom and deck load is 12,000 lb. The maximum deck load only is 14,000 lb.

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

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DIN/ISO range diagram

YB4409



Operating radius in meters from axis of rotation

Height from the ground in meters

DIN/ISO load chart

YB4409

D A DILLO	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					DADULC	4-SEC	TION BOOM V	WITH 4TH EXTENDED		
RADIUS (m)	ON OUTRI	GGERS (kg)	ON RUE	BER (kg)		RADIUS (m)	ON OUTRI	GGERS (kg)	ON RUBBER (kg)		
Ī	F/R	360°	F/R	360°	1		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	Σ	2,4	2400	2400	2400	2380	
3,0	4630	3900	2080	1300	8	3,0	2130	2130	2130	1560	
3,7	3860	3000	1520	950	6 6 1	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	∣≥	4,9	2000	2000	1010	650	
5,5	2100	1470	770	460		5,5	2000	1720	820	510	
6,1	1220	1220	670	400	K –	6,1	1800	1310	690	420	
6,7	1180	1120	590	340	$ \rangle$	6,7	1540	1110	590	340	
7,5	1000	930	480	260	$ \rangle$	7,5	1290	940	500	270	
7,9	-	-	-	-		7,9	1190	870	460	250	
8,5	-	-	-	-		8,5	1080	780	410	210	
9,1	-	-	-	-	<u>۳</u>	9,1	970	690	350	170	
9,4	-	-	-	-		9,4	920	660	330	150	

JIB STRUCTURAL CAPACITIES (kg) MAIN воом 3-SECTION BOOM OR 4-SECTION BOOM ANGLE 4-SECTION BOOM WITH 4TH RETRACTED WITH 4TH EXTENDED (deg) 60 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

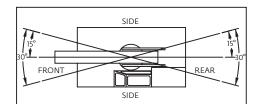
*LIMIT RATINGS TO 5350 kg WHEN 3RD SECTION IS EXTENDED ANY AMOUNT.

NOTES:

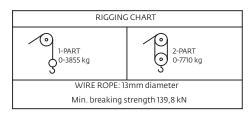
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.

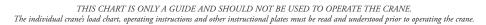
5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

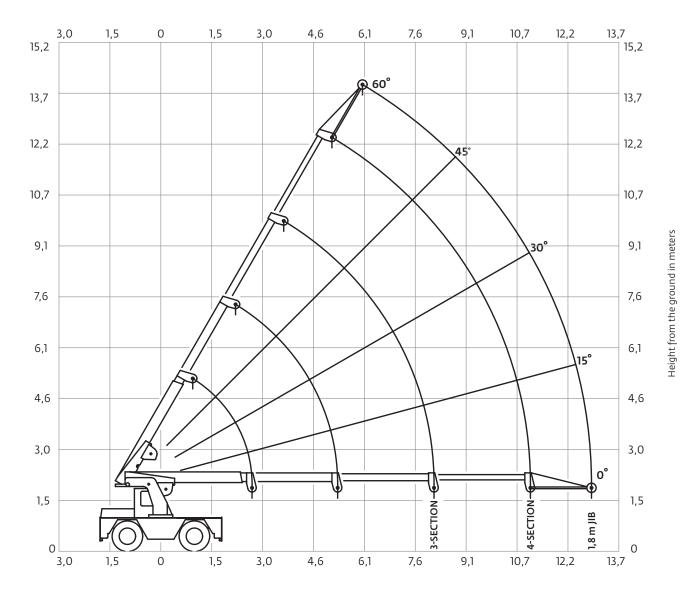
7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.

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

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YB4409XL



Operating radius in meters from axis of rotation

DIN/ISO load chart

RADIUS	4-SECTIO	3-SECTION ON BOOM W		RACTED		RADIUS		ON BOOM W	VITH 4TH EX	TENDED
(m)	ON OUTRIGGERS (kg)		ON RUBBER (kg)			(m)	ON OUTRIGGERS (kg)		ON RUBBER (kg)	
	F/R	360°	F/R	360°	1		F/R	360°	F/R	360°
1,5	7710	7710	4535	4535		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	Σ	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	ĕ	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	Σ	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	N	8,5	1120	800	370	220
9,1	970	650	280	110		9,1	990	710	310	180
9,8	880	580	240	90		9,8	890	630	270	130
10,2	800	530	220	60	\	10,2	790	540	230	100
11,0	-	-	-	-	\	11,0	700	480	200	60
11,6	-	-	-	-		11,6	650	440	180	40
12,2	-	-	-	-	<u>۱</u>	12,2	610	410	150	20
12,8	-	-	-	-		12,8	570	370	130	10
13,1	-	-	-	-		13,1	540	350	120	0

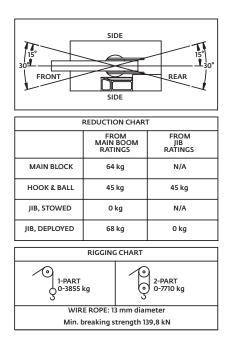
MAIN	JIB STRUCTURAL CAPACITIES (kg)							
BOOM ANGLE (deg)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED						
60	1590	1540						
55	1510	1405						
50	1430	1295						
45	1360	1180						
40	1305	1100						
35	1270	1045						
30	1225	1000						
25	1180	975						
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.



