

# Grove YB5515 (Dual Fuel)

## Product Guide



### Features

- 13,6 t (15 USt) capacity three-section boom with 12,5 m (41 ft) outreach
- 4,6 m (15 ft) offsettable swingaway extension
- 9072 kg (20,000 lb) deck carrying capacity
- Available with dual fuel engine only



# Features



## Cab

The YB5515 comes equipped with a **standard** open air cab shell with overhead safety glass.

An **optional** enclosed cab with the addition of front, right, and rear glass, a split (two-piece) hinged door with sliding glass. Front windshield wiper, heater and defroster fan are included.

## Steering

**Standard** steering modes on the YB5515 is two-wheel, four-wheel, and crab steer with an option for electronic self-alignment.



## Outriggers

The YB5515 is equipped with single-position oblique style outriggers.



## Dual Fuel engine

G.M. 4,3 L V-6 EFI dual fuel (gasoline / L.P.) rated at 69,3 kW (93 bhp) at 2500 rpm.



## Boom

A 12,5 m (41 ft) main boom comes **standard** on the YB5515. An **optional** fourth main boom section adds 3,4 m (11 ft) additional boom length.

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# Specifications

## Superstructure



### Boom

5,6 m – 12,5 m (18 ft 6 in – 41 ft 0 in) three-section full power boom.

Maximum tip height: 14,1 m (46 ft 3 in)



### \*Optional boom

Manual fourth main boom fly section

Maximum tip height: 17,0 m (56 ft 3 in)



### \*Boom extension

4,6 m (15 ft) offsettable swingaway extension



### Boom nose

Two sheave non-pivoting boom nose



### Boom elevation

Single double acting hydraulic cylinder with integral holding valve.

Elevation: 0° to 69° for the YB5515



### 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 moment indicating system used in conjunction with a wireless 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, length and angle of the boom, and load radius in Dot Matrix numerical values and provides a load utilization colored bar graph.

If non-permitted conditions are approached the L.M.I. will warn the operator with an audible alarm and a warning light and will lock out those functions that may aggravate the condition.

Standard limit settings can be programmed for boom Angle, load radius, and boom tip height.



### \*Load moment indicator (hardwired LMI)

“Graphics Display” of boom angle, boom length, load radius, and capacity. Operator input to set the limit parameters based on the load chart. Displays 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: YB5515: 2.1 rpm



### Hydraulic system

Four section gear pump providing a system pressure of 241,3 bars (3500 psi)

Combined flow: 333,1 Lpm (88.0 gpm)

YB5515: Six-section valve bank mounted in dash with direct mechanical linkage for low effort lever control. Return line filter with full flow by-pass protection and service indicator.

151,4 L (40 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impact damage.



### Hoist specifications

Piston motor drive with spring applied / hyd. released brake. Equal speed power up and down.

Drum diameter: 0,25m (9.75 in)

Maximum hoist single line pull: 5443 kg (12,000 lb)

Maximum hoist single line speed:

38,4 m/min (126 fpm)

Maximum permissible single line pull:

3402 kg (7500 lb)

(12,7 mm [1/2 in])

Rope length:

(three-section boom) 73,0 m (240 ft)

(four-section boom) 88,4 m (290 ft)

# Specifications

## Carrier



### Frame

High strength alloy steel constructed with integral outrigger housings; front and rear tie-down lugs. 75 ft<sup>2</sup> carrydeck size with 9072 kg (20,000 lb) carrying capacity. Deck coated with anti-skid treatment.



### Outriggers

YB5515: Front and rear oblique type beams at all four corners with integral holding valves. Outrigger pads form an integral part of the beam. Outrigger pad size 222 mm x 254 mm (8.75 in x 10 in). Outrigger monitoring system (required for North America and Canada).

Maximum pad load: 162 p.s.i.



### Outrigger controls

Lever controls located on dash panel and operate the beams in pairs from side to side. Level bubble located inside operators compartment.

\*Independent outrigger controls available as an option.



### Dual Fuel engine (2007 EPA)

G.M. 4,3 L V-6 EFI dual fuel (gasoline / L.P.) rated at 69,3 kW (93 bhp) at 2500 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.



