Grove Manitowoc National Crane Potain

Grove YB4400 Series

Product Guide•Guía de productos•Guia do produto

ASME B30.5
CE and DIN/ISO

YB4409: 7,7 t
YB4409XL: 7,7 t
YB4409-2: 8,1 t
YB4411: 9,5 t

YB4409: 6,5 m
YB4409XL: 9,2 m
YB4409-2: 10,0 m
YB4411: 10,0 m

YB4409: 1,8 m
YB4409XL: 1,8 m
YB4409-2: 5,4 m
YB4411: 5,4 m

YB4409: 10,9 m
YB4409XL: 13,9 m
YB4409-2: 15,5 m
YB4411: 15,5 m

Features • Características • Características

Boom
Standard:
6,5 m main boom on the YB4409.
9,2 m main boom on the YB4409XL.
10,0 m main boom on the YB4409-2 and YB4411.
Optional: Manual fourth main boom section adds 3,0 m additional main boom length on YB4409 and YB4409XL only.

Pluma
Estándar:
Pluma principal de 6,5 m en la YB4409.
Pluma principal de 9,2 m en la YB4409XL.
Pluma principal de 10,0 m en la YB4409-2 y YB4411.
Opcional: La cuarta sección manual de la pluma principal añade 3,0 m al largo de la pluma principal en la YB4409 y YB4409XL solamente.

Lança
Padrão:
Lança principal de 6,5 m no YB4409.
Lança principal de 9,2 m no YB4409XL.
Lança principal de 10,0 m no YB4409-2 e no YB4411.

Opcional: Quarta seção manual da lança principal acrescenta mais 3,0 m ao comprimento da lança principal somente no YB4409 e no YB4409XL.

Engine (Tier III)
Standard: Cummins QSB 3,3 l turbo-charged diesel rated at 63,4 kW at 2600 rpm.

Motor (Tier III)
Estándar: Diesel Cummins QSB de 3,1 litros, turboalimentado, 63,4 kW a 2600 rpm.

Motor (Tier III)
Padrão: Cummins QSB de 3,3 litros diesel turbocomprimido, 63,4 kW a 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.

Punta de pluma pivotante
Estándar en la YB4409-2 y YB4411, esta punta de pluma pivotante exclusiva permite al operador reducir la profundidad de la cabeza de pluma en general y trabajar en zonas de espacio reducido.

Extremidade da lança pivotante
Padrão no YB4409-2 e no YB4411, a exclusiva extremidade da lança pivotante permite ao operador diminuir a profundidade total da cabeça da lança e operar em áreas mais confinadas.

Cab
Standard: Open air cab shell with overhead safety glass.
Optional: Closed cab with split hinged door, heater/defroster, and all window glass.

Cabina
Estándar: Envuelta de cabina abierta con cristal de seguridad sobrecabeza.
Opcional: Cabina cerrada con puerta de dos piezas abisagrada, calentador/descongelador y ventanas.

Cabine
Padrão: Carcaça da cabine estilo ar livre com vidro superior de segurança.
Opcional: Cabine fechada com porta articulada dividida, aquecedor/descongelador, e vidro em todas as janelas.

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

Dirección
Estándar: Dirección en dos ruedas, en cuatro ruedas, y tipo cangrejo con autoalineación electrónica (YB4411).
Estándar: Dirección en dos ruedas, en cuatro ruedas coordinada, y tipo cangrejo en otros modelos de la serie YB4400.
Opcional: Autoalineación electrónica en otros modelos de la serie YB4400.

Direção
Padrão: Em duas rodas, em quatro rodas e manobra lateral com autoalinhamento (YB4411).
Padrão: Em duas rodas, em quatro rodas e manobra lateral nos outros modelos da série YB4400.
Opcional: Autoalinhamento eletrônico em outros modelos da Série YB4400.

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Specifications

Superstructure

Boom

YB4409: 2,9 m – 6,5 m three- section full power boom. Maximum tip height: 7,6 m

YB4409XL: 3,8 m – 9,2 m three- section full power boom. Maximum tip height: 10,2 m

YB4409-2 and YB4411: 4,2 m – 10,0 m three-section full power boom. Maximum tip height: 11,6 m

*Optional boom

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

*Boom extension

YB4409 and YB4409XL: 1,8 m fixed pin on extension
YB4409-2 and YB4411: 3,6 m offsettable extension. 3,6 m - 5,4 m 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 when nose is pivoted fully forward.

Boom elevation

Single double acting hydraulic cylinder with integral holding valve.
Elevation: 0° to 60° for the **YB4409 and YB4409XL**
0° to 72° for the **YB4409-2 and YB4411**

Anti-two block device

Standard anti-two block device, when activated, provides an audible warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.

Load indicator (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 (hard wired 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. **(hard wired system)**

Swing

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

Hydraulic system

YB4409, YB4409-2 and YB4409XL: (2) gear pumps

YB4411: Variable displacement piston pump and piggyback gear pump.

Combined flow: 107,9 lpm

Maximum system operating pressure: 3600 psi

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

YB4411: Six section valve bank chassis mounted; operated via dash mounted, pilot pressure hydraulic joysticks.

Return line filter with full flow by-pass protection and service indicator.

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

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
YB4409-2 and **YB4411**: 0,27 m

Maximum single line pull:
YB4409 / XL: 4854 kg
YB4409-2 and YB4411: 6350 kg

Maximum single line speed:
YB4409 / XL: 26,8 m/min
YB4409-2 and YB4411: 36,6 m/min

Maximum permissible single line pull:
YB4409 / XL: 3855 kg
(12,7 mm [1/2 inch] Python Ultra XIPS)
YB4409-2 and YB4411: 4536 kg
(14,0 mm EEIPS)

Rope length :
YB4409 / XL: (three-section boom) 29,6 m
(four-section boom) 39,6 m
YB4409-2 and YB4411: 36,6 m

Carrier

Frame

High strength alloy steel constructed with integral outrigger housings; front and rear lifting, towing, and tie-down lugs. 3,5 m^2 carrydeck size with 6350 kg carrying capacity (**YB4409/XL / YB4409-2**) and 7711 kg carrying capacity (**YB4411**). Deck coated with anti-skid treatment.

Drive

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

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

Maximum outrigger pad load: YB4409/XL: 8,58 kg/cm^2
YB4411: 27,21 kg/cm^2
YB4409-2: 9,49 kg/cm^2

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**Denotes optional equipment*

Specifications

Outrigger controls

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

*Independent outrigger controls available as an option.

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

Engine

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

*Optional engines

- G.M. 3.0 L EFI dual fuel (gasoline / L.P.) rated at 59,6 kW at 2600 rpm.
- A Tier IV Cummins QSB 3.3 L, four-cylinder, turbo-charged diesel engine is also available

Fuel tank capacity

64 l all steel construction with steel side plate to guard against side impact.

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.

Electrical system

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

Steer

YB4409/ YB4409XL/YB4409-2: two-wheel,four-wheel with crab steer
YB4411: two-wheel, four-wheel, and crab steer with electronic self alignment.

Transmission

YB4409 / XL and YB4409-2: Synchromesh -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

Gradeability (theoretical)

YB4409 / XL and YB4409-2: 57%....no load
31%.... 5443 kg load

YB4411: 68%....no load
40%.... 9072 kg load

Gross vehicle weight (G.V.W.)

YB4409: 6777 kg
YB4409XL: 7366 kg
YB4409-2: 7532 kg
YB4411: 8009 kg
*All weights with enclosed cab

Miscellaneous standard equipment

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

SALE & RENTAL

**Denotes optional equipment*

Especificaciones

Superestructura

Pluma

YB4409: Pluma de 2,9 m – 6,5 m de tres secciones, completamente mecánica. Altura máxima de la punta: 7,6 m

YB4409XL: Pluma de 3,8 m – 9,2 m de tres secciones, completamente mecánica. Altura máxima de la punta: 10,2 m

YB4409-2 y YB4411: Pluma de 4,2 m – 10,0 m de tres secciones, completamente mecánica. Altura máxima de la punta: 11,6 m

*Pluma opcional

YB4409 y YB4409XL: La cuarta sección manual de extremo de la pluma principal añade 3,0 m al largo de la pluma.

*Extensión de la pluma

YB4409 y YB4409XL: Extensión fija de 1,8 m conectada por pasador
YB4409-2 y YB4411: Extensión descentrable de 3,6 m. Extensión descentrable telescópica de 3,6 m - 5,4 m

Punta de la pluma

YB4409 / XL: Polea única no pivotante
YB4409-2 y YB4411: Punta de pluma pivotante de tres posiciones (0°, +30°, +60°, + 80°) y una sola polea para reducir los requerimientos de altura de cabeza. Reduce la altura de cabeza. 0,26 m cuando la punta se gira completamente hacia adelante.

Elevación de pluma

Un cilindro hidráulico de doble acción con válvula de retención incorporada.
Elevación: 0° a 60° para la **YB4409 y YB4409XL**
0° a 72° para la **YB4409-2 y YB4411**

Dispositivo de prevención del contacto entre bloques

Dispositivo de prevención del contacto entre bloques estándar; cuando está activado, proporciona una advertencia sonora al operador de la grúa y desactiva todas las funciones de la grúa cuyo movimiento puede causar el contacto entre bloques.

Indicador de carga (LSI inalámbrico)

Un sistema indicador de carga sencillo, fácil de usar y eficaz que se usa junto con el sistema de prevención del contacto entre bloques para ayudar al operador en el manejo eficiente de la máquina dentro de los límites de la tabla de carga. La pantalla visualiza la carga del gancho y avisa al operador cuando se excede la capacidad de carga prefijada. La advertencia es mediante una luz destellante en la pantalla. En conjunto con la pantalla de carga (receptor) hay un transmisor inalámbrico y un pasador detector de carga sujetos a la cabeza de la pluma para transmitir la carga del gancho a la pantalla.

*Indicador del momento de carga (LMI cableado)

Pantalla digital que indica el ángulo de pluma, largo de pluma, radio de pluma y capacidad, y además le permite al operador introducir los parámetros de límite basado en la tabla de carga. Presenta una barra de luces codificada por color y una alarma sonora con interrupción de la función cuando la carga excede los parámetros introducidos. **(sistema cableado)**

Giro

Círculo de giro sobre cojinetes de bolas con rotación continua de 360°. Engranaje sinfín y piñón accionados hidráulicamente. Velocidad máxima: 2,05 rpm

Sistema hidráulico

YB4409, YB4409-2 y YB4409XL: (2) bombas de engranajes

YB4411: Bomba de émbolo de caudal variable y bomba de engranajes auxiliar.

Caudal combinado: 107,9 l/min

Presión máxima de funcionamiento del sistema: 3600 psi

YB4409, YB4409-2 y YB4409XL: Banco de válvulas de seis secciones instalado en el tablero de instrumentos con varillaje mecánico para palanca de control de poco esfuerzo.

YB4411: Banco de válvulas de seis secciones, montado en el chasis, accionado por palancas de control hidráulico de presión piloto montadas en el tablero de instrumentos.

Filtro en la línea de retorno con protección de derivación de caudal pleno e indicador de servicio.

Depósito hidráulico de 170 litros con indicador de nivel y placas laterales de acero para proteger contra los golpes laterales.

Especificaciones del malacate

YB4409 / XL: Mando de engranaje sinfín con válvulas de contraequilibrio. Elevación y bajada a la misma velocidad.

YB4409-2 y YB4411: Accionado por motor de émbolo con freno aplicado por resorte/liberado hidráulicamente.

Diámetro del tambor:
YB4409 / XL: 0,24 m
YB4409-2 y **YB4411**: 0,27 m

Tracción máxima de cable sencillo:
YB4409 / XL: 4854 kg
YB4409-2 y YB4411: 6350 kg

Velocidad máxima de cable sencillo:
YB4409 / XL: 26,8 m/min
YB4409-2 y YB4411: 36,6 m/min
Tracción máxima admisible de cable sencillo:
YB4409 / XL: 3855 kg
(Python Ultra XIPS de 12,7 mm)
YB4409-2 y YB4411: 4536 kg
(EEIPS de 14,0 mm)

Longitud del cable:
YB4409 / XL: (pluma de tres secciones) 29,6 m
(pluma de cuatro secciones) 39,6 m
YB4409-2 y YB4411: 36,6 m

Vehículo

Bastidor

Acero de aleación de alta resistencia construido con cajas de estabilizadores incorporadas; orejetas de elevación, remolcado y amarre delanteras y traseras. Plataforma de 3,5 m^2 con capacidad de transporte de 6350 kg (**YB4409/XL / YB4409-2**) y 7711 kg (**YB4411**). Plataforma con superficie antideslizante.

Tracción

4 x 2 – Mando de eje delantero con cubos planetarios y diferencial de patinaje limitado.

Estabilizadores

YB4409, YB4409XL y YB4409-2: Vigas oblicuas delanteras y traseras en las cuatro esquinas con válvulas de retención incorporadas. Las bases de estabilizadores forman parte integral de la viga.
YB4411: Una viga telescópica hidráulica con gato oblicuo proporciona capacidades de elevación extendida y bajada y retraída y bajada. Válvulas de retención incorporadas en la viga y de gato.

Tamaño de base de la serie YB4400: 18 cm x 20 cm

Carga máxima de base de estabilizador: YB4409/XL: 8,58 kg/cm^2
YB4411: 27,21 kg/cm^2
YB4409-2: 9,49 kg/cm^2

**Indica equipo opcional*

Especificaciones

Controles de estabilizadores

YB4409-2, **YB4409 y YB4409XL**: Palancas de control ubicadas en el tablero de instrumentos que accionan las vigas en pares de lado a lado.
*Controles de estabilizadores independientes disponibles como opción.

YB4411: Funcionamiento mediante dos interruptores instalados en el tablero de instrumentos. Un interruptor basculante de tres posiciones para seleccionar las vigas o gatos individualmente. Un interruptor de palanquita de cuatro vías aparte para activar la extensión/retracción de las vigas y la bajada/elevación de los gatos. Indicador de nivel tipo burbuja ubicado en el compartimiento del operador.

Motor

Diesel Cummins QSB de 3,3 litros, turboalimentado, 63,4 kW a 2600 rpm. Suministrado con calentador de bloque de motor de 120 V y calentador de admisión de aire tipo rejilla.

*Motores opcionales

- GM de 3,0 litros, inyección electrónica de combustible, de combustible doble (gasolina/gas licuado de petróleo), 59,6 kW a 2600 rpm.
- También disponible, un motor diesel Cummins QSB de 3,3 litros, turboalimentado de cuatro cilindros Tier IV

Capacidad del tanque de combustible

64 litros, construcción de acero con placa lateral de acero para proteger contra los golpes laterales.

Puesto de control del operador

Puesto de control abierto montado en bastidor con envuelta de cabina. Incluye todas las funciones de la grúa, los controles de conducción y el cristal de seguridad sobrecabeza. Otro equipo estándar incluye asiento duradero resistente a la intemperie con cinturón de seguridad, horómetro, burbuja de nivel y extintor de incendios. El tablero de instrumentos incluye un manómetro de aceite del motor, termómetro de refrigerante del motor, medidor de combustible, luces de advertencia de nivel bajo de aceite y temperatura alta de la transmisión, luz de advertencia de batería descargada, y luz de advertencia de presión baja del sistema de frenos.

*Puesto de control del operador cerrado

Incluye la envuelta de cabina estándar con la adición de cristal delantero, derecho y trasero, una puerta de dos piezas abisagrada con cristal de corredera. También incluye limpiaparabrisas delantero, calentador y descongelador.

Sistema eléctrico

Una batería de 12 V exenta de mantenimiento, 820 A de arranque en frío a 0°. Conexiones para arranque con cables puente. Alternador de 120 A.

Dirección

YB4409/YB4409XL/YB4409-2: dirección en dos ruedas, cuatro ruedas con dirección tipo cangrejo
YB4411: dirección en dos ruedas, cuatro ruedas, y tipo cangrejo con autoalineación electrónica.

Transmisión

YB4409 / XL y YB4409-2: Transmisión sincronizada de cuatro marchas de avance y retroceso con selector de avance/retroceso montado en poste.

YB4411: Servotransmisión con cuatro marchas de avance y retroceso. Palanca de cambios montada en poste en el lado izquierdo de la columna de la dirección.

Ejes

Delantero: Tracción/dirección planetaria Carraro con frenos de discos múltiples en baño de aceite internos y diferencial de patinaje limitado.
Trasero: Dirección sin tracción fabricada con frenos de discos

Neumáticos

Neumáticos 10.00 x 15

Frenos

Frenos de servicio hidráulicos de disco en baño de aceite interno que actúan sobre las cuatro ruedas. Un interruptor de palanquita instalado en el tablero de instrumentos activa el freno de estacionamiento de disco seco en la horquilla de salida de transmisión con un luz de advertencia en el tablero de instrumentos.

Suspensión

Delantera: Rígida montada en el bastidor.
Trasera: Rígida montada en el bastidor.

Luces

Montadas embutidas, incluyen faros, luces de cola, de trabajo traseras, de pare y señalizadores de viraje.

Velocidad máxima

35,6 km/h

Capacidad de pendiente (teórica)

YB4409 / XL y YB4409-2: 57%....sin carga
31%....5443 kg de carga

YB4411: 68%....sin carga
40%....9072 kg de carga

Peso bruto del vehículo (GVW)

YB4409: 6777 kg
YB4409XL: 7366 kg
YB4409-2: 7532 kg
YB4411: 8009 kg
*Todos los pesos con cabina cerrada

Equipos estándar varios

Aparejo de gancho de enhebrado rápido de una sola polea **YB4409 /XL**: 8,0 t; **YB4409-2**: 8,1 t; **YB4411:** 10 t; alarma de retroceso.

**Indica equipo opcional*

Especificações

Superestrutura

Lança

YB4409: Lança de três seções totalmente motorizada de 2,9 a 6,5 m. Altura máxima da ponta: 7,6 m

YB4409XL: Lança de três seções totalmente motorizada de 3,8 m a 9,2 m. Altura máxima da ponta: 10,2 m

YB4409-2 e YB4411: Lança de três seções totalmente motorizada de 4,2 a 10,0 m. Altura máxima da ponta: 11,6 m

*Lança opcional

YB4409 e YB4409XL: Quarta seção volante manual da lança principal acrescenta mais 3,0 m ao comprimento da lança.

*Extensão da lança

YB4409 e YB4409XL: Extensão fixa de 1,8 m fixada por pino
YB4409-2 e YB4411: extensão deslocável de 3,6 m. Extensão deslocável telescópica de 3,6 m a 5,4 m.

Extremidade da lança

YB4409 / XL: Polia única não pivotante
YB4409-2 e YB4411: Polia única, extremidade na lança não pivotante de três seções (0°, + 30°, + 80°) para minimizar os requisitos de espaço da cabeça. Diminui a altura da cabeça. 0,26 m quando a extremidade é pivotada totalmente para frente.

Elevação da lança

Cilindro único de dupla ação com válvula de retenção integral.
Elevação: 0° a 60° para o **YB4409 e o YB4409XL**
0° a 72° para o **YB4409-2 e o YB4411**

Dispositivo anticolisão do moitão

O dispositivo anticolisão do moitão padrão, quando ativado, fornece um aviso sonoro para o operador e desativa todas as funções cujo movimento pode causar colisão do moitão.

Indicador de carga (LSI sem fio)

Um sistema de indicação de carga simples, eficaz e fácil de usar utilizado em conjunto com o sistema anticolisão do moitão para ajudar o operador na operação eficiente da unidade dentro dos limites da tabela de carga. O painel do mostrador exibe a carga do gancho e alerta o operador quando uma capacidade de carga pré-ajustada é excedida. O alerta é fornecido por uma luz piscando no painel do mostrador. Em conjunto com o painel do mostrador de carga (receptor) existe um transmissor sem fio e um pino sensível à carga conectados à cabeça da lança, que transmitem a carga do gancho para o painel do mostrador.

*IMC (Indicador de Momento da Carga conectado por fio)

Exibição digital de ângulo da lança, comprimento da lança, raio da lança, capacidade, e permite que o operador insira informações para definir os limites com base na tabela de carga. Exibe barra de luzes com código de cores e alarme sonoro com função de desligamento se a carga exceder os parâmetros definidos. **(sistema conectado por fio)**

Giro

Círculo do giro do rolamento de esferas com rotação contínua de 360°. Engrenagem helicoidal e pinhão acionados hidraulicamente. Velocidade máxima: 2,05 rpm

Sistema hidráulico

YB4409, YB4409-2 e YB4409XL: (2) bombas de engrenagens

YB4411: Bomba de pistão de deslocamento variável e bomba de engrenagens montada na sua entrada.

Vazão combinada: 107,9 l/min

Pressão máxima de operação do sistema: 3600 psi

YB4409, YB4409-2 e YB4409XL: Banco de válvulas de seis seções montado no painel de instrumentos com articulação mecânica direta para proporcionar alavanca de controle de baixo esforço.

YB4411: Banco de válvulas de seis seções montado no chassi, operado por joysticks hidráulicos de pressão piloto montados no painel de instrumentos.

Filtro da linha de retorno com proteção de contorno de vazão total e indicador de manutenção.

Reservatório hidráulico de 170 l com indicador visual de nível e placa lateral de aço para proteger contra danos provocados por impactos laterais.

Especificações do guincho

YB4409 / XL: Acionamento sem-fim com válvula de compensação. Mesma velocidade para ligação e desligamento.

YB4409-2 e YB4411: Acionamento de motor de pistão com freio acionado por mola/liberado hidraulicamente.

Diâmetro do tambor:
YB4409 / XL: 0,24 m
YB4409-2 e **YB4411**: 0,27 m

Tração máxima de cabo único:
YB4409 / XL: 4854 kg
YB4409-2 e YB4411: 6350 kg

Velocidade máxima de cabo único:
YB4409 / XL: 26,8 m/min.
YB4409-2 e YB4411: 36,6 m/min.
Tração máxima permitida de cabo único
YB4409 / XL: 3855 kg
(12,7 mm Python Ultra XIPS)
YB4409-2 e YB4411: 4536 kg
(14,0 mm EEIPS)

Comprimento do cabo:
YB4409 / XL: (lança de três seções) 29,6 m
(lança de quatro seções) 39,6 m
YB4409-2 e YB4411: 36,6 m

Transportador

Estrutura

Construída de aço liga de alta resistência com carcaças de estabilizadores integrais; olhais de elevação dianteiros e traseiros, de reboque e de fixação. Tamanho do tabuleiro de movimentação de 3,5 m^2 com capacidade de movimentação de 6350 kg (**YB4409/XL / YB4409-2**) e capacidade de movimentação de 7711 kg (**YB4411**). Tabuleiro revestido com tratamento antiderrapante.

Acionamento

4 x 2 – Acionamento do eixo dianteiro com cubos planetários e diferencial de deslizamento limitado.

Estabilizadores

YB4409, YB4409XL e YB4409-2: Vigas dianteira e traseira do tipo oblíquo em todos os quatro cantos com válvula de retenção integrais. As patolas dos estabilizadores são parte integrante da viga.
YB4411: Viga telescópica hidráulica com macaco do tipo oblíquo proporciona capacidades de elevação estendida e para baixo e retraída e para baixo. Válvulas de retenção integrais na viga e no macaco.

Tamanho da patola na Série YB4400: 18 cm x 20 cm

Carga máxima na patola do estabilizador: YB4409/XL: 8,58 kg/cm^2
YB4411: 27,21 kg/cm^2
YB4409-2: 9,49 kg/cm^2

**Indica equipamento opcional*

Especificações

Controles de estabilizador

YB4409-2, **YB4409 e YB4409XL**: Controles de alavanca localizados no painel de instrumentos que operam as vigas em pares de lado a lado.
*Controles independentes dos estabilizadores disponíveis como uma opção.

YB4411: Operação com duas chaves montadas no painel de instrumentos. Uma chave oscilante de três posições para selecionar vigas ou macacos individuais. Chave separada de quatro vias para ativar extensão/retração das vigas e abaixamento/elevação dos macacos. Indicador de nível de bolha localizado dentro do compartimento dos operadores.

Motor

Cummins QSB 3,3 l diesel turbocomprimido, 63,4 kW a 2600 rpm. Fornecido com aquecedor do bloco do motor de 120 V e aquecedor de grade de entrada de ar.

*Motores opcionais

- G.M. 3.0L EFI bicombustível (gasolina / GLP), 59,6 kW a 2600 rpm.
- Um motor diesel Cummins QSB de 3,3 litros Tier IV, quatro cilindros, turbocomprimido também está disponível

Capacidade do tanque de combustível

64 l, construído totalmente em aço com placa lateral de aço para proteger contra impactos laterais.

Estação de controle do operador

Estação de controle estilo ar livre montada na estrutura com carcaça da cabine. Inclui todas as funções do guindaste, controles de condução e vidro superior de segurança. Outros equipamentos padrão incluem um assento durável resistente ao tempo com cinto de segurança, horímetro, visor de bolha de nível e extintor de incêndio O painel de instrumentos inclui indicador de pressão do óleo do motor, indicador de temperatura da água do motor, indicador de combustível, luzes de atenção de pouco óleo e de temperatura alta da transmissão, luz de atenção de bateria fraca e luz de atenção de pressão baixa do sistema de freio.

*Estação fechada de controle do operador

Inclui a carcaça da cabine padrão com a inclusão de vidros dianteiro, direito e traseiro, uma porta articulada dividida (duas partes) com vidro deslizante. Estão inclusos limpador, aquecedor e descongelador do para-brisa dianteiro.

Sistema elétrico

Uma bateria de 12 V livre de manutenção, 820 CCA a 0°. Conexões para partida auxiliar. Alternador de 120 A.

Direção

YB4409/ YB4409XL/YB4409-2: duas rodas, quatro rodas com manobra lateral
YB4411: duas rodas, quatro rodas e manobra lateral com autoalinhamento eletrônico.

Transmissão

YB4409 / XL e YB4409-2: Synchromesh com quatro velocidades de avanço e de marcha à ré com seletor de avanço/marcha à ré montado na coluna.

YB4411: Powershift com quatro velocidades de avanço e de marcha à ré. Seletor de mudança montado na coluna no lado esquerdo da coluna de direção.

Eixos

Dianteira: Direção/acionamento planetário Carraro com freios internos multidiscos úmidos e diferencial de deslizamento limitado.
Traseira: Direção sem acionamento fabricada com freios a disco

Pneus

10.00 x 15 pneumáticos

Freios

Freios de serviço internos multidiscos úmidos acionados hidraulicamente atuando em todas as quatro rodas. Uma chave montada no painel de instrumentos ativa o freio de estacionamento de disco seco no garfo de saída da transmissão com uma luz de atenção no painel de instrumentos.

Suspensão

Dianteira: Rígida montada na estrutura.
Traseira: Rígida montada na estrutura.

Luzes

Montadas rebaixadas, incluem faróis, lanternas traseiras, de trabalho traseira, de freio e sinaleiras direcionais.

Velocidade máxima

35,6 km/h

Capacidade de subida de rampa (teórica)

YB4409 / XL e YB4409-2: 57%....sem carga
31%....5443 kg de carga

YB4411: 68%....sem carga
40%....9072 kg de carga

Peso bruto do veículo (G.V.W.)

YB4409: 6777 kg
YB4409XL: 7366 kg
YB4409-2: 7532 kg
YB4411: 8009 kg
*Todos os pesos com cabine fechada

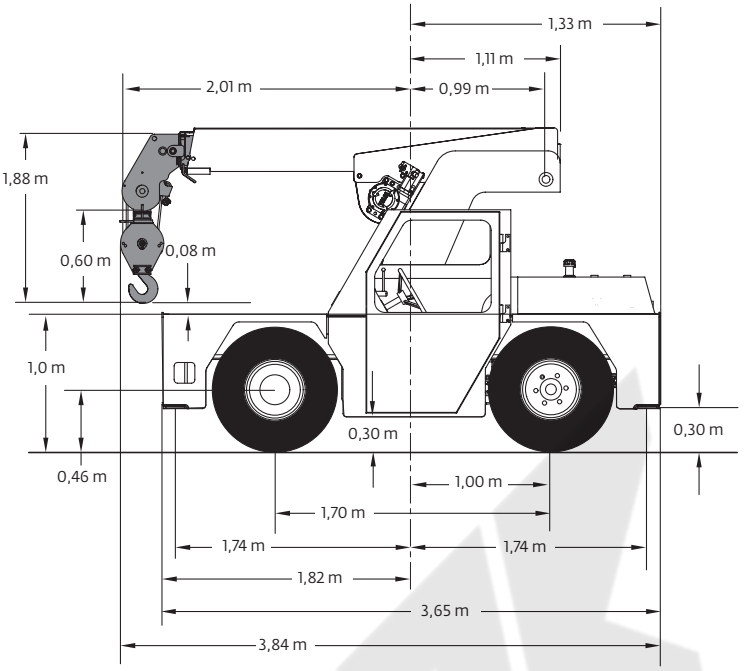
Equipamentos padrão diversos

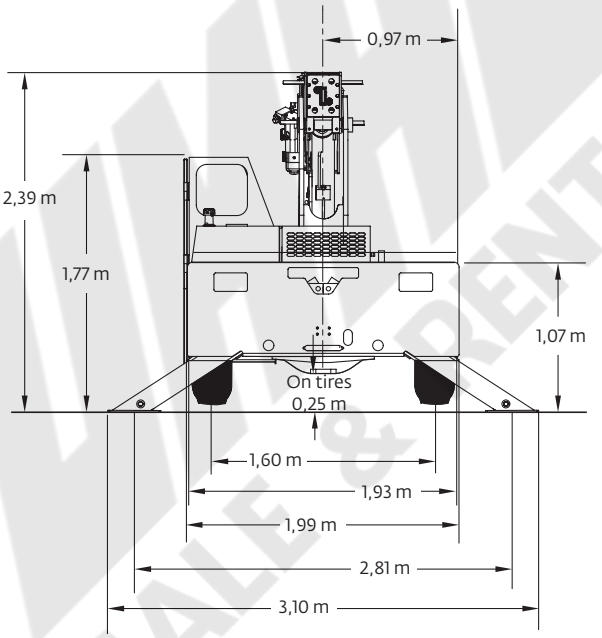
Moitão de gancho estilo "passagem rápida de cabos" de polia única no **YB4409 / XL**: 8,0 t; **YB4409-2**: 8,1 t; **YB4411:** 10 t; alarme de marcha à ré.

SALE & RENTAL

Dimensions • Dimensiones • Dimensões

YB4409





English	Español	Português do Brasil
On tires	Sobre neumáticos	Sobre os pneus

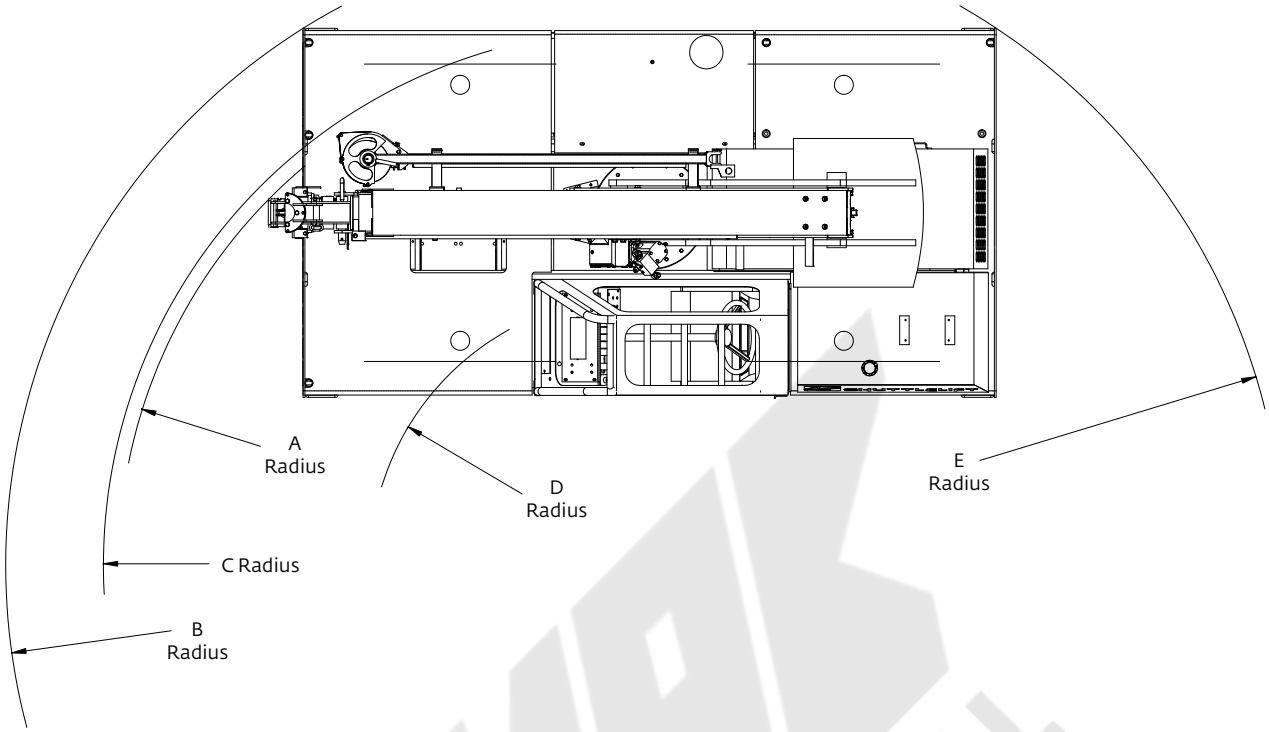
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Turning radius • Radio de giro • Raio de curva

YB4409



	A	B	C	D	E
Two-wheel steer • Dirección en dos ruedas • Direção em duas rodas	4496 mm	4737 mm	4636 mm	2718 mm	5525 mm
Four-wheel steer • Dirección en cuatro ruedas • Direção em quatro rodas	3048 mm	3645 mm	3188 mm	1473 mm	3569 mm

English	Español	Português do Brasil
A Radius	Radio A	Raio A
B Radius	Radio B	Raio B
C Radius	Radio C	Raio C
D Radius	Radio D	Raio D
E Radius	Radio E	Raio E
On tires	Sobre neumá-ticos	Sobre os pneus

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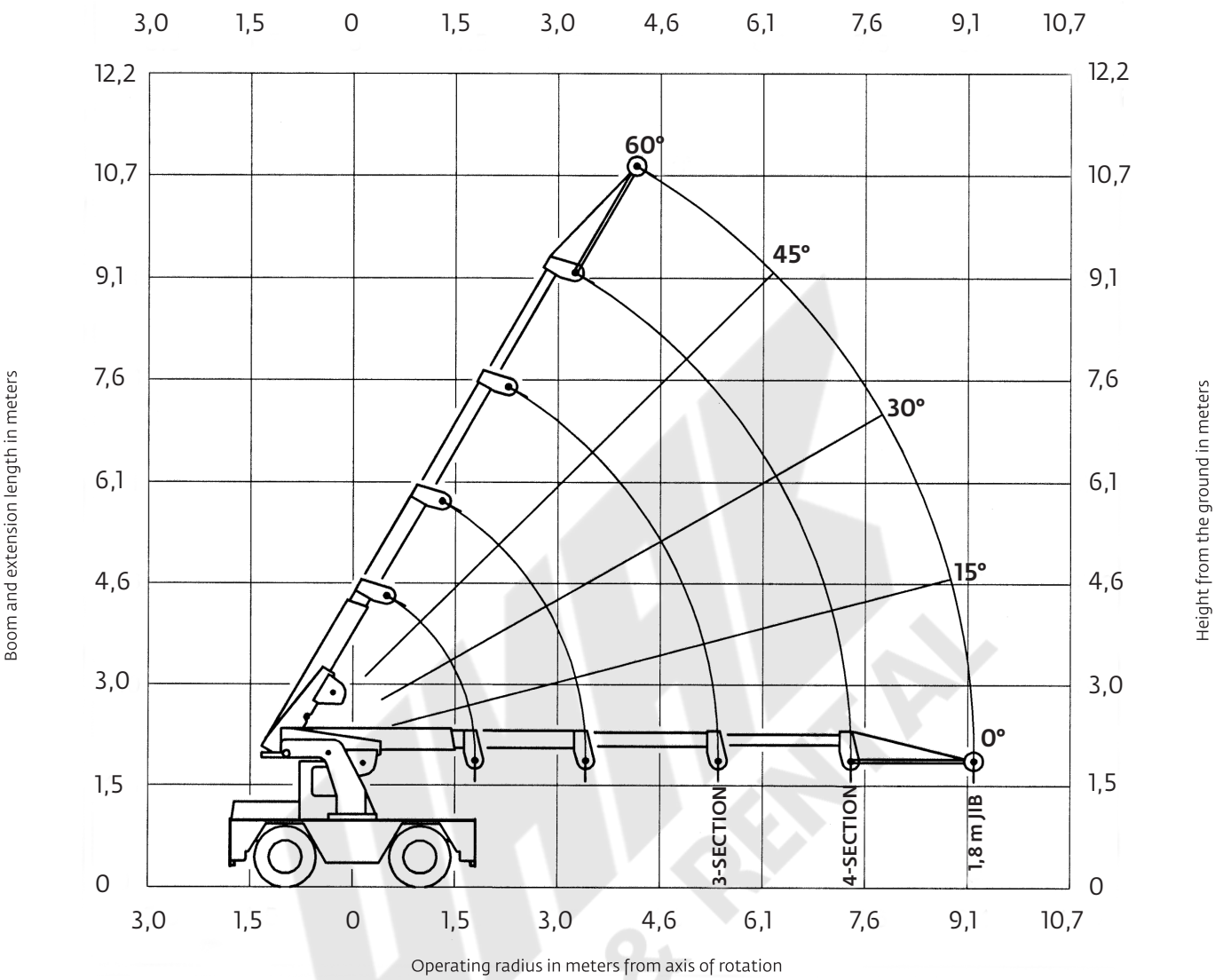
Metric 85% range diagram • Diagrama de alcance de 85% - métrico • Diagrama de distância métrica de 85%

YB4409



English	Español	Português do Brasil
1,8 m JIB	PLUMÍN DE 1,8 m	JIB 1,8 m
3-SECTION	3 SECCIONES	3 SEÇÕES
4-SECTION	4 SECCIONES	4 SEÇÕES
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
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Metric 85% load chart

YB4409

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

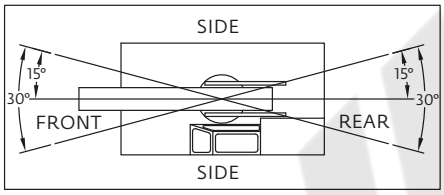
MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)	
	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED
60	1590	1590
55	1510	1510
50	1430	1430
45	1360	1360
40	1305	1305
35	1270	1270
30	1225	1225
25	1180	1180
20	1135	1135
15	1090	1090
10	1055	1055
5	1020	1020
0	1000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

*Limit ratings to 5350 kg when third 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	60 kg	N/A
HOOK & BALL	50 kg	50 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	70 kg	0 kg

RIGGING CHART	
1-PART 0-3850 kg	2-PART 0-7710 kg
WIRE ROPE: 13 mm diameter Minimum breaking strength 132,3 kN.	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

Tabla de carga de 85% - métrico

YB4409

Radio (m)	PLUMA DE 3 SECCIONES O PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA					Radio (m)	PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA			
	SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)				SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)	
	D/T	360°	D/T	360°			D/T	360°	D/T	360°
1,5	7710	7710	4540	4540	PLUMA PRINCIPAL	1,5	2770	2770	2770	2770
1,8	7120	6530	4540	3380		1,8	2770	2770	2770	2770
2,4	5620	4900	3240	2000		2,4	2400	2400	2400	2380
3,0	4630	3900	2130	1340		3,0	2130	2130	2130	1700
3,7	3860	3180	1540	990		3,7	2000	2000	1720	1110
4,3	3270	2450	1200	770		4,3	2000	2000	1320	850
4,9	2770	1950	980	600		4,9	2000	2000	1050	690
5,5	2270	1610	810	500		5,5	2000	1860	860	560
6,1	1220	1220	690	430		6,1	1950	1430	730	450
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7,9	-	-	-	-	PLUMÍN	7,9	1220	960	500	290
8,5	-	-	-	-		8,5	1130	860	440	260
9,1	-	-	-	-		9,1	1040	770	390	220
9,4	-	-	-	-		9,4	1000	740	360	190

ÁNG. PLUMA PRINCIPAL (grados)	CAPACIDADES ESTRUCTURALES DEL PLUMÍN (kg)	
	PLUMA DE 3 SECCIONES O PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA	PLUMA DE 4 SECCIONES CON LA 4a EXTENDIDA
60	1590	1590
55	1510	1510
50	1430	1430
45	1360	1360
40	1305	1305
35	1270	1270
30	1225	1225
25	1180	1180
20	1135	1135
15	1090	1090
10	1055	1055
5	1020	1020
0	1000	1000

*Capacidades limitadas a 5350 kg cuando la tercera sección está extendida cualquier cantidad.