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.

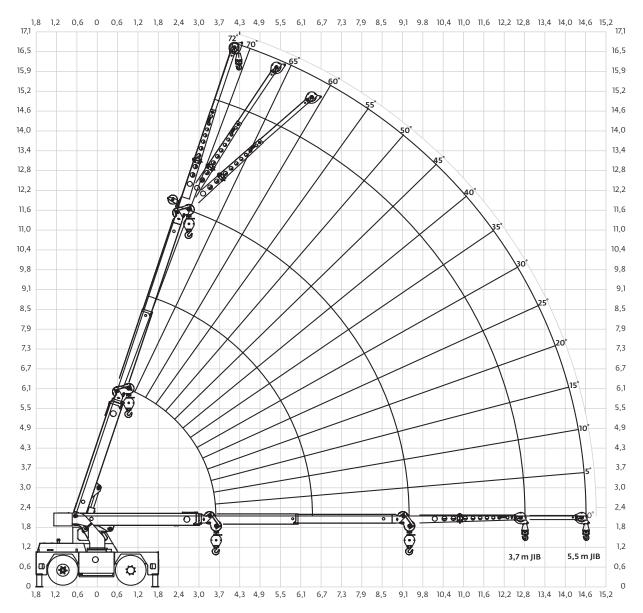
7) The maximum combined total boom and deck load is 5443 kg. The maximum deck load only is 6350 kg.

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

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DIN/ISO range diagram

YB4409-2



Operating radius in meters from axis of rotation

Height from the ground in meters

DIN/ISO load chart

		RADIUS F/		ON OUTRI	GGERS (kg)		ON RUB	BER (kg)		
				F/R		i0°	F/R	360 [°]	MAIN BOOM ANGLE	
			BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM	(deg)	0 [°] OFFSET
Γ		1,5	8160	6670	8160	6670	5220	4260	72	3400
		1,8	7120	6530	6800	6530	4540	3360	70	3180
		2,4	5530	5530	5170	5170	3670	2240	65	2590
		3,0	4630	4630	4130	4130	2440	1550	60	2040
	Σ	3,7	3810	3810	3450	3450	1730	1130	55	1590
	8	4,3	-	3270	-	2800	1330	840	50	1270
	A B	4,9	-	2810	-	2220	1050	660	45	1040
	MAIN BOOM	5,5	-	2450	-	1800	850	520	40	910
	Σ	6,1	-	2010	-	1490	700	420	35	810
		6,7	-	1670	-	1250	570	340	30	730
		7,3	-	1430	-	1060	480	280	25	660
		7,9	-	1240	-	910	400	220	20	610
		8,5	-	1090	-	810	330	170	15	590
		9,4	-	920	-	690	250	120	10	580
ſ		10,4	-	780	-	590	180	70	5	560
		11,0	-	710	-	530	150	40	0	540
		11,6	-	630	-	460	110	10		
	~	12,2	-	560	-	400	80	0		
	JIB	12,8	-	490	-	350	50	0		
		13,4	-	460	-	320	40	0		
		14,0	-	440	-	300	30	0		
		14,6	-	430	-	270	20	0		

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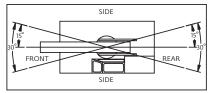
JIB STRUCTURAL CAPACITIES (kg) 3,7 m JIB 5,5 m JIB 15[°] 30[°] o° 15[°] 30[°] OFFSET OFFSET OFFSE OFFSET OFFSET 1040 2310 1500 1540 2180 1700 1410 1000 1860 1410 1450 1220 910 1270 1270 1590 1090 840 1360 1160 1110 980 770 1130 1040 980 880 730 1000 910 860 790 680 860 820 770 730 640 760 730 690 660 610 680 640 640 590 590 640 580 540 610 530 510 590 500 500 480 _ 460 _ 450

NOTES:

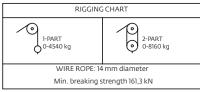
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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					



 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.