### \*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, heater and defroster fan are included.



### Fuel tank capacity

151,4 L (40 gal) all steel construction with steel side plate to guard against side impact.



### Electrical system

One 12V maintenance free battery, 820CCA @ 0°. 63 amp alternator.



### Drive

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



### Steer

Two-wheel, four-wheel, and crab steer

Outside turning radius:

Two wheel steer: 6,55 m (21 ft 6 in)

Four wheel steer: 3,76 m (12 ft 4 in)



### Transmission

I.T.L. synchromesh four-speeds forward and reverse.



### Tires

385/65R 22.5 radial traction tread pneumatic.

# Specifications

## Brakes

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

## Suspension

Front: Rigid mounted to frame.  
Rear: Provides 1.5° oscillation for use on semi-rough terrain. Axle lock-out must be engaged (locked) whenever picking on rubber or traveling in the crab steer mode. A warning light indicates when the axle lock-outs are engaged.

## Lights

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

## Maximum speed

23,3 km/h (14.5 mph)

## Gradeability (theoretical)

73%....no load  
41%.... 9072 kg (20,000 lb) load

## Gross vehicle weight (G.V.W.)

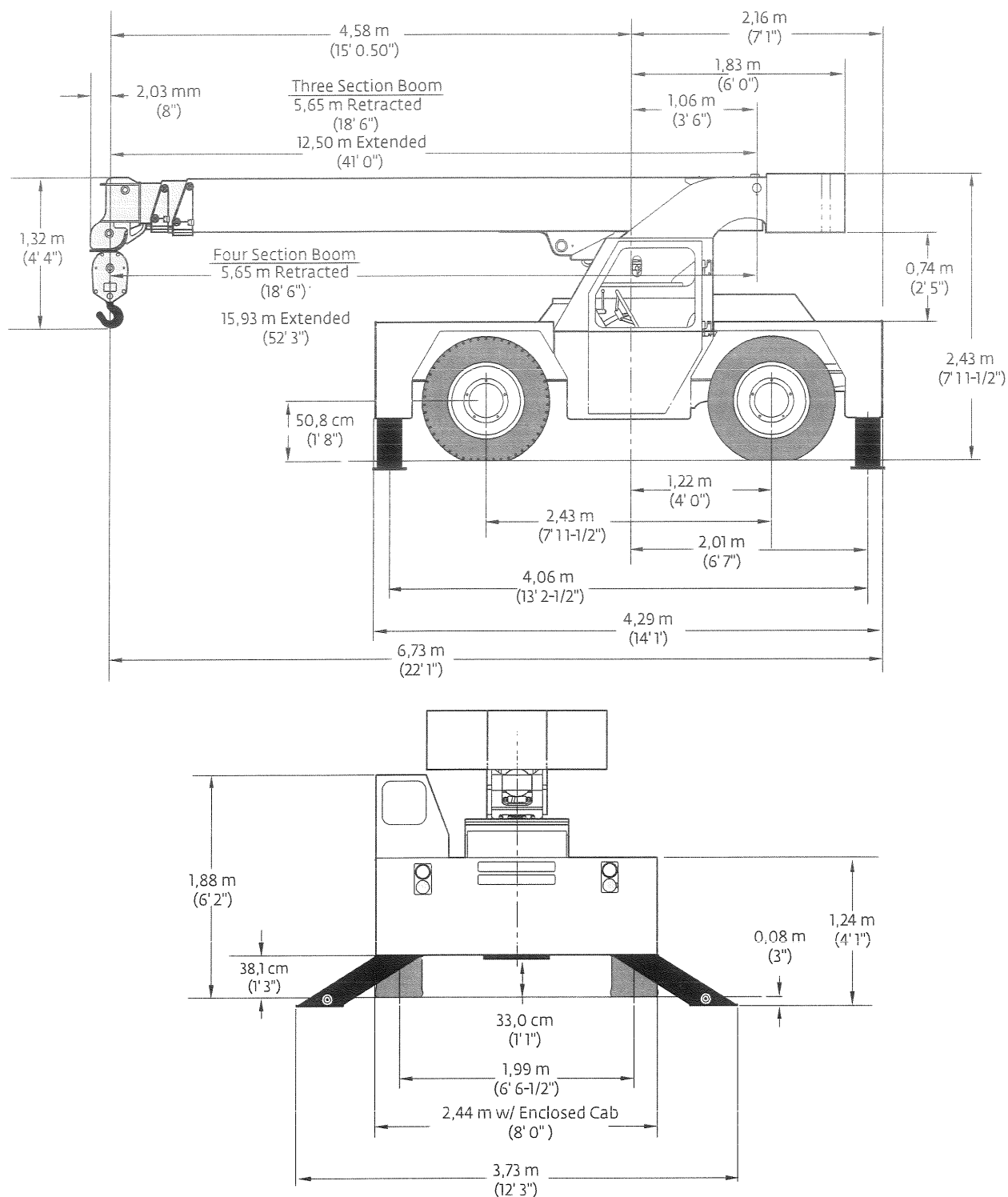
12 332 kg (27,186 lb) three-section boom  
12 584 kg (27,743 lb) four-section boom  
\*All weights with enclosed cab

