Grove YB4400 Series
Product Guide

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)

• 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.

**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)

**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.
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. |

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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 input to set the limits based on load chart. Displays color coded light bar and audible alarm with function cutout if load exceeds entered parameters. (hardwired system)

Swing

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.

*Denotes optional equipment*
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
- **YB4411:** 387 psi
- **YB4409-2:** 135 psi

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**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.

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*Denotes optional equipment*
Specifications

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

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

Steer
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 - four-speeds 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 with disc brakes.

Tires
10.00 x 15 pneumatic

Brakes
Hydraulic actuated internal wet-disc service brakes acting on all four wheels. A dash mounted toggle switch activates the dry disc parking brake on the transmission output yoke with a dash warning light.

Suspension
Front: Rigid mounted to frame.
Rear: 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: 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

*Denotes optional equipment
Turning radius

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.
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.
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL NOTES:

* LIMIT RATINGS TO /one.pnum_lnum/one.pnum_lnum,/eight.pnum_lnum/zero.pnum_lnum/zero.pnum_lnum LB WHEN /three.pnum_lnum/zero.pnum_lnum/RD SECTION IS EXTENDED ANY AMOUNT.

10 JIB, DEPLOYED /three.pnum_lnum/zero.pnum_lnum° /three.pnum_lnum/zero.pnum_lnum./zero.pnum_lnum /three.pnum_lnum/one.pnum_lnum./zero.pnum_lnum

* WIRE ROPE: /one.pnum_lnum//two.pnum_lnum inch diameter

JIB, STOWED MAIN BLOCK /two.pnum_lnum/zero.pnum_lnum./zero.pnum_lnum /two.pnum_lnum/eight.pnum_lnum./zero.pnum_lnum /one.pnum_lnum/zero.pnum_lnum./zero.pnum_lnum/one.pnum_lnum/zero.pnum_lnum,/two.pnum_lnum/zero.pnum_lnum/zero.pnum_lnum

RIGGING CHART

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.

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.

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**JIB STRUCTURAL CAPACITIES (lb)**

**RIGGING CHART**

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1301286YB

**RIGGING CHART**

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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.

1301286YB
Dimensions

**YB4409XL**

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### Turning radius

**YB4409XL**

<table>
<thead>
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<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
<tr>
<td><strong>Two-wheel steer</strong></td>
<td>5131 mm</td>
<td>4737 mm</td>
<td>4636 mm</td>
<td>2718 mm</td>
<td>5525 mm</td>
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<tr>
<td>(16 ft 10 in)</td>
<td>(15 ft 6.5 in)</td>
<td>(15 ft 2.5 in)</td>
<td>(8 ft 11 in)</td>
<td>(18 ft 1.5 in)</td>
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<tr>
<td><strong>Four-wheel steer</strong></td>
<td>3683 mm</td>
<td>3645 mm</td>
<td>3188 mm</td>
<td>1473 mm</td>
<td>3569 mm</td>
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<tr>
<td>(12 ft 1 in)</td>
<td>(11 ft 9.5 in)</td>
<td>(10 ft 5.5 in)</td>
<td>(4 ft 10 in)</td>
<td>(11 ft 8.5 in)</td>
<td></td>
</tr>
</tbody>
</table>

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**YB4409XL**

(Three-section boom)

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>3-SECTION MAIN BOOM ON OUTRIGGERS (lb)</th>
<th>3-SECTION MAIN BOOM ON RUBBER (lb)</th>
<th>3-SECTION MAIN BOOM W/6 FT JIB Deployed LOADED BOOM ANGLE (deg)</th>
<th>ON OUTRIGGERS (lb)</th>
<th>ON RUBBER (lb)</th>
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<tr>
<td></td>
<td>F/R 360°</td>
<td>F/R 360°</td>
<td>F/R 360°</td>
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<tr>
<td>5</td>
<td>17,000 17,000</td>
<td>10,000 10,000</td>
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<tr>
<td>6</td>
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<td>8</td>
<td>12,400 10,800</td>
<td>7,25 5,125</td>
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<td>53.5</td>
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<td>10</td>
<td>10,200 8,500</td>
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<td>3075</td>
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<td>44.5</td>
<td>2950</td>
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<tr>
<td>14</td>
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<td>2,750 1,925</td>
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<td>39.5</td>
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<tr>
<td>16</td>
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<td>34</td>
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<td>18</td>
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<td>26</td>
<td>2,900 2,050</td>
<td>875 525</td>
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<tr>
<td>27</td>
<td>2,750 1,925</td>
<td>850 475</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 condition, capacity 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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**RIGGING CHART**