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

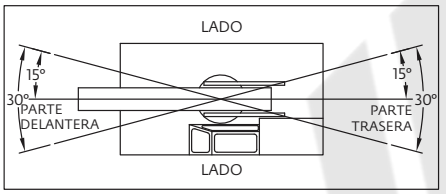


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	60 kg	N/C
GANCHO Y BOLA	50 kg	50 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	70 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-3850 kg	2 SECCIONES 0-7710 kg
CABLE: 13 mm de diámetro Resistencia mínima a la rotura 132,3 kN.	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, el largo y el ángulo de la pluma. Para obtener el radio de trabajo se puede usar cualquier combinación de largos y ángulos de pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 85% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son con estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (6,9 bar). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5440 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga métrica de 85%

YB4409

Raio (m)	LANÇA DE 3 SEÇÕES OU LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA					Raio (m)	LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA			
	SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)				SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)	
	D/T	360°	D/T	360°			D/T	360°	D/T	360°
1,5	7710	7710	4540	4540	LANÇA PRINCIPAL	1,5	2770	2770	2770	2770
1,8	7120	6530	4540	3380		1,8	2770	2770	2770	2770
2,4	5620	4900	3240	2000		2,4	2400	2400	2400	2380
3,0	4630	3900	2130	1340		3,0	2130	2130	2130	1700
3,7	3860	3180	1540	990		3,7	2000	2000	1720	1110
4,3	3270	2450	1200	770		4,3	2000	2000	1320	850
4,9	2770	1950	980	600		4,9	2000	2000	1050	690
5,5	2270	1610	810	500		5,5	2000	1860	860	560
6,1	1220	1220	690	430		6,1	1950	1430	730	450
6,7	1180	1180	610	370		6,7	1680	1220	620	390
7,5	1000	1000	520	310		7,5	1410	1040	540	320
7,9	-	-	-	-	JIB	7,9	1220	960	500	290
8,5	-	-	-	-		8,5	1130	860	440	260
9,1	-	-	-	-		9,1	1040	770	390	220
9,4	-	-	-	-		9,4	1000	740	360	190

ÂNGULO DA LANÇA PRINCIPAL (graus)	CAPACIDADES ESTRUTURAIS DO JIB (kg)	
	LANÇA DE 3 SEÇÕES OU LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA	LANÇA DE 4 SEÇÕES COM A 4ª ESTENDIDA
60	1590	1590
55	1510	1510
50	1430	1430
45	1360	1360
40	1305	1305
35	1270	1270
30	1225	1225
25	1180	1180
20	1135	1135
15	1090	1090
10	1055	1055
5	1020	1020
0	1000	1000

*Limite as capacidades a 5350 kg quando a terceira seção estiver qualquer tanto estendida.

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

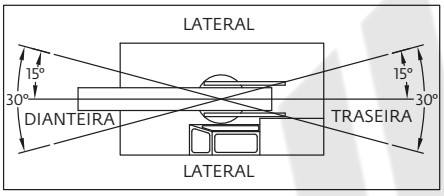


TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	60 kg	N/A
GANCHO E BOLA	50 kg	50 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	70 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 3850 kg	2 PERNAS 0 A 7710 kg
CABOS DE AÇO: diâmetro de 13 mm Resistência à ruptura mínima de 132,3 kN.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado somente pelo raio de operação. Qualquer combinação de comprimentos e ângulos de lança pode ser usada para obter o raio de operação. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 85% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são com os estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (6,9 bar). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

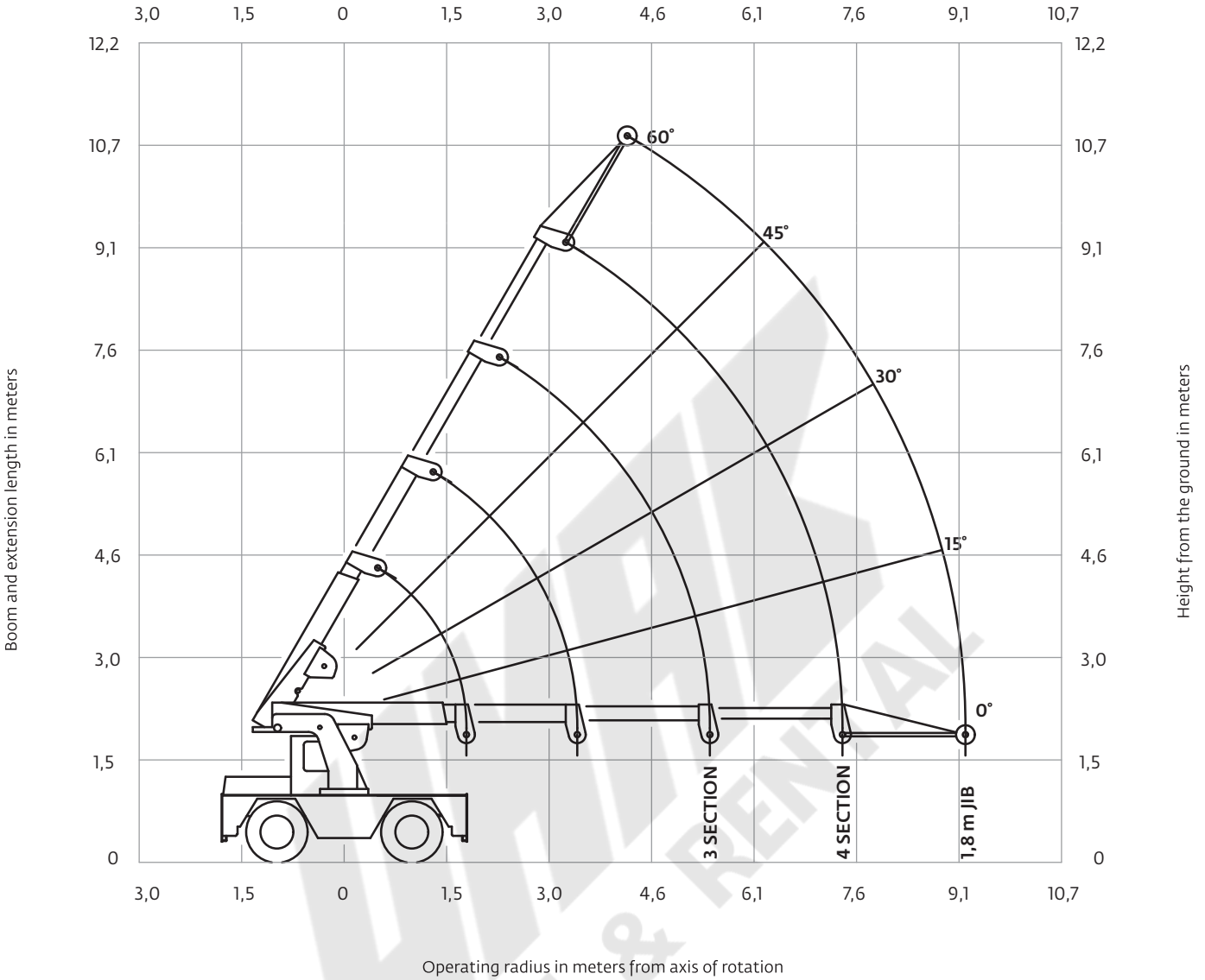
6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5440 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

DIN/ISO range diagram • Diagrama de alcance DIN/ISO • Diagrama de distância DIN/ISO

YB4409



English	Español	Português do Brasil
1,8 m JIB	PLUMÍN DE 1,8 m	JIB 1,8 m
3-SECTION	3 SECCIONES	3 SEÇÕES
4-SECTION	4 SECCIONES	4 SEÇÕES
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação

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.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

DIN/ISO load chart

YB4409

RADIUS (m)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (m)	4-SECTION BOOM WITH 4TH EXTENDED				
	ON OUTRIGGERS (kg)		ON RUBBER (kg)				ON OUTRIGGERS (kg)		ON RUBBER (kg)		
	F/R	360°	F/R	360°			F/R	360°	F/R	360°	
1,5	7710	7710	4540	4380		1,5	2770	2770	2770	2770	
1,8	7120	6530	4540	3260		1,8	2770	2770	2770	2770	
2,4	5620	4900	3200	1970		2,4	2400	2400	2400	2380	
3,0	4630	3900	2080	1300	MAIN BOOM	3,0	2130	2130	2130	1560	
3,7	3860	3000	1520	950		3,7	2000	2000	1660	1080	
4,3	3270	2250	1160	730		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		6,1	1800	1310	690	420	
6,7	1180	1120	590	340		6,7	1540	1110	590	340	
7,5	1000	930	480	260		7,5	1290	940	500	270	
7,9	-	-	-	-		7,9	1190	870	460	250	
8,5	-	-	-	-		8,5	1080	780	410	210	
9,1	-	-	-	-	JIB	9,1	970	690	350	170	
9,4	-	-	-	-		9,4	920	660	330	150	

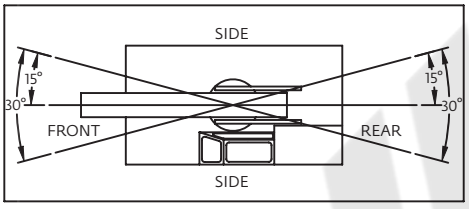
MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)	
	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED
60	1590	1588
55	1510	1508
50	1430	1429
45	1360	1361
40	1305	1304
35	1270	1270
30	1225	1225
25	1180	1179
20	1135	1134
15	1090	1089
10	1055	1055
5	1020	1021
0	1000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

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

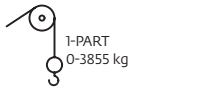
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

RIGGING CHART	
 1-PART 0-3855 kg	2-PART 0-7710 kg
WIRE ROPE: 13mm diameter Min. breaking strength 139,8 kN	

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 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

SNORKEL

Tabla de carga DIN/ISO

YB4409

Radio (m)	PLUMA DE 3 SECCIONES O PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA					Radio (m)	PLUMA DE 4 SECCIONES CON LA 4a EXTENDIDA			
	SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)				SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)	
	D/T	360°	D/T	360°			D/T	360°	D/T	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	PLUMA PRINCIPAL	2,4	2400	2400	2400	2380
3,0	4630	3900	2080	1300		3,0	2130	2130	2130	1560
3,7	3860	3000	1520	950		3,7	2000	2000	1660	1080
4,3	3270	2250	1160	730		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		6,1	1800	1310	690	420
6,7	1180	1120	590	340		6,7	1540	1110	590	340
7,5	1000	930	480	260		7,5	1290	940	500	270
7,9	-	-	-	-		7,9	1190	870	460	250
8,5	-	-	-	-	PLUMÍN	8,5	1080	780	410	210
9,1	-	-	-	-		9,1	970	690	350	170
9,4	-	-	-	-		9,4	920	660	330	150

*Capacidades limitadas a 5350 kg cuando la tercera sección está extendida cualquier cantidad.

ÁNG. PLUMA PRINCIPAL (grados)	CAPACIDADES ESTRUCTURALES DEL PLUMÍN (kg)	
	PLUMA DE 3 SECCIONES O PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA	PLUMA DE 4 SECCIONES CON LA 4a EXTENDIDA
60	1590	1588
55	1510	1508
50	1430	1429
45	1360	1361
40	1305	1304
35	1270	1270
30	1225	1225
25	1180	1179
20	1135	1134
15	1090	1089
10	1055	1055
5	1020	1021
0	1000	998

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

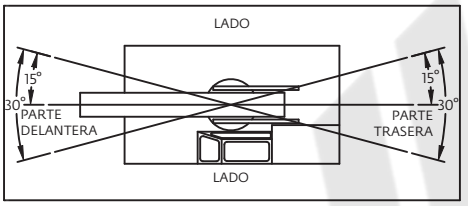


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	64 kg	N/C
GANCHO Y BOLA	45 kg	45 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	68 kg	0 kg

TABLA DE APAREJO	
1 SECCIÓN 0-3850 kg	2 SECCIONES 0-7710 kg
CABLE: 13 mm de diámetro Resistencia mínima a la rotura 132,3 kN.	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, el largo y el ángulo de la pluma. Para obtener el radio de trabajo se puede usar cualquier combinación de largos y ángulos de pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 80% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son con estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (6,9 bar). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5440 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga DIN/ISO

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Raio (m)	LANÇA DE 3 SEÇÕES OU LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA					Raio (m)	LANÇA DE 4 SEÇÕES COM A 4ª ESTENDIDA			
	SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)				SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)	
	D/T	360°	D/T	360°			D/T	360°	D/T	360°
1,5	7710	7710	4540	4380	LANÇA PRINCIPAL	1,5	2770	2770	2770	2770
1,8	7120	6530	4540	3260		1,8	2770	2770	2770	2770
2,4	5620	4900	3200	1970		2,4	2400	2400	2400	2380
3,0	4630	3900	2080	1300		3,0	2130	2130	2130	1560
3,7	3860	3000	1520	950		3,7	2000	2000	1660	1080
4,3	3270	2250	1160	730		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		6,1	1800	1310	690	420
6,7	1180	1120	590	340		6,7	1540	1110	590	340
7,5	1000	930	480	260		7,5	1290	940	500	270
7,9	-	-	-	-	JIB	7,9	1190	870	460	250
8,5	-	-	-	-		8,5	1080	780	410	210
9,1	-	-	-	-		9,1	970	690	350	170
9,4	-	-	-	-		9,4	920	660	330	150

ÂNGULO DA LANÇA PRINCIPAL (graus)	CAPACIDADES ESTRUTURAIS DO JIB (kg)	
	LANÇA DE 3 SEÇÕES OU LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA	LANÇA DE 4 SEÇÕES COM A 4ª ESTENDIDA
60	1590	1588
55	1510	1508
50	1430	1429
45	1360	1361
40	1305	1304
35	1270	1270
30	1225	1225
25	1180	1179
20	1135	1134
15	1090	1089
10	1055	1055
5	1020	1021
0	1000	998

*Limite as capacidades a 5350 kg quando a terceira seção estiver qualquer tanto estendida.

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

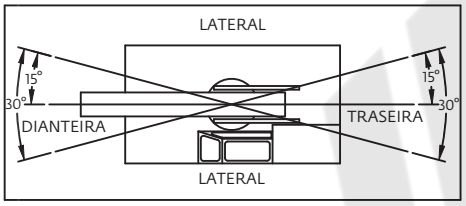

TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	64 kg	N/A
GANCHO E BOLA	45 kg	45 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	68 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 3850 kg	2 PERNAS 0 A 7710 kg
CABOS DE AÇO: diâmetro de 13 mm Resistência à ruptura mínima de 132,3 kN.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado somente pelo raio de operação. Qualquer combinação de comprimentos e ângulos de lança pode ser usada para obter o raio de operação. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 80% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são com os estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (6,9 bar). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5440 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Dimension • Dimensión • Dimensão

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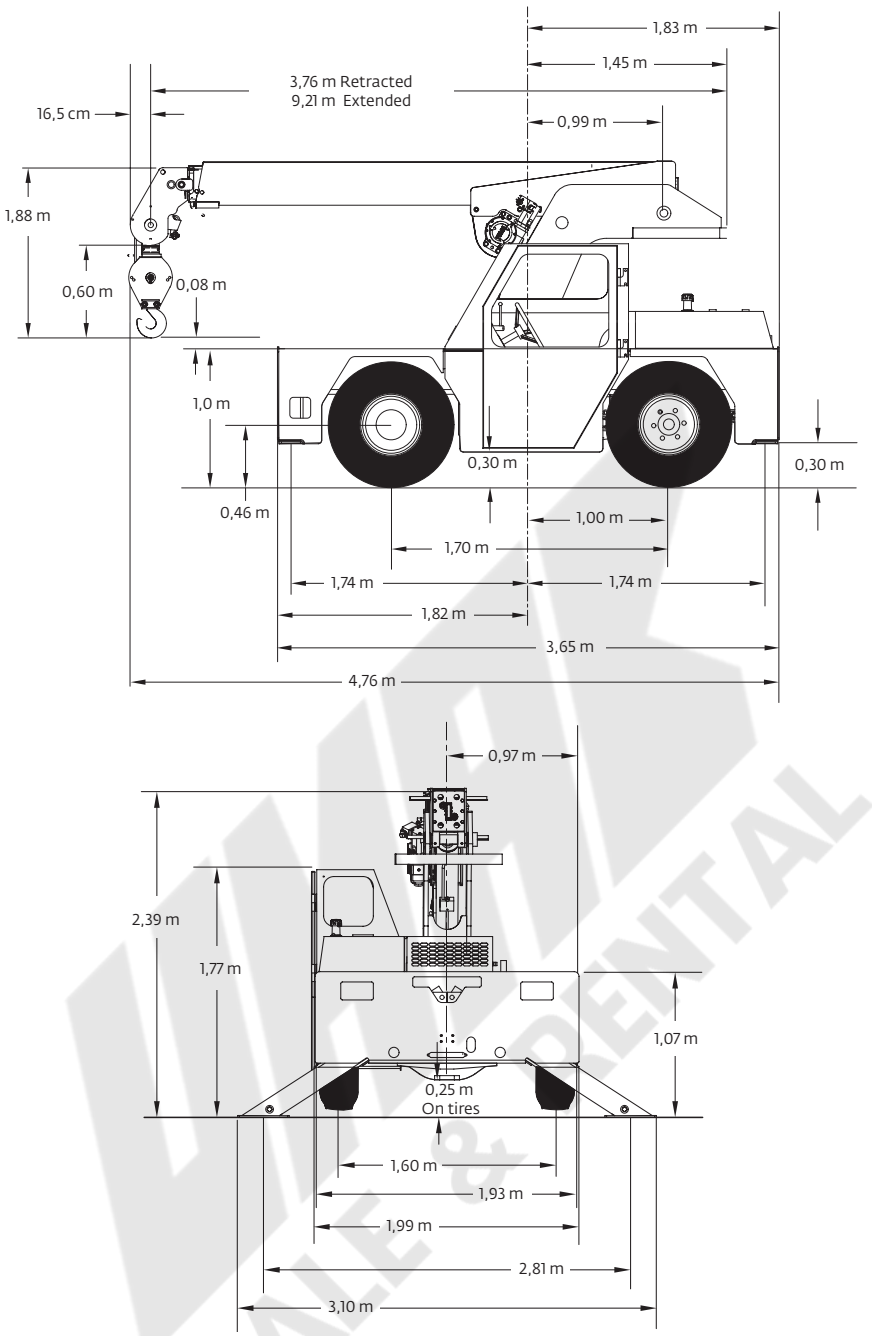

English	Español	Português do Brasil
Extended	Extendida	Estendida
On tires	Sobre neumáticos	Sobre os pneus
Retracted	Retraída	Retraída

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Turning radius • Radio de giro • Raio de curva

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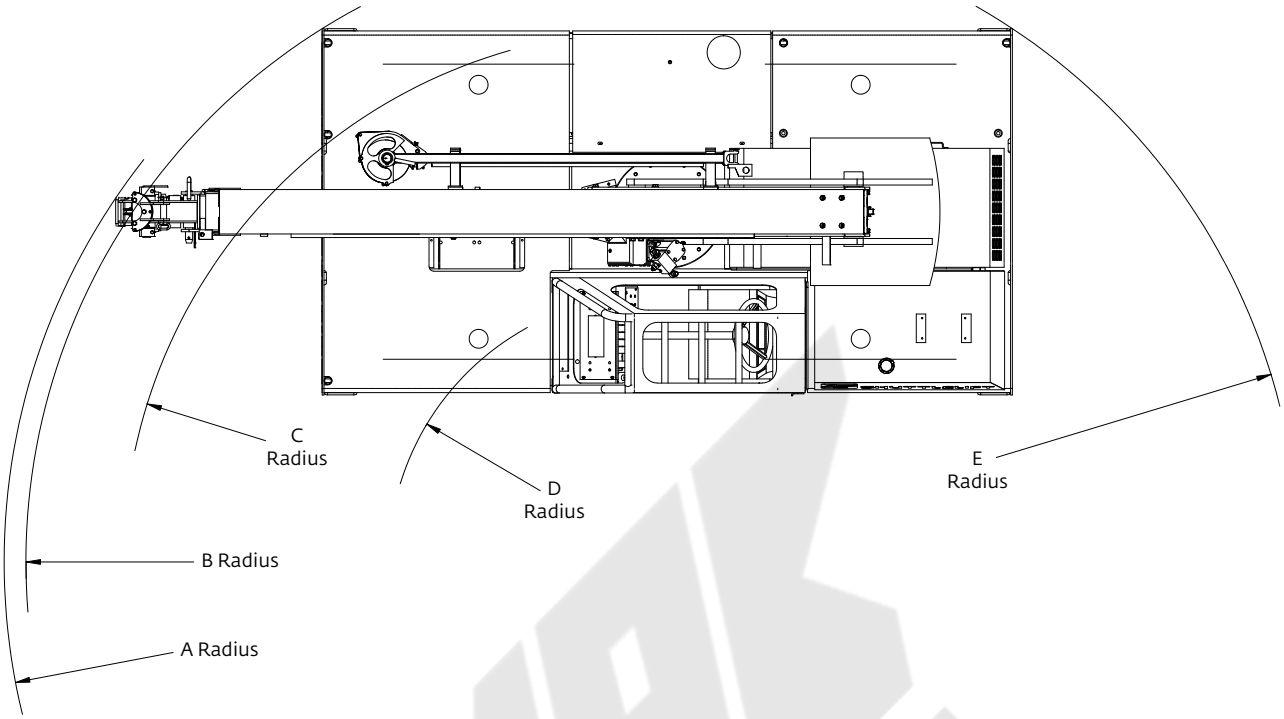

	A	B	C	D	E
Two-wheel steer • Dirección en dos ruedas • Direção em duas rodas	5131 mm	4737 mm	4636 mm	2718 mm	5525 mm
Four-wheel steer • Dirección en cuatro ruedas • Direção em quatro rodas	3683 mm	3645 mm	3188 mm	1473 mm	3569 mm

English	Español	Português do Brasil
A Radius	Radio A	Raio A
B Radius	Radio B	Raio B
C Radius	Radio C	Raio C
D Radius	Radio D	Raio D
E Radius	Radio E	Raio E
On tires	Sobre neumá-ticos	Sobre os pneus
Retracted	Retraída	Retraída
Extended	Extendida	Estendida

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Metric 85% range diagram • Diagrama de alcance de 85% - métrico • Diagrama de distância métrica de 85%

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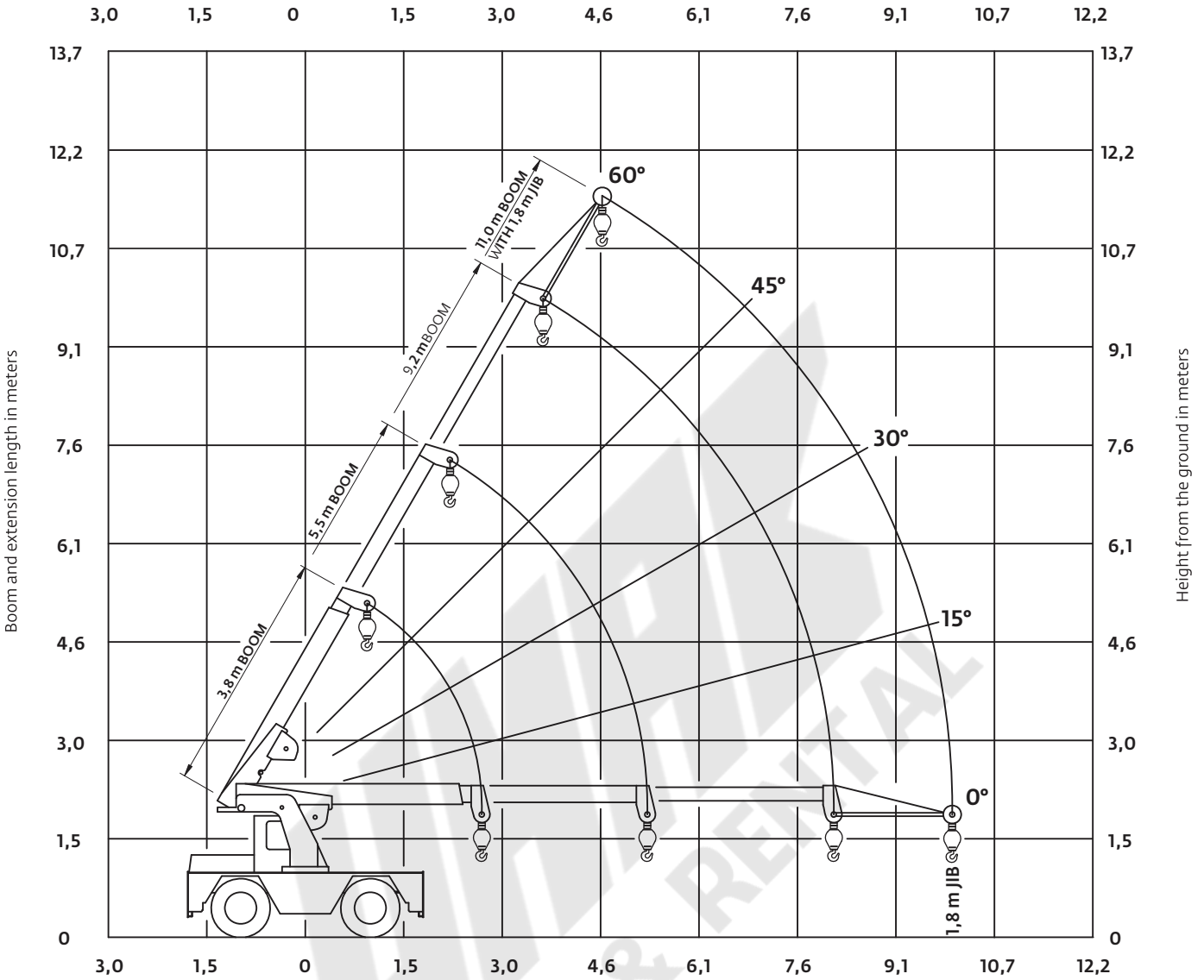

English	Español	Português do Brasil
BOOM	PLUMA	LANÇA
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação
WITH	CON	COM

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Metric 85% load chart

YB4409XL

Radius (m)	3-SECTION MAIN BOOM ON OUTRIGGERS (kg)	
	F/R	360°
1,5	7710	7710
1,8	7120	6530
2,4	5620	4900
3,0	4630	3860
3,7	3860	3150
4,3	3220	2630
4,9	2720	2110
5,5	2360	1720
6,1	2020	1430
6,7	1720	1220
7,3	1500	1070
7,9	1320	930
8,2	1250	870

Radius (m)	3-SECTION MAIN BOOM ON RUBBER (kg)	
	F/R	360°
1,5	4540	4540
1,8	4310	3720
2,4	3320	2320
3,0	2210	1580
3,7	1610	1160
4,3	1250	870
4,9	980	660
5,5	810	520
6,1	660	430
6,7	560	360
7,3	460	290
7,9	400	240
8,2	390	220

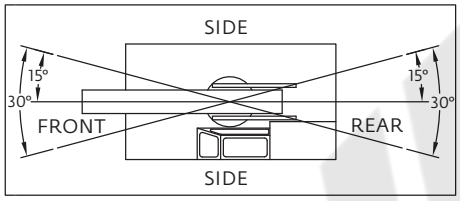
Radius (m)	3-SECTION MAIN BOOM W/1,8 m JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (kg)		ON RUBBER (kg)	
		F/R	360°	F/R	360°
5,0	60	1590	1590	910	590
5,5	57,5	1530	1530	810	520
6,1	53,5	1460	1430	660	430
6,7	49	1390	1220	560	360
7,3	44,5	1340	1070	460	290
7,9	39,5	1290	930	400	240
8,5	34	1190	830	360	190
9,1	27	1090	750	330	160
9,8	16,5	990	670	300	140
10,2	0	910	620	270	110

NOTES:

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

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

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



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

RIGGING CHART	
1-PART 0-3860 kg	2-PART 0-7710 kg
WIRE ROPE: 1/2 inch diameter Minimum breaking strength 13490 kg.	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

SALES INTERNATIONAL

Tabla de carga de 85% - métrico

YB4409XL

Radio (m)	PLUMA PRINCIPAL DE 3 SECCIONES SOBRE ESTABILIZADORES (kg)	
	D/T	360°
1,5	7710	7710
1,8	7120	6530
2,4	5620	4900
3,0	4630	3860
3,7	3860	3150
4,3	3220	2630
4,9	2720	2110
5,5	2360	1720
6,1	2020	1430
6,7	1720	1220
7,3	1500	1070
7,9	1320	930
8,2	1250	870

Radio (m)	PLUMA PRINCIPAL DE 3 SECCIONES SOBRE NEUMÁTICOS (kg)	
	D/T	360°
1,5	4540	4540
1,8	4310	3720
2,4	3320	2320
3,0	2210	1580
3,7	1610	1160
4,3	1250	870
4,9	980	660
5,5	810	520
6,1	660	430
6,7	560	360
7,3	460	290
7,9	400	240
8,2	390	220

Radio (m)	PLUMA PRINCIPAL DE 3 SECCIONES CON PLUMÍN DE 1,8 M DESPLEGADO				
	ÁNG. PLUMA CARGADA (grados)	SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)	
		D/T	360°	D/T	360°
5,0	60	1590	1590	910	590
5,5	57,5	1530	1530	810	520
6,1	53,5	1460	1430	660	430
6,7	49	1390	1220	560	360
7,3	44,5	1340	1070	460	290
7,9	39,5	1290	930	400	240
8,5	34	1190	830	360	190
9,1	27	1090	750	330	160
9,8	16,5	990	670	300	140
10,2	0	910	620	270	110

NOTAS:

MANEJE CON PLUMÍN SEGÚN EL RADIO CUANDO LA PLUMA PRINCIPAL ESTÁ COMPLETAMENTE EXTENDIDA Y SEGÚN EL ÁNGULO DE LA PLUMA CUANDO LA PLUMA PRINCIPAL ESTÁ PARCIALMENTE EXTENDIDA. NO EXCEDA LAS CAPACIDADES DEL PLUMÍN A NINGÚN LARGO DE PLUMA PARCIALMENTE EXTENDIDA.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL. NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

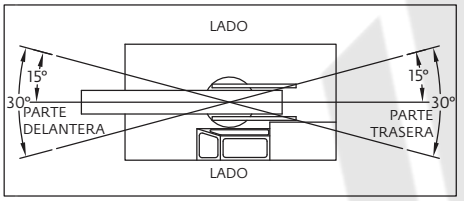


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	64 kg	N/C
GANCHO Y BOLA	48 kg	48 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	68 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-3850 kg	2 SECCIONES 0-7710 kg
CABLE: 1/2 pulg de diámetro Resistencia mínima a la rotura 13 490 kg.	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, el largo y el ángulo de la pluma. Para obtener el radio de trabajo se puede usar cualquier combinación de largos y ángulos de pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 85% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son con estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (100 psi). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5443 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

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Tabela de carga métrica de 85%

YB4409XL

Raio (m)	LANÇA PRINCIPAL DE 3 SEÇÕES SOBRE OS ESTABILIZADORES (kg)	
	D/T	360°
1,5	7710	7710
1,8	7120	6530
2,4	5620	4900
3,0	4630	3860
3,7	3860	3150
4,3	3220	2630
4,9	2720	2110
5,5	2360	1720
6,1	2020	1430
6,7	1720	1220
7,3	1500	1070
7,9	1320	930
8,2	1250	870

Raio (m)	LANÇA PRINCIPAL DE 3 SEÇÕES SOBRE OS PNEUS (kg)	
	D/T	360°
1,5	4540	4540
1,8	4310	3720
2,4	3320	2320
3,0	2210	1580
3,7	1610	1160
4,3	1250	870
4,9	980	660
5,5	810	520
6,1	660	430
6,7	560	360
7,3	460	290
7,9	400	240
8,2	390	220

Raio (m)	LANÇA PRINCIPAL DE 3 SEÇÕES COM JIB DE 1,8 M INSTALADO				
	ÂNGULO DA LANÇA CARREGADA (graus)	SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)	
		D/T	360°	D/T	360°
5,0	60	1590	1590	910	590
5,5	57,5	1530	1530	810	520
6,1	53,5	1460	1430	660	430
6,7	49	1390	1220	560	360
7,3	44,5	1340	1070	460	290
7,9	39,5	1290	930	400	240
8,5	34	1190	830	360	190
9,1	27	1090	750	330	160
9,8	16,5	990	670	300	140
10,2	0	910	620	270	110

NOTAS:
OPERE COM O JIB PELO RAIO QUANDO A LANÇA PRINCIPAL ESTIVER TOTALMENTE ESTENDIDA E PELO ÂNGULO DA LANÇA QUANDO A LANÇA PRINCIPAL ESTIVER PARCIALMENTE ESTENDIDA. NÃO EXCEDA AS CAPACIDADES DO JIB EM QUALQUER COMPRIMENTO DA LANÇA PARCIALMENTE ESTENDIDA.

AS ÁREAS SOMBREADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL. NÃO CONFIE NO TOMBAMENTO.

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSO E CANCELA A GARANTIA.

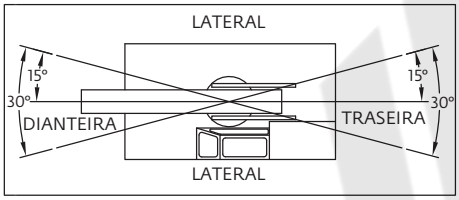

TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	64 kg	N/A
GANCHO E BOLA	48 kg	48 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	68 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 3850 kg	2 PERNAS 0 A 7710 kg
CABOS DE AÇO: 1/2 in de diâmetro Resistência à ruptura mínima de 13 490 kg.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado somente pelo raio de operação. Qualquer combinação de comprimentos e ângulos de lança pode ser usada para obter o raio de operação. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 85% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são com os estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (100 psi). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5443 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

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DIN/ISO range diagram • Diagrama de alcance DIN/ISO • Diagrama de distância DIN/ISO

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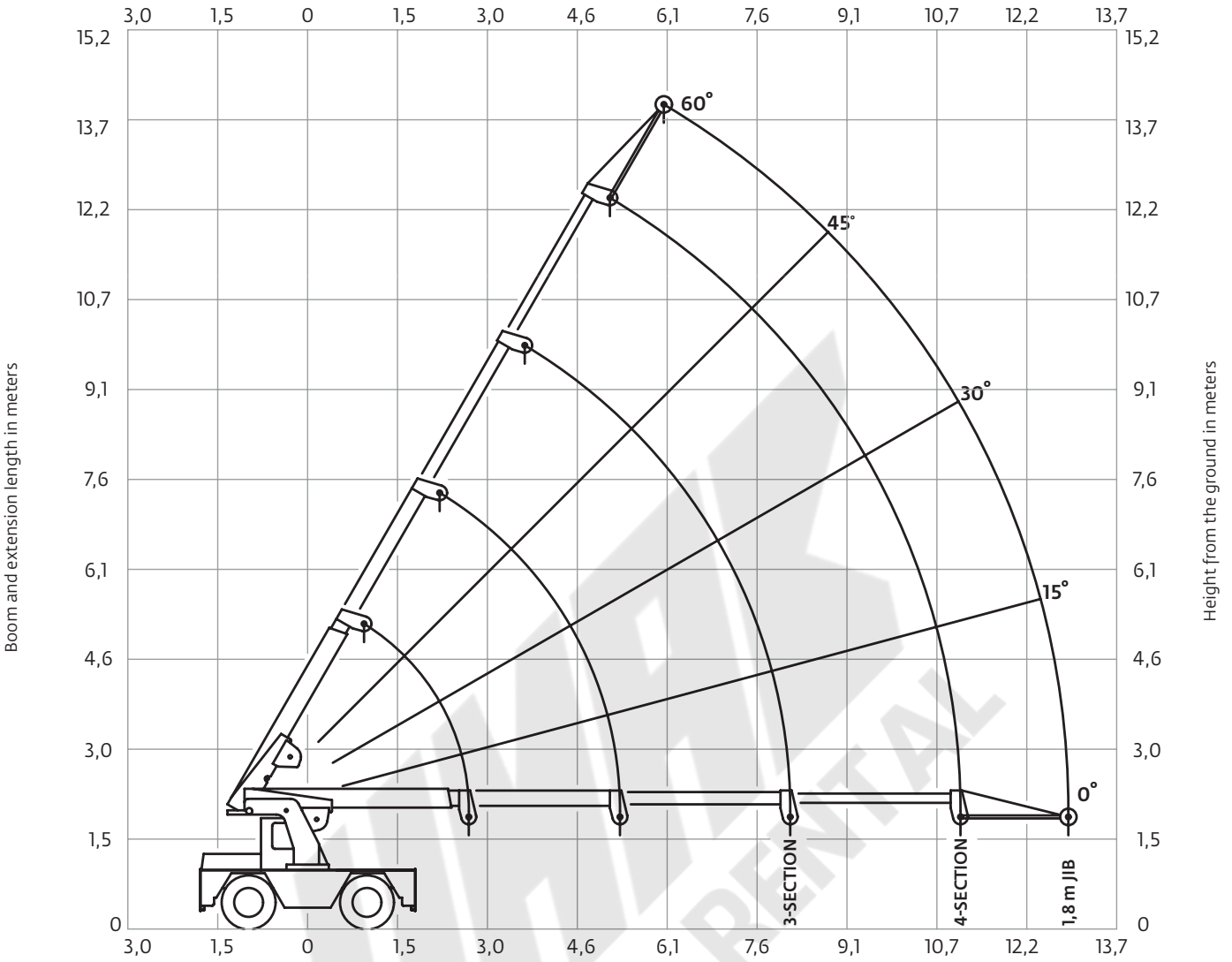

English	Español	Português do Brasil
1,8 m JIB	PLUMÍN DE 1,8 m	JIB 1,8 m
3-SECTION	3 SECCIONES	3 SEÇÕES
4-SECTION	4 SECCIONES	4 SEÇÕES
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação

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DIN/ISO load chart

YB4409XL

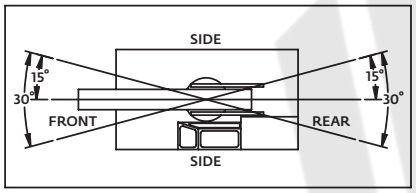
RADIUS (m)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (m)	4-SECTION BOOM WITH 4TH EXTENDED				
	ON OUTRIGGERS (kg)		ON RUBBER (kg)				ON OUTRIGGERS (kg)		ON RUBBER (kg)		
	F/R	360°	F/R	360°			F/R	360°	F/R	360°	
1,5	7710	7710	4535	4535		1,5	-	-	-	-	
1,8	7120	6530	4310	3720		1,8	-	-	-	-	
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	MAIN BOOM	3,7	1725	1725	1725	1450	MAIN BOOM
4,3	3220	2550	1200	830		4,3	1540	1540	1540	1130	
4,9	2720	1930	930	610		4,9	1405	1405	1270	900	
5,5	2360	1570	770	470		5,5	1315	1315	1040	720	
6,1	1850	1290	630	380		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		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	-	-	-	-	JIB	12,2	610	410	150	20	JIB
12,8	-	-	-	-		12,8	570	370	130	10	
13,1	-	-	-	-		13,1	540	350	120	0	

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

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

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

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



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

RIGGING CHART	
1-PART 0-3855 kg	2-PART 0-7710 kg
WIRE ROPE: 13 mm diameter Min. breaking strength 139,8 kN	

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 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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.