## Miscellaneous standard equipment

Two sheave, "Quick Reeve" style hookblock;  
13,6 t (15.0 USt).  
Back-up alarm  
Lifting and tie down lugs  
Outrigger motion alarm

# Dimensions

## YB5515

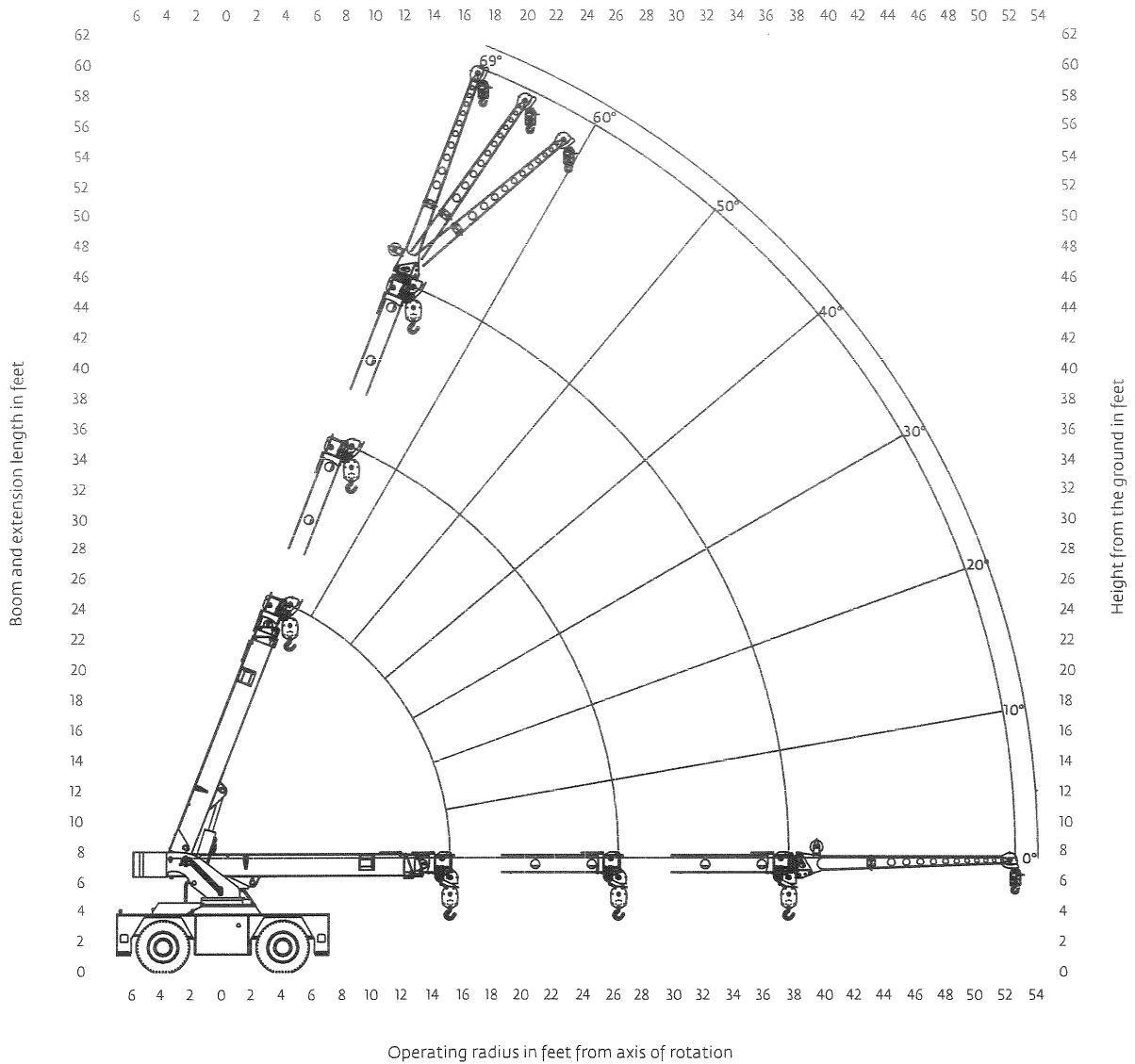


THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

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

# Range diagram

## YB5515 (three-section boom)

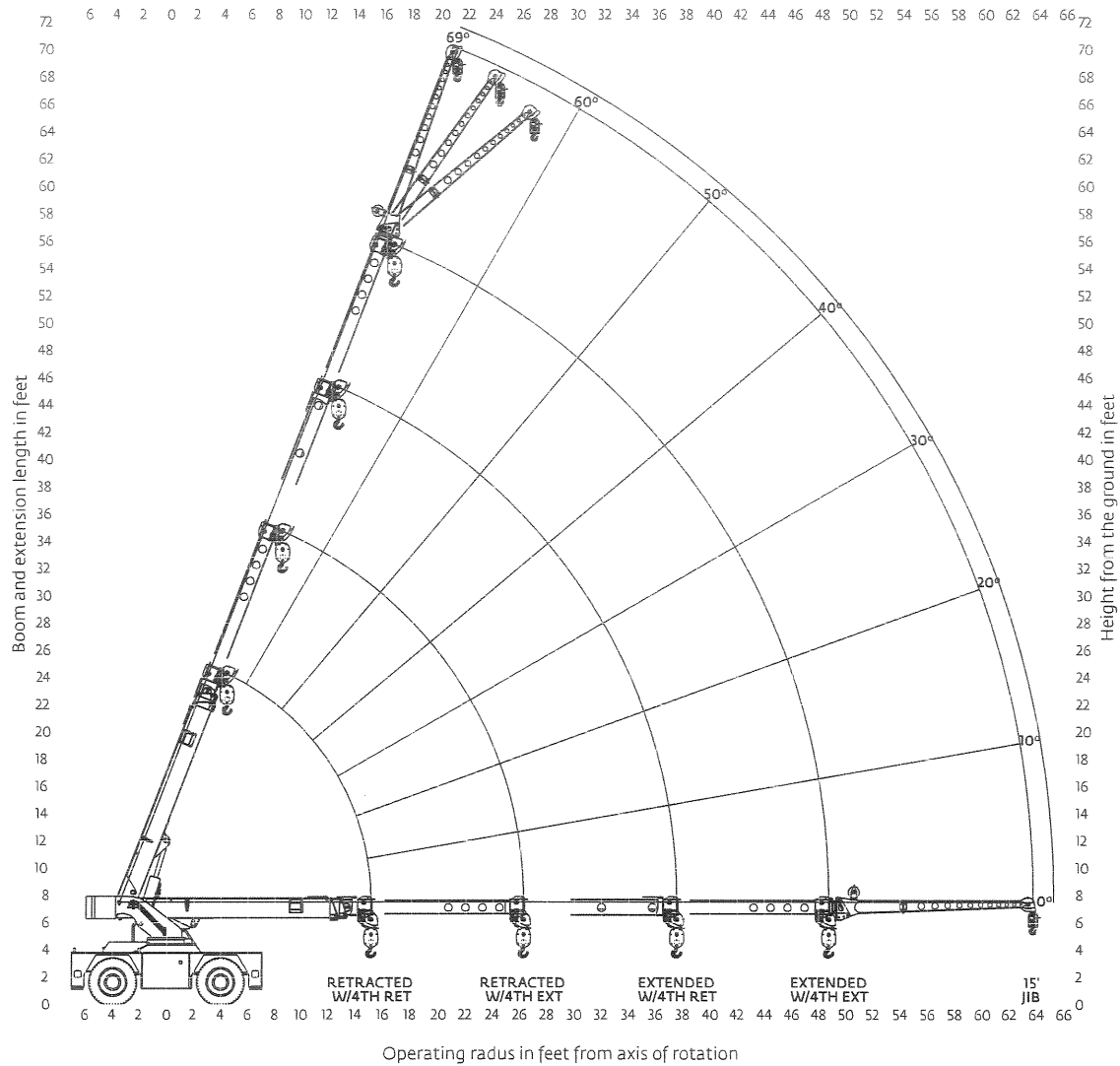


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# Range diagram

## YB5515 (four-section boom)



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# Load chart

## YB5515 (three-section boom)

|           | RADIUS<br>(ft) | ON OUTRIGGERS (lb) |        | ON RUBBER (lb) |        |
|-----------|----------------|--------------------|--------|----------------|--------|
|           |                | F/R                | 360°   | F/R            | 360°   |
| MAIN BOOM | 6.0            | 30,000             | 30,000 | 17,000         | 17,000 |
|           | 8.0            | 26,200             | 26,200 | 13,500         | 14,600 |
|           | 10.0           | 22,300             | 22,300 | 10,700         | 10,880 |
|           | 12.0           | 18,600             | 18,600 | 8710           | 8100   |
|           | 14.0           | 14,800             | 14,800 | 7210           | 6000   |
|           | 15.0           | 13,000             | 13,000 | 6600           | 5250   |
|           | 16.0           | 12,200             | 12,200 | 6060           | 4760   |
|           | 18.0           | 10,800             | 10,800 | 5120           | 3900   |