- **1-PART**
  - 0 - 8500 lb
- **2-PART**
  - 0 - 17,000 lb

WIRE ROPE: 1/2 inch diameter
Minimum breaking strength 29,750 lb

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## Load Chart

### YB4409XL

(Four-section boom)

#### 4-SECTION MAIN BOOM W/ 4TH RETRACTED

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>4-SECTION MAIN BOOM W/ 4TH RETRACTED</th>
<th>ON OUTRIGGERS (lb)</th>
<th>ON RUBBER (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>F/R</strong></td>
<td><strong>360°</strong></td>
<td><strong>F/R</strong></td>
</tr>
<tr>
<td>5</td>
<td>17000</td>
<td>17000</td>
<td>10000</td>
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<tr>
<td>6</td>
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</tr>
<tr>
<td>27</td>
<td>2750</td>
<td>1925</td>
<td>825</td>
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</table>

#### 4-SECTION MAIN BOOM W/ 4TH EXTENDED

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>4-SECTION MAIN BOOM W/ 4TH EXTENDED</th>
<th>ON OUTRIGGERS (lb)</th>
<th>ON RUBBER (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>F/R</strong></td>
<td><strong>360°</strong></td>
<td><strong>F/R</strong></td>
</tr>
<tr>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>-</td>
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<td>8</td>
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<td>10</td>
<td>4300</td>
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<td>32</td>
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<td>700</td>
</tr>
<tr>
<td>33.5</td>
<td>1975</td>
<td>1400</td>
<td>625</td>
</tr>
<tr>
<td>36</td>
<td>1775</td>
<td>1250</td>
<td>550</td>
</tr>
</tbody>
</table>

#### RATINGS

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 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 outrigger 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.

### 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 is in excess of rating charts and disregard of instructions is dangerous and voids warranty.

---

**Reduction Chart**

<table>
<thead>
<tr>
<th>FROM MAIN BOOM RATING</th>
<th>FROM JIB RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN BLOCK</td>
<td>140 lb</td>
</tr>
<tr>
<td>HOOK &amp; BALL</td>
<td>100 lb</td>
</tr>
<tr>
<td>JIB, STOWED</td>
<td>0 lb</td>
</tr>
<tr>
<td>JIB, DEPLOYED</td>
<td>150 lb</td>
</tr>
</tbody>
</table>

**Rigging Chart**

Wire Rope: 1/2 inch diameter

Minimum breaking strength 29,750 lb

---

This chart is only a guide and should not be used to operate the crane.

The individual crane load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

80017732
Dimensions

YB4409-2

Retracted 4.22 m & Extended 10.01 m
(Retracted 13' 10" & Extended 32' 10")

See Insert

Dimensions are with boom horizontal and the anti-two block bottomed.

Dimensions are with boom horizontal and the anti-two block bottomed.

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

YB4409-2

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Two-wheel steer</strong></td>
<td>4674 mm (14 ft 4 in)</td>
<td>4737 mm (15 ft 6.5 in)</td>
<td>4636 mm (15 ft 2.5 in)</td>
<td>2718 mm (8 ft 11 in)</td>
<td>5525 mm (18 ft 1.5 in)</td>
</tr>
<tr>
<td><strong>Four-wheel steer</strong></td>
<td>4267 mm (14 ft 0 in)</td>
<td>3645 mm (11 ft 9.5 in)</td>
<td>3188 mm (10 ft 5.5 in)</td>
<td>1473 mm (4 ft 10 in)</td>
<td>3569 mm (11 ft 8.5 in)</td>
</tr>
</tbody>
</table>