Tabla de carga DIN/ISO

YB4409XL

Radio (m)	PLUMA DE 3 SECCIONES O PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA					Radio (m)	PLUMA DE 4 SECCIONES CON LA 4a EXTENDIDA			
	SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)				SOBRE ESTABILIZADORES (kg)		SOBRE NEUMÁTICOS (kg)	
	D/T	360°	D/T	360°			D/T	360°	D/T	360°
1,5	7710	7710	4535	4535	PLUMA PRINCIPAL	1,5	-	-	-	-
1,8	7120	6530	4310	3720		1,8	-	-	-	-
2,4	5625	4900	3580	2490		2,4	2225	2225	2225	2225
3,0	4625	3855	2400	1670		3,0	1950	1950	1950	1880
3,7	3855	3150	1670	1170		3,7	1725	1725	1725	1450
4,3	3220	2550	1200	830		4,3	1540	1540	1540	1130
4,9	2720	1930	930	610		4,9	1405	1405	1270	900
5,5	2360	1570	770	470		5,5	1315	1315	1040	720
6,1	1850	1290	630	380		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		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	-	-	-	-	PLUMÍN	11,6	650	440	180	40
12,2	-	-	-	-		12,2	610	410	150	20
12,8	-	-	-	-		12,8	570	370	130	10
13,1	-	-	-	-		13,1	540	350	120	0

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)	
	PLUMA DE 3 SECCIONES O PLUMA DE 4 SECCIONES CON LA 4a RETRAÍDA	PLUMA DE 4 SECCIONES CON LA 4a EXTENDIDA
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

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

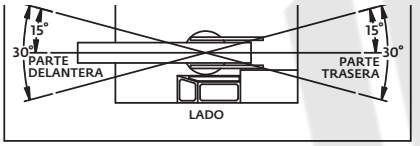


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	64 kg	N/C
GANCHO Y BOLA	45 kg	45 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	68 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-3855 kg	2 SECCIONES 0-7710 kg
CABLE: 13 mm de diámetro Resistencia mínima a la rotura 139,8 kN	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, el largo y el ángulo de la pluma. Para obtener el radio de trabajo se puede usar cualquier combinación de largos y ángulos de pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 80% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son con estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (6,9 bar). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5443 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga DIN/ISO

YB4409XL

Raio (m)	LANÇA DE 3 SEÇÕES OU LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA					Raio (m)	LANÇA DE 4 SEÇÕES COM A 4ª ESTENDIDA				
	SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)				SOBRE OS ESTABILIZADORES (kg)		SOBRE OS PNEUS (kg)		
	D/T	360°	D/T	360°			D/T	360°	D/T	360°	
1,5	7710	7710	4535	4535	LANÇA PRINCIPAL	1,5	-	-	-	-	
1,8	7120	6530	4310	3720		1,8	-	-	-	-	
2,4	5625	4900	3580	2490		2,4	2225	2225	2225	2225	
3,0	4625	3855	2400	1670		3,0	1950	1950	1950	1880	
3,7	3855	3150	1670	1170		3,7	1725	1725	1725	1450	
4,3	3220	2550	1200	830		4,3	1540	1540	1540	1130	
4,9	2720	1930	930	610		4,9	1405	1405	1270	900	
5,5	2360	1570	770	470		5,5	1315	1315	1040	720	
6,1	1850	1290	630	380		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		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	-	-	-	-	JIB	11,6	650	440	180	40	
12,2	-	-	-	-		12,2	610	410	150	20	
12,8	-	-	-	-		12,8	570	370	130	10	
13,1	-	-	-	-		13,1	540	350	120	0	

ÂNGULO DA LANÇA PRINCIPAL (graus)	JIB STRUCTURAL CAPACITIES (kg)	
	LANÇA DE 3 SEÇÕES OU LANÇA DE 4 SEÇÕES COM A 4ª RETRAÍDA	LANÇA DE 4 SEÇÕES COM A 4ª ESTENDIDA
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

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

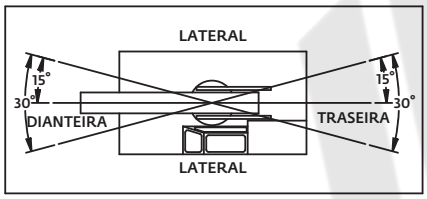


TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	64 kg	N/A
GANCHO E BOLA	45 kg	45 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	68 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 3855 kg	2 PERNAS 0 A 7710 kg
CABOS DE AÇO: diâmetro de 13 mm Resistência à ruptura mínima de 139,8 kN.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado somente pelo raio de operação. Qualquer combinação de comprimentos e ângulos de lança pode ser usada para obter o raio de operação. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 80% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são com os estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (6,9 bar). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

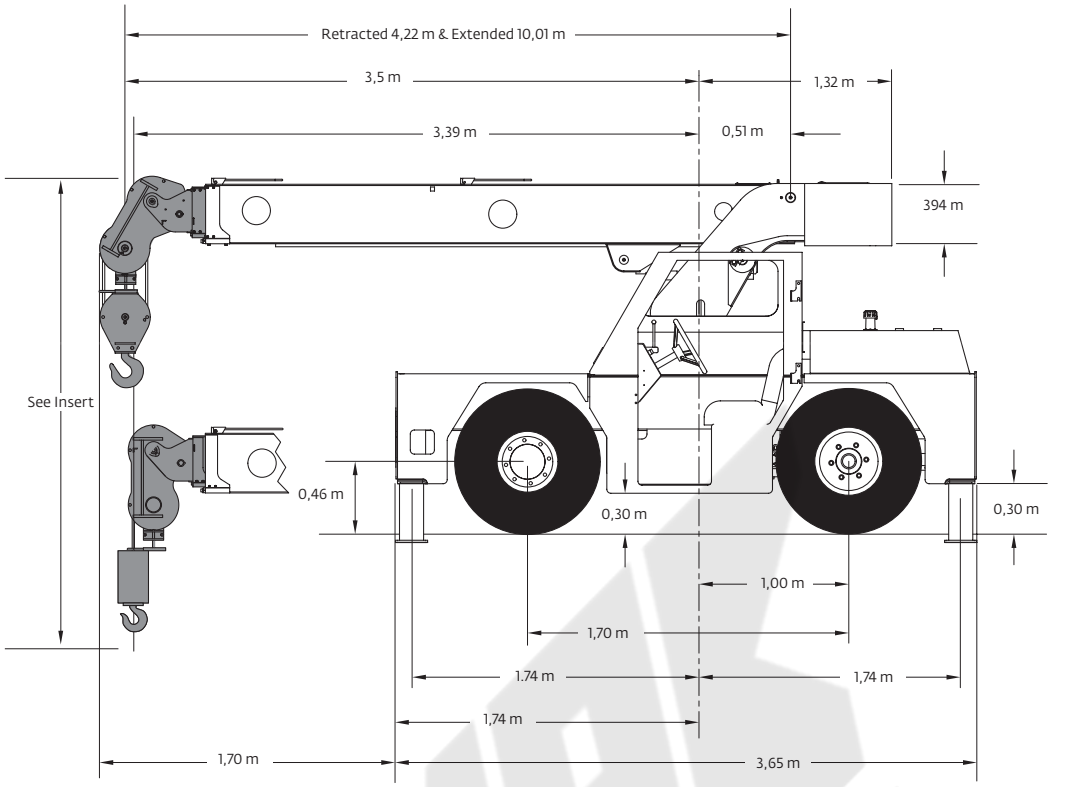
7) A carga máxima total combinada da lança e do tabuleiro é 5443 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

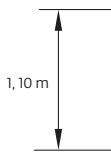
ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Dimensions • Dimensiones • Dimensões

YB4409-2

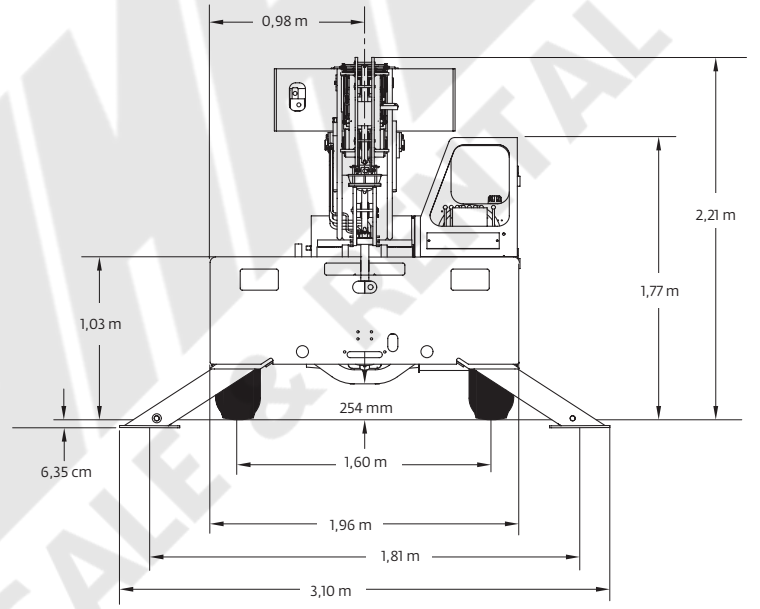


Dimensions are with boom horizontal and the anti-two block bottomed.



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

Boom head position can only be used with a down haul block.



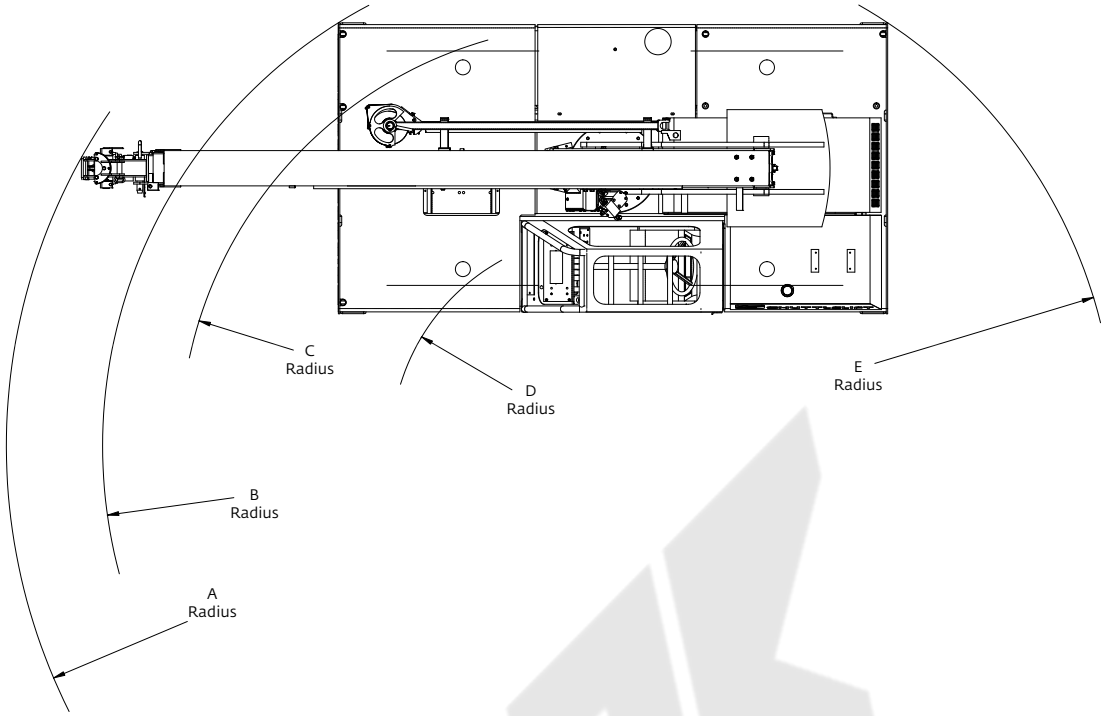
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Turning radius • Radio de giro • Raio de curva

YB4409-2



	A	B	C	D	E
Two-wheel steer • Dirección en dos ruedas • Direção em duas roda	4674 mm	4737 mm	4636 mm	2718 mm	5525 mm
Four-wheel steer • Dirección en cuatro ruedas • Direção em quatro rodas	4267 mm	3645 mm	3188 mm	1473 mm	3569 mm

English	Español	Português do Brasil
A Radius	Radio A	Raio A
B Radius	Radio B	Raio B
C Radius	Radio C	Raio C
D Radius	Radio D	Raio D
E Radius	Radio E	Raio E
On tires	Sobre neumáticos	Sobre os pneus
Retracted	Retraída	Retraída
Extended	Extendida	Estendida
See insert	Vea el recuadro	Consulte o detalhe
Dimensions are with the boom horizontal and the anti-two block bottomed.	Las dimensiones son con la pluma horizontal y el dispositivo de prevención del contacto entre bloques bajado.	As dimensões horizontais são com a lança horizontal e com o dispositivo anticolisão do moitão abaixado.
Boom head position can only be used with a down haul block.	La posición de cabeza de pluma solamente se puede usar con una pesa de gancho.	A posição da cabeça da lança pode somente ser usada com um peso de moitão de gancho.

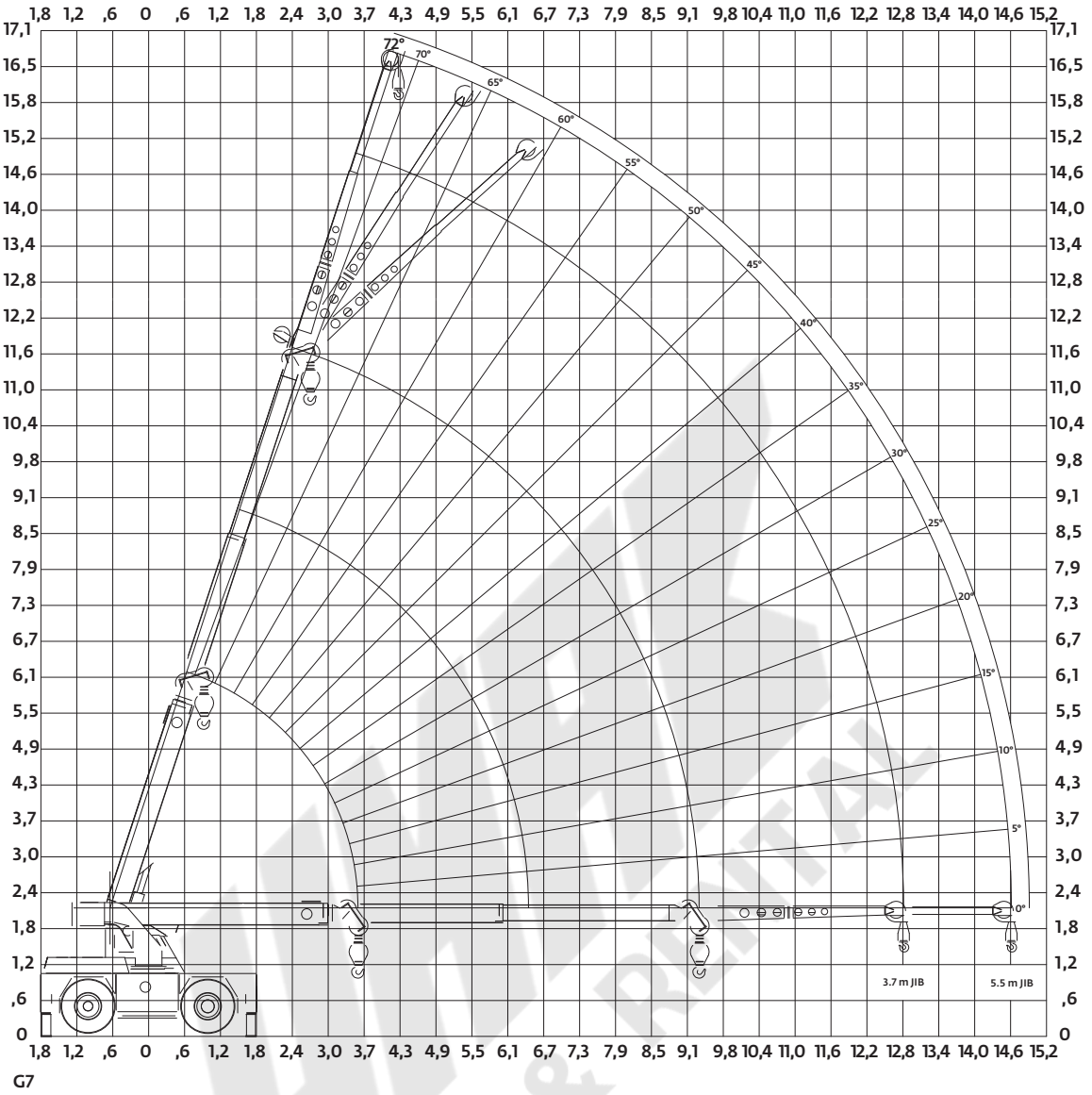
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Metric 85% range diagram • Diagrama de alcance de 85% - métrico • Diagrama de distância métrica de 85%

YB4409-2



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

English	Español	Português do Brasil
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
JIB	PLUMÍN	JIB
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação

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.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

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A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Metric 85% load chart

YB4409-2

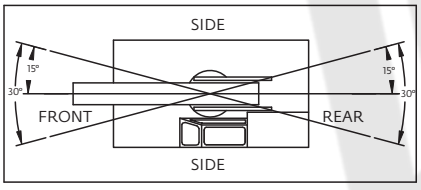
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,5	8165	6670	8165	6670	5215	4265
	1,8	7120	6530	6805	6530	4535	3400
	2,4	5535	5535	5170	5170	3675	2285
	3,0	4625	4625	4130	4130	2485	1600
	3,7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

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

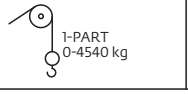
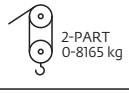
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

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



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

RIGGING CHART	
 1-PART 0-4540 kg	 2-PART 0-8165 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 155,7 kN.	

1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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.

Tabla de carga de 85% - métrico

YB4409-2

	RADIO (m)	SOBRE ESTABILIZADORES (kg)				SOBRE NEUMÁTICOS (kg)	
		D/T		360°		D/T	360°
		PLUMA RETRAÍDA	PLUMA EXTENDIDA	PLUMA RETRAÍDA	PLUMA EXTENDIDA	CUALQUIER PLUMA	CUALQUIER PLUMA
PLUMA PRINCIPAL	1,5	8165	6670	8165	6670	5215	4265
	1,8	7120	6530	6805	6530	4535	3400
	2,4	5535	5535	5170	5170	3675	2285
	3,0	4625	4625	4130	4130	2485	1600
	3,7	3810	3810	3450	3450	1780	1175
	4,3	-	3265	-	2950	1380	895
	4,9	-	2810	-	2410	1100	705
	5,5	-	2450	-	1970	895	565
	6,1	-	2190	-	1640	745	460
	6,7	-	1815	-	1375	620	385
	7,3	-	1580	-	1175	525	320
	7,9	-	1370	-	1020	450	270
	8,5	-	1215	-	910	375	220
	9,4	-	1030	-	790	295	165
PLUMÍN	10,4	-	890	-	680	230	115
	11,0	-	800	-	610	195	80
	11,6	-	720	-	545	160	60
	12,2	-	645	-	475	125	35
	12,8	-	575	-	420	95	30
	13,4	-	545	-	400	85	20
	14,0	-	525	-	370	80	10
	14,6	-	505	-	345	65	0

ÁNGULO DE PLUMA PRINCIPAL (grados)	CAPACIDADES ESTRUCTURALES DEL PLUMÍN (kg)					
	PLUMÍN DE 3,7 m			PLUMÍN DE 5,5 m		
	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°
72	3400	2315	1590	1815	1500	1045
70	3175	2180	1540	1700	1405	1000
65	2585	1860	1405	1450	1225	910
60	2040	1590	1270	1270	1090	840
55	1590	1360	1155	1110	975	770
50	1270	1135	1045	975	885	725
45	1045	1000	910	860	795	680
40	910	860	815	770	725	635
35	805	760	725	690	660	610
30	725	680	635	635	590	590
25	660	635	-	580	545	-
20	610	610	-	530	510	-
15	590	590	-	500	500	-
10	580	-	-	475	-	-
5	555	-	-	465	-	-
0	545	-	-	455	-	-

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

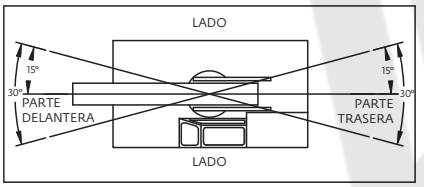


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	60 kg	N/C
GANCHO Y BOLA	45 kg	45 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	200 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-4540 kg	2 SECCIONES 0-8165 kg
CABLE: 14 mm de diámetro Resistencia mínima a la rotura 155,7 kN	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, la extensión y el ángulo de la pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 85% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son con estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (6,9 bar). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5440 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga métrica de 85%

YB4409-2

	RAIO (m)	SOBRE OS ESTABILIZADORES (kg)				SOBRE OS PNEUS (kg)	
		D/T		360°		D/T	360°
		LANÇA RETRAÍDA	LANÇA ESTENDIDA	LANÇA RETRAÍDA	LANÇA ESTENDIDA	QUALQUER LANÇA	QUALQUER LANÇA
LANÇA PRINCIPAL	1,5	8165	6670	8165	6670	5215	4265
	1,8	7120	6530	6805	6530	4535	3400
	2,4	5535	5535	5170	5170	3675	2285
	3,0	4625	4625	4130	4130	2485	1600
	3,7	3810	3810	3450	3450	1780	1175
	4,3	-	3265	-	2950	1380	895
	4,9	-	2810	-	2410	1100	705
	5,5	-	2450	-	1970	895	565
	6,1	-	2190	-	1640	745	460
	6,7	-	1815	-	1375	620	385
	7,3	-	1580	-	1175	525	320
	7,9	-	1370	-	1020	450	270
	8,5	-	1215	-	910	375	220
	9,4	-	1030	-	790	295	165
JIB	10,4	-	890	-	680	230	115
	11,0	-	800	-	610	195	80
	11,6	-	720	-	545	160	60
	12,2	-	645	-	475	125	35
	12,8	-	575	-	420	95	30
	13,4	-	545	-	400	85	20
	14,0	-	525	-	370	80	10
	14,6	-	505	-	345	65	0

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

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

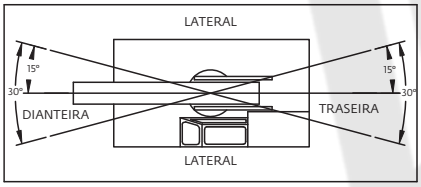


TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	60 kg	N/A
GANCHO E BOLA	45 kg	45 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	200 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 4540 kg	2 PERNAS 0 A 8165 kg
CABOS DE AÇO: diâmetro de 14 mm Resistência à ruptura mínima de 155,7 kN.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado pelo raio de operação, extensão da lança e ângulo da lança. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 85% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são com os estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (6,9 bar). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5440 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

DIN/ISO range diagram • Diagrama de alcance DIN/ISO • Diagrama de distância DIN/ISO

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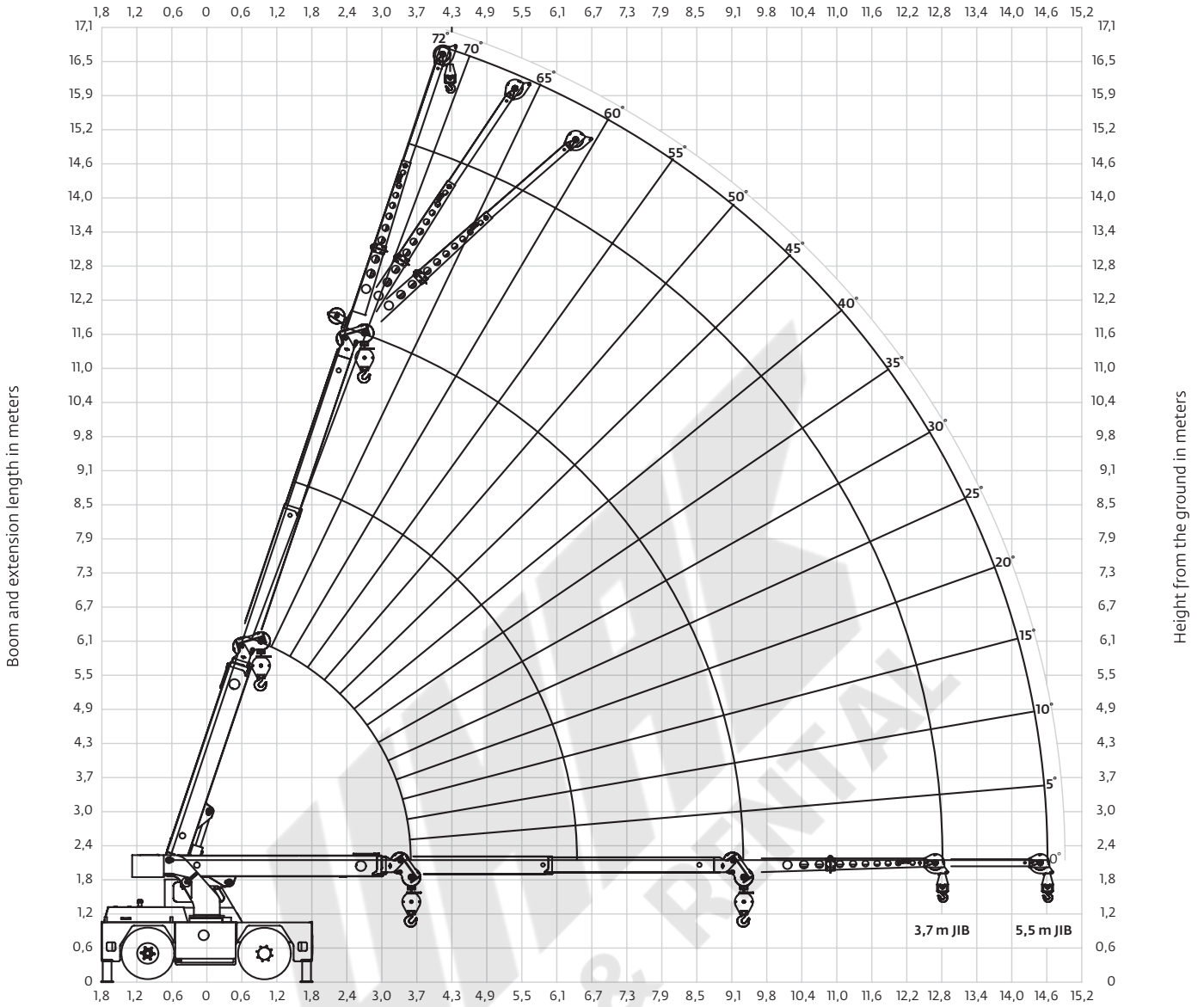


Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

English	Español	Português do Brasil
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
JIB	PLUMÍN	JIB
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação

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.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

DIN/ISO load chart

YB4409-2

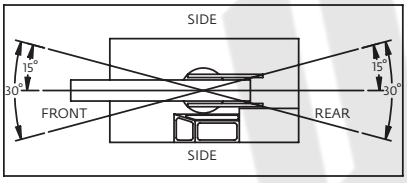
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6800	6530	4540	3360
	2,4	5530	5530	5170	5170	3670	2240
	3,0	4630	4630	4130	4130	2440	1550
	3,7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

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

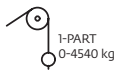
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

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



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

RIGGING CHART	
 1-PART 0-4540 kg	2-PART 0-8160 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 161,3 kN	

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.

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.

Tabla de carga DIN/ISO

YB4409-2

	RADIO (m)	SOBRE ESTABILIZADORES (kg)				SOBRE NEUMÁTICOS (kg)	
		D/T		360°		D/T	360°
		PLUMA RETRAÍDA	PLUMA EXTENDIDA	PLUMA RETRAÍDA	PLUMA EXTENDIDA	CUALQUIER PLUMA	CUALQUIER PLUMA
PLUMA PRINCIPAL	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6800	6530	4540	3360
	2,4	5530	5530	5170	5170	3670	2240
	3,0	4630	4630	4130	4130	2440	1550
	3,7	3810	3810	3450	3450	1730	1130
	4,3	-	3270	-	2800	1330	840
	4,9	-	2810	-	2220	1050	660
	5,5	-	2450	-	1800	850	520
	6,1	-	2010	-	1490	700	420
	6,7	-	1670	-	1250	570	340
	7,3	-	1430	-	1060	480	280
	7,9	-	1240	-	910	400	220
	8,5	-	1090	-	810	330	170
	9,4	-	920	-	690	250	120
PLUMÍN	10,4	-	780	-	590	180	70
	11,0	-	710	-	530	150	40
	11,6	-	630	-	460	110	10
	12,2	-	560	-	400	80	0
	12,8	-	490	-	350	50	0
	13,4	-	460	-	320	40	0
	14,0	-	440	-	300	30	0
	14,6	-	430	-	270	20	0

ÁNGULO DE PLUMA PRINCIPAL (grados)	CAPACIDADES ESTRUCTURALES DEL PLUMÍN (kg)					
	PLUMÍN DE 3,7 m			PLUMÍN DE 5,5 m		
	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°
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	-	-

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

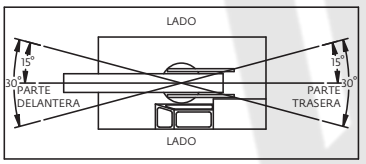


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	60 kg	N/C
GANCHO Y BOLA	45 kg	45 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	200 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-4540 kg	2 SECCIONES 0-8160 kg
CABLE: 14 mm de diámetro Resistencia mínima a la rotura 161,3 kN	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, la extensión y el ángulo de la pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 80% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son para estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (700 kPA). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 1,4 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5440 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga DIN/ISO

YB4409-2

	RAIO (m)	SOBRE OS ESTABILIZADORES (kg)				SOBRE OS PNEUS (kg)	
		D/T		360°		D/T	360°
		LANÇA RETRAÍDA	LANÇA ESTENDIDA	LANÇA RETRAÍDA	LANÇA ESTENDIDA	QUALQUER LANÇA	QUALQUER LANÇA
LANÇA PRINCIPAL	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6800	6530	4540	3360
	2,4	5530	5530	5170	5170	3670	2240
	3,0	4630	4630	4130	4130	2440	1550
	3,7	3810	3810	3450	3450	1730	1130
	4,3	-	3270	-	2800	1330	840
	4,9	-	2810	-	2220	1050	660
	5,5	-	2450	-	1800	850	520
	6,1	-	2010	-	1490	700	420
	6,7	-	1670	-	1250	570	340
	7,3	-	1430	-	1060	480	280
	7,9	-	1240	-	910	400	220
	8,5	-	1090	-	810	330	170
	9,4	-	920	-	690	250	120
JIB	10,4	-	780	-	590	180	70
	11,0	-	710	-	530	150	40
	11,6	-	630	-	460	110	10
	12,2	-	560	-	400	80	0
	12,8	-	490	-	350	50	0
	13,4	-	460	-	320	40	0
	14,0	-	440	-	300	30	0
	14,6	-	430	-	270	20	0

ÂNGULO DA LANÇA PRINCIPAL (graus)	CAPACIDADES ESTRUTURAIS DO JIB (kg)					
	JIB 3,7 m			JIB 5,5 m		
	DESLOCAMENTO DE 0°	DESLOCAMENTO DE 15°	DESLOCAMENTO DE 30°	DESLOCAMENTO DE 0°	DESLOCAMENTO DE 15°	DESLOCAMENTO DE 30°
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	-	-

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

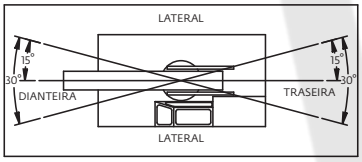


TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	60 kg	N/A
GANCHO E BOLA	45 kg	45 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	200 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 4540 kg	2 PERNAS 0 A 8160 kg
CABOS DE AÇO: diâmetro de 14 mm Resistência à ruptura mínima de 161,3 kN.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado pelo raio de operação, extensão da lança e ângulo da lança. O raio de operação é a distância horizontal desde uma projeção do eixo de rotação até a superfície de suporte, antes de instalar a carga até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 80% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do pessoal e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são para estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (700 kPa). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 1,4 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5440 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

Dimensions • Dimensiones • Dimensões

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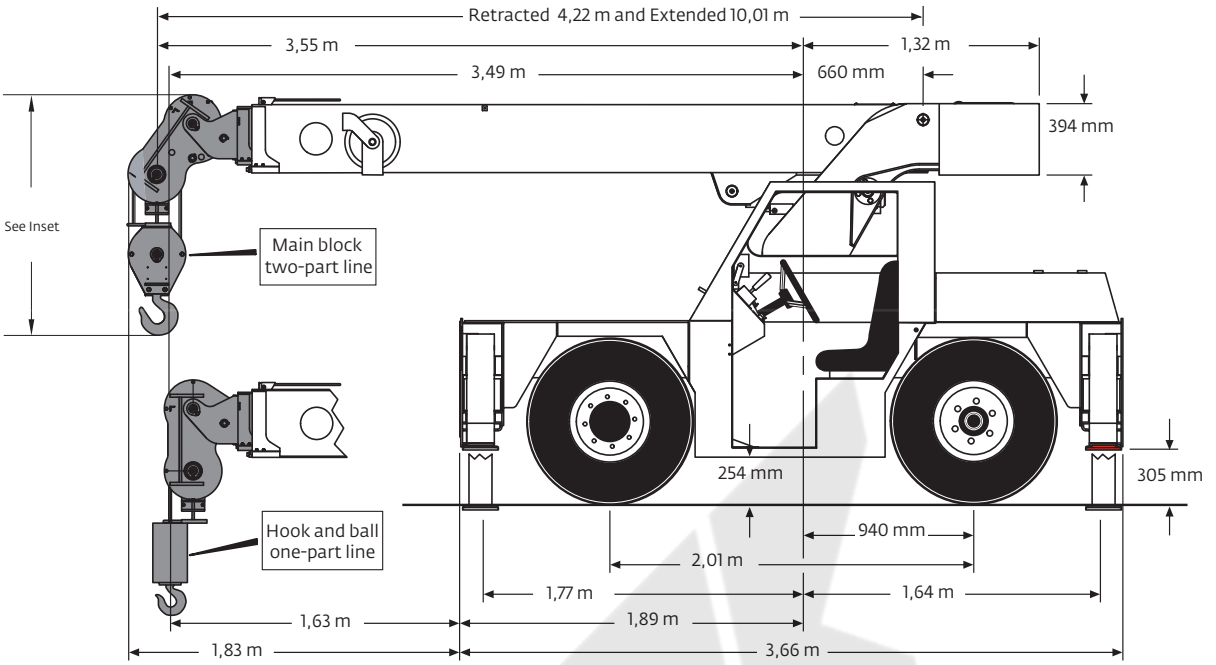

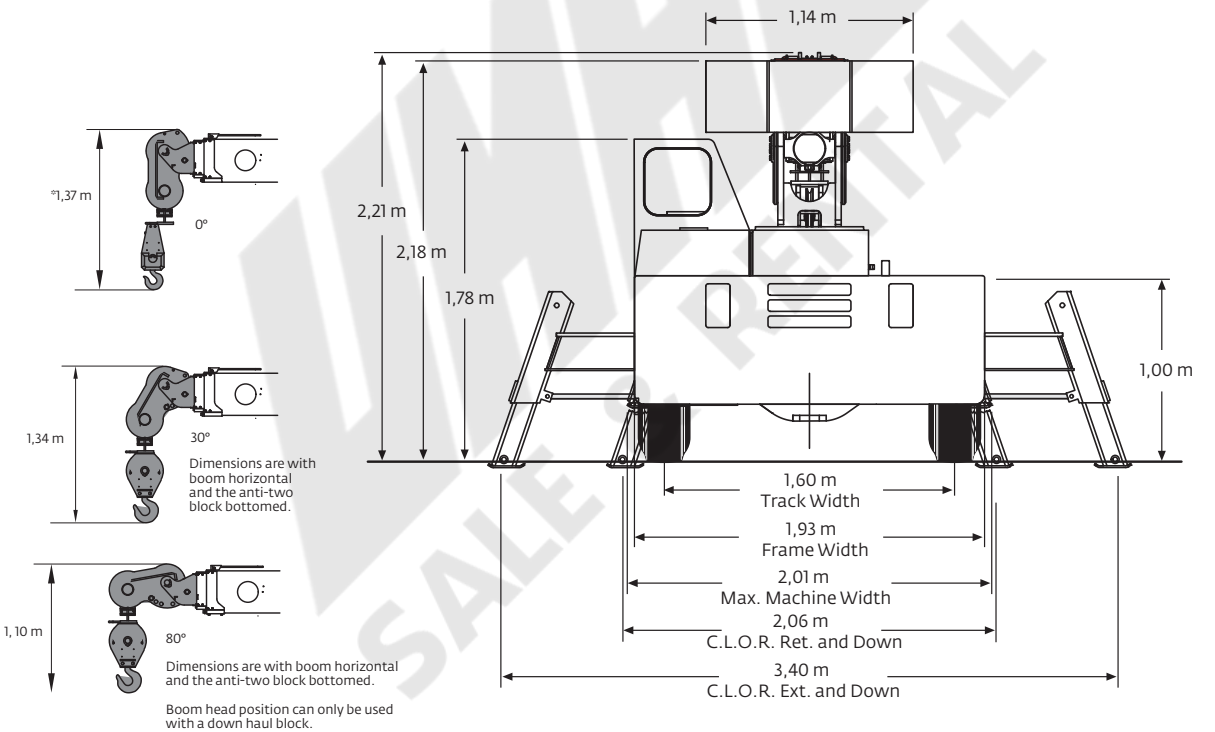

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Turning radius • Radio de giro • Raio de curva

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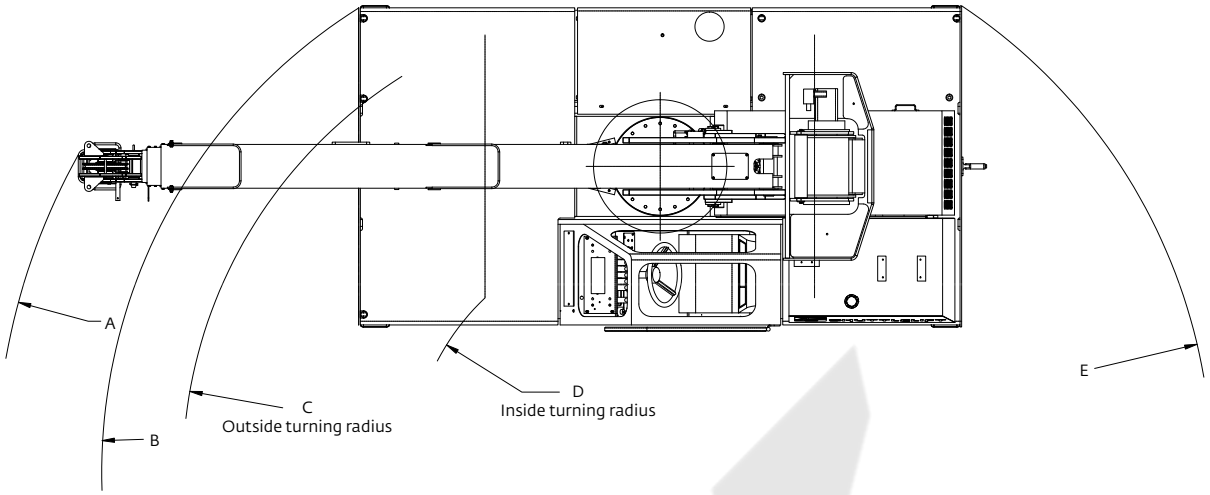

	A	B	C	D	E
Two-wheel steer • Dirección en dos ruedas • Direção em duas rodas	4759 mm	4482 mm	4080 mm	2556 mm	4522 mm
Four-wheel steer • Dirección en cuatro ruedas • Direção em quatro rodas	3990 mm	3346 mm	2853 mm	1470 mm	3416 mm

English	Español	Português do Brasil
C.L.O.R. extended and down	Estab. izq. centrado extendido y bajado	Linha de centro dos estab. estendida e abaixada
C.L.O.R. retracted and down	Estab. izq. centrado retraído y bajado	Linha de centro dos estab. retraída e abaixada
Dimensions are with the boom horizontal and the anti-two block bottomed. Boom head position can only be used with a down haul block.	Las dimensiones son con la pluma horizontal y el dispositivo de prevención del contacto entre bloques bajado. La posición de cabeza de pluma solamente se puede usar con una pesa de gancho.	As dimensões horizontais são com a lança horizontal e com o dispositivo anticolisão do moitão abaixado. A posição da cabeça da lança pode somente ser usada com um peso de moitão de gancho.
Extended	Extendida	Estendida
Frame width	Ancho de bastidor	Largura da estrutura
Hook and ball one-part line	Gancho y bola, cable sencillo	Uma perna de cabo no gancho e bola
Inside turning radius	Radio de giro interior	Raio de curva interno
Main block two-part line	Bloque principal, cable de dos secciones	Duas pernas de cabo no moitão principal
Maximum machine width	Ancho máximo de la máquina	Largura máxima da máquina
On tires	Sobre neumáticos	Sobre os pneus
Outside turning radius	Radio de giro exterior	Raio de curva externo
Retracted	Retraída	Retraída
See insert	Vea el recuadro	Consulte o detalhe
Track width	Ancho de oruga	Largura da esteira

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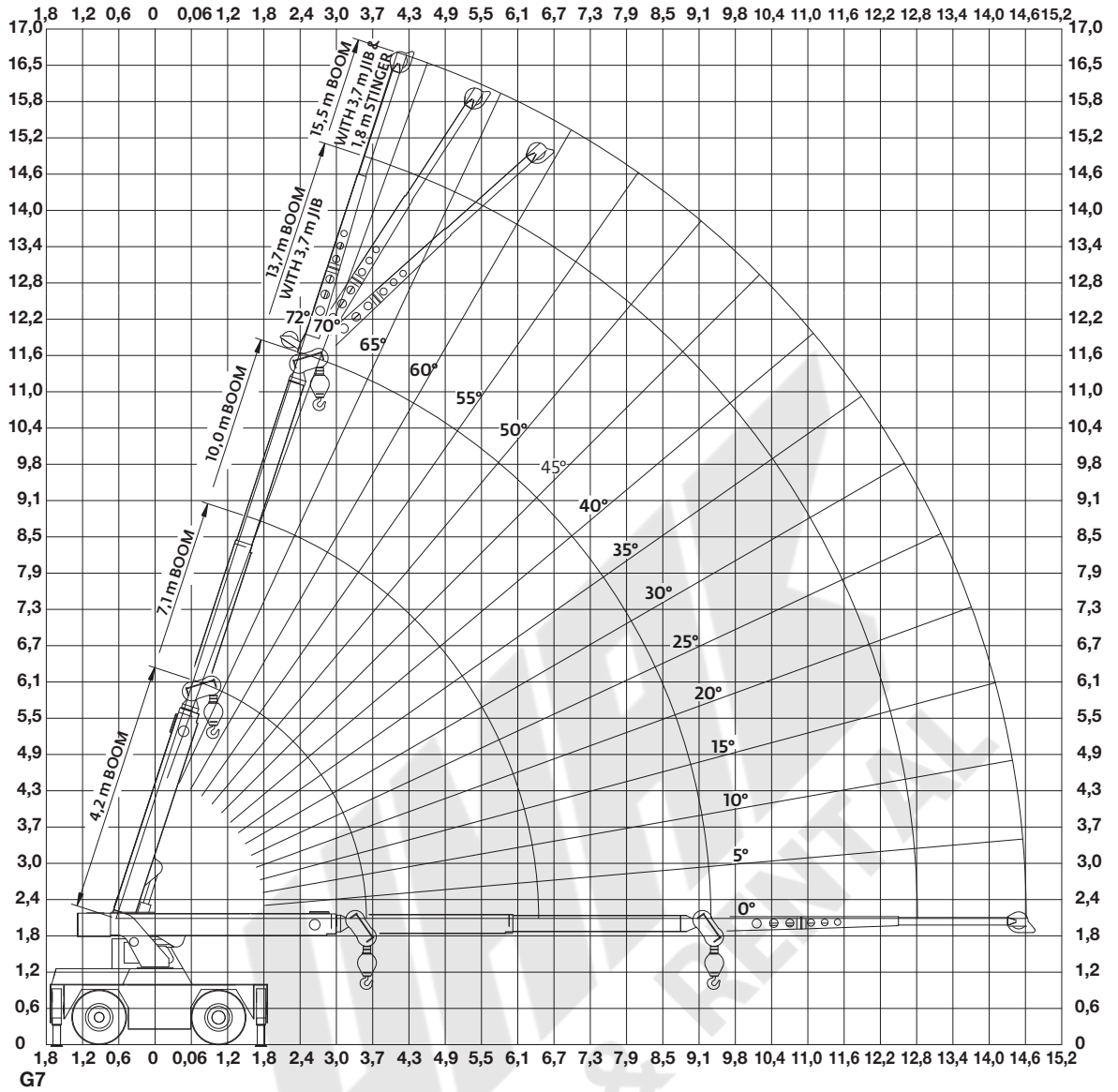
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

Metric 85% range diagram • Diagrama de alcance de 85% - métrico • Diagrama de distância métrica de 85%

YB4411



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

English	Español	Português do Brasil
BOOM	PLUMA	LANÇA
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação
with 3,7 M JIB and 1,8 m STINGER	con PLUMÍN de 3,7 m y REMOLQUE de 1,8 m	com jib de 3,7 m e seção volante de 1,8 m

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Metric 85% load chart

YB4411

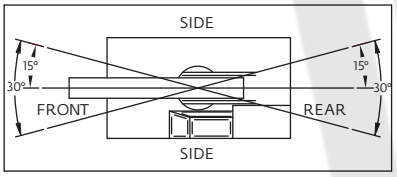
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		EXTENDED 360° RETRACTED F/R		RETRACTED 360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,2	9530	6800	8900	6340	5220	5220
	1,5	8160	6670	7620	6210	5220	4260
	1,8	7120	6530	6080	6080	4540	3540
	2,4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

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)					
	3,7 m JIB			5,5 m JIB		
	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET
72	3400	2310	1590	1810	1500	1040
70	3180	2180	1540	1700	1410	1000
65	2590	1860	1400	1450	1220	910
60	2040	1590	1270	1270	1090	840
55	1590	1360	1160	1110	980	770
50	1270	1130	1040	980	880	730
45	1040	1000	910	860	793	680
40	1000	860	820	770	730	640
35	800	760	730	690	660	610
30	730	680	640	640	590	590
25	660	640	-	580	540	-
20	610	610	-	530	510	-
15	590	590	-	500	500	-
10	580	-	-	480	-	-
5	560	-	-	460	-	-
0	540	-	-	450	-	-

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

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

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



REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	66 kg	N/A
HOOK & BALL	48 kg	48 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	200 kg	0 kg

RIGGING CHART	
1-PART 0-4540 kg	2-PART 0-9530 kg
WIRE ROPE: 14 mm diameter Min. breaking strength = 16,670 kg.	