|           | 20.0           | 9630               | 9180   | 4370           | 3190   |
|           | 22.0           | 8640               | 7480   | 3710           | 2660   |
|           | 24.0           | 7790               | 6210   | 3070           | 2200   |
|           | 26.0           | 7040               | 5310   | 2620           | 1820   |
|           | 28.0           | 6420               | 4740   | 2260           | 1530   |
|           | 30.0           | 5700               | 4290   | 1990           | 1320   |
|           | 32.0           | 5060               | 3920   | 1790           | 1160   |
|           | 34.0           | 4510               | 3580   | 1610           | 1040   |
|           | 36.0           | 4020               | 3260   | 1460           | 930    |
|           | 37.5           | 3700               | 3060   | 1370           | 860    |
| JIB       | 40.0           | 3480               | 2860   | 1270           | 800    |
|           | 42.0           | 3310               | 2700   | 1190           | 740    |
|           | 44.0           | 3130               | 2560   | 1120           | 690    |
|           | 46.0           | 2960               | 2410   | 1040           | 640    |
|           | 48.8           | 2710               | 2210   | 930            | 570    |
|           | 52.5           | 2390               | 1940   | 790            | 480    |

| MAIN<br>BOOM<br>ANGLE<br>(deg) | JIB STRUCTURAL<br>CAPACITIES (lb) |      |      |
|--------------------------------|-----------------------------------|------|------|
|                                | 0°                                | 15°  | 30°  |
| 69                             | 6000                              | 3900 | 2800 |
| 65                             | 5000                              | 3500 | 2550 |
| 60                             | 4300                              | 3150 | 2350 |
| 55                             | 3800                              | 2850 | 2200 |
| 50                             | 3400                              | 2600 | 2100 |
| 45                             | 3050                              | 2400 | 2000 |
| 40                             | 2800                              | 2250 | 1950 |
| 35                             | 2600                              | 2150 | 1900 |
| 30                             | 2400                              | 2080 | 1850 |
| 25                             | 2300                              | 2050 | -    |
| 20                             | 2200                              | 2000 | -    |
| 15                             | 2100                              | 1950 | -    |
| 10                             | 2050                              | -    | -    |
| 5                              | 2020                              | -    | -    |
| 0                              | 2000                              | -    | -    |

### NOTES:

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

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

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

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

4) Ratings on outriggers are with outriggers fully extended.