*This chart is only a guide and should not be used to operate the crane. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.*
Range diagram

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.
### Load Chart

#### YB4409-2

<table>
<thead>
<tr>
<th>MAIN BOOM</th>
<th>RADIUS (ft)</th>
<th>ON OUTRIGGERS (lb)</th>
<th>ON RUBBER (lb)</th>
<th>F/R</th>
<th>360°</th>
<th>F/R</th>
<th>360°</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>18,000</td>
<td>14,700</td>
<td>18,000</td>
<td>14,700</td>
<td>11,500</td>
<td>9,400</td>
<td></td>
</tr>
<tr>
<td>5.4</td>
<td>15,700</td>
<td>14,400</td>
<td>15,000</td>
<td>14,400</td>
<td>10,000</td>
<td>7,500</td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td>12,200</td>
<td>12,200</td>
<td>11,400</td>
<td>11,400</td>
<td>8,100</td>
<td>5,040</td>
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<td>10.0</td>
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<td>8,500</td>
<td>5,800</td>
<td>3,530</td>
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</tr>
<tr>
<td>12.0</td>
<td>8,400</td>
<td>7,600</td>
<td>7,600</td>
<td>7,320</td>
<td>4,790</td>
<td>2,790</td>
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<tr>
<td>14.0</td>
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<td>-6500</td>
<td>10,000</td>
<td>9,320</td>
<td>5,790</td>
<td>3,530</td>
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<td>19,700</td>
<td>17,250</td>
<td>11,000</td>
<td>7,700</td>
<td></td>
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<tr>
<td>20.0</td>
<td>-4,500</td>
<td>-3,610</td>
<td>16,400</td>
<td>12,020</td>
<td>7,900</td>
<td>5,300</td>
<td></td>
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<tr>
<td>22.0</td>
<td>-4,000</td>
<td>-3,010</td>
<td>11,700</td>
<td>8,500</td>
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<td>-2,590</td>
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<td>4,900</td>
<td>3,400</td>
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<td>-2,250</td>
<td>9,900</td>
<td>5,900</td>
<td>3,900</td>
<td>2,900</td>
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<tr>
<td>28.0</td>
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<td>-2,010</td>
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<td>4,900</td>
<td>3,400</td>
<td>2,400</td>
<td></td>
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<td>2,600</td>
<td>1,800</td>
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</tr>
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</table>

#### JIB STRUCTURAL CAPACITIES (lb)

<table>
<thead>
<tr>
<th>JIB</th>
<th>12 ft JIB</th>
<th>18 ft JIB</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>7500</td>
<td>5100</td>
</tr>
<tr>
<td>15°</td>
<td>5700</td>
<td>3400</td>
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<tr>
<td>30°</td>
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<td>3300</td>
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<td>45°</td>
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<td>60°</td>
<td>3200</td>
<td>1600</td>
</tr>
<tr>
<td>75°</td>
<td>2500</td>
<td>1250</td>
</tr>
<tr>
<td>90°</td>
<td>2000</td>
<td>1000</td>
</tr>
</tbody>
</table>

#### SHADIED 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.

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

#### RIGGING CHART

<table>
<thead>
<tr>
<th>1 PART</th>
<th>0 - 10,000 lb</th>
<th>2 PART</th>
<th>0 - 18,000 lb</th>
</tr>
</thead>
</table>

#### WIRE ROPE: 9/16 in diameter
Min. breaking strength 35,000 lb

---

**NOTES:**

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

SHADIED 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.

---

**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.
Dimensions

YE4411

Dimensions are with boom horizontal and the anti-two block bottomed.

Dimensions are with boom horizontal and the anti-two block bottomed.

Dimensions are with boom horizontal and the anti-two block bottomed.

Dimensions are with boom horizontal and the anti-two block bottomed.