1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. Retracted outrigger rated loads meet ASME B30.5-2004. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (125 psi). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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Tabla de carga de 85% - métrico

YB4411

	RADIO (m)	SOBRE ESTABILIZADORES (kg)				SOBRE NEUMÁTICOS (kg)	
		EXTENDIDOS 360° RETRAÍDOS D/T		RETRAÍDOS 360°		D/T	360°
		PLUMA RETRAÍDA	PLUMA EXTENDIDA	PLUMA RETRAÍDA	PLUMA EXTENDIDA	CUALQUIER PLUMA	CUALQUIER PLUMA
PLUMA PRINCIPAL	1,2	9530	6800	8900	6340	5220	5220
	1,5	8160	6670	7620	6210	5220	4260
	1,8	7120	6530	6080	6080	4540	3540
	2,4	5530	5530	3950	3950	3450	2540
	3,0	4630	4630	2790	2790	2350	1760
	3,7	3810	3810	2060	2060	1750	1300
	4,3	-	3220	-	1550	1360	1020
	4,9	-	2720	-	1260	1090	820
	5,5	-	2270	-	1040	900	670
	6,1	-	1950	-	830	750	540
	6,7	-	1680	-	700	640	450
	7,3	-	1500	-	580	540	390
	7,9	-	1320	-	490	460	320
	8,5	-	1180	-	430	400	270
	9,4	-	1040	-	360	320	200
PLUMÍN	10,3	-	900	-	290	270	350
	10,9	-	800	-	250	230	160
	11,5	-	710	-	200	180	90
	12,1	-	650	-	160	140	60
	12,8	-	590	-	110	90	-
	13,4	-	540	-	90	70	-
	14,0	-	500	-	80	-	-
	14,6	-	450	-	70	-	-

ÁNGULO DE PLUMA PRINCIPAL (grados)	CAPACIDADES ESTRUCTURALES DEL PLUMÍN (kg)					
	PLUMÍN DE 3,7 m			PLUMÍN DE 5,5 m		
	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°
72	3400	2310	1590	1810	1500	1040
70	3180	2180	1540	1700	1410	1000
65	2590	1860	1400	1450	1220	910
60	2040	1590	1270	1270	1090	840
55	1590	1360	1160	1110	980	770
50	1270	1130	1040	980	880	730
45	1040	1000	910	860	793	680
40	1000	860	820	770	730	640
35	800	760	730	690	660	610
30	730	680	640	640	590	590
25	660	640	-	580	540	-
20	610	610	-	530	510	-
15	590	590	-	500	500	-
10	580	-	-	480	-	-
5	560	-	-	460	-	-
0	540	-	-	450	-	-

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

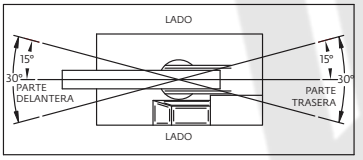

TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	66 kg	N/C
GANCHO Y BOLA	48 kg	48 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	200 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-4540 kg	2 SECCIONES 0-9530 kg
CABLE: 14 mm de diámetro Resistencia mínima a la rotura 13 490 kg.	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, la extensión y el ángulo de la pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 85% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Las cargas nominales con los estabilizadores retraídos cumplen con la norma de ASME B30.5-2004. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son para estabilizadores completamente extendidos y bajados o completamente retraídos y bajados. Las capacidades nominales para estabilizadores completamente retraídos y bajados se aplican para toda posición de estabilizador intermedia.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (125 psi). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5440 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga métrica de 85%

YB4411

	RAIO (m)	SOBRE OS ESTABILIZADORES (kg)				SOBRE OS PNEUS (kg)	
		ESTENDIDOS 360° RETRAÍDOS D/T		RETRAÍDOS 360°		D/T	360°
		LANÇA RETRAÍDA	LANÇA ESTENDIDA	LANÇA RETRAÍDA	LANÇA ESTENDIDA	QUALQUER LANÇA	QUALQUER LANÇA
LANÇA PRINCIPAL	1,2	9530	6800	8900	6340	5220	5220
	1,5	8160	6670	7620	6210	5220	4260
	1,8	7120	6530	6080	6080	4540	3540
	2,4	5530	5530	3950	3950	3450	2540
	3,0	4630	4630	2790	2790	2350	1760
	3,7	3810	3810	2060	2060	1750	1300
	4,3	-	3220	-	1550	1360	1020
	4,9	-	2720	-	1260	1090	820
	5,5	-	2270	-	1040	900	670
	6,1	-	1950	-	830	750	540
	6,7	-	1680	-	700	640	450
	7,3	-	1500	-	580	540	390
	7,9	-	1320	-	490	460	320
	8,5	-	1180	-	430	400	270
	9,4	-	1040	-	360	320	200
JIB	10,3	-	900	-	290	270	350
	10,9	-	800	-	250	230	160
	11,5	-	710	-	200	180	90
	12,1	-	650	-	160	140	60
	12,8	-	590	-	110	90	-
	13,4	-	540	-	90	70	-
	14,0	-	500	-	80	-	-
	14,6	-	450	-	70	-	-

ÂNGULO DA LANÇA PRINCIPAL (graus)	CAPACIDADES ESTRUTURAIS DO JIB (kg)					
	JIB 3,7 m			JIB 5,5 m		
	DESLOCAMENTO DE 0°	DESLOCAMENTO DE 15°	DESLOCAMENTO DE 30°	DESLOCAMENTO DE 0°	DESLOCAMENTO DE 15°	DESLOCAMENTO DE 30°
72	3400	2310	1590	1810	1500	1040
70	3180	2180	1540	1700	1410	1000
65	2590	1860	1400	1450	1220	910
60	2040	1590	1270	1270	1090	840
55	1590	1360	1160	1110	980	770
50	1270	1130	1040	980	880	730
45	1040	1000	910	860	793	680
40	1000	860	820	770	730	640
35	800	760	730	690	660	610
30	730	680	640	640	590	590
25	660	640	-	580	540	-
20	610	610	-	530	510	-
15	590	590	-	500	500	-
10	580	-	-	480	-	-
5	560	-	-	460	-	-
0	540	-	-	450	-	-

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

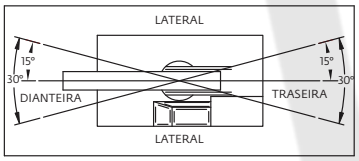

TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	66 kg	N/A
GANCHO E BOLA	48 kg	48 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	200 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 4540 kg	2 PERNAS 0 A 9530 kg
CABOS DE AÇO: 14 mm de diâmetro Resistência à ruptura mínima de 16 670 kg	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado pelo raio de operação, extensão da lança e ângulo da lança. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 85% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. As capacidades nominais dos estabilizadores retraídos atendem à ASME B30.5-2004. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são tanto para estabilizadores totalmente estendidos e para baixo quanto para totalmente retraídos e para baixo. As capacidades para os estabilizadores totalmente retraídos e para baixo se aplicam a qualquer configuração de estabilizador intermediária.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (125 psi). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5440 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

DIN/ISO range diagram • Diagrama de alcance DIN/ISO • Diagrama de distância DIN/ISO

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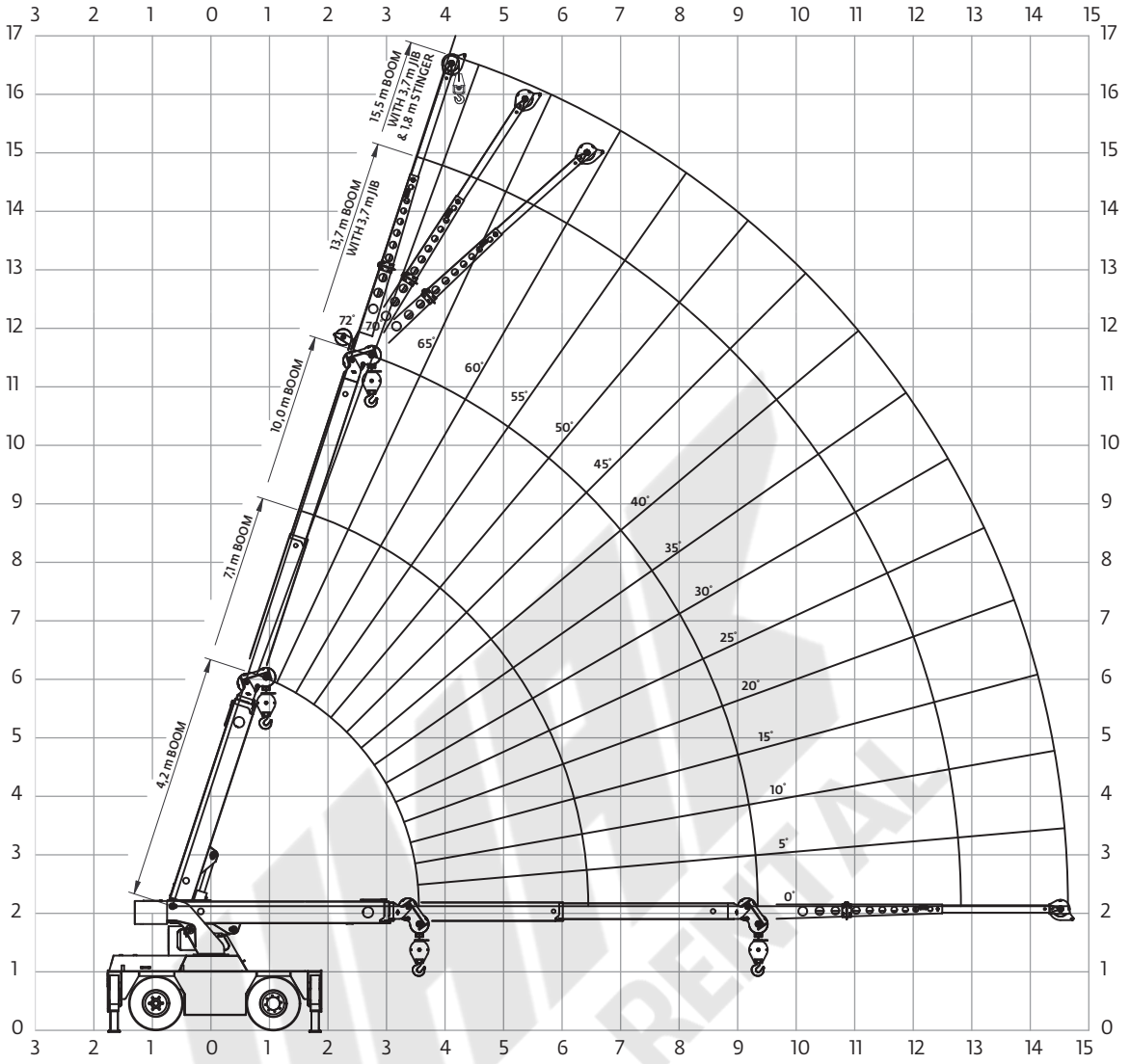

English	Español	Português do Brasil
BOOM	PLUMA	LANÇA
Boom and extension length in meters	Largo de la pluma y extensión en metros	Comprimentos da lança e da extensão em metros
Height from the ground in meters	Altura desde el suelo en metros	Altura em relação ao solo em metros
Operating radius in meters from axis of rotation	Radio de trabajo en metros desde el eje de rotación	Raio de operação em metros a partir do eixo de rotação
with 3,7 M JIB and 1,8 m STINGER	con PLUMÍN de 3,7 m y REMOLQUE de 1,8 m	com jib de 3,7 m e seção volante de 1,8 m

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.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

ESTA TABELA É APENAS UM GUIA E NÃO DEVE SER USADA PARA OPERAR O GUINDASTE.
A tabela de carga individual do guindaste, as instruções de operação e outras placas de instruções devem ser lidas e entendidas antes de operar o guindaste.

DIN/ISO load chart

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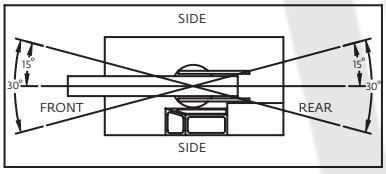
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		EXTENDED 360° RETRACTED F/R		RETRACTED 360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,2	9530	6800	9530	6800	5220	5220
	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6530	6530	4540	3540
	2,4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

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

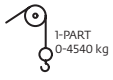
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

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



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

RIGGING CHART	
 1-PART 0-4540 kg	2-PART 0-9530 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 172,8 kN	

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 4,0 km/h on a smooth, hard level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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.

Tabla de carga DIN/ISO

YB4411

	RADIO (m)	SOBRE ESTABILIZADORES (kg)				SOBRE NEUMÁTICOS (kg)	
		D/T		360°		D/T	360°
		PLUMA RETRAÍDA	PLUMA EXTENDIDA	PLUMA RETRAÍDA	PLUMA EXTENDIDA	CUALQUIER PLUMA	CUALQUIER PLUMA
PLUMA PRINCIPAL	1,2	9530	6800	9530	6800	5220	5220
	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6530	6530	4540	3540
	2,4	5530	5530	3960	3960	3670	2680
	3,0	4630	4630	2810	2810	2720	1810
	3,7	3810	3810	2090	2090	2040	1310
	4,3	-	3220	-	1570	1590	1040
	4,9	-	2720	-	1270	1270	820
	5,5	-	2270	-	1060	1040	680
	6,1	-	1790	-	850	860	540
	6,7	-	1530	-	720	730	430
	7,3	-	1360	-	590	630	380
	7,9	-	1190	-	510	540	320
	8,5	-	1060	-	440	480	270
	9,4	-	930	-	380	360	180
PLUMÍN	10,4	-	790	-	310	270	110
	11,0	-	710	-	270	230	80
	11,6	-	620	-	220	180	40
	12,2	-	560	-	180	150	10
	12,8	-	510	-	130	110	0
	13,4	-	460	-	110	90	0
	14,0	-	420	-	90	80	0
	14,6	-	380	-	80	70	0

ÁNGULO DE PLUMA PRINCIPAL (grados)	CAPACIDADES ESTRUCTURALES DEL PLUMÍN (kg)					
	PLUMÍN DE 3,7 m			PLUMÍN DE 5,5 m		
	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°	DESCENTRAMIENTO DE 0°	DESCENTRAMIENTO DE 15°	DESCENTRAMIENTO DE 30°
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	-	-

NOTAS:
LA CAPACIDAD DEL PLUMÍN ESTÁ LIMITADA POR LA TABLA DE CAPACIDADES ESTRUCTURALES Y LA TABLA DE CAPACIDAD PRINCIPAL.

LAS ZONAS SOMBREADAS SON REGULADAS POR LA RESISTENCIA ESTRUCTURAL; NO CONFÍE EN LA INCLINACIÓN DE LA GRÚA.

EL MANEJO DE ESTE EQUIPO EXCEDIENDO LAS TABLAS DE CAPACIDADES Y EL HACER CASO OMISO DE LAS INSTRUCCIONES ES PELIGROSO Y ANULA LA GARANTÍA.

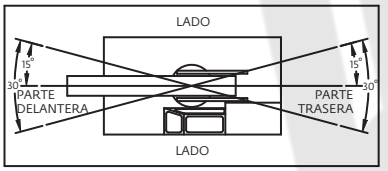


TABLA DE REDUCCIÓN		
	DE CAPACIDADES DE LA PLUMA PRINCIPAL	DE CAPACIDADES DEL PLUMÍN
BLOQUE PRINCIPAL	60 kg	N/C
GANCHO Y BOLA	45 kg	45 kg
PLUMÍN ALMACENADO	0 kg	N/C
PLUMÍN DESPLEGADO	200 kg	0 kg

TABLA DE APAREJOS	
1 SECCIÓN 0-3855 kg	2 SECCIONES 0-9530 kg
CABLE: 14 mm de diámetro Resistencia mínima a la rotura 172,8 kN	

1) Las cargas nominales son las capacidades máximas de elevación según lo determinado por el radio de trabajo, el largo y el ángulo de la pluma. Para obtener el radio de trabajo se puede usar cualquier combinación de largos y ángulos de pluma. El radio de trabajo es la distancia horizontal de una proyección del eje de rotación a la superficie de apoyo, antes de cargar material, hasta el centro del cable de elevación vertical o un polipasto con carga aplicada.

2) Las cargas nominales indicadas sobre estabilizadores no exceden el 80% de la carga de vuelco real. Las cargas nominales indicadas sobre neumáticos no exceden el 75% de la carga de vuelco real. Estas capacidades están basadas en cargas libremente suspendidas con la grúa nivelada sobre una superficie de apoyo firme y uniforme. Las cargas de trabajo prácticas dependen de la superficie de apoyo, radio de trabajo y otros factores que afecten la estabilidad. El operador debe tomar en cuenta el entorno peligroso, las condiciones climáticas, la experiencia del personal y la capacitación adecuada.

3) Los pesos de todos los dispositivos de manejo de carga tales como los ganchos, aparejos de gancho, eslingas, etc., excepto el cable de elevación, deben ser considerados como parte de la carga. Vea la tabla de reducción.

4) Las capacidades nominales sobre estabilizadores son con estabilizadores completamente extendidos.

5) Las capacidades nominales sobre neumáticos dependen de la capacidad de los neumáticos, la condición de los mismos y presión de inflado correcta (6,9 bar). Las cargas sobre neumáticos pueden transportarse a una velocidad máxima de 4,0 km/h sobre una superficie nivelada, dura y uniforme con la pluma retraída al largo más corto posible y centrada sobre la parte delantera.

6) Para un radio de trabajo no indicado, use la carga nominal del próximo radio mayor.

7) La carga máxima total combinada de pluma y plataforma es 5440 kg. La carga máxima de plataforma solamente es 6350 kg.

8) No aplique ninguna carga lateral externa a la pluma o plumín.

ESTA TABLA ES UNA GUÍA SOLAMENTE Y NO DEBE USARSE PARA MANEJAR LA GRÚA.
La tabla de carga, instrucciones de funcionamiento y otras chapas de instrucciones de la grúa individual se deben leer y entender antes de manejar la grúa.

Tabela de carga DIN/ISO

YB4411

	RAIO (m)	SOBRE OS ESTABILIZADORES (kg)				SOBRE OS PNEUS (kg)	
		ESTENDIDOS 360° RETRAÍDOS D/T		RETRAÍDOS 360°		D/T	360°
		LANÇA RETRAÍDA	LANÇA ESTENDIDA	LANÇA RETRAÍDA	LANÇA ESTENDIDA	QUALQUER LANÇA	QUALQUER LANÇA
LANÇA PRINCIPAL	1,2	9530	6800	9530	6800	5220	5220
	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6530	6530	4540	3540
	2,4	5530	5530	3960	3960	3670	2680
	3,0	4630	4630	2810	2810	2720	1810
	3,7	3810	3810	2090	2090	2040	1310
	4,3	-	3220	-	1570	1590	1040
	4,9	-	2720	-	1270	1270	820
	5,5	-	2270	-	1060	1040	680
	6,1	-	1790	-	850	860	540
	6,7	-	1530	-	720	730	430
	7,3	-	1360	-	590	630	380
	7,9	-	1190	-	510	540	320
	8,5	-	1060	-	440	480	270
	9,4	-	930	-	380	360	180
JIB	10,4	-	790	-	310	270	110
	11,0	-	710	-	270	230	80
	11,6	-	620	-	220	180	40
	12,2	-	560	-	180	150	10
	12,8	-	510	-	130	110	0
	13,4	-	460	-	110	90	0
	14,0	-	420	-	90	80	0
	14,6	-	380	-	80	70	0

ÂNGULO DA LANÇA PRINCIPAL (graus)	CAPACIDADES ESTRUTURAIS DO JIB (kg)					
	JIB 3,7 m			JIB 5,5 m		
	DESLOCAMENTO DE 0°	DESLOCAMENTO DE 15°	DESLOCAMENTO DE 30°	DESLOCAMENTO DE 0°	DESLOCAMENTO DE 15°	DESLOCAMENTO DE 30°
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	-	-

NOTAS:
A CAPACIDADE DO JIB É LIMITADA PELA TABELA DE CAPACIDADE ESTRUTURAL E PELA TABELA DE CAPACIDADE PRINCIPAL.

AS ÁREAS ACINZENTADAS SÃO REGIDAS PELA RESISTÊNCIA ESTRUTURAL, NÃO DEPENDEM DO TOMBAMENTO

A OPERAÇÃO DESTE EQUIPAMENTO ALÉM DAS TABELAS DE CAPACIDADE E A NÃO OBSERVÂNCIA DAS INSTRUÇÕES É PERIGOSA E CANCELA A GARANTIA.

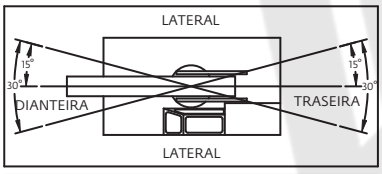


TABELA DE REDUÇÕES		
	DAS CAPACIDADES NOMINAIS DA LANÇA PRINCIPAL	DAS CAPACIDADES NOMINAIS DO JIB
MOITÃO PRINCIPAL	60 kg	N/A
GANCHO E BOLA	45 kg	45 kg
JIB, RECOLHIDO	0 kg	N/A
JIB, INSTALADO	200 kg	0 kg

TABELA DO DISPOSITIVO DE ELEVAÇÃO	
1 PERNA 0 A 3855 kg	2 PERNAS 0 A 9530 kg
CABOS DE AÇO: diâmetro de 14 mm Resistência à ruptura mínima de 172,8 kN.	

1) As cargas nominais são as capacidades máximas de elevação conforme determinado somente pelo raio de operação. Qualquer combinação de comprimentos e ângulos de lança pode ser usada para obter o raio de operação. O raio de operação é a distância horizontal a partir da projeção do eixo de rotação até a superfície de suporte, antes da carga, até o centro da linha de elevação vertical ou equipamento de elevação de carga com a carga aplicada.

2) As cargas nominais mostradas nos estabilizadores não ultrapassam 80% do tombamento real. As cargas nominais mostradas nos pneus não ultrapassam 75% do tombamento real. Essas capacidades são baseadas em cargas suspensas livremente com o guindaste nivelado, apoiado sobre superfície de apoio firme e uniforme. As cargas práticas de trabalho dependem da superfície de apoio, do raio de operação e de outros fatores que afetem a estabilidade. O operador deve levar em conta ambientes perigosos, condições climáticas, experiência do operador e treinamento adequado.

3) Os pesos de todos os dispositivos de manuseio de carga, tais como ganchos, moitões, lingas etc., exceto o cabo de aço devem ser considerados como parte da carga. Consulte a tabela de redução.

4) As capacidades sobre os estabilizadores são com os estabilizadores totalmente estendidos.

5) As capacidades sobre os pneus dependem da capacidade dos pneus, da condição dos pneus e da pressão de calibração adequada (6,9 bar). As cargas sobre os pneus podem ser transportadas em uma velocidade máxima de 4,0 km/h em uma superfície lisa, dura, nivelada com a lança retraída para o comprimento mais curto possível e centralizada sobre a dianteira.

6) Para um raio de operação não mostrado, use a carga nominal do próximo maior raio.

7) A carga máxima total combinada da lança e do tabuleiro é 5440 kg. A carga máxima do tabuleiro é somente 6350 kg.

8) Não induza cargas laterais externas na lança ou no jib.

Symbols glossary • Glosario de símbolos • Glossário de símbolos

Axles
Ejes
Eixos

Counterweight
Contrapeso
Contrapeso

Grade
Pendiente
Grau

Outriggers
Estabilizadores
Estabilizadores

Boom
Pluma
Lança

Drive
Tracción
Acionamento

Heavy duty jib
Plumín de servicio severo
Jib para serviços pesados

Radius
Radio
Raio

Boom elevation
Elevación de pluma
Elevação da lança

Electrical system
Sistema eléctrico
Sistema elétrico

Hoist
Malacate
Guincho

Rotation
Rotación
Rotação

Boom extension
Extensión de la pluma
Extensão da lança

Engine
Motor
Motor

Hookblock
Aparejo de gancho
Moitão de gancho

Speed
Velocidad
Velocidade

Boom length
Largo de pluma
Comprimento da lança

Extension
Extensión
Extensão

Hydraulic system
Sistema hidráulico
Sistema hidráulico

Steering
Dirección
Direção

Boom nose
Punta de la pluma
Extremidade da lança

Frame
Bastidor
Estrutura

Lights
Luces
Luzes

Suspension
Suspensión
Suspensão

Brakes
Frenos
Freios

Fuel tank capacity
Capacidad de tanque de combustible
Capacidade do tanque de combustível

Oil
Aceite
Óleo

Swing
Giro
Giro

Cab
Cabina
Cabine

Gear
Engranaje
Engrenagem

Outrigger controls
Controles de estabilizadores
Controles de estabilizador

Tires
Neumáticos
Pneus

Transmission
Transmisión
Transmissão

SALE & RENTAL

Notes • Notas • Notas

SALE & RENTAL

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Form No. YB4400 LA PG
Part No. 0513

Grove YB4400 Series

Product Guide

ASME B30.5

Imperial 85%, Metric 85% and DIN/ISO

Features

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

Features

Boom

Standard:
6,4 m (21 ft) main boom on the YB4409.
9,1 m (30 ft) main boom on the YB4409XL.
10, 0 m (32 ft 10 in) main boom on the YB4409-2 and YB4411.
Optional: Manual fourth main boom section adds 3,0 m (10 ft) additional main boom length on YB4409 and YB4409XL only.

Engine (Tier IV)

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

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

SALE & RENTAL

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SALE & RENTAL

Specifications

Superstructure

Boom

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

YB4409XL: 3,8 m – 9,2 m (12 ft 8 in – 30 ft 2 in) three- section full power boom.
Maximum tip height: 10,2 m (33 ft 6 in)

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

Maximum tip height: 11,6 m (38 ft 2 in)

*Optional boom

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

*Boom extension

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

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

Boom nose

YB4409 / XL: Single sheave non-pivoting

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

Boom elevation

Single double acting hydraulic cylinder with integral holding valve.
Elevation: 0° to 60° for the **YB4409 and YB4409XL**
0° to 72° for the **YB4409-2 and YB4411**

Anti-two block device

Standard anti-two block device, when activated, provides an audible warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.

Load indicator

YB4409 and YB4409XL:

A simple, effective, and easy to use load indicating system used in conjunction with the anti-two block system to assist the operator in efficient operation of the unit within the limits of the load chart. The display panel displays the hook load and warns the operator when a preset load capacity is exceeded. The warning is by a flashing light on the display panel. In conjunction with the load display panel (receiver), there is a wireless transmitter and load sensing pin attached to the boom head that transmits the hook load to the display panel.

YB4409-2 and YB4411:

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

Swing

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

Hydraulic system

YB4409 and YB4409XL: (2) gear pumps

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

Combined flow: 107,9 Lpm (28.5 gpm)

Maximum system operating pressure: 3600 psi

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

YB4411: Six section valve bank chassis mounted; operated via dash mounted, pilot pressure hydraulic joysticks.

Return line filter with full flow by-pass protection and service indicator.

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

**Denotes optional equipment*

Superstructure continued

Hoist specifications

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

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

Drum diameter:
YB4409 / XL: 0,24 m (9.69 in)
YB4409-2 and **YB4411**: 0,27 m (10.63 in)

Maximum single line pull:
YB4409 / XL: 4854 kg (10,700 lb)
YB4409-2 and YB4411: 6350 kg (14,000 lb)

Maximum single line speed:
YB4409 / XL: 26,8 m/min (88 fpm)
YB4409-2 and YB4411: 36,6 m/min (120 fpm)

Maximum permissible single line pull:
YB4409 / XL: 3855 kg (8500 lb)
(12,7 mm [1/2 inch] Python Ultra XIPS)
YB4409-2 and YB4411: 4536 kg (10,000 lb)
(14,0 mm [9/16 inch] EEIPS)

Rope length :
YB4409 / XL: (three-section boom) 29,6 m (97 ft)
(four-section boom) 39,6 m (130 ft)
YB4409-2 and YB4411: 36,6 m (120 ft)

Carrier

Frame

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

Outriggers

YB4409, YB4409XL and YB4409-2: Front and rear oblique type beams at all four corners with integral holding valves. Outrigger pads form an integral part of the beam.
YB4411: Hydraulic telescoping beam with oblique type jack provides extended and down and retracted and down lifting capacities. Integral holding valves on both beam and jack.
Padsize YB4400 Series:
18 cm x 20 cm (7.4 in x 7.8 in)
Maximum outrigger pad load: YB4409/XL: 122 psi
YB4409-2: 135 psi
YB4411: 387 psi

Outrigger controls

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

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

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

Engine (Tier IV)

Cummins QSB 3.3 L, four-cylinder, turbo-charged diesel rated at 74.5 Kw (100 hp) at 2600 rpm. Standard 120 V engine block heater and cold weather intake grid heater.
Diesel oxidation/catalyst, stainless steel muffler/exhaust system to meet 2012 EPA emissions, combined with a Cummins direct air flow, two-stage cyclonic air filter system.
Maximum torque: 413,5 Nm (305 lb ft)
Note: Required for sale in North American and European Union countries.

Engine (Tier III)

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

*Optional engine

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

Operators control station

Frame mounted, open air style control station with cab shell. Includes all crane functions, driving controls, and overhead safety glass. Other standard equipment include a durable weather resistant seat with seat belt, hourmeter, sight level bubble, and fire extinguisher. The dash panel includes engine oil pressure gauge, engine water temperature gauge, fuel gauge, transmission low oil and high temperature warning lights, low battery warning light, and brake system low pressure warning light.

Specifications

Fuel tank capacity

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

*Operators control station enclosed

Includes the standard cab shell with the addition of front, right, and rear glass, a split (two-piece) hinged door with sliding glass.
Front windshield wiper and heater and defroster is included.

Electrical system

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

Drive

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

Steer

YB4409/ YB4409XL/YB4409-2: two-wheel,four-wheel with crab steer
YB4411: two-wheel, four-wheel, and crab steer with electronic self alignment.

Transmission

YB4409 / XL and YB4409-2: Synchromesh -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

Tires

10.00 x 15 pneumatic

Brakes

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

Suspension

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

Lights

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

Maximum speed

35,6 km/h (22 mph)

Gradeability (theoretical)

YB4409 / XL and YB4409-2:
57%....no load
31%.... 5443 kg (12,000 lb) load

YB4411: 68%....no load
40%.... 9072 kg (20,000 lb) load

Gross vehicle weight (G.V.W)

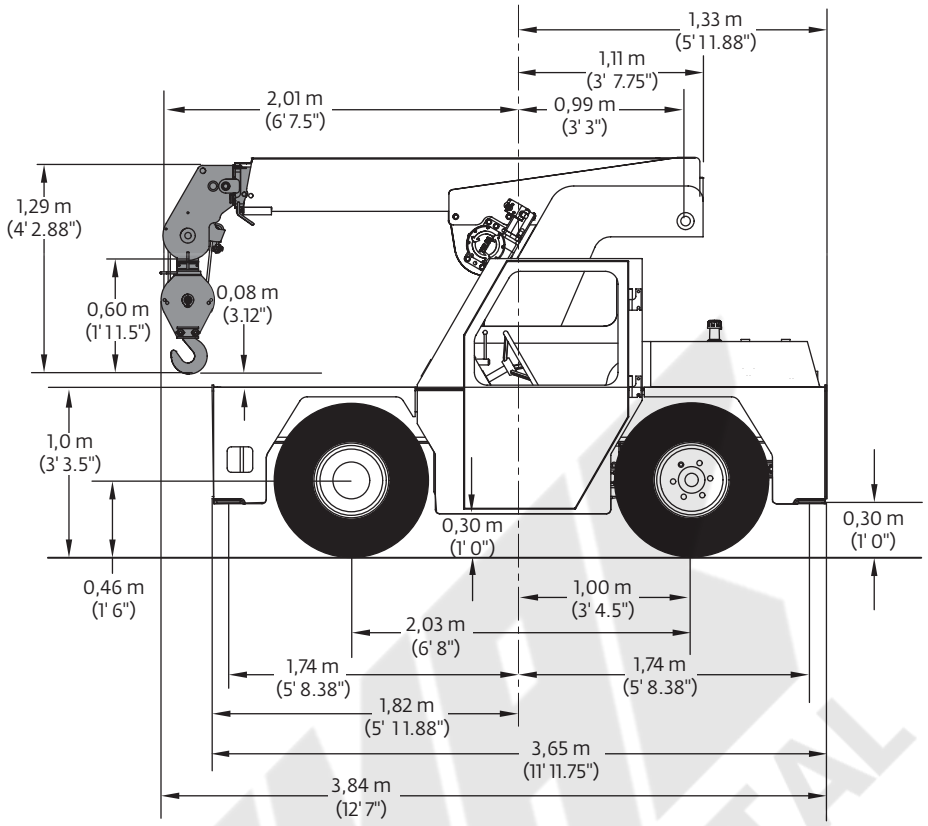
YB4409: 7231 kg (15,941 lb)
YB4409XL: 7855 kg (17,318 lb)
YB4409-2: 8021 kg (17,683 lb)
YB4411: 8312 kg (18,324 lb)
*All weights with enclosed cab and Tier IV engine

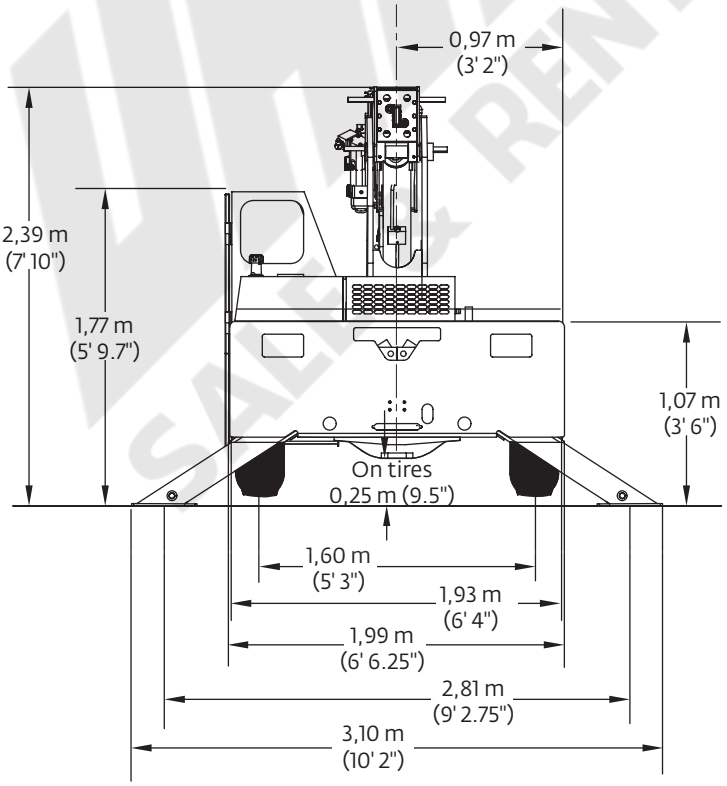
Miscellaneous standard equipment

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

**Denotes optional equipment*

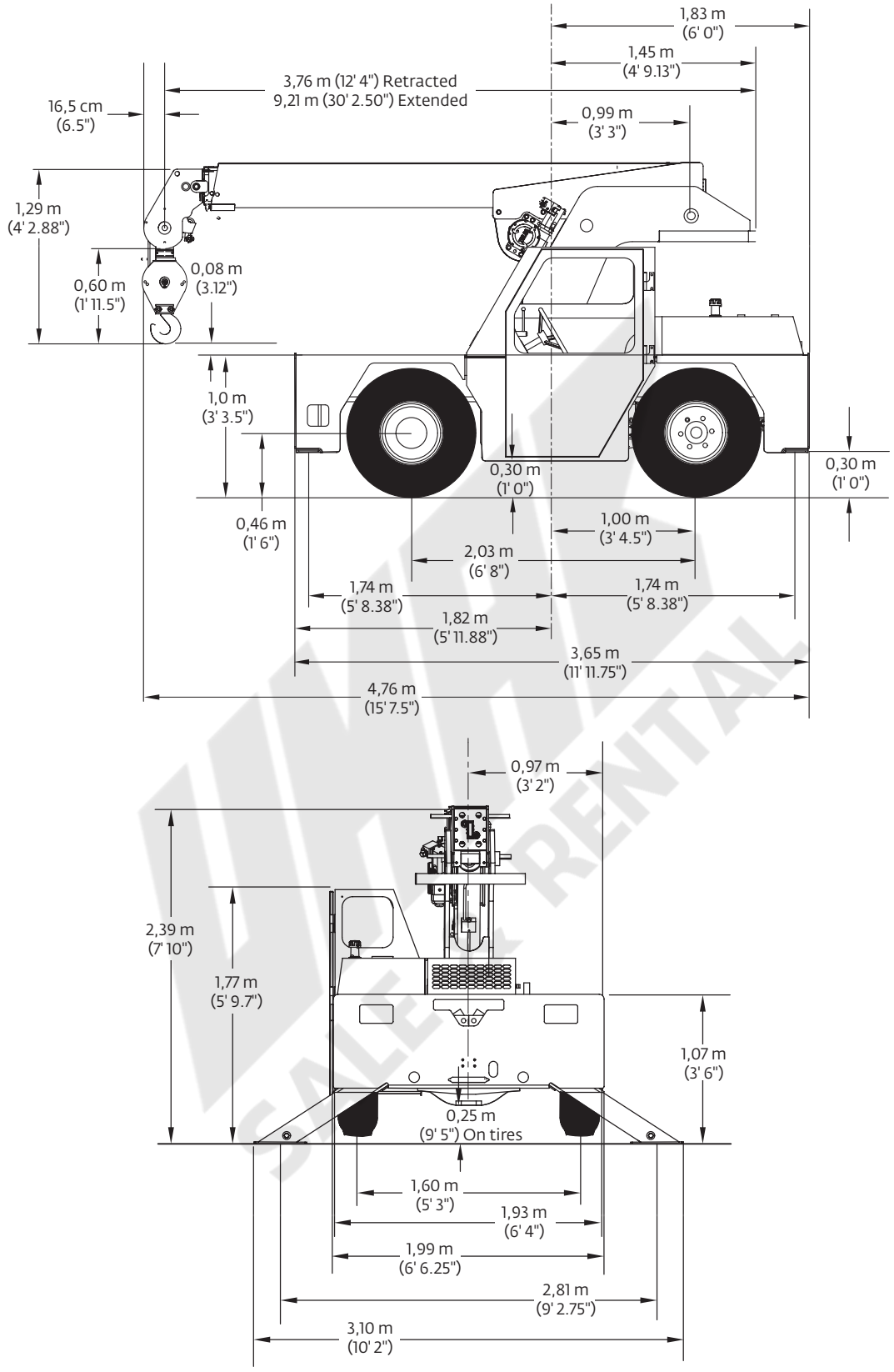
YB4409


1,33 m
(5' 11.88")
1,11 m
(3' 7.75")
2,01 m
(6' 7.5")
0,99 m
(3' 3")
1,29 m
(4' 2.88")
0,60 m
(1' 11.5")
0,08 m
(3.12")
1,0 m
(3' 3.5")
0,30 m
(1' 0")
0,30 m
(1' 0")
0,46 m
(1' 6")
1,00 m
(3' 4.5")
2,03 m
(6' 8")
1,74 m
(5' 8.38")
1,74 m
(5' 8.38")
1,82 m
(5' 11.88")
3,65 m
(11' 11.75")
3,84 m
(12' 7")