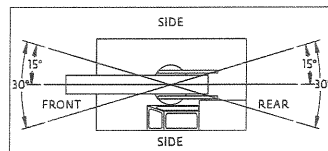
5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with the boom retracted to the shortest length possible and centered over the front.

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

7) The maximum combined total boom and deck load is 16,000 lb. The maximum deck load only is 20,000 lb.

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

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| REDUCTION CHART |                              |                        |
|-----------------|------------------------------|------------------------|
|                 | FROM<br>MAIN BOOM<br>RATINGS | FROM<br>JIB<br>RATINGS |
| MAIN BLOCK      | 210 lb                       | N/A                    |
| HOOK & BALL     | 100 lb                       | 100 lb                 |
| JIB, STOWED     | 0 lb                         | N/A                    |
| JIB, DEPLOYED   | 700 lb                       | 0 lb                   |

| RIGGING CHART                                                             |                                 |
|---------------------------------------------------------------------------|---------------------------------|
| <p>1-PART<br/>0 - 7500 lb</p>                                             | <p>4-PART<br/>0 - 30,000 lb</p> |
| <p>WIRE ROPE: 1/2 in diameter<br/>Minimum breaking strength 26,250 lb</p> |                                 |

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 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.

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

## YB5515 (four-section boom)

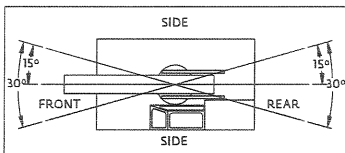
| RADIUS<br>(ft) | 4TH RETRACTED      |        |                |        | RADIUS<br>(ft) | 4TH EXTENDED       |        |                |        |
|----------------|--------------------|--------|----------------|--------|----------------|--------------------|--------|----------------|--------|
|                | ON OUTRIGGERS (lb) |        | ON RUBBER (lb) |        |                | ON OUTRIGGERS (lb) |        | ON RUBBER (lb) |        |
|                | F/R                | 360°   | F/R            | 360°   |                | F/R                | 360°   | F/R            | 360°   |
| 6.0            | 30,000             | 30,000 | 17,000         | 17,000 | 6.0            | -                  | -      | -              | -      |
| 8.0            | 26,200             | 26,200 | 13,500         | 14,600 | 8.0            | 11,000             | 11,000 | 11,000         | 11,000 |
| 10.0           | 22,300             | 22,300 | 10,700         | 11,000 | 10.0           | 10,700             | 10,700 | 10,700         | 10,700 |
| 12.0           | 18,600             | 18,600 | 8710           | 7650   | 12.0           | 9250               | 9250   | 9250           | 9250   |
| 14.0           | 14,800             | 14,800 | 7210           | 5480   | 14.0           | 8290               | 8390   | 7760           | 7500   |
| 15.0           | 13,000             | 13,000 | 6600           | 4890   | 15.0           | 8200               | 8200   | 7150           | 6080   |
| 16.0           | 12,200             | 12,200 | 6060           | 4500   | 16.0           | 8110               | 8110   | 6610           | 5510   |
| 18.0           | 10,800             | 10,600 | 4950           | 3750   | 18.0           | 7950               | 7950   | 5680           | 4500   |
| 20.0           | 9630               | 8630   | 3980           | 3080   | 20.0           | 7820               | 7820   | 4730           | 3560   |
| 22.0           | 8640               | 7350   | 3230           | 2460   | 22.0           | 7710               | 7710   | 3980           | 3000   |
| 24.0           | 7790               | 6460   | 2720           | 1990   | 24.0           | 7630               | 7270   | 3410           | 2520   |
| 26.0           | 6800               | 5700   | 2360           | 1610   | 26.0           | 7100               | 6330   | 2940           | 2150   |
| 28.0           | 5820               | 5040   | 2100           | 1410   | 28.0           | 6590               | 5420   | 2550           | 1840   |
| 30.0           | 5020               | 4420   | 1880           | 1220   | 30.0           | 5710               | 4760   | 2190           | 1580   |
| 32.0           | 4400               | 3950   | 1650           | 1070   | 32.0           | 5180               | 4080   | 1880           | 1360   |
| 34.0           | 3930               | 3570   | 1460           | 920    | 34.0           | 4680               | 3570   | 1600           | 1160   |
| 36.0           | 3510               | 3190   | 1280           | 770    | 36.0           | 4250               | 3190   | 1370           | 990    |
| 37.5           | 3210               | 2890   | 1180           | 680    | 37.5           | 3830               | 2970   | 1240           | 880    |
| 40.0           | 2950               | 2600   | 1070           | 610    | 40.0           | 3400               | 2700   | 1070           | 740    |
| 42.0           | 2760               | 2430   | 970            | 550    | 42.0           | 3150               | 2490   | 960            | 630    |
| 44.0           | 2590               | 2250   | 890            | 500    | 44.0           | 2890               | 2300   | 870            | 540    |
| 46.0           | 2430               | 2090   | 800            | 450    | 46.0           | 2630               | 2130   | 790            | 470    |
| 48.8           | 2240               | 1850   | 680            | 380    | 48.8           | 2320               | 1930   | 710            | 370    |
| 52.5           | 2030               | 1480   | 500            | 290    | 52.5           | 2070               | 1710   | 590            | 280    |
| 58.0           | -                  | -      | -              | -      | 58.0           | 1720               | 1380   | 420            | 170    |
| 63.8           | -                  | -      | -              | -      | 63.8           | 1330               | 1020   | 230            | 60     |