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

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-wheel steer</td>
<td>4759 mm (15 ft 7.4 in)</td>
<td>4482 mm (14 ft 8.4 in)</td>
<td>4080 mm (13 ft 4.6 in)</td>
<td>2556 mm (8 ft 4.6 in)</td>
<td>4522 mm (14 ft 10.0 in)</td>
</tr>
<tr>
<td>Four-wheel steer</td>
<td>3990 mm (13 ft 1.1 in)</td>
<td>3346 mm (10 ft 11.7 in)</td>
<td>2853 mm (9 ft 4.3 in)</td>
<td>1470 mm (4 ft 9.9 in)</td>
<td>3416 mm (11 ft 2.5 in)</td>
</tr>
</tbody>
</table>

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.
YB4411

Range diagram

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.
### Load chart

**YB4411**

<table>
<thead>
<tr>
<th>MAIN BOOM ANGLE (deg)</th>
<th>12 ft JIB</th>
<th>18 ft JIB</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° OFFSET</td>
<td>72</td>
<td>70</td>
</tr>
<tr>
<td>15° OFFSET</td>
<td>65</td>
<td>60</td>
</tr>
<tr>
<td>30° OFFSET</td>
<td>55</td>
<td>50</td>
</tr>
<tr>
<td>0° OFFSET</td>
<td>45</td>
<td>40</td>
</tr>
<tr>
<td>15° OFFSET</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td>30° OFFSET</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>0° OFFSET</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>15° OFFSET</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>30° OFFSET</td>
<td>15</td>
<td>10</td>
</tr>
</tbody>
</table>

### JIB STRUCTURAL CAPACITIES (lb)

<table>
<thead>
<tr>
<th>RADIUS (ft)</th>
<th>ON OUTRIGGERS (lb)</th>
<th>ON RUBBER (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXTENDED 360° RETRACTED</td>
<td>F/R</td>
</tr>
<tr>
<td></td>
<td>BOOM RETRACTED</td>
<td>BOOM EXTENDED</td>
</tr>
<tr>
<td>34.0</td>
<td>1,975</td>
<td>-</td>
</tr>
<tr>
<td>36.0</td>
<td>1,775</td>
<td>-</td>
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<tr>
<td>38.0</td>
<td>1,575</td>
<td>-</td>
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<tr>
<td>40.0</td>
<td>1,425</td>
<td>-</td>
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<tr>
<td>42.0</td>
<td>1,300</td>
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<tr>
<td>44.0</td>
<td>1,200</td>
<td>-</td>
</tr>
<tr>
<td>46.0</td>
<td>1,100</td>
<td>-</td>
</tr>
<tr>
<td>48.0</td>
<td>1,000</td>
<td>-</td>
</tr>
</tbody>
</table>

**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, 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.

---

**REDUCTION CHART**

- **MAIN BLOCK** 140lb N/A
- **HOOK & BALL** 100lb 100lbs
- **JIB, STOWED** 0lb N/A
- **JIB, DEPLOYED** 450lb 0lb

**RIGGING CHART**

1. **1-PART (0-10,000 lb)**
2. **2-PART (0-21,000 lb)**

**WIRE ROPE: 9/6 inch diameter**

Min. breaking strength 36,750lb

---

**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

YB4409

Operating radius in meters from axis of rotation

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

### Table: YB4409

<table>
<thead>
<tr>
<th>Radius (m)</th>
<th>3-Section Boom or 4-Section Boom with 4th Retracted</th>
<th>4-Section Boom with 4th Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ON OUTRIGGERS (kg)</td>
<td>ON RUBBER (kg)</td>
</tr>
<tr>
<td>1.5</td>
<td>2770</td>
<td>2770</td>
</tr>
<tr>
<td>1.8</td>
<td>2770</td>
<td>2770</td>
</tr>
<tr>
<td>2.4</td>
<td>2770</td>
<td>2770</td>
</tr>
</tbody>
</table>

### Notes:

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.