0,97 m
(3' 2")
2,39 m
(7' 10")
1,77 m
(5' 9.7")
1,07 m
(3' 6")
On tires
0,25 m (9.5")
1,60 m
(5' 3")
1,93 m
(6' 4")
1,99 m
(6' 6.25")
2,81 m
(9' 2.75")
3,10 m
(10' 2")

Dimensions

YB4409XL



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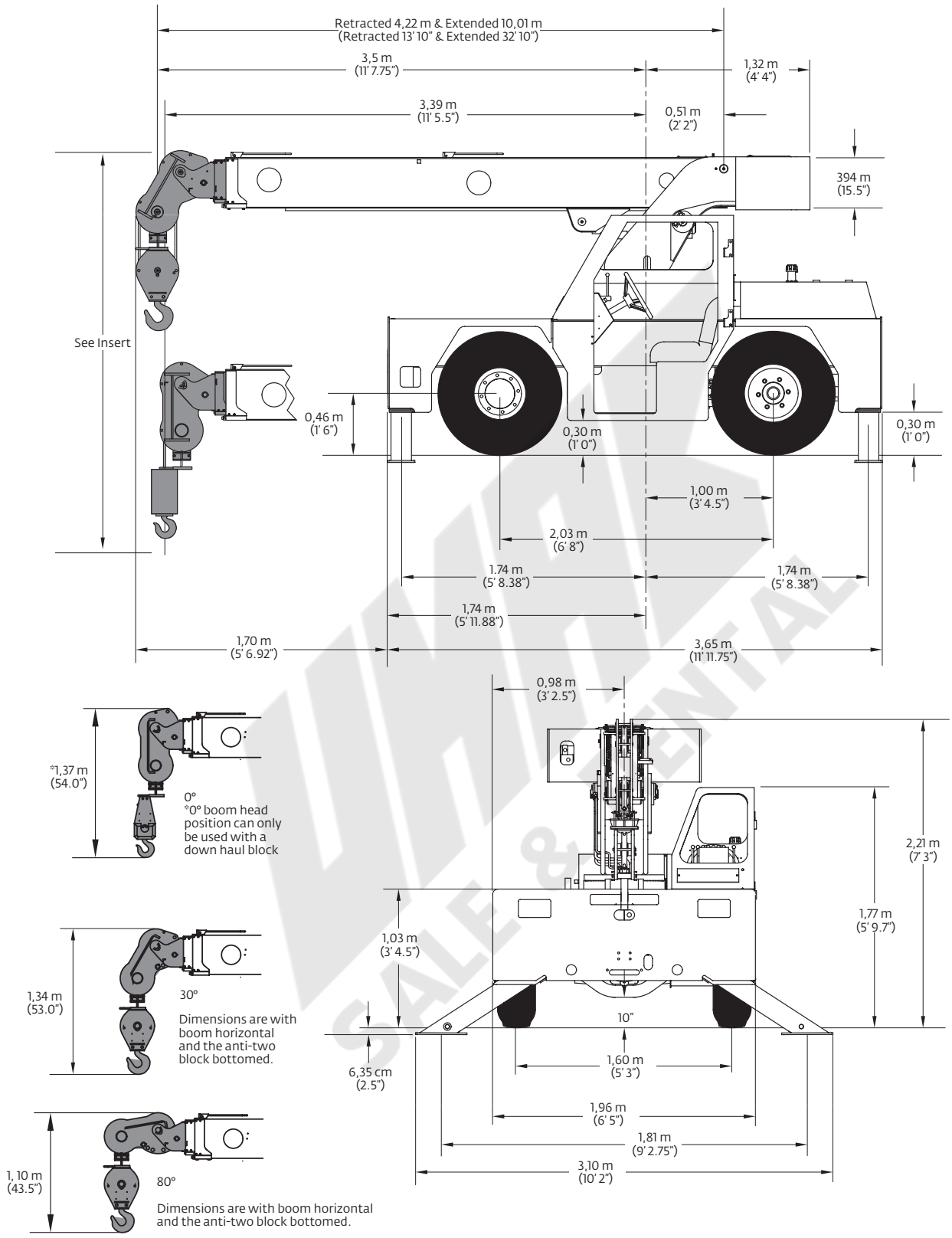
YB4409-2



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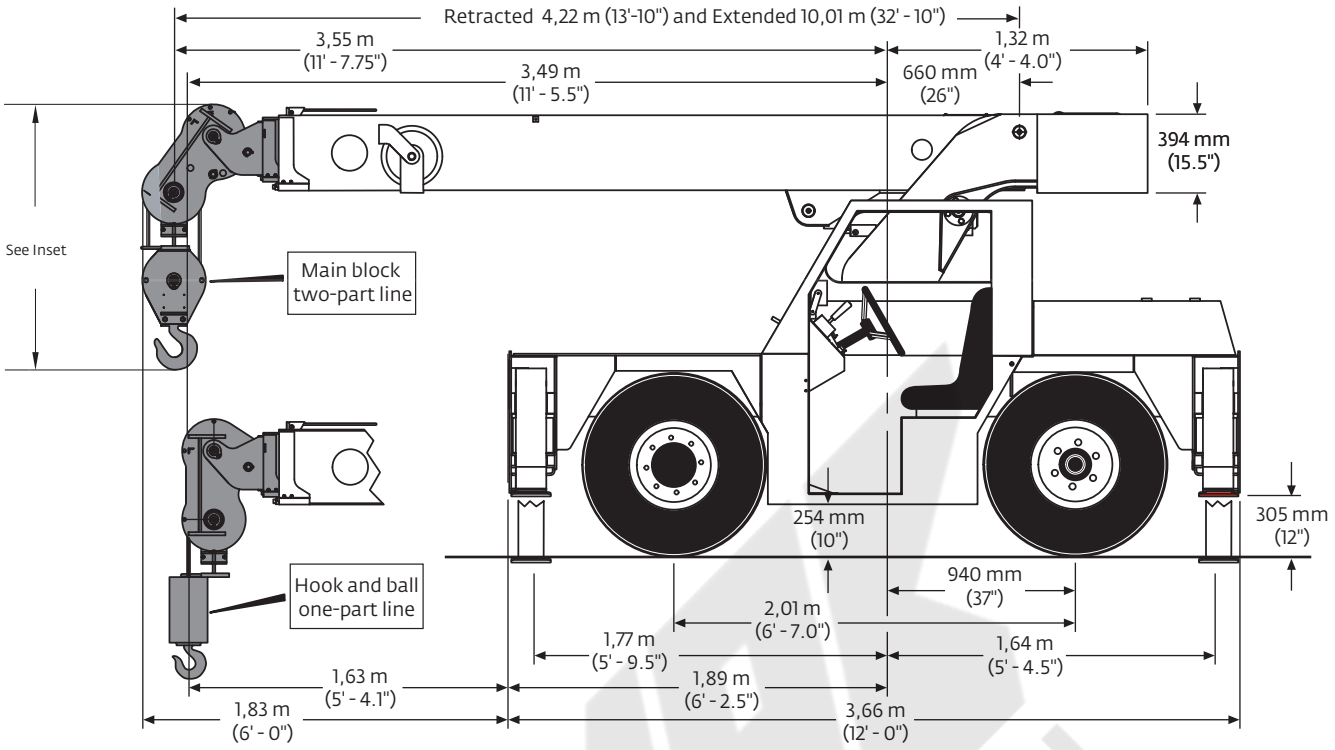
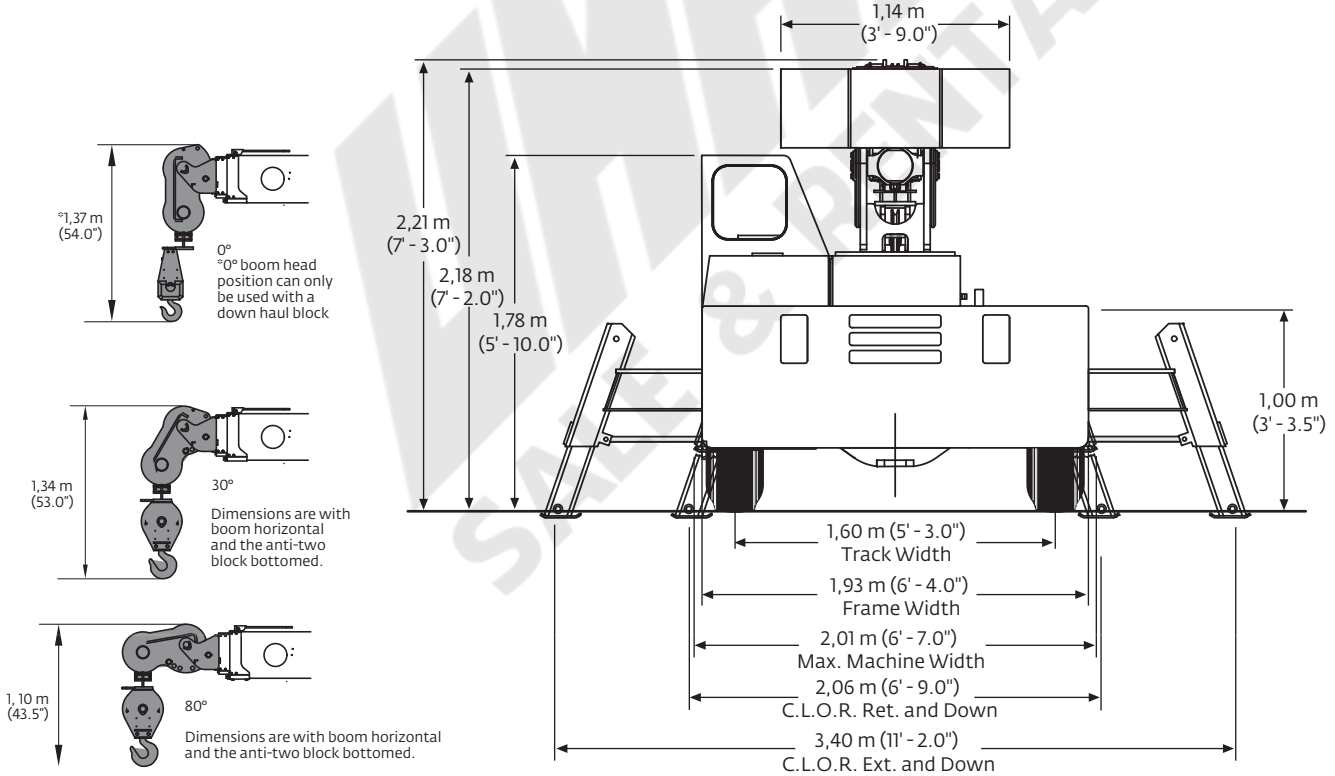
Dimensions

YB4411





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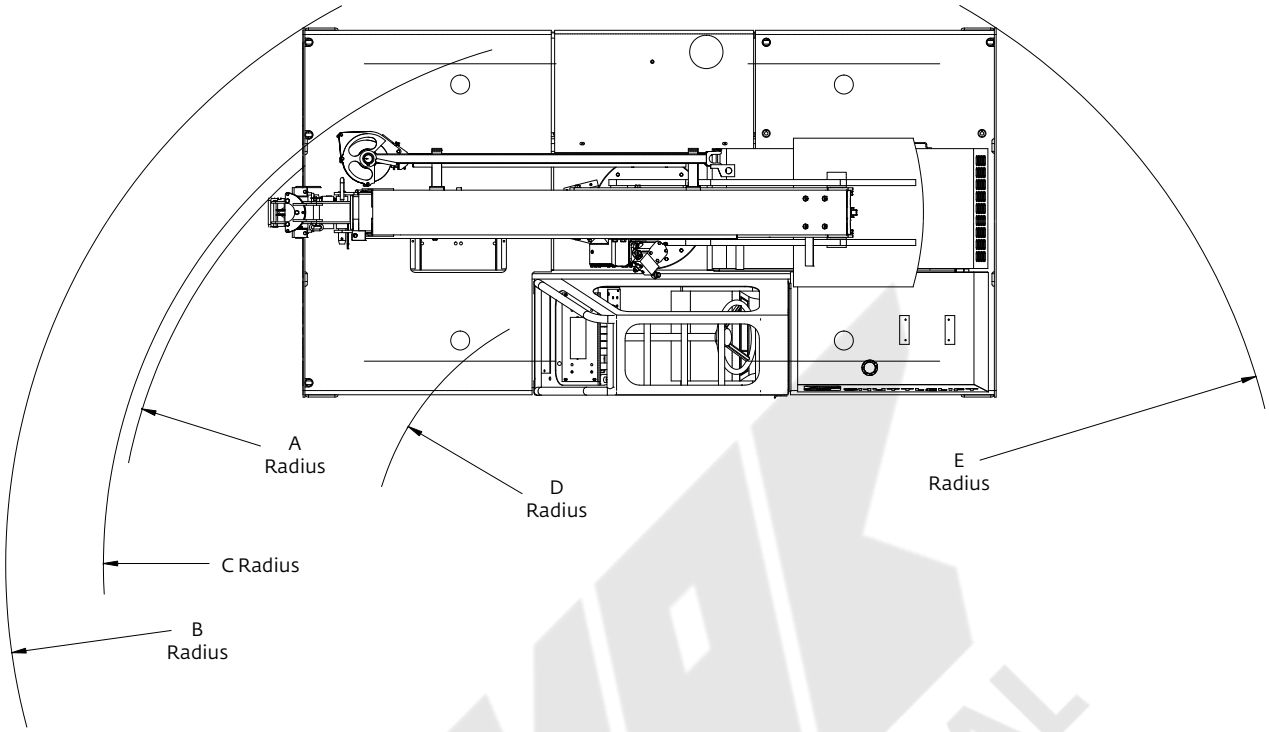
Turning radius

YB4409



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

SALE & RENTAL

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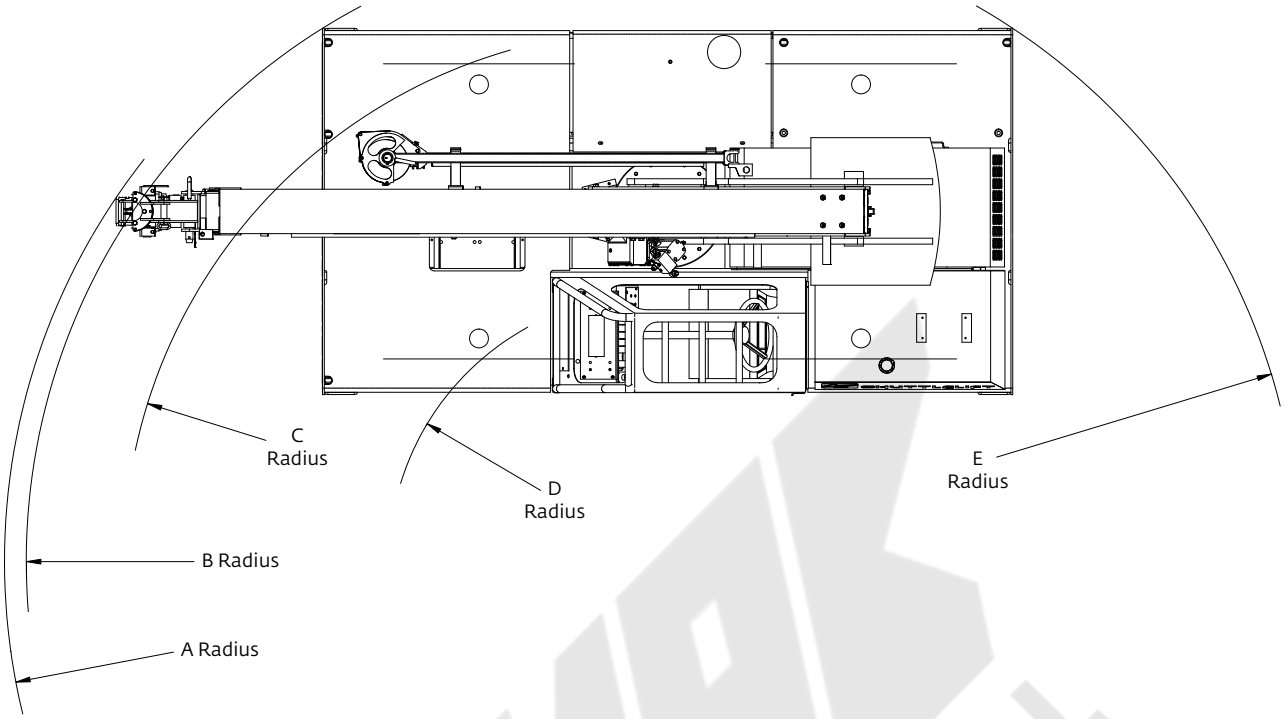
Turning radius

YB4409XL



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

SALE & RENTAL

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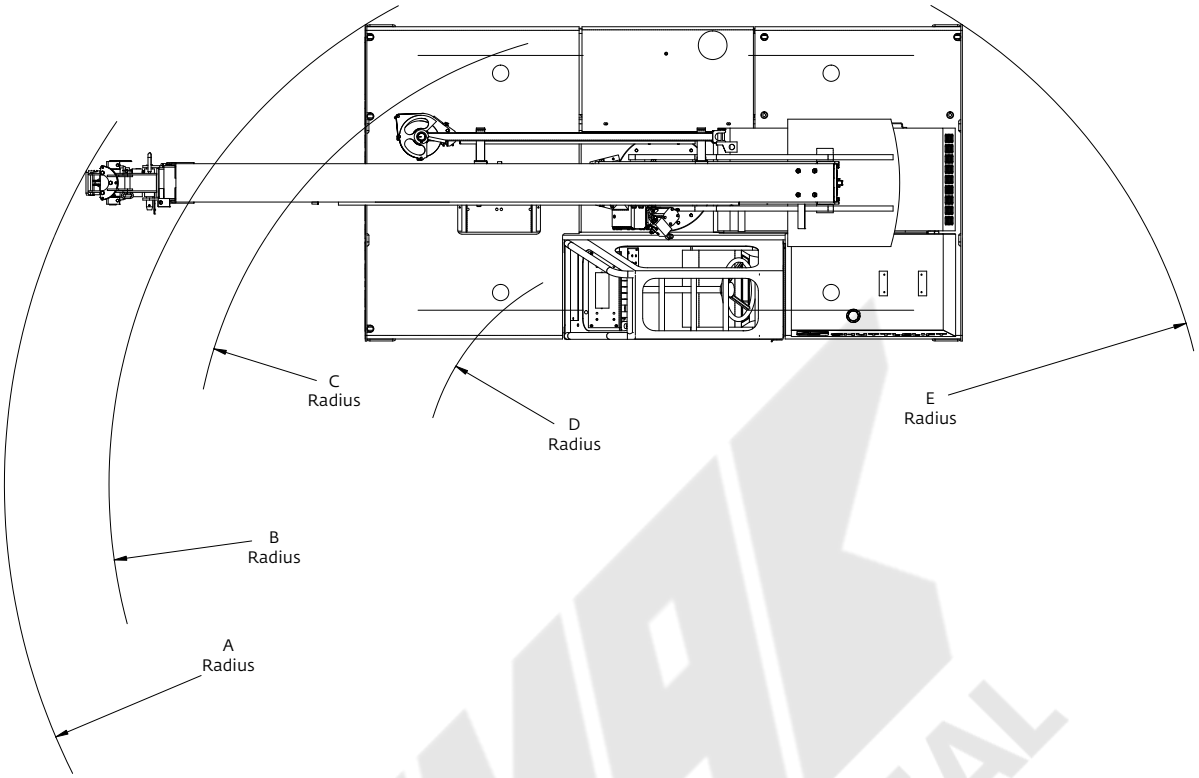
Turning radius

YB4409-2



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

SALE & RENTAL

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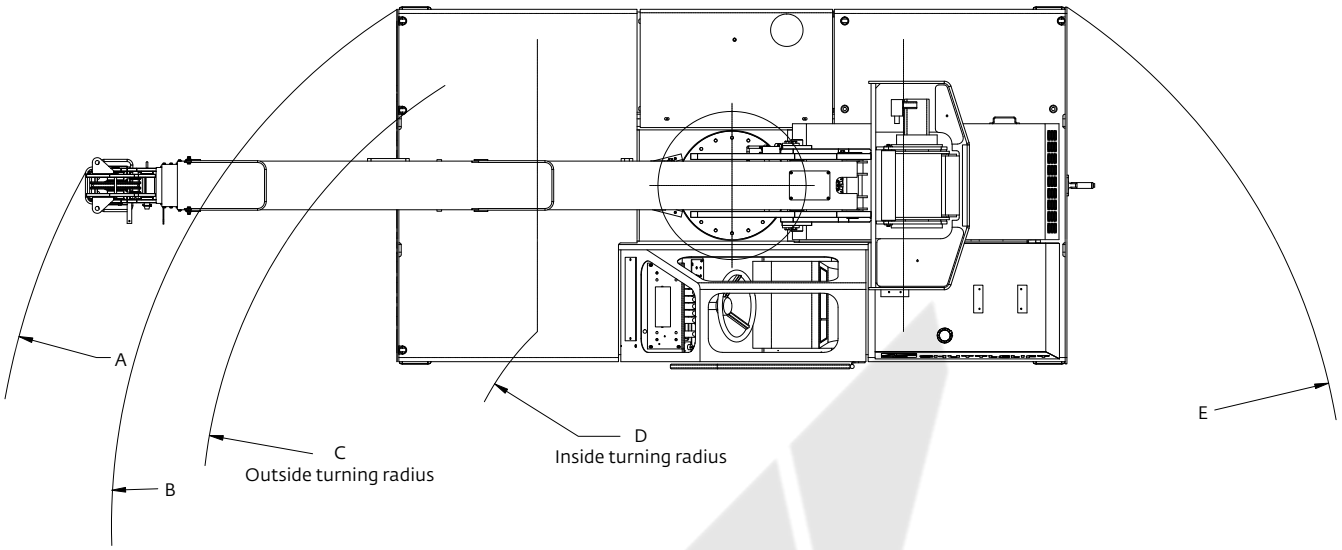
Turning radius

YB4411



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

SALE & RENTAL

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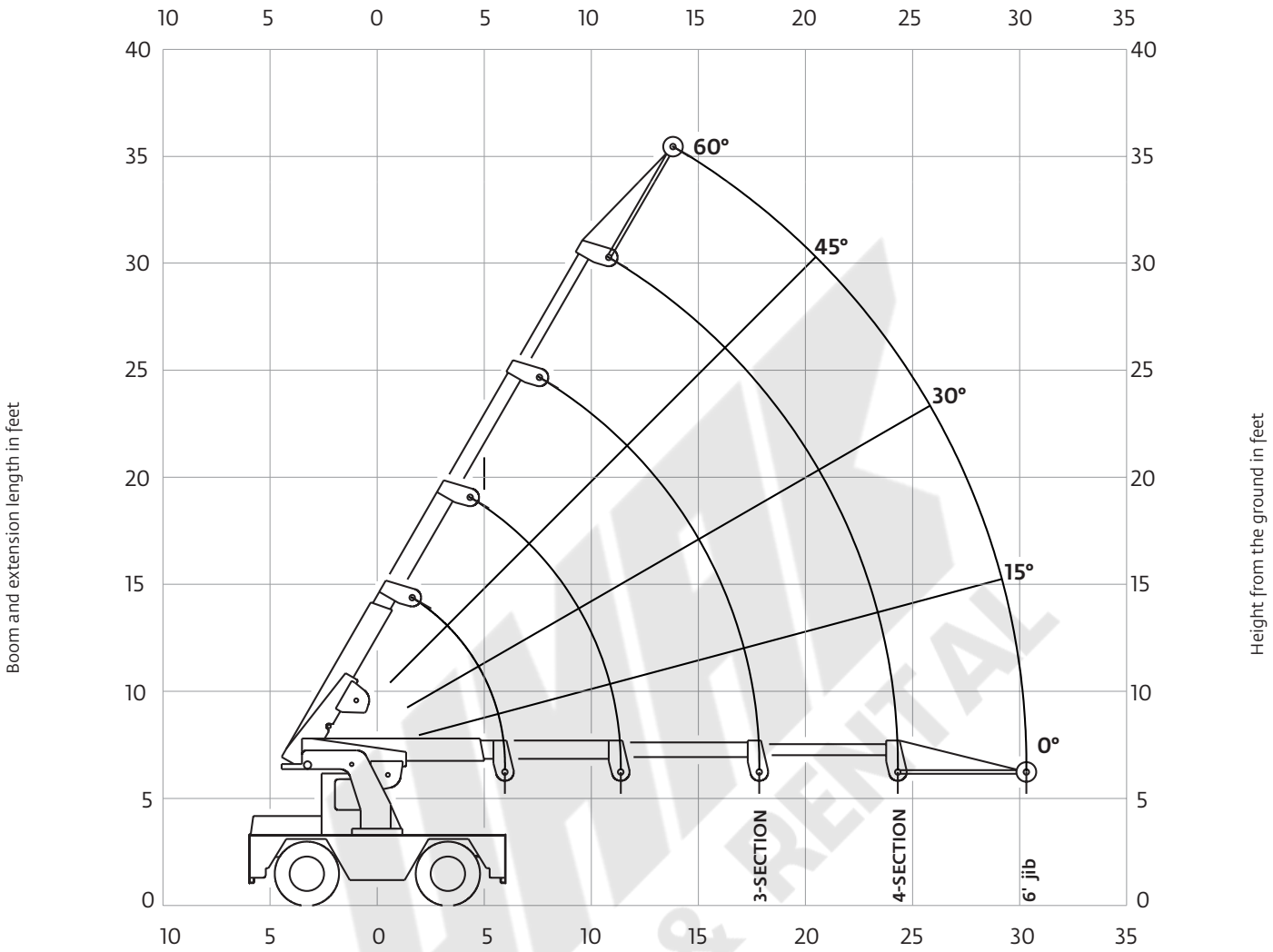
Range diagram

YB4409



SALE & RENTAL

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Load chart

YB4409

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

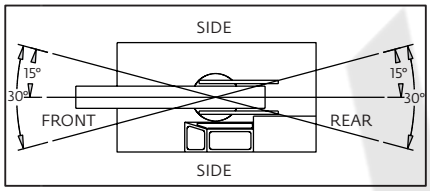
MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (lb)	
	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED
60	3500	3500
55	3325	3325
50	3150	3150
45	3000	3000
40	2875	2875
35	2800	2800
30	2700	2700
25	2600	2600
20	2500	2500
15	2400	2400
10	2325	2325
5	2250	2250
0	2200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

* 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.



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

RIGGING CHART	
1-PART 0-8500 lb	2-PART 0-17,000 lb
WIRE ROPE: 1/2 inch diameter Min. breaking strength 29,750 lb	

1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.

4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum seed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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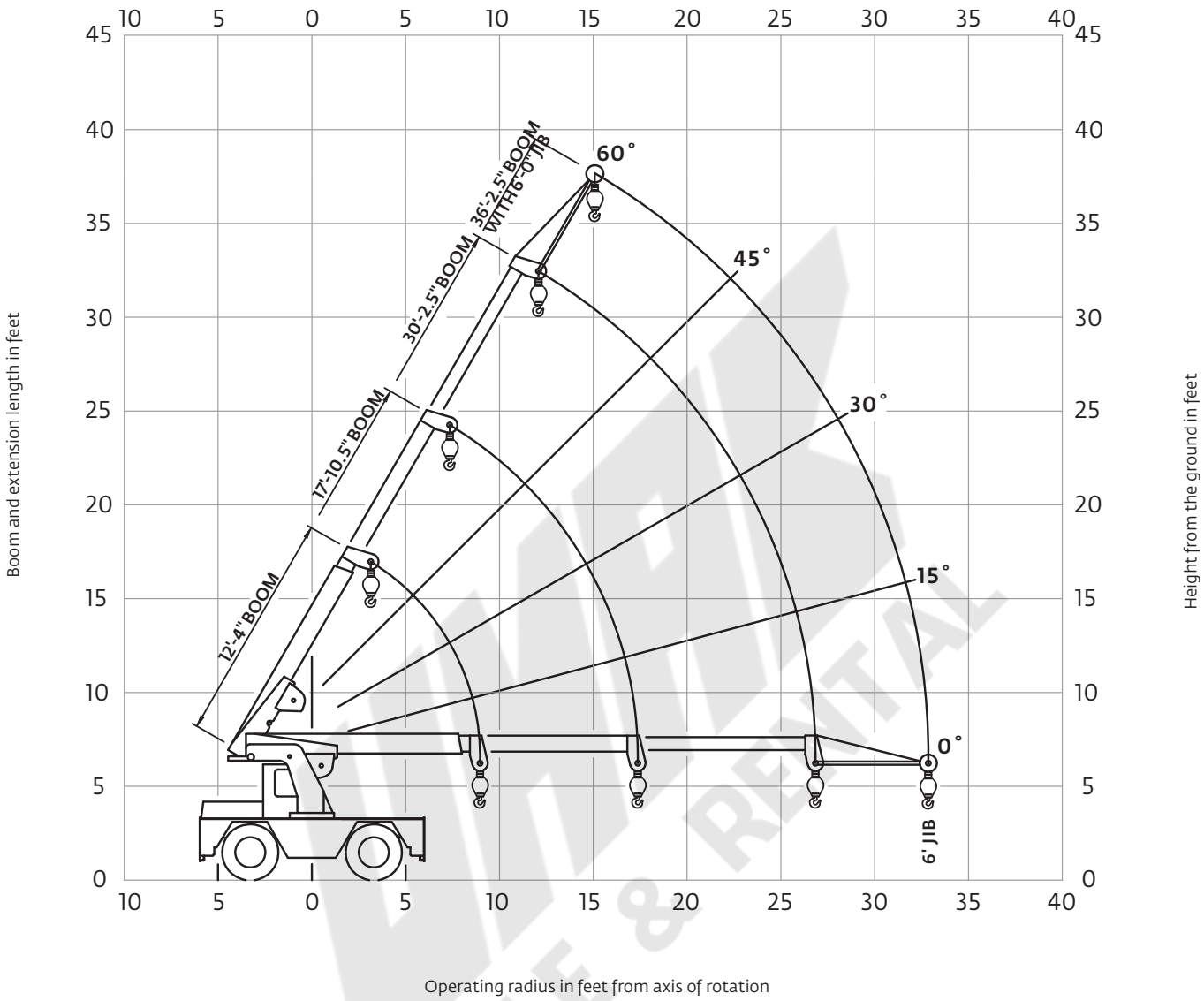
Range diagram

YB4409XL
(Three-section boom)



SALE & RENTAL

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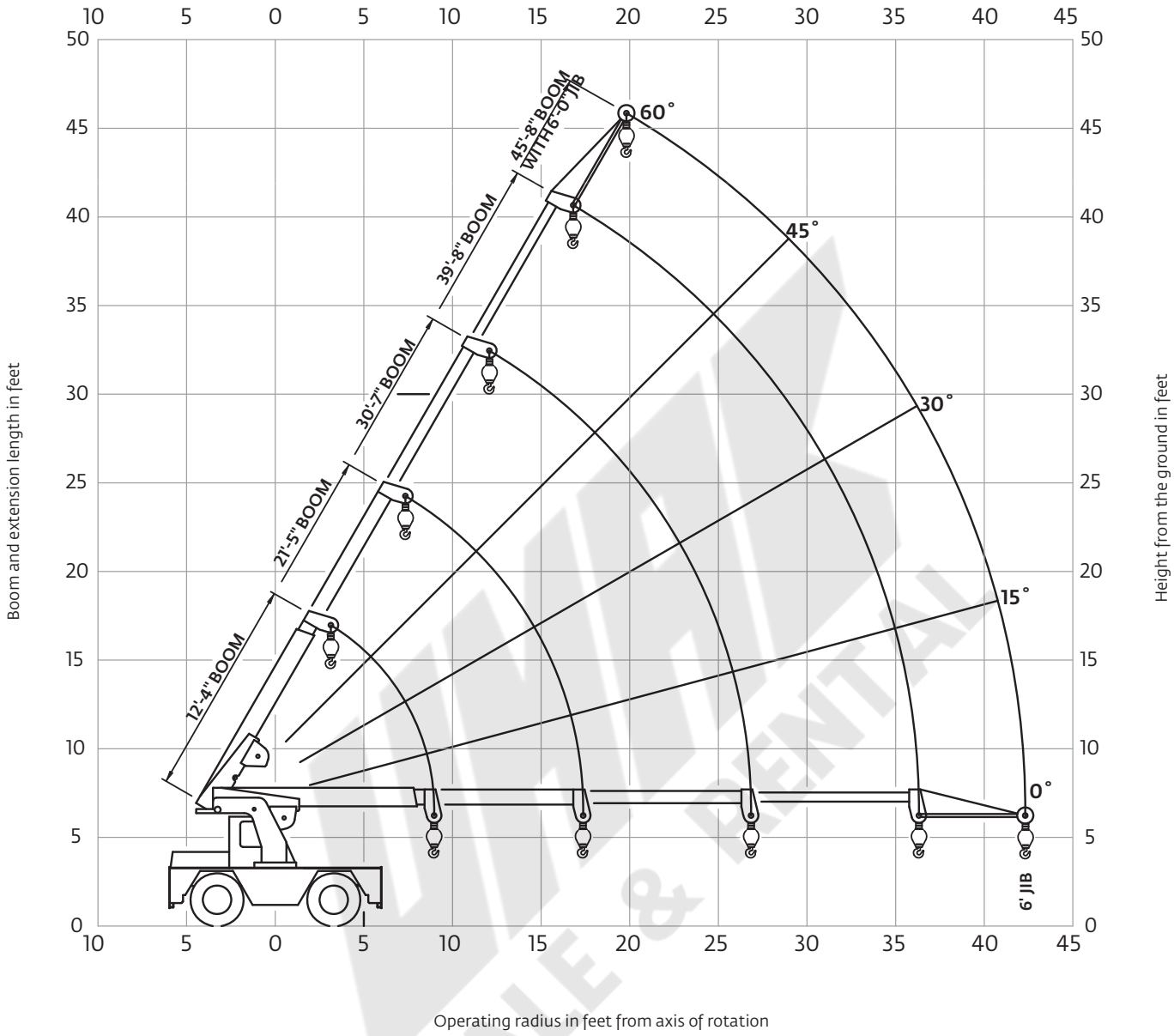
Range diagram

YB4409XL
(Four-section boom)



SALE & RENTAL

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YB4409XL
(Three-section boom)

Radius (ft)	3-SECTION MAIN BOOM ON OUTRIGGERS (lb)	
	F/R	360°
5	17,000	17,000
6	15,700	14,400
8	12,400	10,800
10	10,200	8500
12	8500	6950
14	7100	5800
16	6000	4650
18	5200	3800
20	4450	3150
22	3800	2700
24	3300	2350
26	2900	2050
27	2750	1925

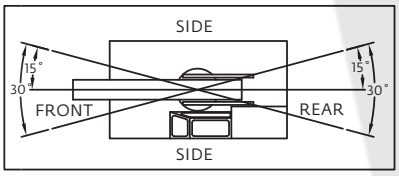
Radius (ft)	3-SECTION MAIN BOOM ON RUBBER (lb)	
	F/R	360°
5	10,000	10,000
6	9500	8200
8	7325	5125
10	4875	3475
12	3550	2550
14	2750	1925
16	2150	1450
18	1775	1150
20	1450	950
22	1225	800
24	1025	650
26	875	525
27	850	475

Radius (ft)	3-SECTION MAIN BOOM W/6 FT JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
		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.



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

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	

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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SALE RENTAL

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Load chart

YB4409XL
(Four-section boom)

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH RETRACTED			
	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
	F/R	360°	F/R	360°
5	17000	17000	10000	10000
6	15700	14400	9500	8200
8	12400	10800	8000	5600
10	10200	8500	5400	3800
12	8500	6950	3800	2700
14	7100	5800	2750	1950
16	6000	4650	2150	1450
18	5200	3800	1800	1150
20	4450	3150	1500	950
22	3800	2700	1300	775
24	3300	2350	1100	600
26	2900	2050	900	450
27	2750	1925	825	375

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH EXTENDED			
	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
	F/R	360°	F/R	360°
5	-	-	-	-
6	-	-	-	-
8	4900	4900	4900	4900
10	4300	4300	4300	4250
12	3800	3800	3800	3300
14	3400	3400	3400	2600
16	3100	3100	2900	2100
18	2900	2900	2400	1700
20	2900	2900	1950	1350
22	2900	2900	1600	1050
24	2900	2650	1350	850
26	2900	2300	1100	700
27	2900	2150	1000	650
28	2750	2000	925	600
30	2450	1800	800	500
32	2200	1600	700	400
33.5	1975	1400	625	325
36	1775	1250	550	250

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

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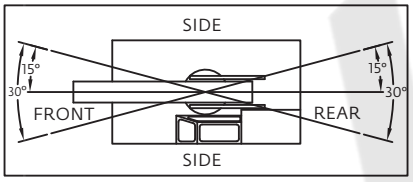
OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGEROUS AND VOIDS WARRANTY.