| MAIN<br>BOOM<br>ANGLE<br>(deg) | JIB STRUCTURAL CAPACITIES (lb) |      |      |              |      |      |
|--------------------------------|--------------------------------|------|------|--------------|------|------|
|                                | 4TH RETRACTED                  |      |      | 4TH EXTENDED |      |      |
|                                | 0°                             | 15°  | 30°  | 0°           | 15°  | 30°  |
| 69                             | 6000                           | 3900 | 2800 | 5180         | 3900 | 2800 |
| 65                             | 5000                           | 3500 | 2550 | 4970         | 3500 | 2550 |
| 60                             | 4300                           | 3150 | 2350 | 4300         | 3150 | 2350 |
| 55                             | 3800                           | 2850 | 2200 | 3800         | 2850 | 2200 |
| 50                             | 3400                           | 2600 | 2100 | 3400         | 2600 | 2100 |
| 45                             | 3050                           | 2400 | 2000 | 3050         | 2400 | 2000 |
| 40                             | 2800                           | 2250 | 1950 | 2800         | 2250 | 1950 |
| 35                             | 2600                           | 2150 | 1900 | 2600         | 2150 | 1900 |
| 30                             | 2400                           | 2080 | 1850 | 2400         | 2080 | 1850 |
| 25                             | 2300                           | 2050 | -    | 2300         | 2050 | -    |
| 20                             | 2200                           | 2000 | -    | 2200         | 2000 | -    |
| 15                             | 2100                           | 1950 | -    | 2100         | 1950 | -    |
| 10                             | 2050                           | -    | -    | 2050         | -    | -    |
| 5                              | 2020                           | -    | -    | 2020         | -    | -    |
| 0                              | 2000                           | -    | -    | 2000         | -    | -    |

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| REDUCTION CHART |                        |                  |
|-----------------|------------------------|------------------|
|                 | FROM MAIN BOOM RATINGS | FROM JIB RATINGS |
| MAIN BLOCK      | 210 lb                 | N/A              |
| HOOK & BALL     | 100 lb                 | 100 lb           |
| JIB, STOWED     | 0 lb                   | N/A              |
| JIB, DEPLOYED   | 700 lb                 | 0 lb             |

| RIGGING CHART                                                    |                         |
|------------------------------------------------------------------|-------------------------|
| 1-PART<br>0 - 7500 lb                                            | 4-PART<br>0 - 30,000 lb |
| WIRE ROPE: 1/2 inch diameter<br>Min. breaking strength 26,250 lb |                         |

- 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.
- 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 be taken into account by the operator.
- 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.