**Legend:**

- **F/R:** Front/Rear
- **SIDE:** Side
- **REDUCTION CHART:**
  - FROM MAIN BLOCK RATINGS: 64 kg
  - FROM JIB RATINGS: N/A
- **MAIN BLOCK:** 64 kg
- **HOOK & BALL:** 45 kg
- **JIB, STOWED:** 0 kg
- **JIB, DEPLOYED:** 68 kg
- **WIRE ROPE:** 10mm diameter
  - Min. breaking strength: 139,8 kN

**Main Boom Angle (deg):**

<table>
<thead>
<tr>
<th>Radius (m)</th>
<th>3-Section Boom or 4-Section Boom with 4th Retracted</th>
<th>4-Section Boom with 4th Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ON OUTRIGGERS (kg)</td>
<td>ON RUBBER (kg)</td>
</tr>
<tr>
<td>26°</td>
<td>1590</td>
<td>1590</td>
</tr>
<tr>
<td>55°</td>
<td>1510</td>
<td>1510</td>
</tr>
<tr>
<td>75°</td>
<td>1430</td>
<td>1430</td>
</tr>
<tr>
<td>105°</td>
<td>1350</td>
<td>1350</td>
</tr>
<tr>
<td>125°</td>
<td>1270</td>
<td>1270</td>
</tr>
<tr>
<td>135°</td>
<td>1235</td>
<td>1235</td>
</tr>
<tr>
<td>145°</td>
<td>1180</td>
<td>1180</td>
</tr>
<tr>
<td>155°</td>
<td>1135</td>
<td>1135</td>
</tr>
<tr>
<td>165°</td>
<td>1090</td>
<td>1090</td>
</tr>
<tr>
<td>175°</td>
<td>1055</td>
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<tr>
<td>185°</td>
<td>1020</td>
<td>1020</td>
</tr>
<tr>
<td>195°</td>
<td>1000</td>
<td>998</td>
</tr>
</tbody>
</table>

**Main Structural Capacities (kg):**

- **10:**
  - 1590
- **55:**
  - 1510
- **75:**
  - 1430
- **105:**
  - 1350
- **125:**
  - 1270
- **135:**
  - 1235
- **145:**
  - 1180
- **155:**
  - 1135
- **165:**
  - 1090
- **175:**
  - 1055
- **185:**
  - 1020
- **195:**
  - 1000

**Limit Ratings to:**

- **55 kg:** WHEN 3RD SECTION IS EXTENDED ANY AMOUNT.
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.
## YB4409XL

### 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.

---

### RADIUS (m) | 3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED
<table>
<thead>
<tr>
<th></th>
<th>ON OUTRIGGERS (kg)</th>
<th>ON RUBBER (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>7710</td>
<td>4590</td>
</tr>
<tr>
<td>1.8</td>
<td>7220</td>
<td>4310</td>
</tr>
<tr>
<td>2.4</td>
<td>5625</td>
<td>3510</td>
</tr>
<tr>
<td>2.4</td>
<td>4625</td>
<td>2490</td>
</tr>
<tr>
<td>2.4</td>
<td>3855</td>
<td>1670</td>
</tr>
<tr>
<td>4.3</td>
<td>3220</td>
<td>830</td>
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<tr>
<td>4.9</td>
<td>2720</td>
<td>610</td>
</tr>
<tr>
<td>5.5</td>
<td>2360</td>
<td>470</td>
</tr>
<tr>
<td>6.1</td>
<td>1850</td>
<td>380</td>
</tr>
<tr>
<td>6.7</td>
<td>1570</td>
<td>330</td>
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<tr>
<td>7.3</td>
<td>1360</td>
<td>240</td>
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<tr>
<td>7.9</td>
<td>1180</td>
<td>190</td>
</tr>
<tr>
<td>8.2</td>
<td>1130</td>
<td>130</td>
</tr>
</tbody>
</table>