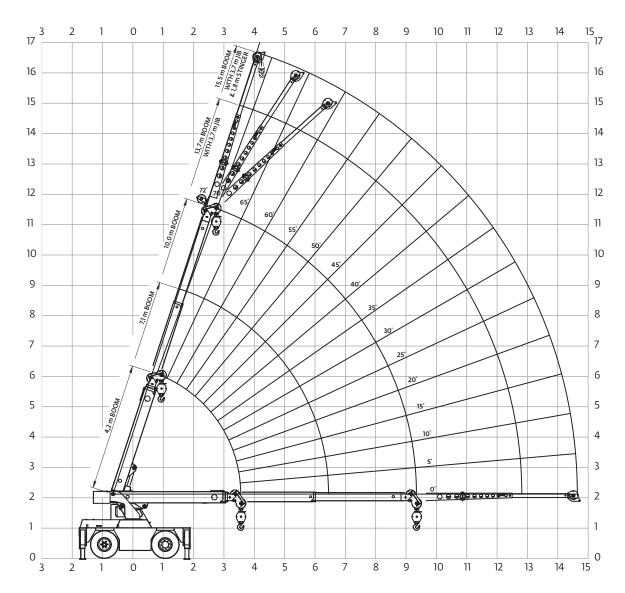
8) Do not induce any external side loads to boom or jib.

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

DIN/ISO range diagram

YB4411



Operating radius in meters from axis of rotation

Height from the ground in meters

DIN/ISO load chart

			ON OUTRI	GGERS (kg)		ON RUB	BER (kg)	
	RADIUS (m)	EXTEND RETRAC		RETRAC	TED 360°	F/R	360°	M BC
		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	
Σ	3,7	3810	3810	2090	2090	2040	1310	
8	4,3	-	3220	-	1570	1590	1040	.
B	4,9	-	2720	-	1270	1270	820	
MAIN BOOM	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	11
	8,5	-	1060	-	440	480	270	11
	9,4	-	930	-	380	360	180	11
	10,4	-	790	-	310	270	110	
	11,0	-	710	-	270	230	80	
	11,6	-	620	-	220	180	40	1
	12,2	-	560	-	180	150	10	1
JIB	12,8	-	510	-	130	110	0	1
	13,4	-	460	-	110	90	0	
	14,0	-	420	-	90	80	0	1
	14,6	-	380	-	80	70	0	

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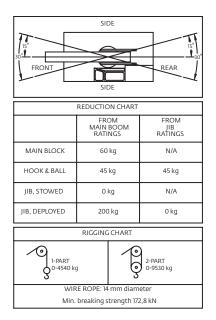
	JIB STRUCTURAL CAPACITIES (kg)								
MAIN BOOM ANGLE		3,7 m JIB		5,5 m JIB					
(deg)	0 [°] OFFSET	15 [°] OFFSET	30 [°] OFFSET	0 [°] OFFSET	15 [°] OFFSET	30° OFFSET			
72	3400	2310	1590	1810	1500	1040			
70	3180	2180	1540	1700	1410	1000			
65	2590	1860	1410	1450	1220	910			
60	2040	1590	1270	1270	1090	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.



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.

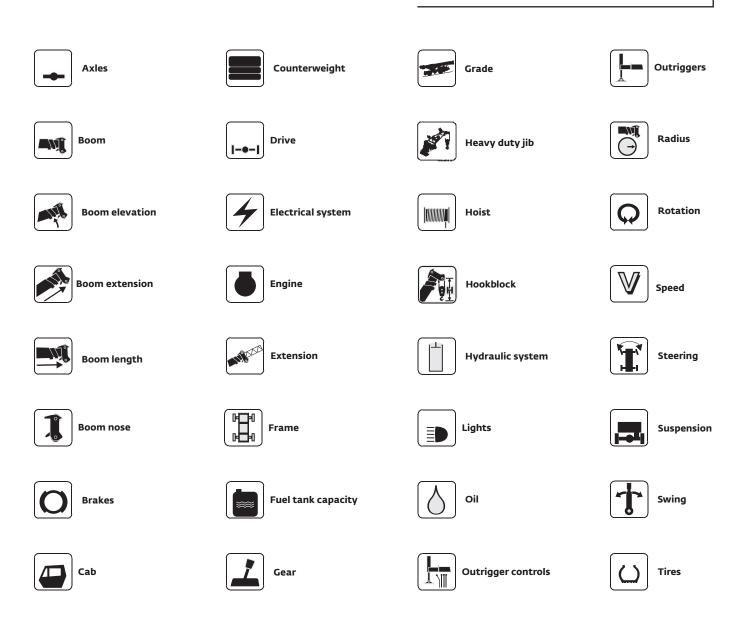
8) Do not induce any external side loads to boom or jib.

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Symbols glossary





Transmission

Notes

Notes



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