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH RETRACTED W/ 6 FT JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
		F/R	360°	F/R	360°
16.4	60	3500	3500	2000	1300
18	57.5	3375	3375	1800	1150
20	53.5	3225	3150	1500	950
22	49	3075	2700	1300	800
24	44.5	2950	2350	1100	650
26	39.5	2850	2050	925	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

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH EXTENDED W/ 6 FT JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
		F/R	360°	F/R	360°
22	60	2900	2900	1600	1050
24	57	2900	2650	1350	850
26	54	2900	2300	1100	700
28	50.5	2750	2000	925	600
30	47	2450	1800	800	500
32	43	2200	1600	700	400
33.5	40	1975	1400	625	325
36	34.5	1775	1250	550	250
38	29	1650	1150	500	200
40	22.5	1550	1075	450	150
42	11.5	1450	1000	400	125
43	0	1400	950	375	100



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

RIGGING CHART	
1-PART 0 - 8500 lb	2-PART 0 - 17000 lb
WIRE ROPE: 1/2 inch diameter Minimum breaking strength 29,750 lb	

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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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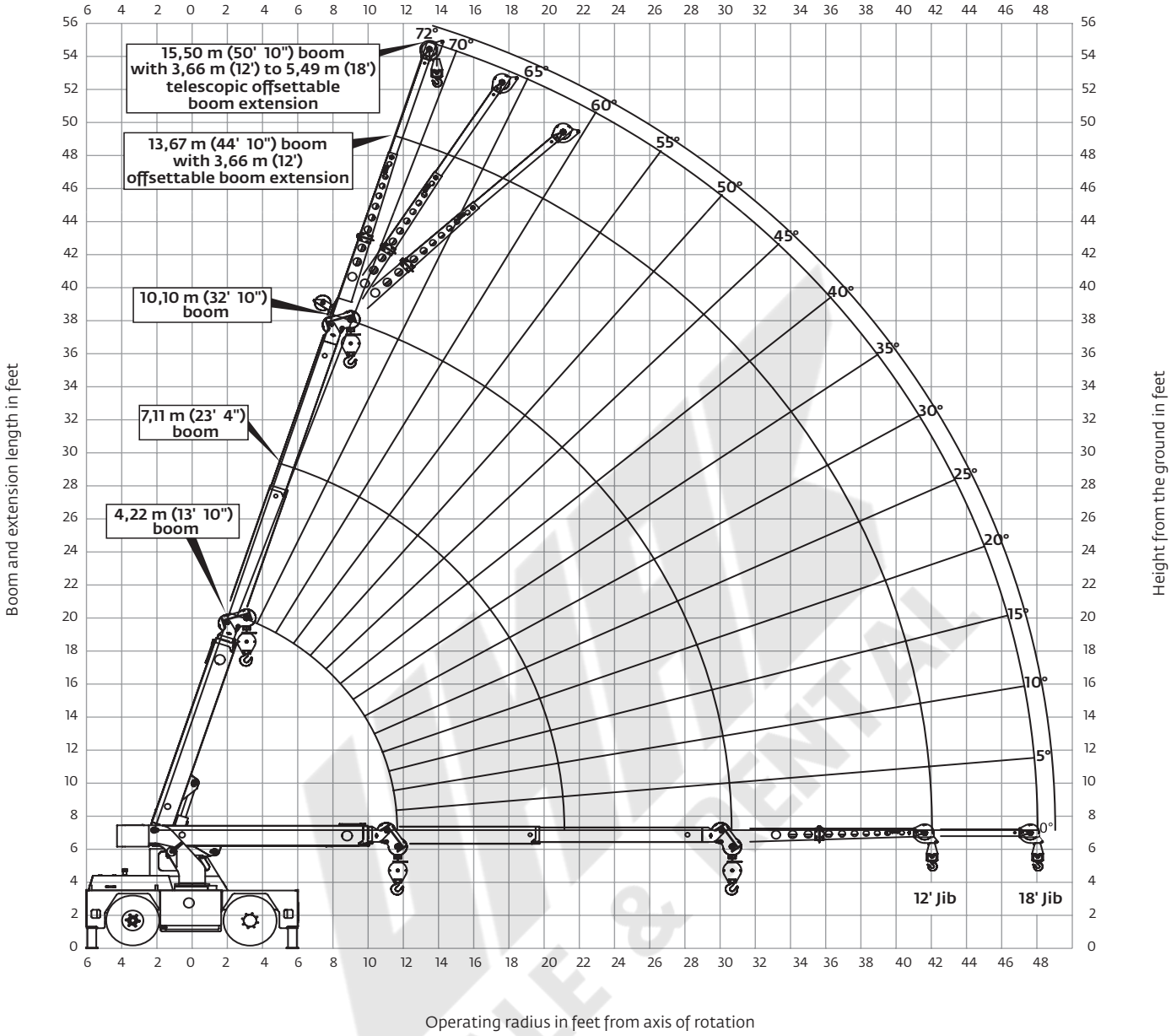
Range diagram

YB4409-2



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

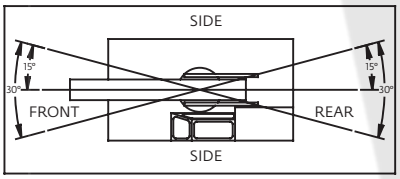
	RADIUS (ft)	ON OUTRIGGERS (lb)				ON RUBBER(lb)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	5.0	18,000	14,700	18,000	14,700	11,500	9400
	6.0	15,700	14,400	15,000	14,400	10,000	7500
	8.0	12,200	12,200	11,400	11,400	8100	5040
	10.0	10,200	10,200	9100	9100	5480	3530
	12.0	8400	8400	7600	7600	3920	2590
	14.0	-	7200	-	6500	3040	1970
	16.0	-	6200	-	5310	2420	1560
	18.0	-	5400	-	4340	1970	1250
	20.0	-	4830	-	3610	1640	1020
	22.0	-	4000	-	3030	1370	850
	24.0	-	3480	-	2590	1160	710
	26.0	-	3020	-	2250	990	590
	28.0	-	2680	-	2010	830	490
	31.0	-	2270	-	1740	650	360
JIB	34.0	-	1960	-	1500	510	250
	36.0	-	1770	-	1350	430	180
	38.0	-	1590	-	1200	350	130
	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

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

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

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

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



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

RIGGING CHART	
1-PART 0 - 10,000 lb	2-PART 0 - 18,000 lb
WIRE ROPE: 9/16 in diameter Min. breaking strength 35,000 lb	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface., operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

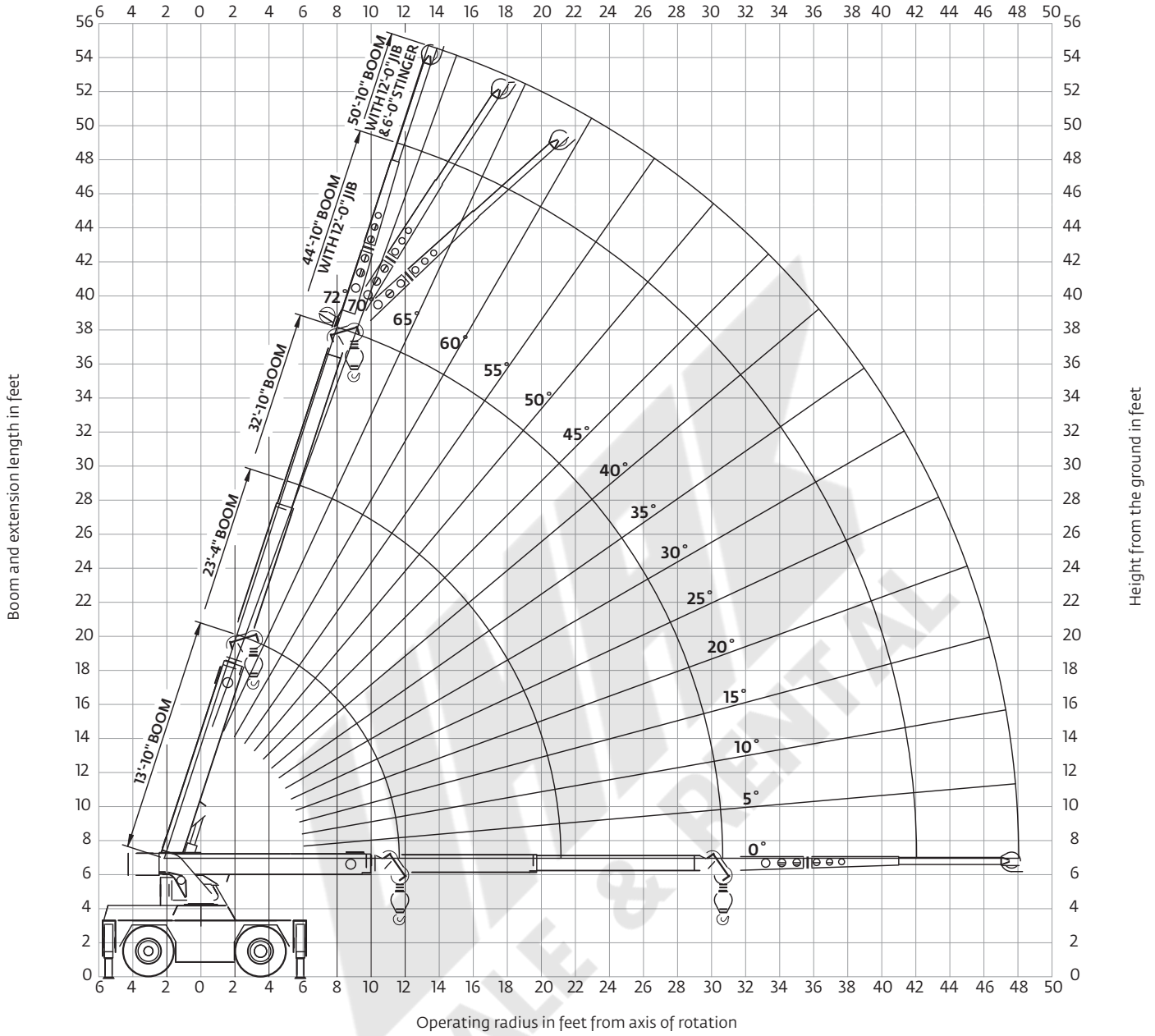
8) Do not induce any external side loads to boom or jib.

1303154YB

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

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.

Load chart

YB4411

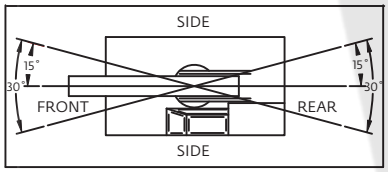
	RADIUS (ft)	ON OUTRIGGERS (lb)				ON RUBBER (lb)	
		EXTENDED 360° RETRACTED F/R		RETRACTED 360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	4.0	21,000	15,000	19,625	13,975	11,500	11,500
	5.0	18,000	14,700	16,800	13,700	11,500	9400
	6.0	15,700	14,400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

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

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

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

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



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

RIGGING CHART	
1-PART 0-10,000 lb	2-PART 0-21,000 lb
WIRE ROPE: 9/16 inch diameter Min. breaking strength 36,750 lb	

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.

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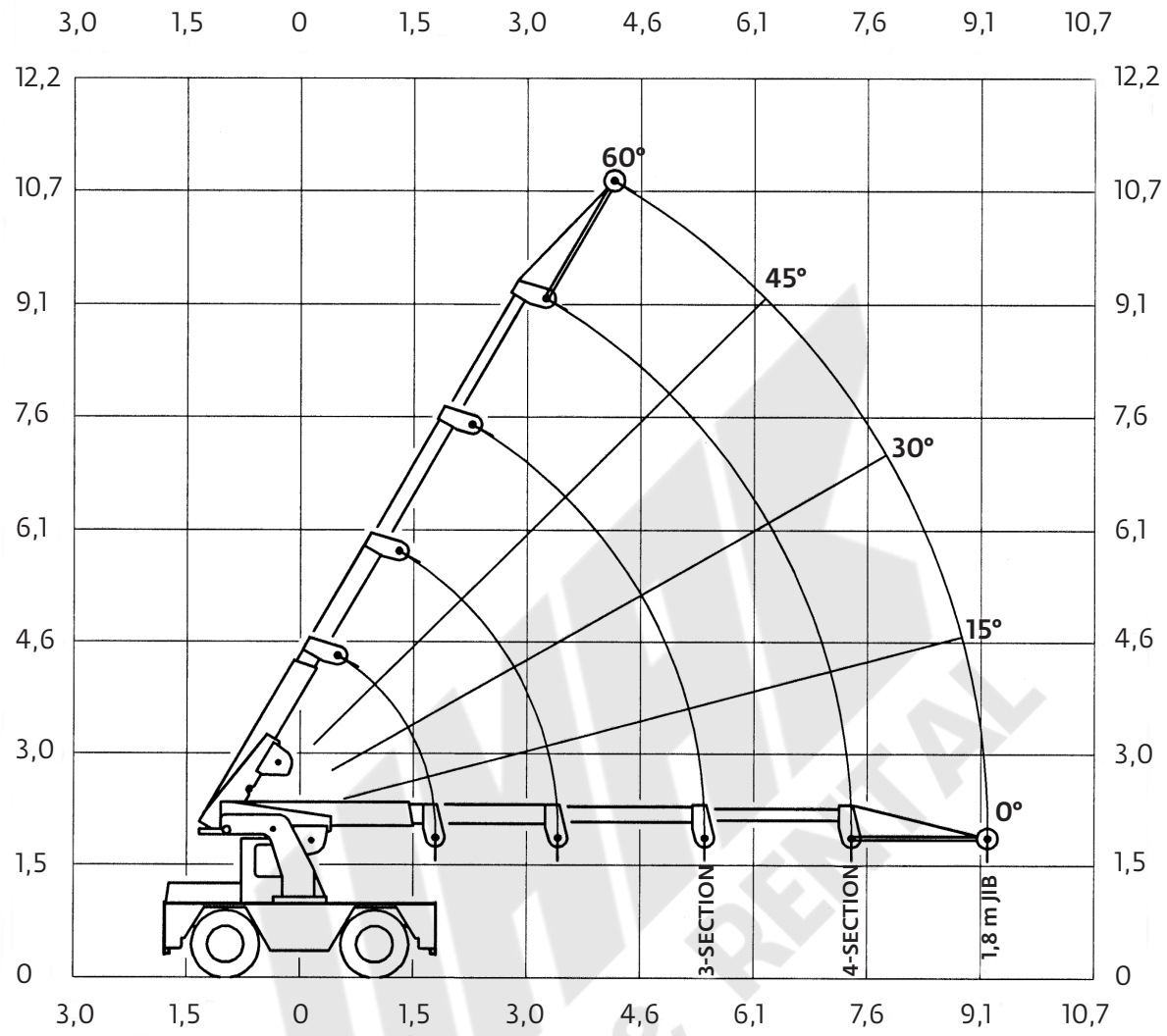
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Metric 85% range diagram

YB4409



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

SALE & RENTAL

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Metric 85% load chart

YB4409

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

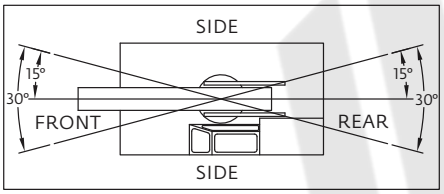
*Limit ratings to 5350 kg when third section is extended any amount.

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

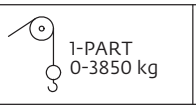
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

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



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

RIGGING CHART	
 1-PART 0-3850 kg	2-PART 0-7710 kg
WIRE ROPE: 13 mm diameter Minimum breaking strength 132,3 kN.	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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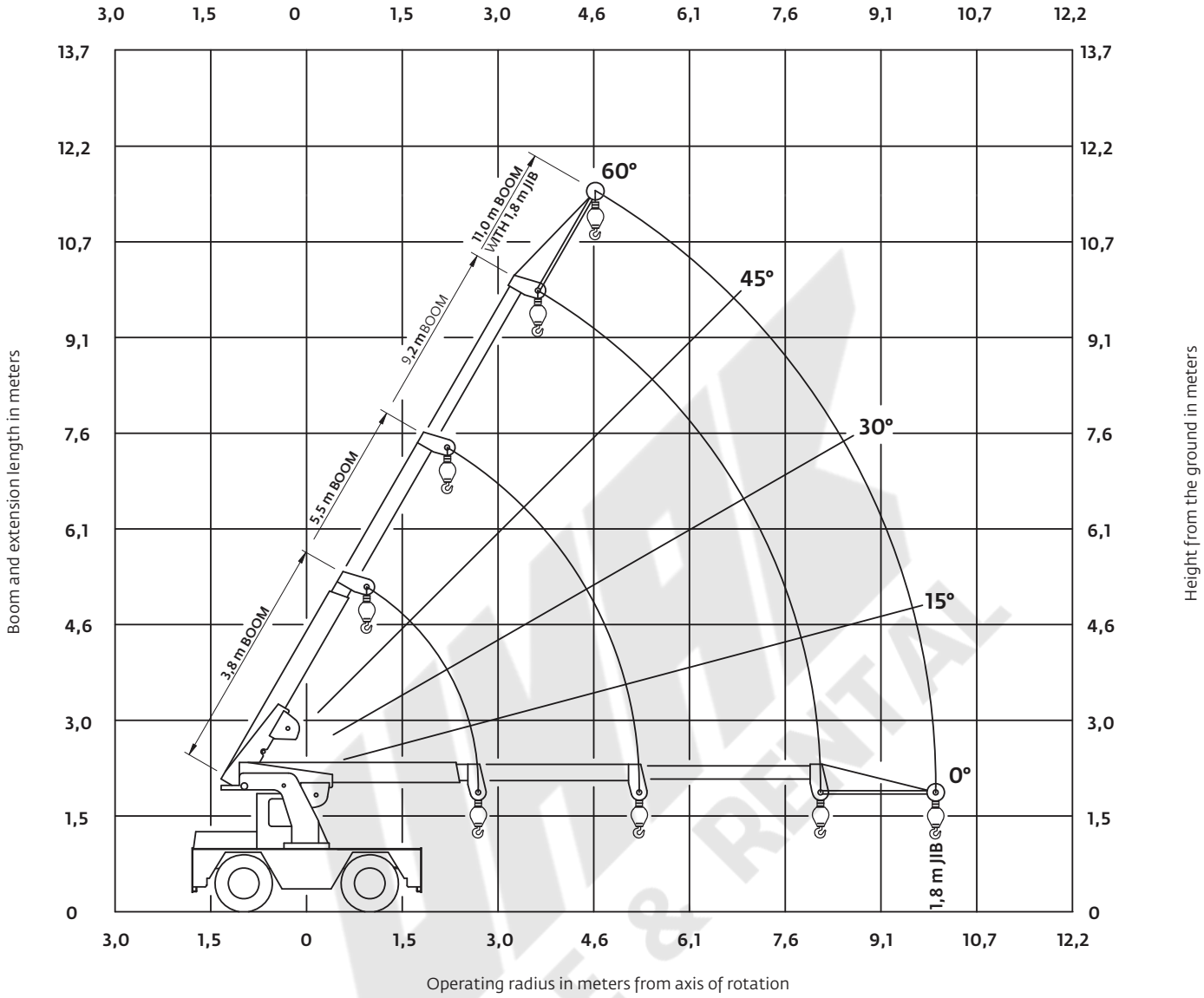
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Metric 85% range diagram

YB4409XL



SALE & RENTAL

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Metric 85% load chart

YB4409XL

Radius (m)	3-SECTION MAIN BOOM ON OUTRIGGERS (kg)	
	F/R	360°
1,5	7710	7710
1,8	7120	6530
2,4	5620	4900
3,0	4630	3860
3,7	3860	3150
4,3	3220	2630
4,9	2720	2110
5,5	2360	1720
6,1	2020	1430
6,7	1720	1220
7,3	1500	1070
7,9	1320	930
8,2	1250	870

Radius (m)	3-SECTION MAIN BOOM ON RUBBER (kg)	
	F/R	360°
1,5	4540	4540
1,8	4310	3720
2,4	3320	2320
3,0	2210	1580
3,7	1610	1160
4,3	1250	870
4,9	980	660
5,5	810	520
6,1	660	430
6,7	560	360
7,3	460	290
7,9	400	240
8,2	390	220

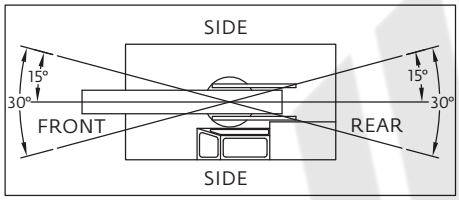
Radius (m)	3-SECTION MAIN BOOM W/1,8 m JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (kg)		ON RUBBER (kg)	
		F/R	360°	F/R	360°
5,0	60	1590	1590	910	590
5,5	57,5	1530	1530	810	520
6,1	53,5	1460	1430	660	430
6,7	49	1390	1220	560	360
7,3	44,5	1340	1070	460	290
7,9	39,5	1290	930	400	240
8,5	34	1190	830	360	190
9,1	27	1090	750	330	160
9,8	16,5	990	670	300	140
10,2	0	910	620	270	110

NOTES:

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

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

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



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

RIGGING CHART	
1-PART 0-3860 kg	2-PART 0-7710 kg
WIRE ROPE: 1/2 inch diameter Minimum breaking strength 13490 kg.	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

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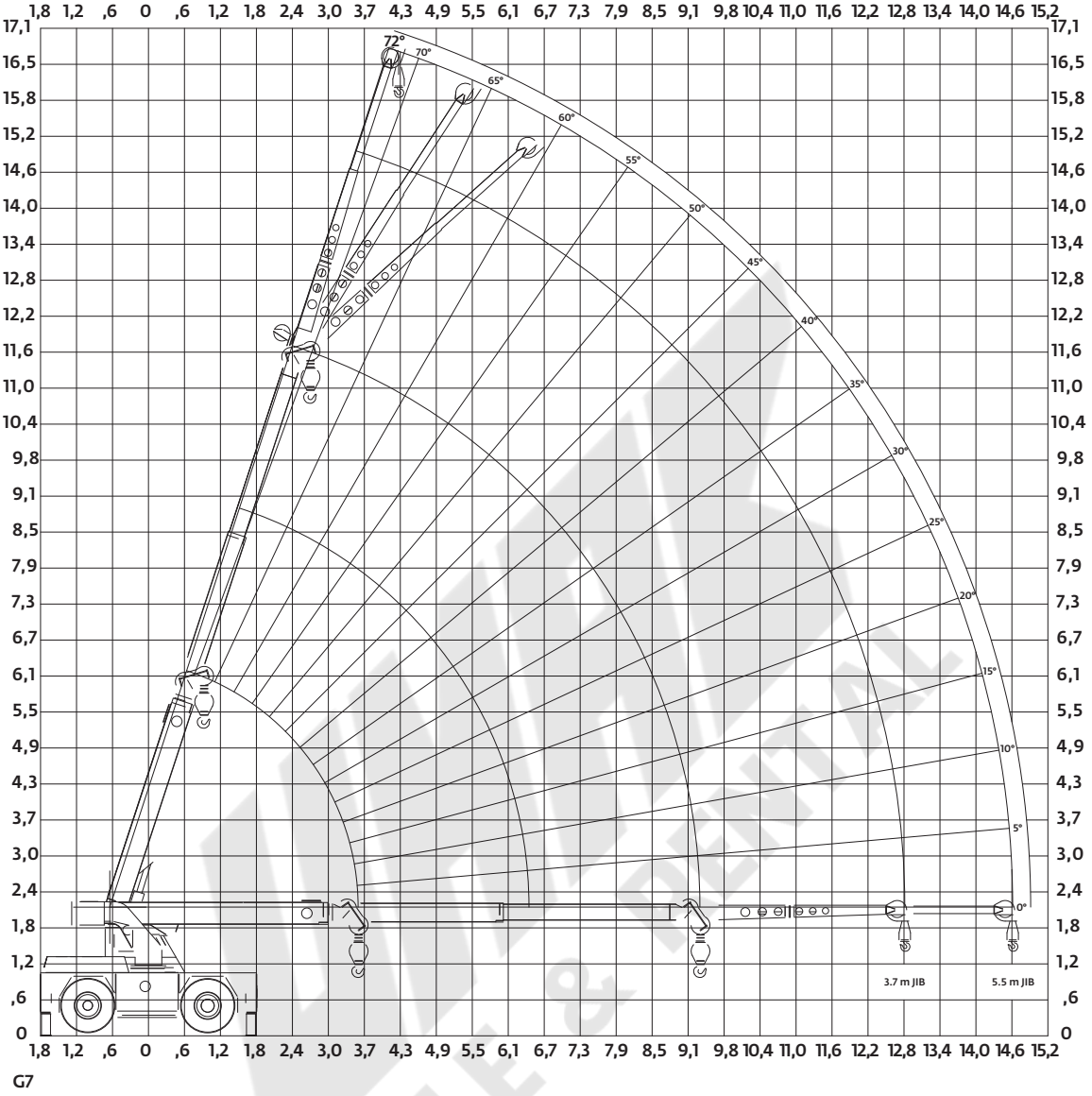
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Metric 85% range diagram

YB4409-2



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

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Metric 85% load chart

YB4409-2

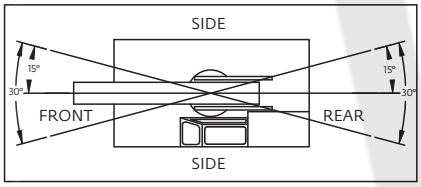
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,5	8165	6670	8165	6670	5215	4265
	1,8	7120	6530	6805	6530	4535	3400
	2,4	5535	5535	5170	5170	3675	2285
	3,0	4625	4625	4130	4130	2485	1600
	3,7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

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

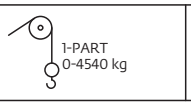
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

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



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

RIGGING CHART	
 1-PART 0-4540 kg	2-PART 0-8165 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 155,7 kN.	

1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (6,9 bar). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

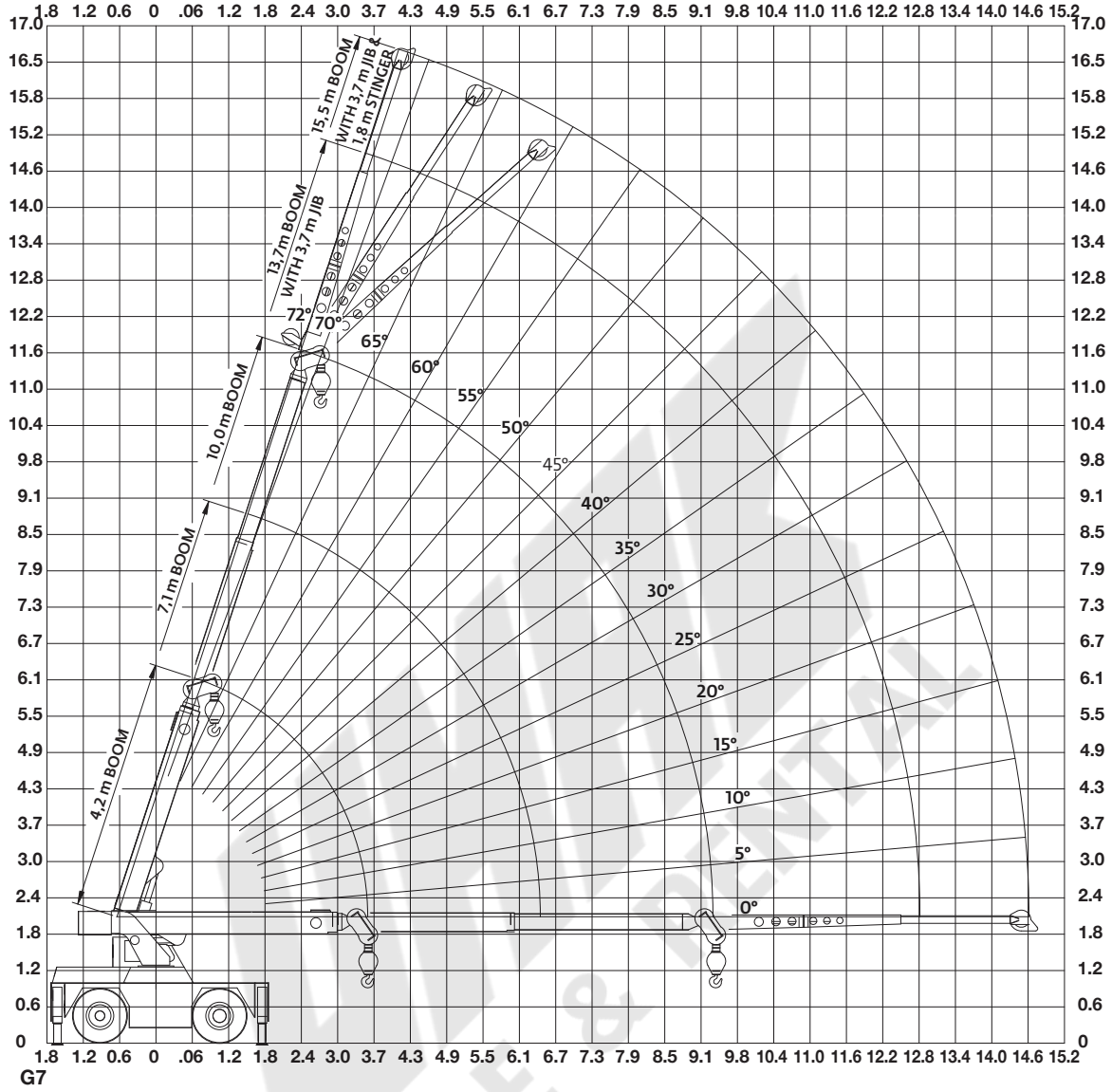
7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.

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

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.

Metric 85% range diagram

YB4411



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

SALE & RENTAL

Metric 85% load chart

YB4411

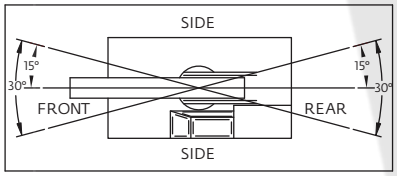
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		EXTENDED 360° RETRACTED F/R		RETRACTED 360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,2	9530	6800	8900	6340	5220	5220
	1,5	8160	6670	7620	6210	5220	4260
	1,8	7120	6530	6080	6080	4540	3540
	2,4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

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)					
	3,7 m JIB			5,5 m JIB		
	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET
72	3400	2310	1590	1810	1500	1040
70	3180	2180	1540	1700	1410	1000
65	2590	1860	1400	1450	1220	910
60	2040	1590	1270	1270	1090	840
55	1590	1360	1160	1110	980	770
50	1270	1130	1040	980	880	730
45	1040	1000	910	860	793	680
40	1000	860	820	770	730	640
35	800	760	730	690	660	610
30	730	680	640	640	590	590
25	660	640	-	580	540	-
20	610	610	-	530	510	-
15	590	590	-	500	500	-
10	580	-	-	480	-	-
5	560	-	-	460	-	-
0	540	-	-	450	-	-

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

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

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



REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	66 kg	N/A
HOOK & BALL	48 kg	48 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	200 kg	0 kg

RIGGING CHART	
1-PART 0-4540 kg	2-PART 0-9530 kg
WIRE ROPE: 14 mm diameter Min. breaking strength = 16,670 kg.	

1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. Retracted outrigger rated loads meet ASME B30.5-2004. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (125 psi). Loads on rubber may be transported at a maximum speed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

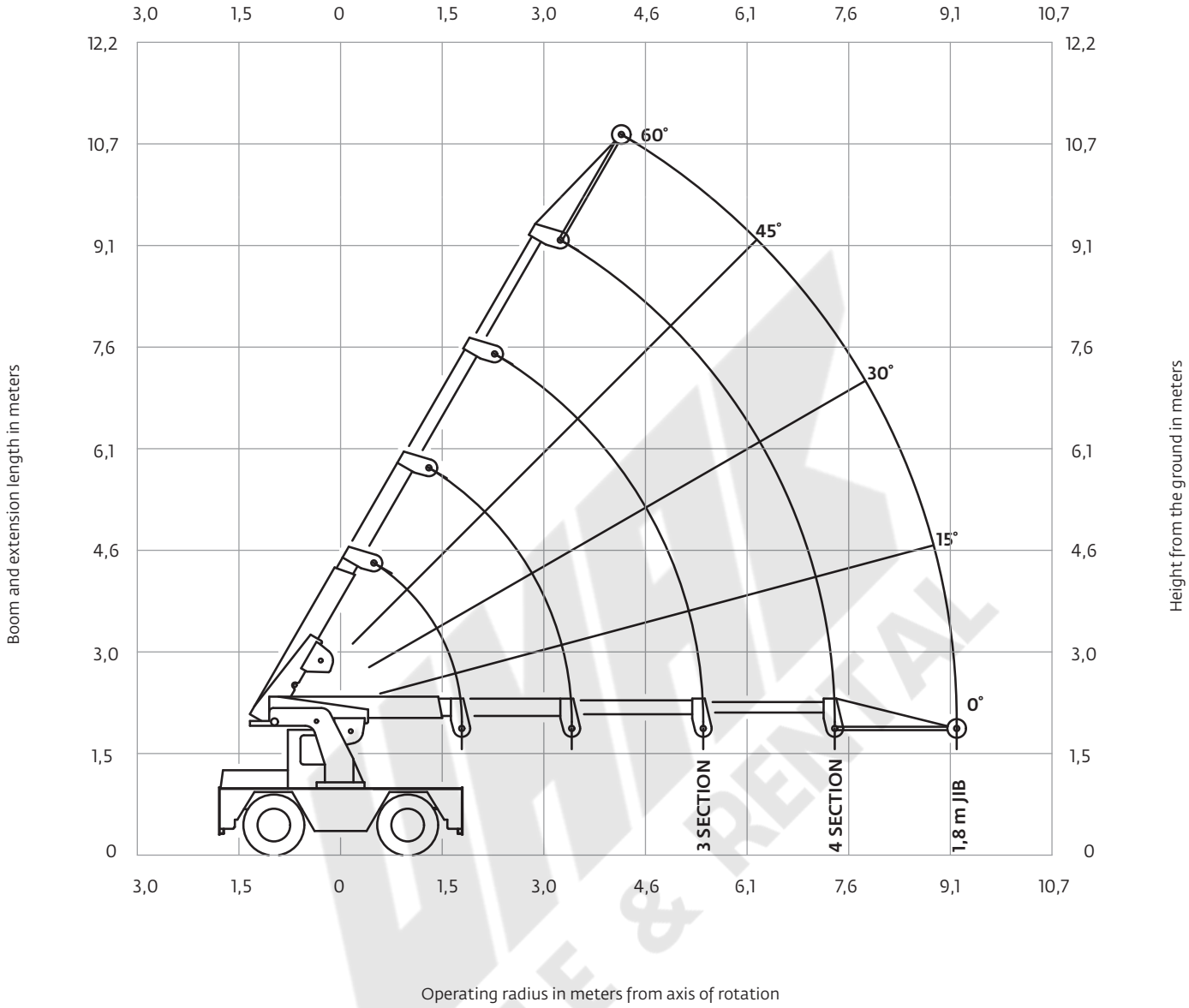
7) The maximum combined total boom and deck load is 5440 kg. The maximum deck load only is 6350 kg.

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

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



SALE & RENTAL

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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

YB4409

RADIUS (m)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (m)	4-SECTION BOOM WITH 4TH EXTENDED				
	ON OUTRIGGERS (kg)		ON RUBBER (kg)				ON OUTRIGGERS (kg)		ON RUBBER (kg)		
	F/R	360°	F/R	360°			F/R	360°	F/R	360°	
1,5	7710	7710	4540	4380	MAIN BOOM	1,5	2770	2770	2770	2770	MAIN BOOM
1,8	7120	6530	4540	3260		1,8	2770	2770	2770	2770	
2,4	5620	4900	3200	1970		2,4	2400	2400	2400	2380	
3,0	4630	3900	2080	1300		3,0	2130	2130	2130	1560	
3,7	3860	3000	1520	950		3,7	2000	2000	1660	1080	
4,3	3270	2250	1160	730		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		6,1	1800	1310	690	420	
6,7	1180	1120	590	340		6,7	1540	1110	590	340	
7,5	1000	930	480	260		7,5	1290	940	500	270	
7,9	-	-	-	-	JIB	7,9	1190	870	460	250	JIB
8,5	-	-	-	-		8,5	1080	780	410	210	
9,1	-	-	-	-		9,1	970	690	350	170	
9,4	-	-	-	-		9,4	920	660	330	150	

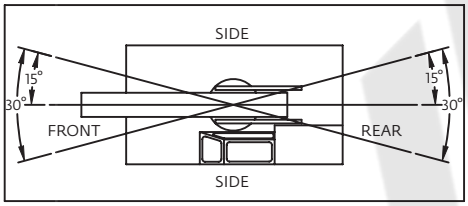
MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)	
	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED
60	1590	1588
55	1510	1508
50	1430	1429
45	1360	1361
40	1305	1304
35	1270	1270
30	1225	1225
25	1180	1179
20	1135	1134
15	1090	1089
10	1055	1055
5	1020	1021
0	1000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

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

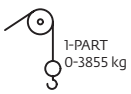
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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

RIGGING CHART	
 1-PART 0-3855 kg	2-PART 0-7710 kg
WIRE ROPE: 13mm diameter Min. breaking strength 139,8 kN	

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.

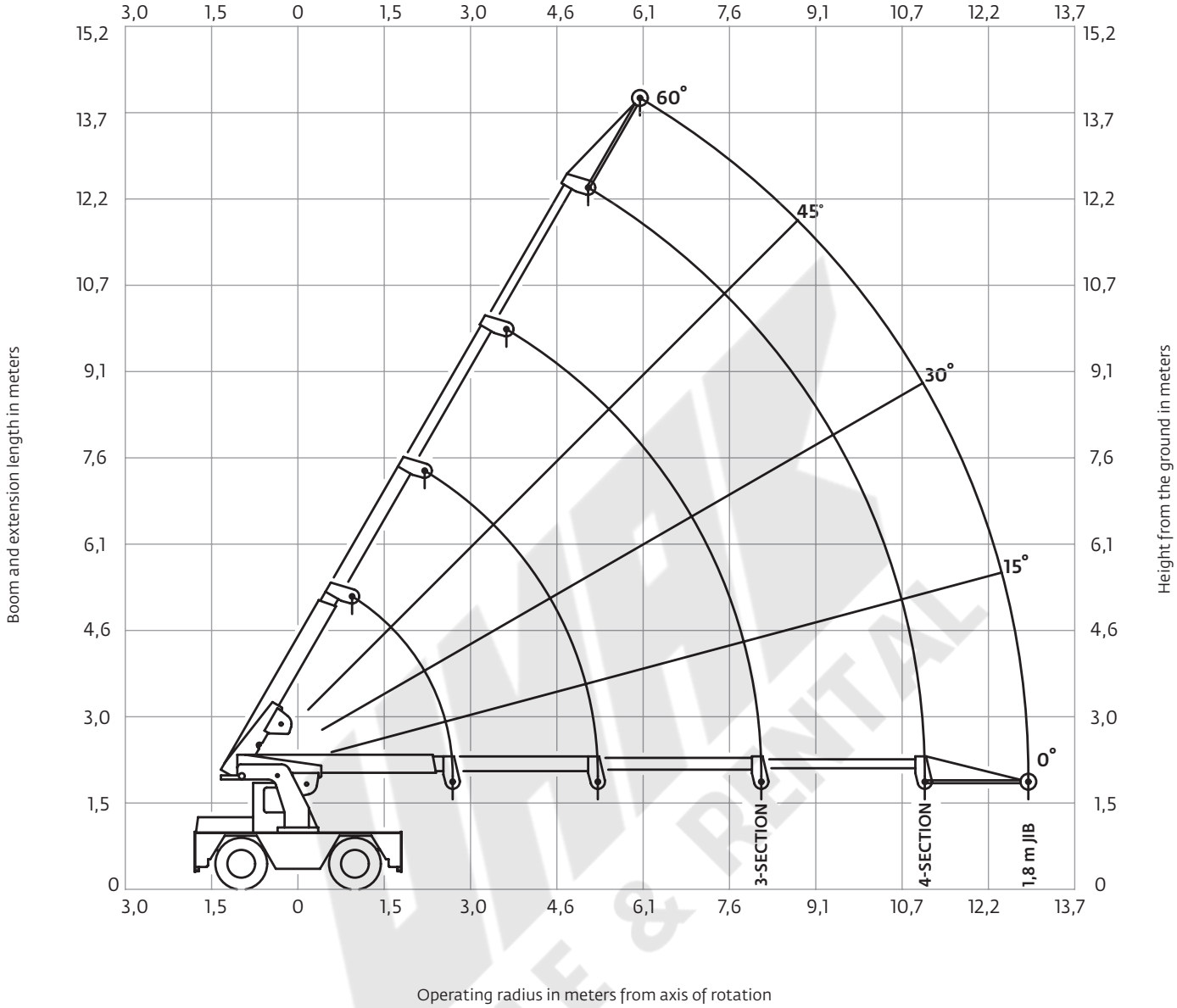
8) Do not induce any external side loads to boom or jib.

1302492YB

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

YB4409XL



SALE & RENTAL

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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

YB4409XL

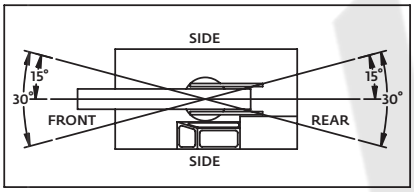
RADIUS (m)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (m)	4-SECTION BOOM WITH 4TH EXTENDED				
	ON OUTRIGGERS (kg)		ON RUBBER (kg)				ON OUTRIGGERS (kg)		ON RUBBER (kg)		
	F/R	360˚	F/R	360˚			F/R	360˚	F/R	360˚
1,5	7710	7710	4535	4535		1,5	-	-	-	-
1,8	7120	6530	4310	3720		1,8	-	-	-	-
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		3,7	1725	1725	1725	1450
4,3	3220	2550	1200	830	MAIN BOOM	4,3	1540	1540	1540	1130
4,9	2720	1930	930	610		4,9	1405	1405	1270	900
5,5	2360	1570	770	470		5,5	1315	1315	1040	720
6,1	1850	1290	630	380		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		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	-	-	-	-	JIB	12,2	610	410	150	20
12,8	-	-	-	-		12,8	570	370	130	10
13,1	-	-	-	-		13,1	540	350	120	0

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

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

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

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



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

RIGGING CHART	
1-PART 0-3855 kg	2-PART 0-7710 kg
WIRE ROPE: 13 mm diameter Min. breaking strength 139,8 kN	

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.

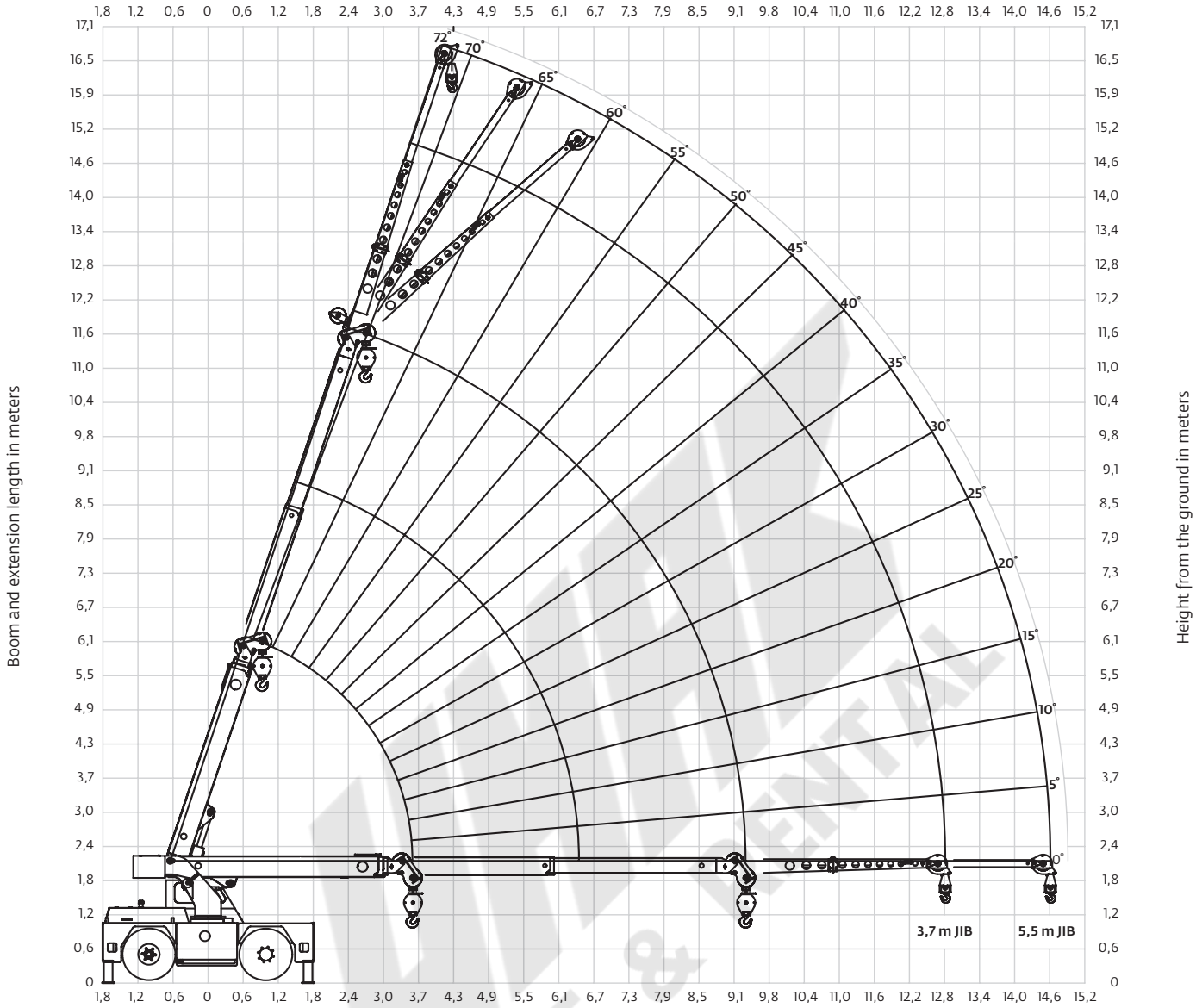
8) Do not induce any external side loads to boom or jib.