### RADIUS (m) | 4-SECTION BOOM WITH 4TH EXTENDED
<table>
<thead>
<tr>
<th></th>
<th>ON OUTRIGGERS (kg)</th>
<th>ON RUBBER (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1.8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3.0</td>
<td>1950</td>
<td>1950</td>
</tr>
<tr>
<td>3.7</td>
<td>1725</td>
<td>1725</td>
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<tr>
<td>4.3</td>
<td>1540</td>
<td>1540</td>
</tr>
<tr>
<td>4.9</td>
<td>1405</td>
<td>1405</td>
</tr>
<tr>
<td>5.5</td>
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<td>1040</td>
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<tr>
<td>6.1</td>
<td>1315</td>
<td>830</td>
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<tr>
<td>6.7</td>
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<td>430</td>
</tr>
<tr>
<td>7.3</td>
<td>1315</td>
<td>340</td>
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<tr>
<td>7.9</td>
<td>1315</td>
<td>270</td>
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<td>8.2</td>
<td>1320</td>
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<tr>
<td>8.5</td>
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<td>220</td>
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<tr>
<td>9.1</td>
<td>990</td>
<td>110</td>
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<td>9.8</td>
<td>890</td>
<td>90</td>
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<tr>
<td>10.2</td>
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<td>11.0</td>
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<td>40</td>
</tr>
<tr>
<td>11.6</td>
<td>650</td>
<td>40</td>
</tr>
<tr>
<td>12.2</td>
<td>610</td>
<td>150</td>
</tr>
<tr>
<td>12.8</td>
<td>570</td>
<td>130</td>
</tr>
<tr>
<td>13.1</td>
<td>540</td>
<td>120</td>
</tr>
</tbody>
</table>

---

### 3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED

### MAIN BLOCK

<table>
<thead>
<tr>
<th>FROM MAIN BLOCK RATINGS</th>
<th>FROM RE RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN BLOCK</td>
<td>64 kg</td>
</tr>
<tr>
<td>HOOK &amp; BALL</td>
<td>45 kg</td>
</tr>
<tr>
<td>JIB, STOWED</td>
<td>0 kg</td>
</tr>
<tr>
<td>JIB, DEPLOYED</td>
<td>68 kg</td>
</tr>
</tbody>
</table>

### 4-SECTION BOOM WITH 4TH EXTENDED

### JIB STRUCTURAL CAPACITIES (kg)

<table>
<thead>
<tr>
<th>MAIN BOOM ANGLE (deg)</th>
<th>3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>1500</td>
</tr>
<tr>
<td>55</td>
<td>1510</td>
</tr>
<tr>
<td>50</td>
<td>1430</td>
</tr>
<tr>
<td>45</td>
<td>1360</td>
</tr>
<tr>
<td>40</td>
<td>1305</td>
</tr>
<tr>
<td>35</td>
<td>1270</td>
</tr>
<tr>
<td>30</td>
<td>1225</td>
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<tr>
<td>25</td>
<td>1180</td>
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<tr>
<td>20</td>
<td>1135</td>
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<tr>
<td>15</td>
<td>1090</td>
</tr>
<tr>
<td>10</td>
<td>1055</td>
</tr>
<tr>
<td>5</td>
<td>1020</td>
</tr>
<tr>
<td>0</td>
<td>1000</td>
</tr>
</tbody>
</table>

### MAIN BOOM ANGLE (deg) | 4-SECTION BOOM WITH 4TH EXTENDED

### REDUCTION CHART

### RIGGING CHART

---

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 a smoothly suspended load 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.**

---

**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

YB4409-2

Operating radius in meters from axis of rotation

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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, 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

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.

**Notes:**

- BOOM RETRACTED
- BOOM EXTENDED
- ANY BOOM
- MAIN BOOM ANGLE
- JIB STRUCTURAL CAPACITIES
- 0° OFFSET
- 15° OFFSET
- 30° OFFSET
- 72
- 70
- 65
- 60
- 55
- 50
- 45
- 40
- 35
- 30
- 25
- 20
- 15
- 10
- 5
- 0

<table>
<thead>
<tr>
<th>MAIN BLOCK</th>
<th>HOOK &amp; BALL</th>
<th>JIB, STOWED</th>
<th>JIB, DEPLOYED</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 kg</td>
<td>45 kg</td>
<td>0 kg</td>
<td>200 kg</td>
</tr>
</tbody>
</table>

**RIGGING CHART**

<table>
<thead>
<tr>
<th>1-part</th>
<th>2-part</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,480 kg</td>
<td>3,869 kg</td>
</tr>
</tbody>
</table>

WIRE ROPE: 14 mm diameter
Min. breaking strength 3.3 kN
DIN/ISO range diagram

YB4411

Operating radius in meters from axis of rotation

Boom and extension length in meters

Height from the ground in meters

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
### DIN/ISO Load Chart

**YB4411**

#### Main Boom

<table>
<thead>
<tr>
<th>Radius (m)</th>
<th>Extended 360° Retracted F/R</th>
<th>Retracted 360°</th>
<th>F/R</th>
<th>360°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BOOM RETRACTED</td>
<td>BOOM EXTENDED</td>
<td>BOOM RETRACTED</td>
<td>BOOM EXTENDED</td>
</tr>
<tr>
<td>1.2</td>
<td>95.30</td>
<td>68.00</td>
<td>95.30</td>
<td>68.00</td>
</tr>
<tr>
<td>1.5</td>
<td>81.50</td>
<td>66.70</td>
<td>81.50</td>
<td>66.70</td>
</tr>
<tr>
<td>1.8</td>
<td>71.20</td>
<td>65.30</td>
<td>65.30</td>
<td>65.30</td>
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<tr>
<td>2.4</td>
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<td>39.60</td>
</tr>
<tr>
<td>3.0</td>
<td>46.30</td>
<td>46.30</td>
<td>28.10</td>
<td>28.10</td>
</tr>
<tr>
<td>3.7</td>
<td>38.10</td>
<td>38.10</td>
<td>20.90</td>
<td>20.90</td>
</tr>
<tr>
<td>4.3</td>
<td>32.20</td>
<td>-</td>
<td>15.70</td>
<td>-</td>
</tr>
<tr>
<td>4.9</td>
<td>27.20</td>
<td>-</td>
<td>12.70</td>
<td>-</td>
</tr>
<tr>
<td>5.5</td>
<td>22.70</td>
<td>-</td>
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</tr>
<tr>
<td>6.1</td>
<td>19.90</td>
<td>-</td>
<td>8.50</td>
<td>-</td>
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<tr>
<td>6.7</td>
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<td>7.20</td>
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<tr>
<td>7.3</td>
<td>13.60</td>
<td>-</td>
<td>5.90</td>
<td>-</td>
</tr>
<tr>
<td>7.9</td>
<td>11.90</td>
<td>-</td>
<td>5.10</td>
<td>-</td>
</tr>
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</tr>
<tr>
<td>9.4</td>
<td>9.30</td>
<td>-</td>
<td>3.80</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Jib

<table>
<thead>
<tr>
<th>Radius (m)</th>
<th>Extended 360° Retracted F/R</th>
<th>Retracted 360°</th>
<th>F/R</th>
<th>360°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BOOM RETRACTED</td>
<td>BOOM EXTENDED</td>
<td>BOOM RETRACTED</td>
<td>BOOM EXTENDED</td>
</tr>
<tr>
<td>10.4</td>
<td>7.90</td>
<td>-</td>
<td>7.90</td>
<td>-</td>
</tr>
<tr>
<td>11.0</td>
<td>7.70</td>
<td>-</td>
<td>7.70</td>
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</tr>
<tr>
<td>11.6</td>
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</tr>
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<td>12.2</td>
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<td>7.00</td>
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<td>12.8</td>
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<tr>
<td>13.4</td>
<td>6.20</td>
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<td>6.20</td>
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<td>14.6</td>
<td>5.40</td>
<td>-</td>
<td>5.40</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Notes:

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.

---

**Jib Structural Capacities (kg):**

<table>
<thead>
<tr>
<th>Main Boom Angle (deg)</th>
<th>0° Offset</th>
<th>15° Offset</th>
<th>30° Offset</th>
<th>0° Offset</th>
<th>15° Offset</th>
<th>30° Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7 m Jib</td>
<td>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.</td>
<td>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.</td>
<td>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.</td>
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</tr>
</tbody>
</table>
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