1302119YB

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



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

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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

YB4409-2

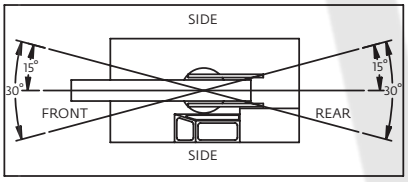
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6800	6530	4540	3360
	2,4	5530	5530	5170	5170	3670	2240
	3,0	4630	4630	4130	4130	2440	1550
	3,7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

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

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

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

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



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

RIGGING CHART	
1-PART 0-4540 kg	2-PART 0-8160 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 161,3 kN	

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.

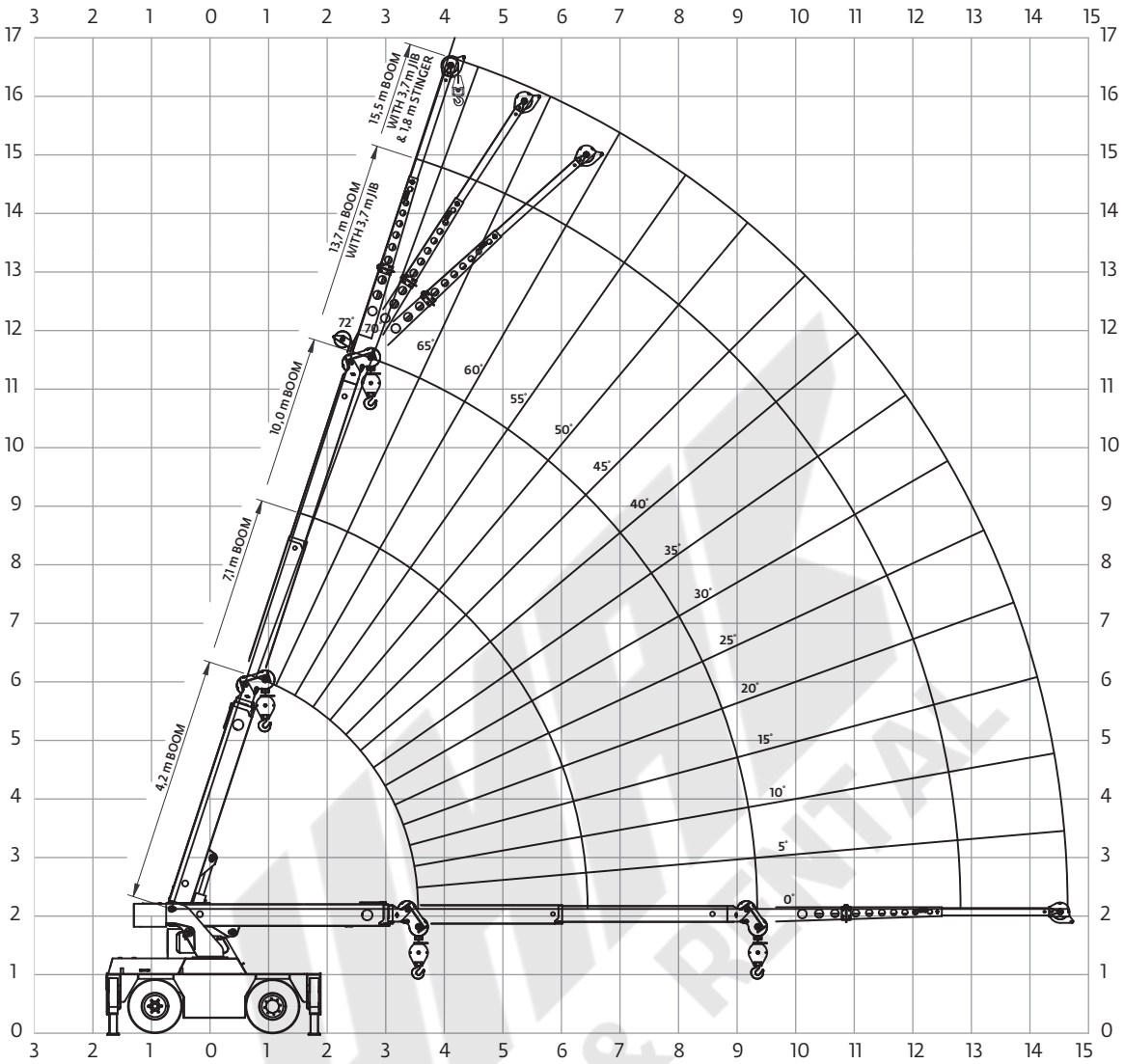
8) Do not induce any external side loads to boom or jib.

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.

DIN/ISO range diagram

YB4411



Boom and extension length in meters

Height from the ground in meters

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

YB4411

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

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)					
	3,7 m JIB			5,5 m JIB		
	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	-	-

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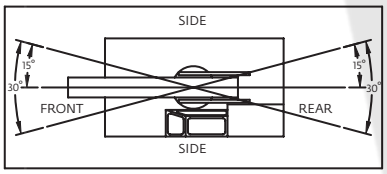
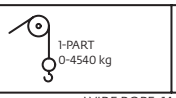


REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	60 kg	N/A
HOOK & BALL	45 kg	45 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	200 kg	0 kg

RIGGING CHART	
 1-PART 0-4540 kg	2-PART 0-9530 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 172,8 kN	

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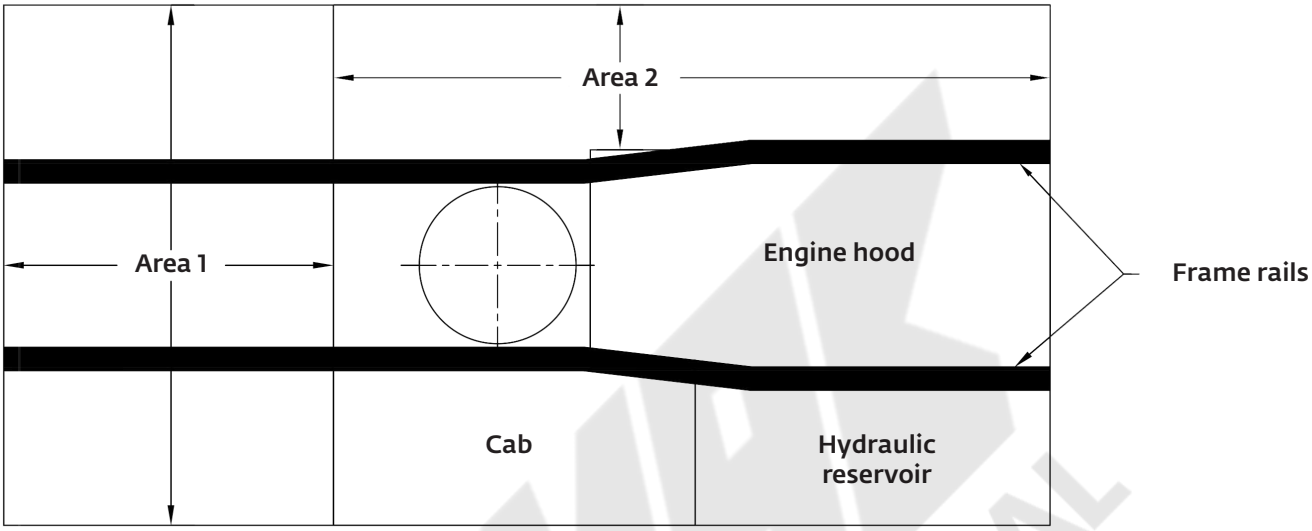
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Load distribution chart

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

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



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Symbols glossary

Axles

Counterweight

Grade

Outriggers

Boom

Drive

Heavy duty jib

Radius

Boom elevation

Electrical system

Hoist

Rotation

Boom extension

Engine

Hookblock

Speed

Boom length

Extension

Hydraulic system

Steering

Boom nose

Frame

Lights

Suspension

Brakes

Fuel tank capacity

Oil

Swing

Cab

Gear

Outrigger controls

Tires

Transmission

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Notes

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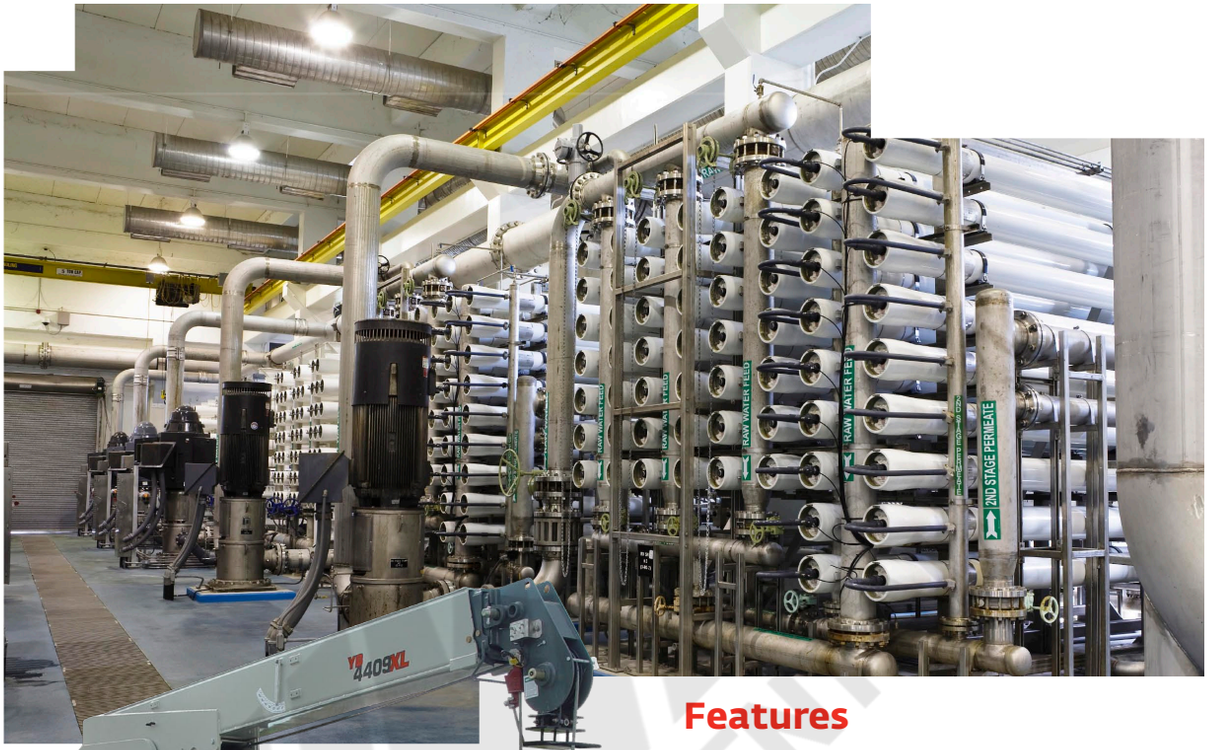
Form No. YB4400 Series PG PDF Update
Part No.04-019/PDF/1014

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

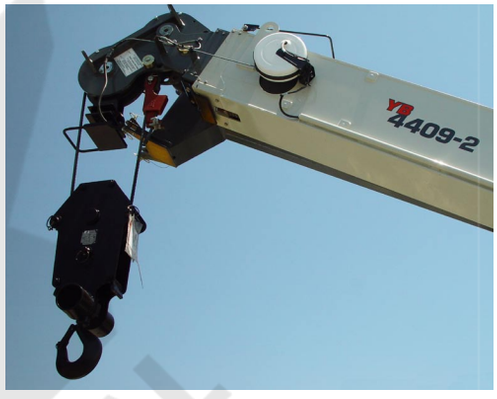
Features

Boom

Standard:
6,4m (21 ft) main boom on the YB4409.
9,1m (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 YB4409-XL 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 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)

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SALE & RENTAL

Specifications

Superstructure

Boom

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

YB4409XL: 3,8 m – 9,2 m (12 ft 8 in – 30 ft 2 in) three- section full power boom.
Maximum tip height: 10,2 m (33 ft 6 in)

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

Maximum tip height: 11,6 m (38 ft 2 in)

*Optional boom

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

*Boom extension

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

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

Boom nose

YB4409 / XL: Single sheave non-pivoting

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

Boom elevation

Single double acting hydraulic cylinder with integral holding valve.
Elevation: 0° to 60° for the **YB4409 and YB4409XL**
0° to 72° for the **YB4409-2 and YB4411**

Anti-two block device

Standard anti-two block device, when activated, provides an audible warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.

Load indicator (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.

(wireless system)

*Rated Capacity Limiter (RCL)

Similar to the Load Indicator, but stops the telescope out and boom lift down function when a load limit is exceeded. Uses a similar display panel with the addition of displaying boom angle and boom length read outs on the panel.

(wireless system)

*Load Moment Indicator (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)

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.

**Denotes optional equipment*

Specifications

Superstructure continued

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.

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 (8,500 lb)
(12,7mm [1/2 inch] Python Ultra XIPS)
YB4409-2 and YB4411: 4536 kg (10,000 lb)
(14,0mm [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. 42 ft.^{2} 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

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. The LSI (load indicator) receiver is mounted to the top of the dash and provides warning for A2B and exceeded load capacity.

**Denotes optional equipment*

Specifications

*Operators control station enclosed

Includes the standard cab shell with the addition of front and rear glass and glass on the right side. Hinged full 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.

Electrical system

One 12V maintenance free battery, 820CCA at 0°.
Jump start connections.
63 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.

Outside turning radius:
YB4409 / XL / YB4409-2:
Two w/s: 4,47 m (14 ft 8 in)
Four w/s: 3,10 m (10 ft 2 in)
YB4411:
Two w/s: 4,88 m (16 ft)
Four w/s: 3,17 m (10 ft 5 in)

Transmission

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

YB4411: Powershift -four-gears forward and four gears in 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 16PR 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 hookblock.;
YB4409 / XL: 8,0 t (8.5 USt)
YB4409-2: 8,1 t (9USt)
YB4411: 10 t (10.5 USt)
Back-up alarm

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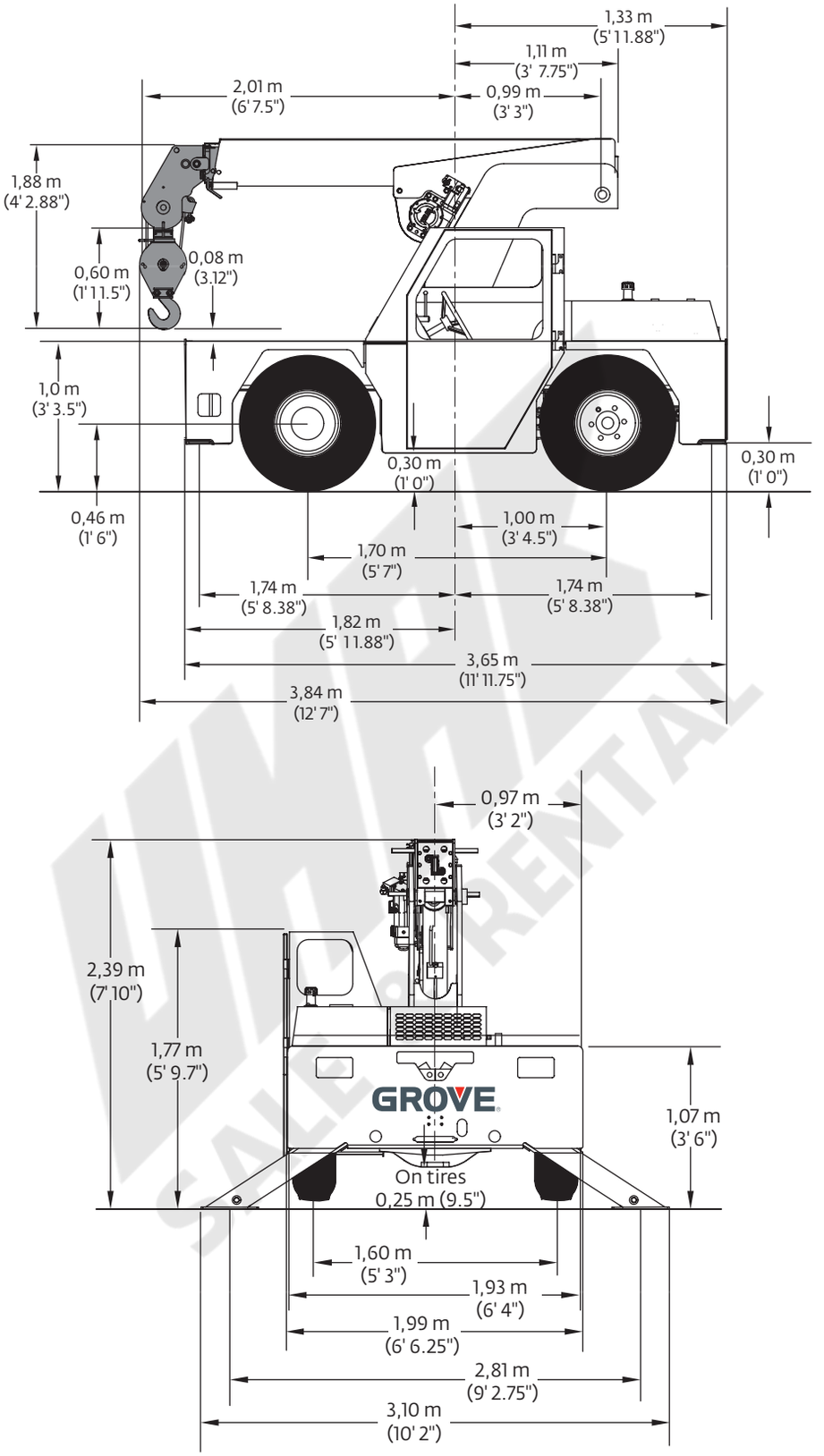
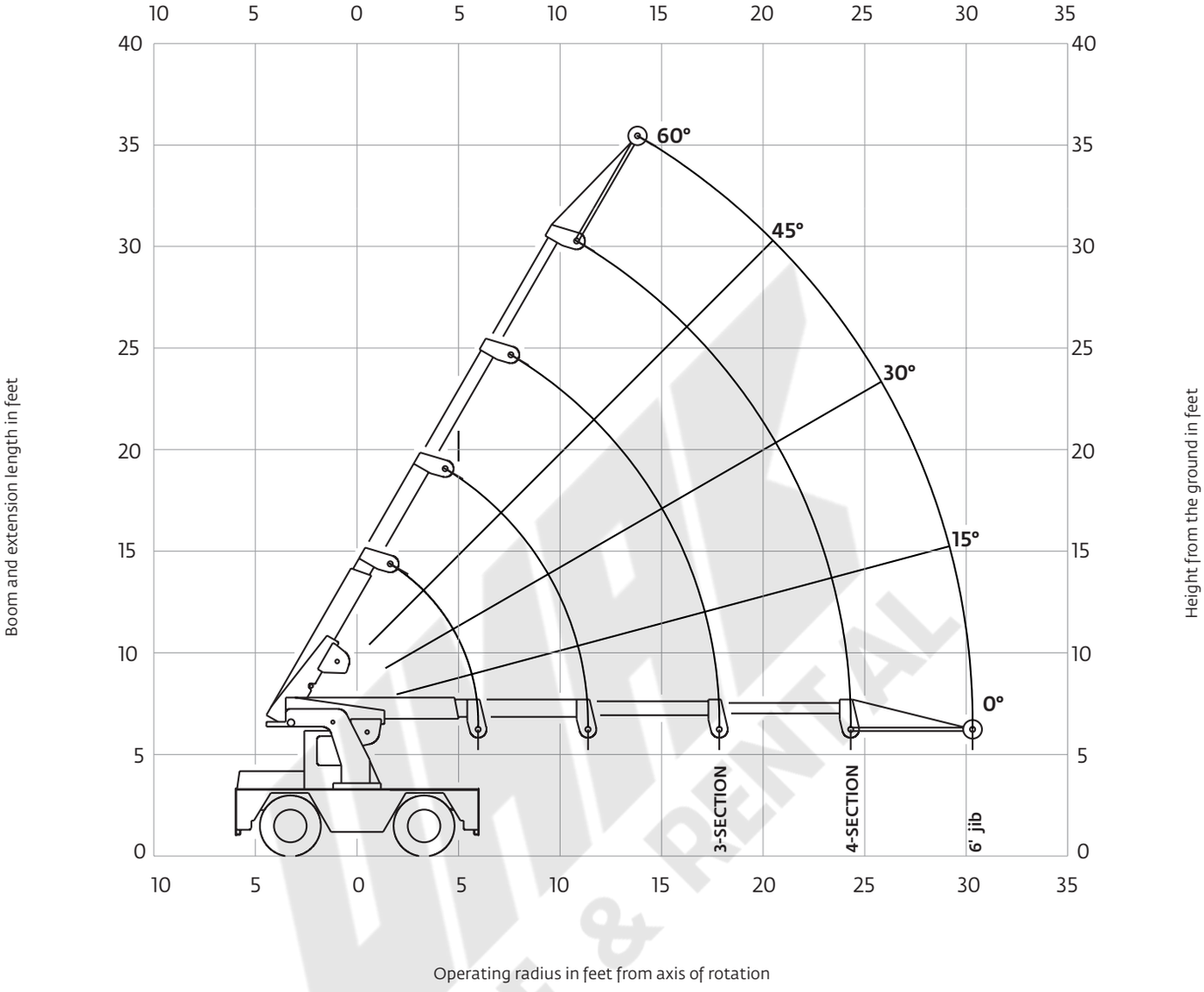
**Denotes optional equipment*

YB4409


1,33 m
(5' 11.88")
1,11 m
(3' 7.75")
2,01 m
(6' 7.5")
0,99 m
(3' 3")
1,88 m
(4' 2.88")
0,60 m
(1' 11.5")
0,08 m
(3.12")
1,0 m
(3' 3.5")
0,30 m
(1' 0")
0,30 m
(1' 0")
0,46 m
(1' 6")
1,00 m
(3' 4.5")
1,70 m
(5' 7")
1,74 m
(5' 8.38")
1,74 m
(5' 8.38")
1,82 m
(5' 11.88")
3,65 m
(11' 11.75")
3,84 m
(12' 7")
0,97 m
(3' 2")
2,39 m
(7' 10")
1,77 m
(5' 9.7")
GROVE
1,07 m
(3' 6")
On tires
0,25 m (9.5")
1,60 m
(5' 3")
1,93 m
(6' 4")
1,99 m
(6' 6.25")
2,81 m
(9' 2.75")
3,10 m
(10' 2")

Range diagram

YB4409



SALE & RENTAL

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

RADIUS (ft)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (ft)	4-SECTION BOOM WITH 4TH EXTENDED			
	ON OUTRIGGERS (lb)		ON RUBBER (lb)				ON OUTRIGGERS (lb)		ON RUBBER (lb)	
	F/R	360°	F/R	360°			F/R	360°	F/R	360°
5.0	* 17,000	* 17,000	10,000	10,000	MAIN BOOM	5.0	6100	6100	6100	6100
6.0	* 15,700	* 14,400	10,000	7450		6.0	6100	6100	6100	6100
8.0	* 12,400	10,800	7150	4400		8.0	5300	5300	5300	5250
10.0	10,200	8600	4700	2950		10.0	4700	4700	4700	3750
12.0	8500	7000	3400	2175		12.0	4400	4400	3800	2450
14.0	7200	5400	2650	1700		14.0	4400	4400	2900	1875
16.0	6100	4300	2150	1325		16.0	4400	4400	2325	1525
18.0	5000	3550	1775	1100		18.0	4400	4100	1900	1225
20.0	2700	2700	1525	950		20.0	4300	3150	1600	1000
22.0	2600	2600	1350	825		22.0	3700	2700	1375	850
24.5	2200	2200	1190	675		24.5	3100	2300	1200	700
26.0	-	-	-	-	JIB	26.0	2700	2125	1100	650
28.0	-	-	-	-		28.0	2500	1900	975	575
30.0	-	-	-	-		30.0	2300	1700	850	475
31.0	-	-	-	-		31.0	2200	1625	800	425

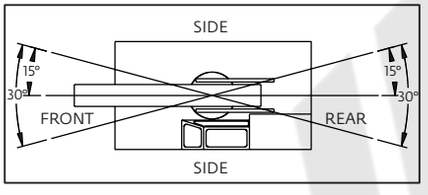
MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (lb)	
	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED	4-SECTION BOOM WITH 4TH EXTENDED
60	3500	3500
55	3325	3325
50	3150	3150
45	3000	3000
40	2875	2875
35	2800	2800
30	2700	2700
25	2600	2600
20	2500	2500
15	2400	2400
10	2325	2325
5	2250	2250
0	2200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

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

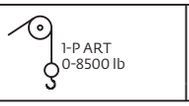
NOTES:
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

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.



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

RIGGING CHART	
 1-PART 0-8500 lb	2-PART 0-17,000 lb
WIRE ROPE: 1/2 inch diameter Min. breaking strength 29,750 lb	

1) The rated loads are the maximum lift capacities as determined by operating radius, boom extension and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hookblocks, 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.

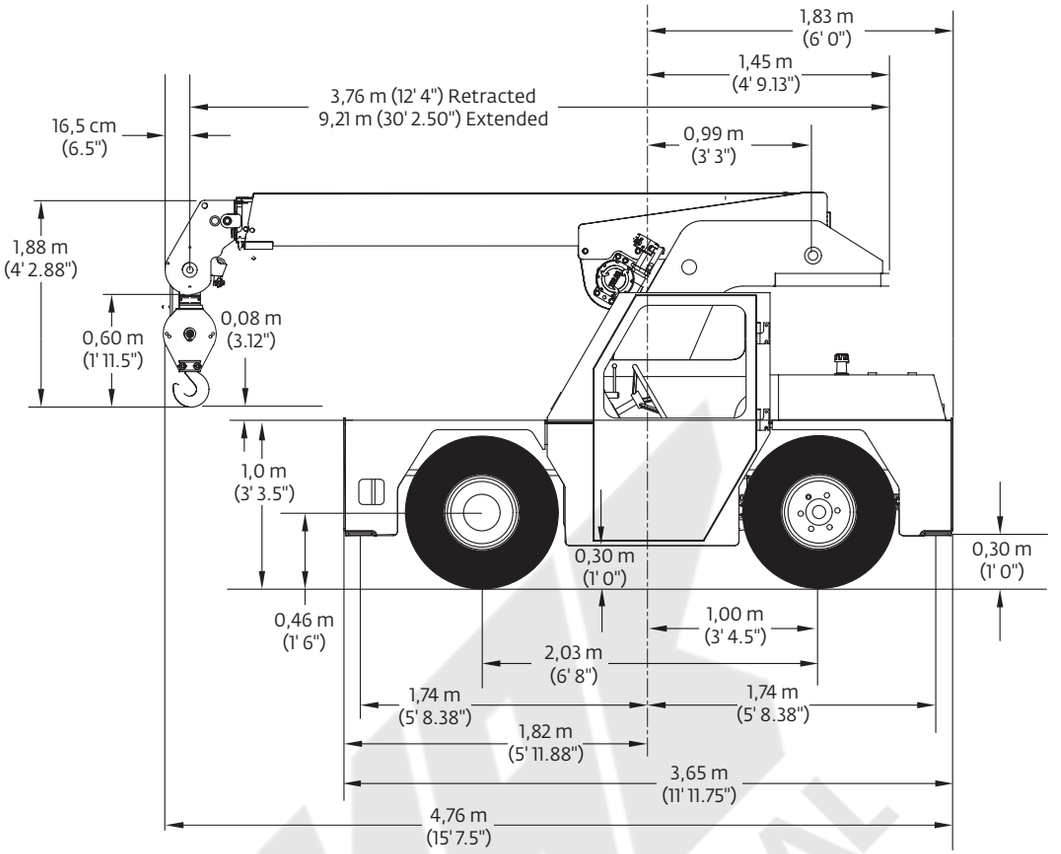
8) Do not induce any external side loads to boom or jib.

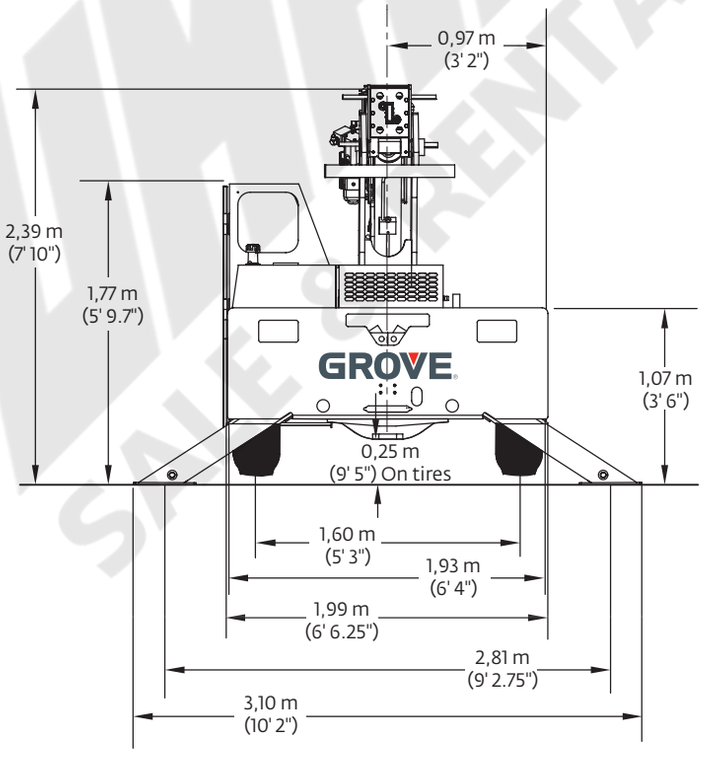
1301286YB

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

YB4409XL





SALE RENTAL

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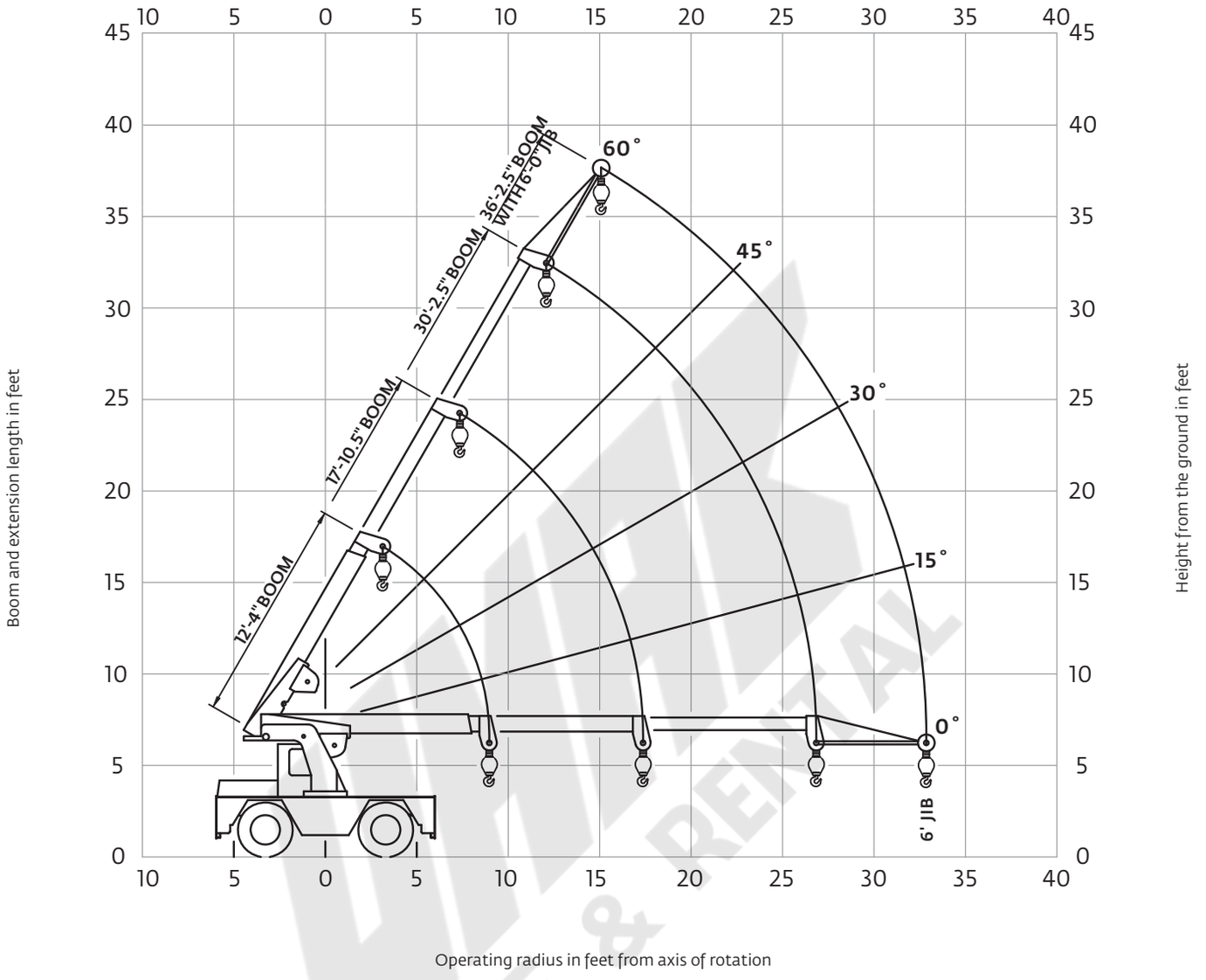
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Range diagram

YB4409XL
(Three-section boom)



SALE & RENTAL

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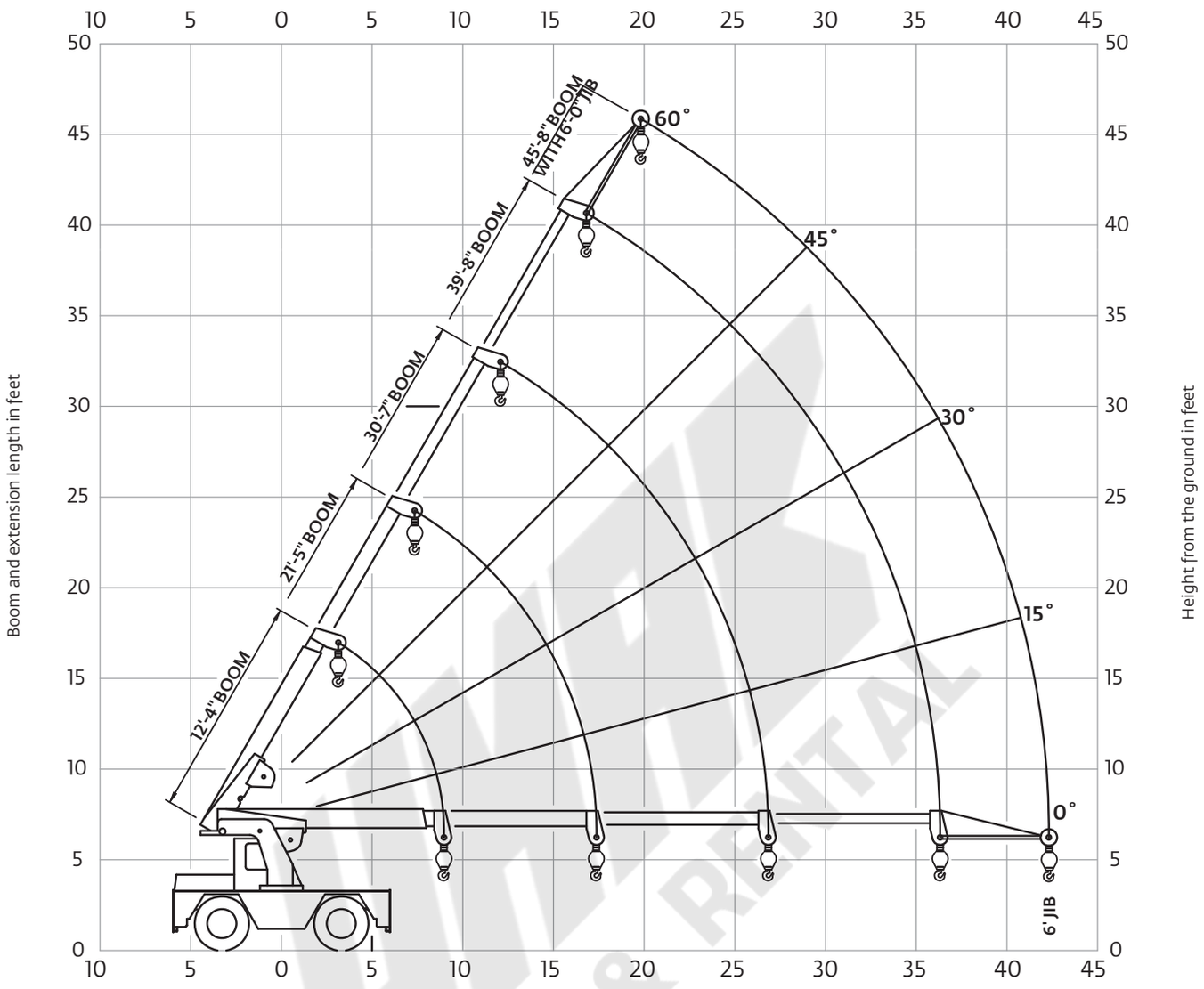
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Range diagram

YB4409XL
(Four-section boom)



SALE & RENTAL

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
(Three-section boom)

Radius (ft)	3-SECTION MAIN BOOM ON OUTRIGGERS (lb)	
	F/R	360°
5	17,000	17,000
6	15,700	14,400
8	12,400	10,800
10	10,200	8500
12	8500	6950
14	7100	5800
16	6000	4650
18	5200	3800
20	4450	3150
22	3800	2700
24	3300	2350
26	2900	2050
27	2750	1925

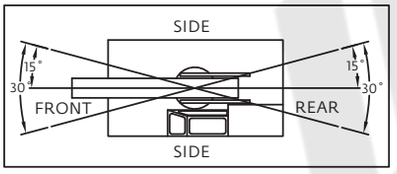
Radius (ft)	3-SECTION MAIN BOOM ON RUBBER (lb)	
	F/R	360°
5	10,000	10,000
6	9500	8200
8	7325	5125
10	4875	3475
12	3550	2550
14	2750	1925
16	2150	1450
18	1775	1150
20	1450	950
22	1225	800
24	1025	650
26	875	525
27	850	475

Radius (ft)	3-SECTION MAIN BOOM W/6 FT JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
		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.



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

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	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface., operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

80017680

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

YB4409XL
(Four-section boom)

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH RETRACTED			
	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
	F/R	360°	F/R	360°
5	17000	17000	10000	10000
6	15700	14400	9500	8200
8	12400	10800	8000	5600
10	10200	8500	5400	3800
12	8500	6950	3800	2700
14	7100	5800	2750	1950
16	6000	4650	2150	1450
18	5200	3800	1800	1150
20	4450	3150	1500	950
22	3800	2700	1300	775
24	3300	2350	1100	600
26	2900	2050	900	450
27	2750	1925	825	375

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH EXTENDED			
	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
	F/R	360°	F/R	360°
5	-	-	-	-
6	-	-	-	-
8	4900	4900	4900	4900
10	4300	4300	4300	4250
12	3800	3800	3800	3300
14	3400	3400	3400	2600
16	3100	3100	2900	2100
18	2900	2900	2400	1700
20	2900	2900	1950	1350
22	2900	2900	1600	1050
24	2900	2650	1350	850
26	2900	2300	1100	700
27	2900	2150	1000	650
28	2750	2000	925	600
30	2450	1800	800	500
32	2200	1600	700	400
33.5	1975	1400	625	325
36	1775	1250	550	250

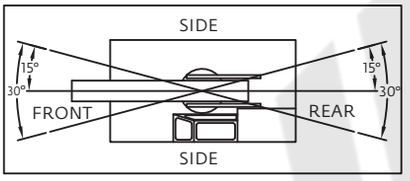
NOTES:
OPERATE WITH JIB BY RADIUS WHEN MAIN BOOM IS FULLY EXTENDED (WITH 4TH SECTION EXTENDED OR RETRACTED) AND BY BOOM ANGLE WHEN MAIN BOOM IS PARTIALLY EXTENDED. DO NOT EXCEED JIB CAPACITIES AT ANY PARTIALLY EXTENDED BOOM LENGTH.

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

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

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH RETRACTED W/ 6 FT JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
		F/R	360°	F/R	360°
16.4	60	3500	3500	2000	1300
18	57.5	3375	3375	1800	1150
20	53.5	3225	3150	1500	950
22	49	3075	2700	1300	800
24	44.5	2950	2350	1100	650
26	39.5	2850	2050	925	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

Radius (ft)	4-SECTION MAIN BOOM W/ 4TH EXTENDED W/ 6 FT JIB DEPLOYED				
	LOADED BOOM ANGLE (deg)	ON OUTRIGGERS (lb)		ON RUBBER (lb)	
		F/R	360°	F/R	360°
22	60	2900	2900	1600	1050
24	57	2900	2650	1350	850
26	54	2900	2300	1100	700
28	50.5	2750	2000	925	600
30	47	2450	1800	800	500
32	43	2200	1600	700	400
33.5	40	1975	1400	625	325
36	34.5	1775	1250	550	250
38	29	1650	1150	500	200
40	22.5	1550	1075	450	150
42	11.5	1450	1000	400	125
43	0	1400	950	375	100



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

RIGGING CHART	
1-PART 0 - 8500 lb	2-PART 0 - 17000 lb
WIRE ROPE: 1/2 inch diameter Minimum breaking strength 29,750 lb	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

80017732

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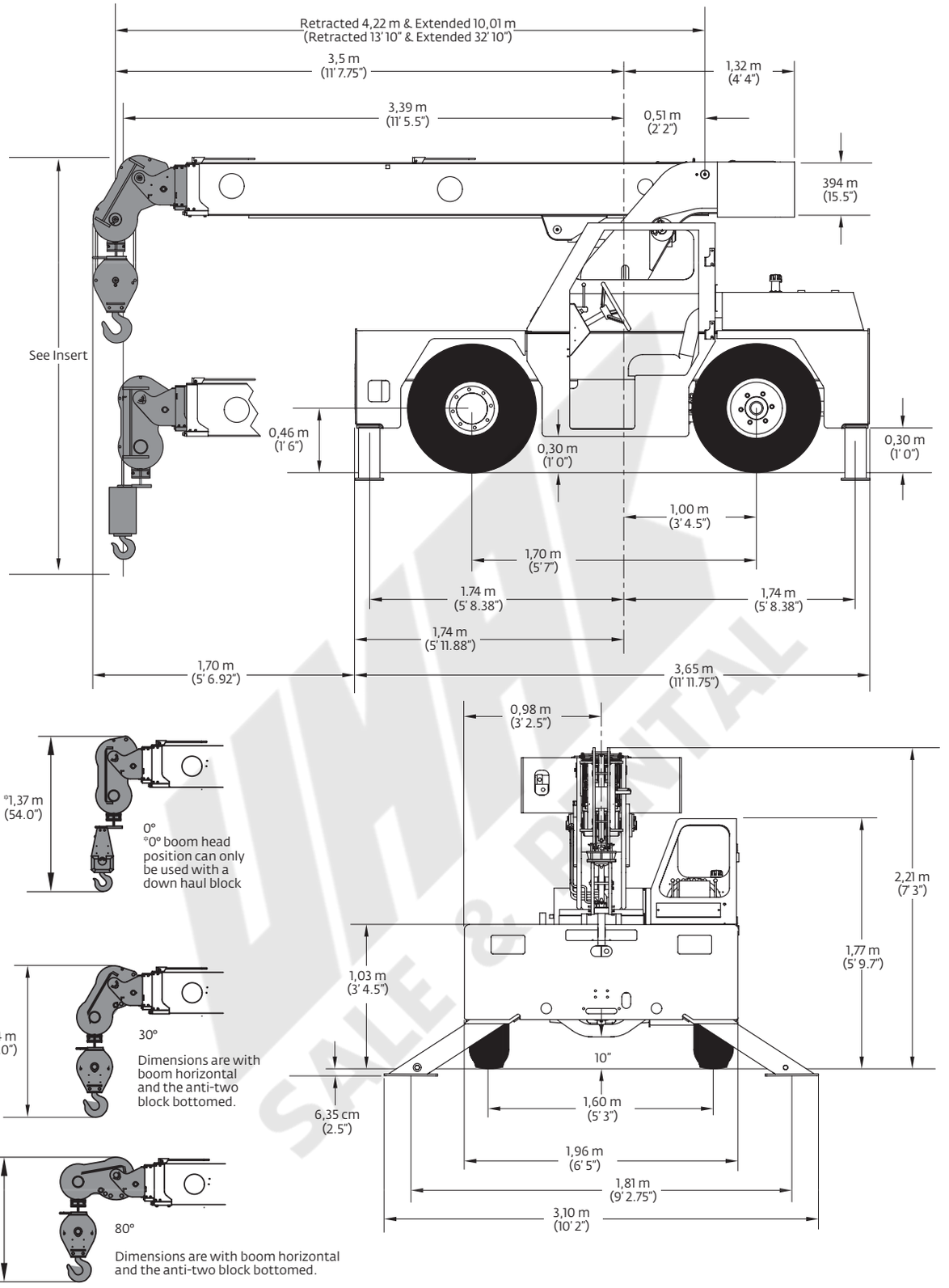
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

YB4409-2



SALE & RENTAL

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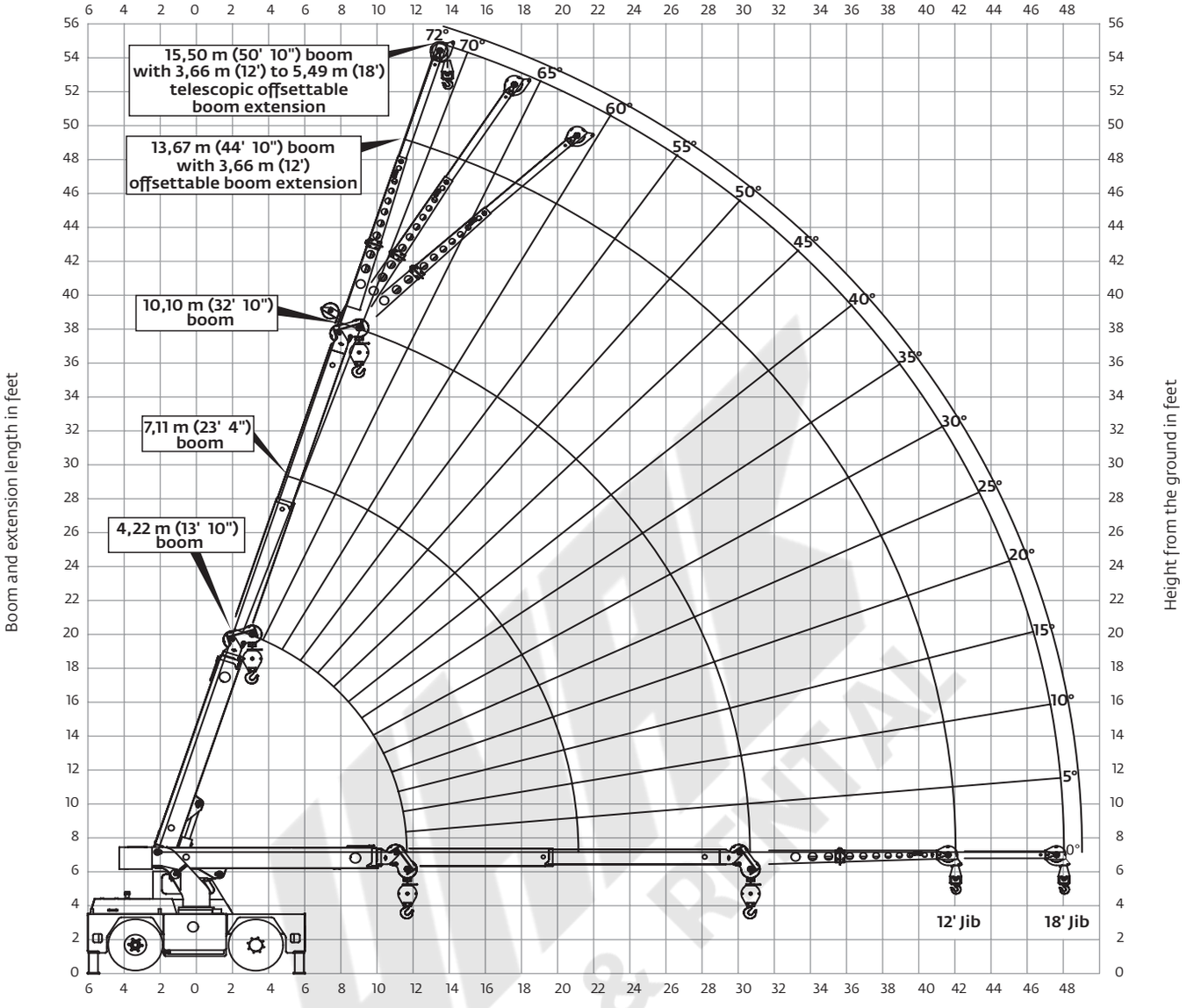
Range diagram

YB4409-2



SALE & RENTAL

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Load chart

YB4409-2

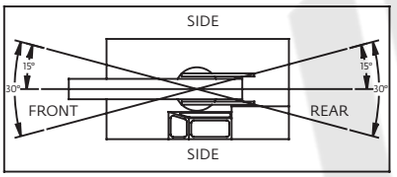
	RADIUS (ft)	ON OUTRIGGERS (lb)				ON RUBBER(lb)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	5.0	18,000	14,700	18,000	14,700	11,500	9400
	6.0	15,700	14,400	15,000	14,400	10,000	7500
	8.0	12,200	12,200	11,400	11,400	8100	5040
	10.0	10,200	10,200	9100	9100	5480	3530
	12.0	8400	8400	7600	7600	3920	2590
	14.0	-	7200	-	6500	3040	1970
	16.0	-	6200	-	5310	2420	1560
	18.0	-	5400	-	4340	1970	1250
	20.0	-	4830	-	3610	1640	1020
	22.0	-	4000	-	3030	1370	850
	24.0	-	3480	-	2590	1160	710
	26.0	-	3020	-	2250	990	590
	28.0	-	2680	-	2010	830	490
	31.0	-	2270	-	1740	650	360
JIB	34.0	-	1960	-	1500	510	250
	36.0	-	1770	-	1350	430	180
	38.0	-	1590	-	1200	350	130
	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

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

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

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

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



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

RIGGING CHART	
1-PART 0 - 10,000 lb	2-PART 0 - 18,000 lb
WIRE ROPE: 9/16 in diameter Min. breaking strength 35,000 lb	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface., operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (100 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front.

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

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

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

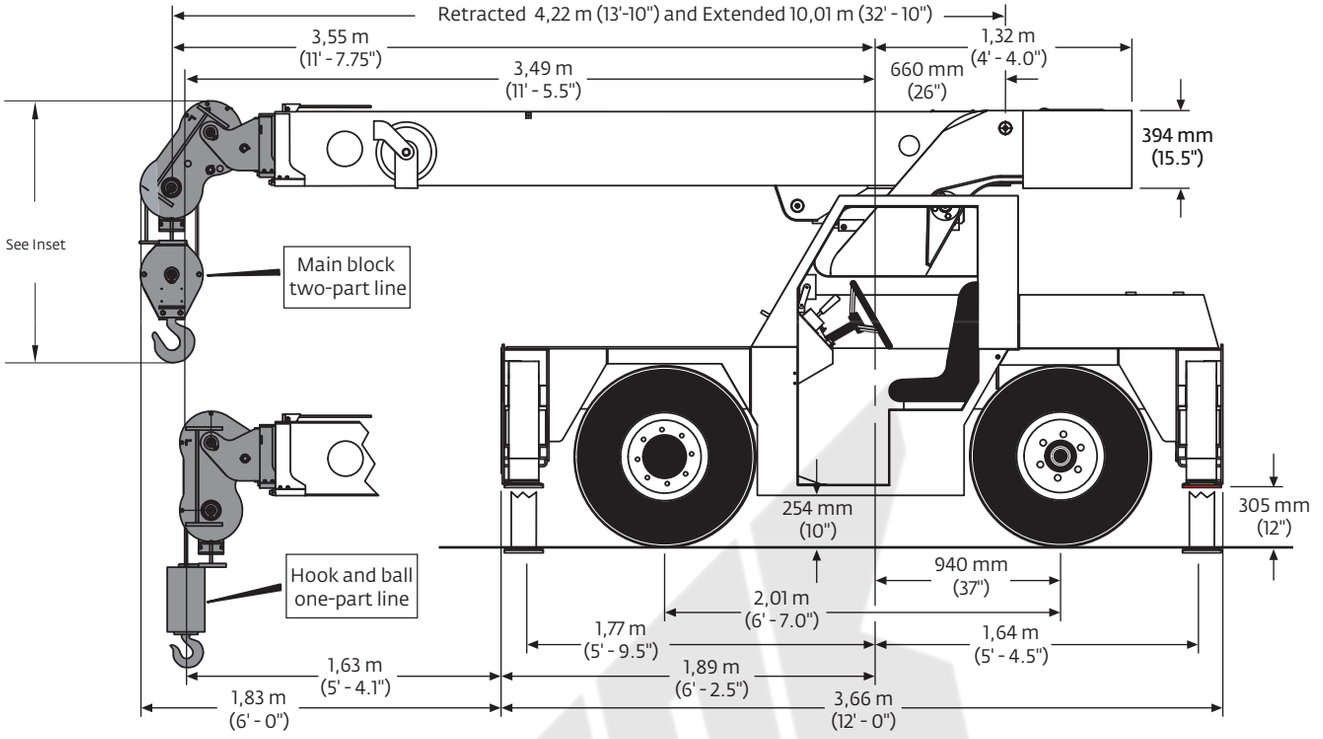
1303154YB

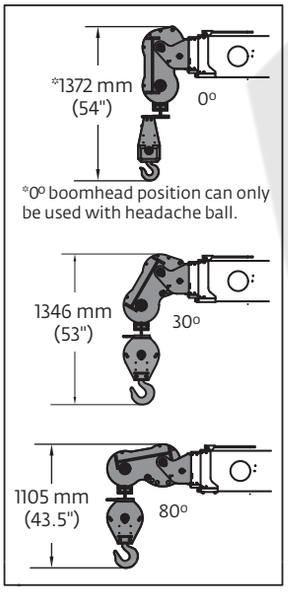
SAMPLE

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

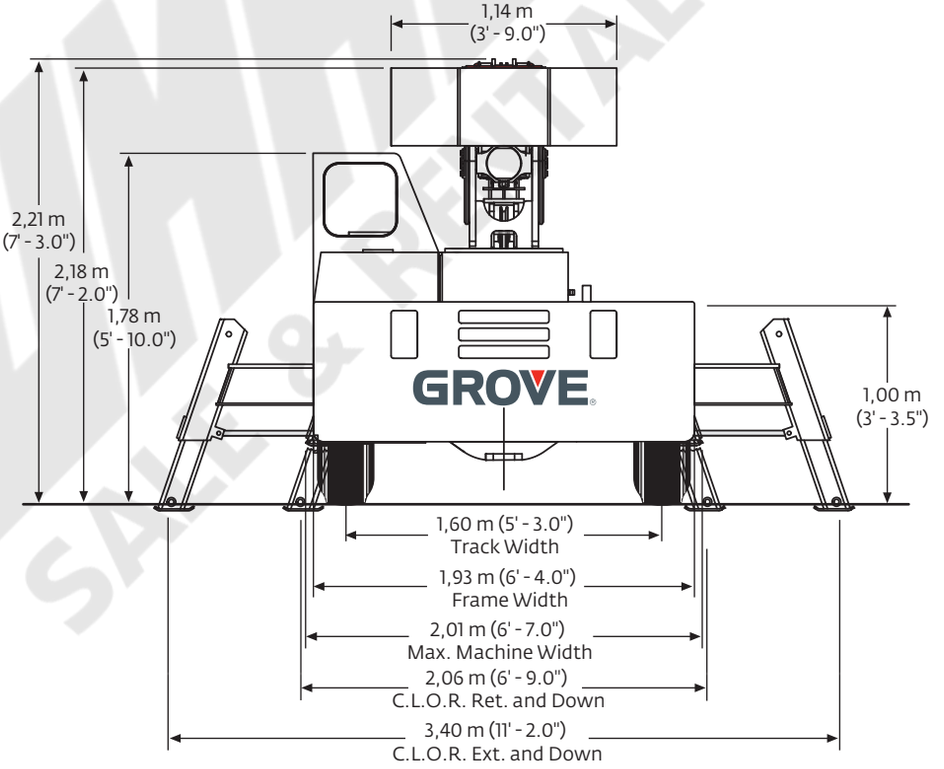
YB4411





*0° boomhead position can only be used with headache ball.

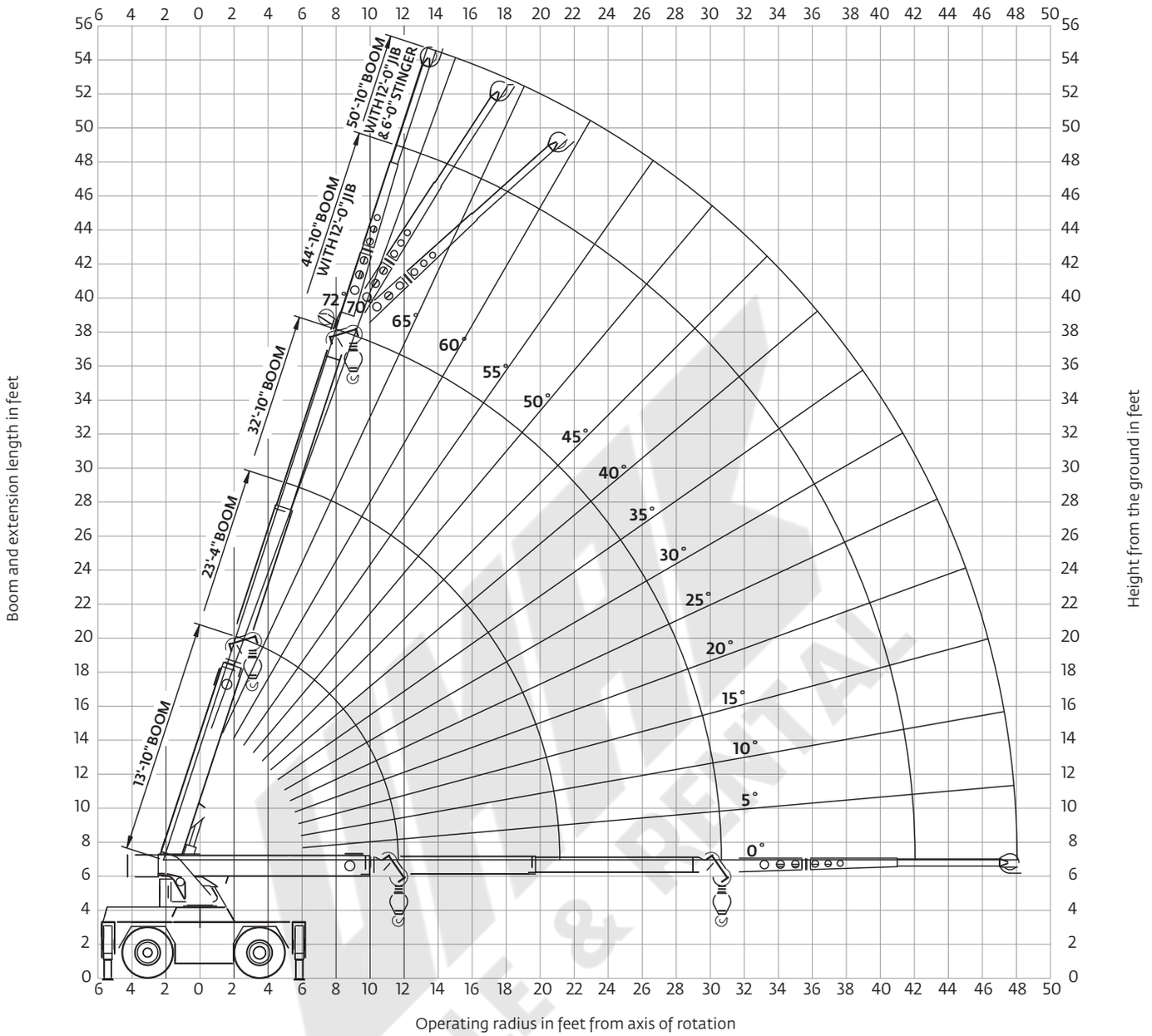
Dimensions are with the boom horizontal and the anti-two block bottomed.



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.

Range diagram

YB4411



SALE & RENTAL

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

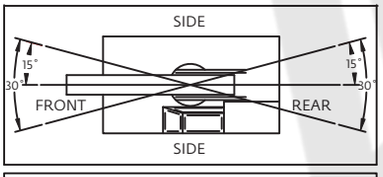
	RADIUS (ft)	ON OUTRIGGERS (lb)				ON RUBBER (lb)	
		EXTENDED 360° RETRACTED F/R		RETRACTED 360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	4.0	21,000	15,000	19,625	13,975	11,500	11,500
	5.0	18,000	14,700	16,800	13,700	11,500	9400
	6.0	15,700	14,400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

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

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

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

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



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

RIGGING CHART	
1-PART 0-10,000 lb	2-PART 0-21,000 lb
WIRE ROPE: 9/16 inch diameter Min. breaking strength 36,750 lb	

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

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. Retracted outrigger rated loads meet ASME B30.5-2004. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform, supporting surface. Practical working loads depend on supporting surface, operating radius, and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel, and proper training must all be taken into account by the operator.

3) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (125 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard level surface with boom retracted to the shortest length possible and centered over front.

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

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

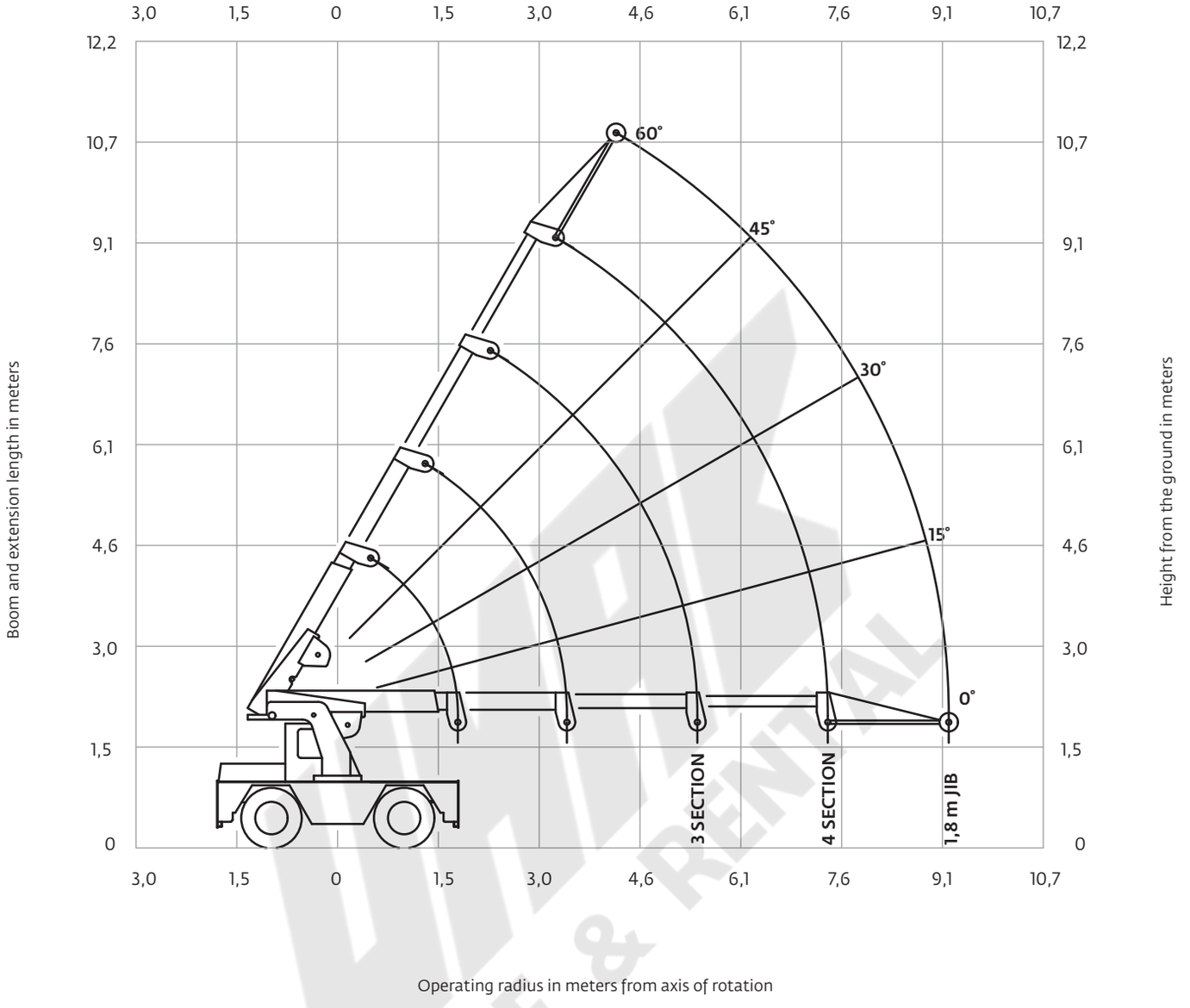
8) Do not induce any external side loads to boom or jib.

80016879

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



SALE & RENTAL

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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

YB4409

RADIUS (m)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (m)	4-SECTION BOOM WITH 4TH EXTENDED			
	ON OUTRIGGERS (kg)		ON RUBBER (kg)				ON OUTRIGGERS (kg)		ON RUBBER (kg)	
	F/R	360°	F/R	360°			F/R	360°	F/R	360°
1,5	7710	7710	4540	4380	MAIN BOOM	1,5	2770	2770	2770	2770
1,8	7120	6530	4540	3260		1,8	2770	2770	2770	2770
2,4	5620	4900	3200	1970		2,4	2400	2400	2400	2380
3,0	4630	3900	2080	1300		3,0	2130	2130	2130	1560
3,7	3860	3000	1520	950		3,7	2000	2000	1660	1080
4,3	3270	2250	1160	730		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		6,1	1800	1310	690	420
6,7	1180	1120	590	340		6,7	1540	1110	590	340
7,5	1000	930	480	260		7,5	1290	940	500	270
7,9	-	-	-	-	JIB	7,9	1190	870	460	250
8,5	-	-	-	-		8,5	1080	780	410	210
9,1	-	-	-	-		9,1	970	690	350	170
9,4	-	-	-	-		9,4	920	660	330	150

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

*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.

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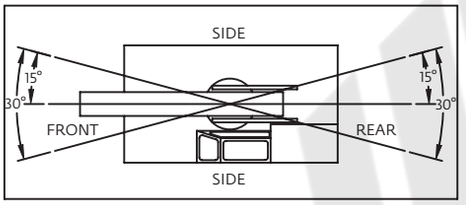
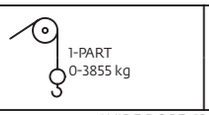


REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	64 kg	N/A
HOOK & BALL	45 kg	45 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	68 kg	0 kg

RIGGING CHART	
 1-PART 0-3855 kg	2-PART 0-7710 kg
WIRE ROPE: 13mm diameter Min. breaking strength 139,8 kN	

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.

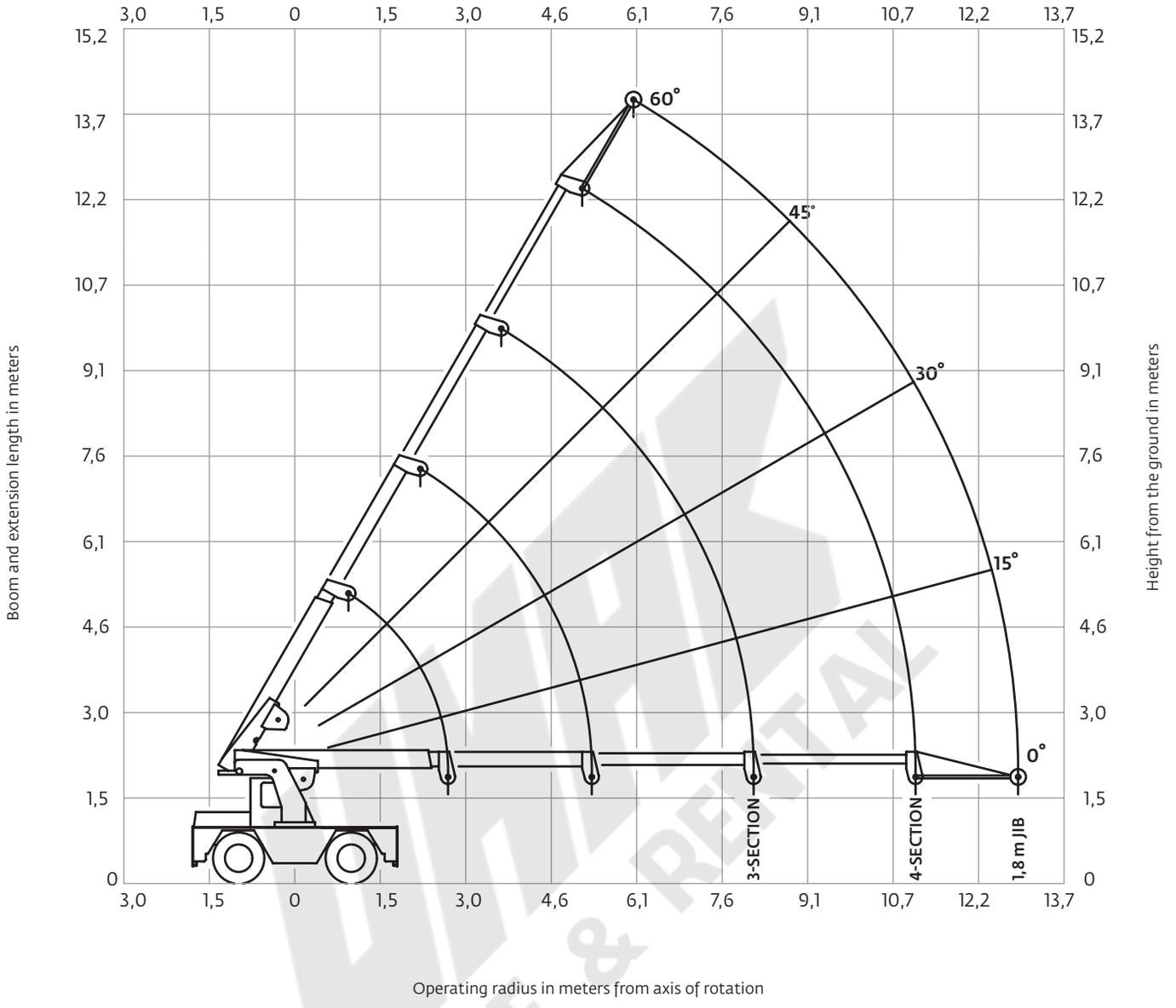
8) Do not induce any external side loads to boom or jib.

1302492YB

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

YB4409XL



SALE & RENTAL

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DIN/ISO load chart

YB4409XL

RADIUS (m)	3-SECTION BOOM OR 4-SECTION BOOM WITH 4TH RETRACTED					RADIUS (m)	4-SECTION BOOM WITH 4TH EXTENDED				
	ON OUTRIGGERS (kg)		ON RUBBER (kg)				ON OUTRIGGERS (kg)		ON RUBBER (kg)		
	F/R	360°	F/R	360°			F/R	360°	F/R	360°	
1,5	7710	7710	4535	4535	MAIN BOOM	1,5	-	-	-	-	MAIN BOOM
1,8	7120	6530	4310	3720		1,8	-	-	-	-	
2,4	5625	4900	3580	2490		2,4	2225	2225	2225	2225	
3,0	4625	3855	2400	1670		3,0	1950	1950	1950	1880	
3,7	3855	3150	1670	1170		3,7	1725	1725	1725	1450	
4,3	3220	2550	1200	830		4,3	1540	1540	1540	1130	
4,9	2720	1930	930	610		4,9	1405	1405	1270	900	
5,5	2360	1570	770	470		5,5	1315	1315	1040	720	
6,1	1850	1290	630	380		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	JIB	8,5	1120	800	370	220	JIB
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	-	-	-	-		12,2	610	410	150	20	
12,8	-	-	-	-		12,8	570	370	130	10	
13,1	-	-	-	-		13,1	540	350	120	0	

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)	
	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.

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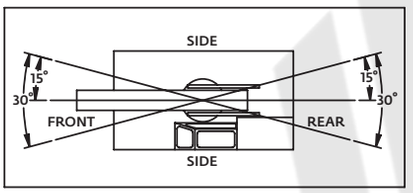
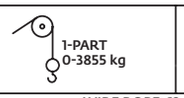


REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	64 kg	N/A
HOOK & BALL	45 kg	45 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	68 kg	0 kg

RIGGING CHART	
 1-PART 0-3855 kg	2-PART 0-7710 kg
WIRE ROPE: 13 mm diameter Min. breaking strength 139,8 kN	

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.

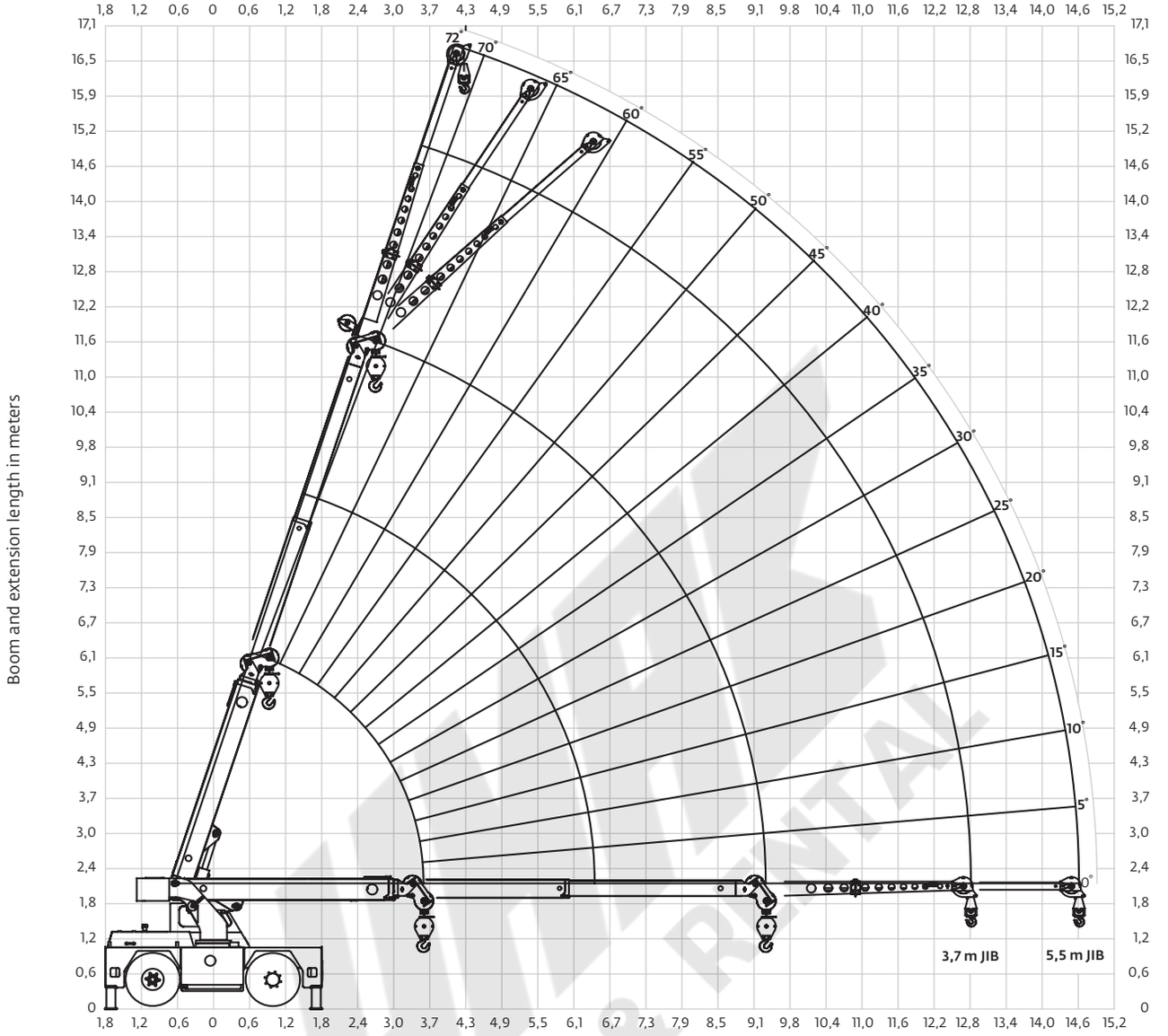
8) Do not induce any external side loads to boom or jib.

1302119YB

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



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

SALE & RENTAL

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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

YB4409-2

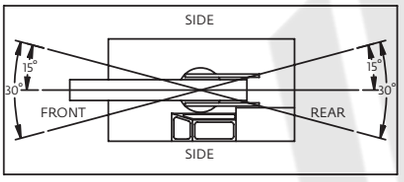
	RADIUS (m)	ON OUTRIGGERS (kg)				ON RUBBER (kg)	
		F/R		360°		F/R	360°
		BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	ANY BOOM	ANY BOOM
MAIN BOOM	1,5	8160	6670	8160	6670	5220	4260
	1,8	7120	6530	6800	6530	4540	3360
	2,4	5530	5530	5170	5170	3670	2240
	3,0	4630	4630	4130	4130	2440	1550
	3,7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

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

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

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

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



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

RIGGING CHART	
1-PART 0-4540 kg	2-PART 0-8160 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 161,3 kN	

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.

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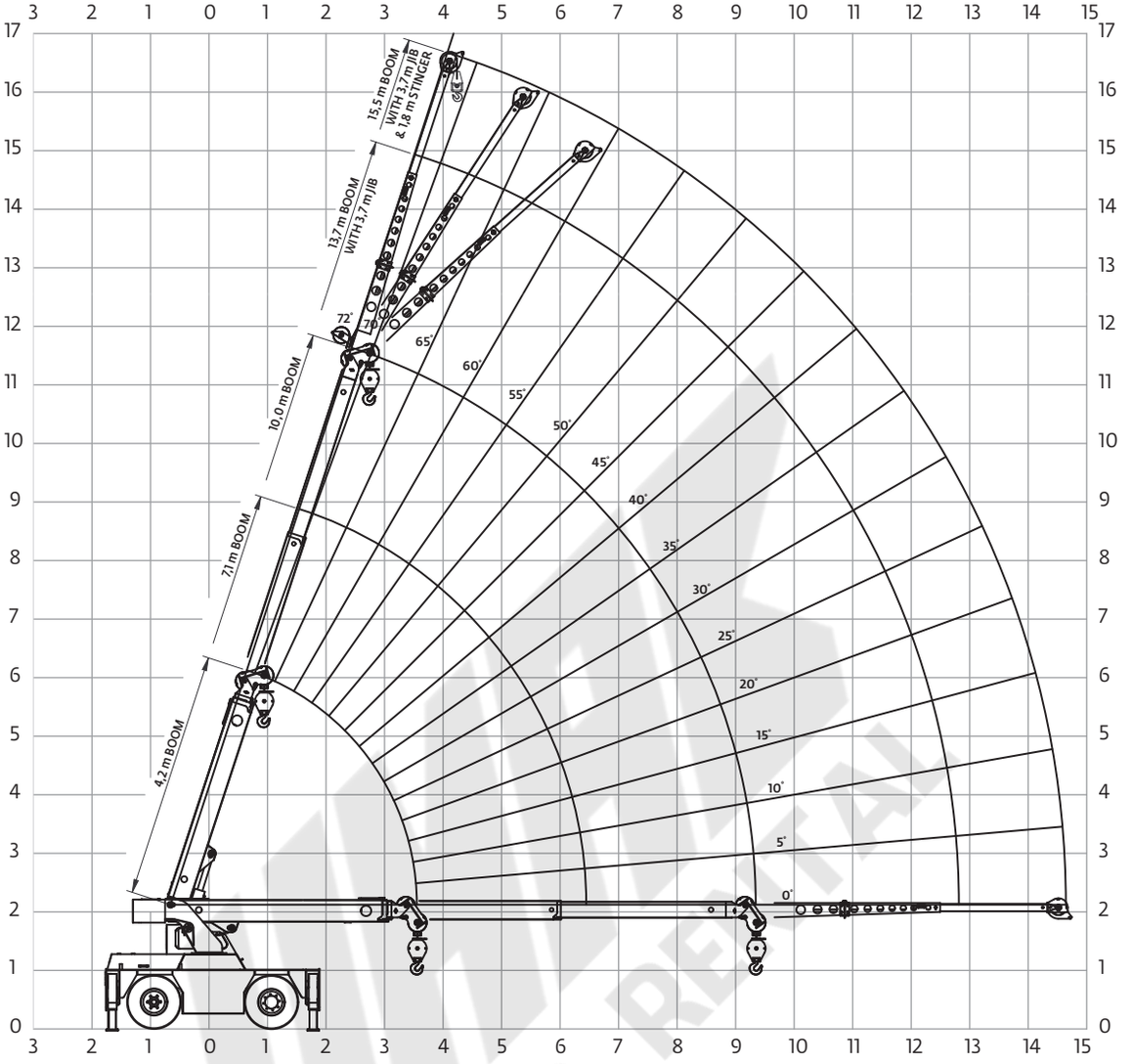
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

DIN/ISO range diagram

YB4411



Boom and extension length in meters

Height from the ground in meters

Operating radius in meters from axis of rotation

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DIN/ISO load chart

YB4411

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

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (kg)					
	3,7 m JIB			5,5 m JIB		
	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.

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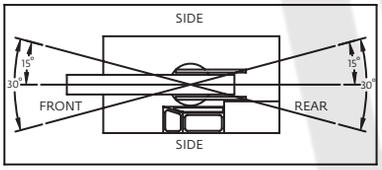
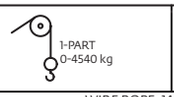
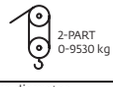


REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	60 kg	N/A
HOOK & BALL	45 kg	45 kg
JIB, STOWED	0 kg	N/A
JIB, DEPLOYED	200 kg	0 kg

RIGGING CHART	
 1-PART 0-4540 kg	 2-PART 0-9530 kg
WIRE ROPE: 14 mm diameter Min. breaking strength 172,8 kN	

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

Axles

Counterweight

Grade

Outriggers

Boom

Drive

Heavy duty jib

Radius

Boom elevation

Electrical system

Hoist

Rotation

Boom extension

Engine

Hookblock

Speed

Boom length

Extension

Hydraulic system

Steering

Boom nose

Frame

Lights

Suspension

Brakes

Fuel tank capacity

Oil

Swing

Cab

Gear

Outrigger controls

Tires

Transmission

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Notes

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Notes

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