- Ratings on outriggers are with outriggers fully extended.
- Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with the boom retracted to the shortest length possible and centered over the front.
- For operating radius not shown, use load rating of next larger radius.
- The maximum combined total boom and deck load is 16,000 lb. The maximum deck load only is 20,000 lb.
- Do not induce any external side loads to boom or jib.

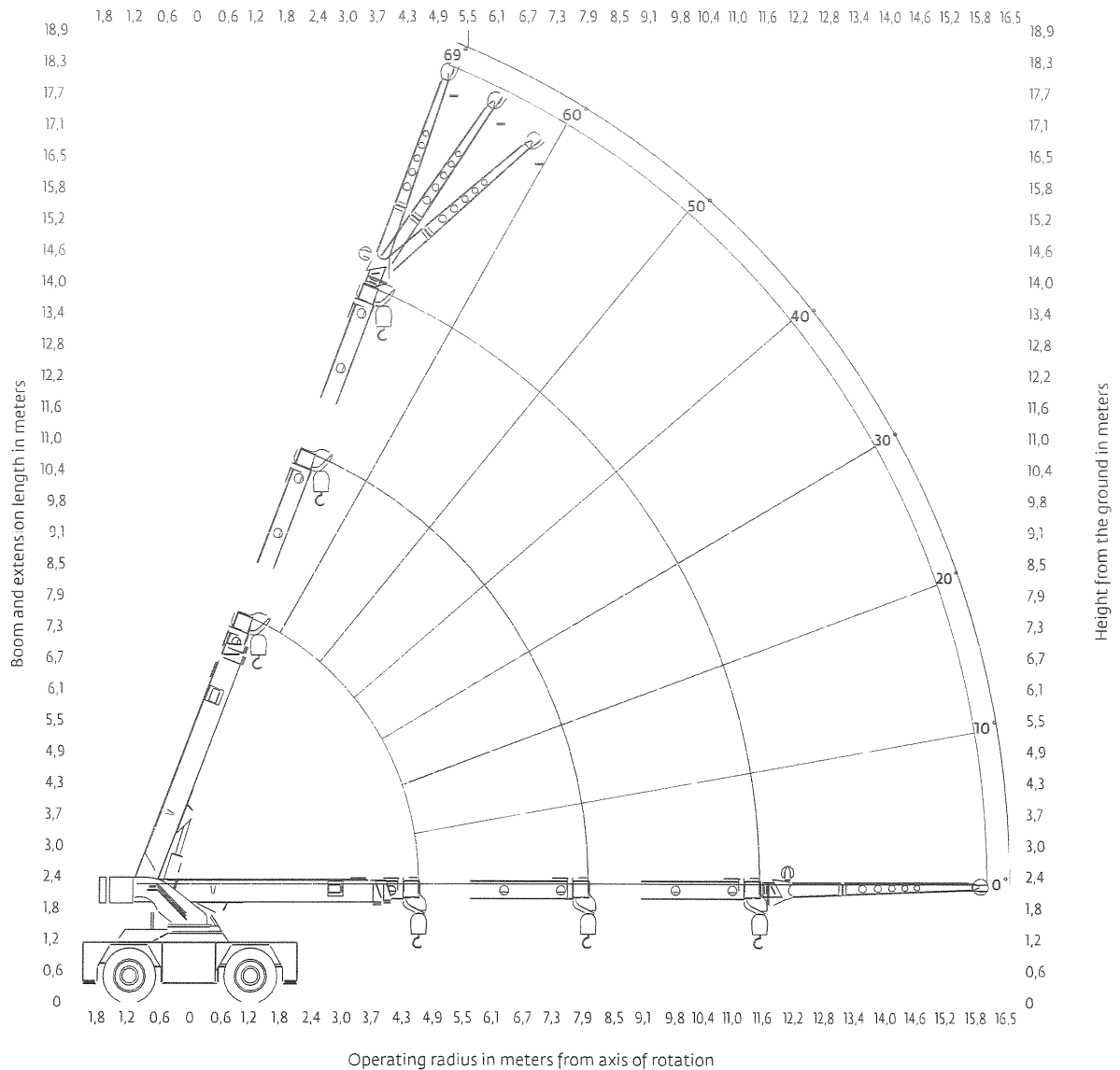
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# DIN/ISO range diagram

## YB5515 (three-section boom)

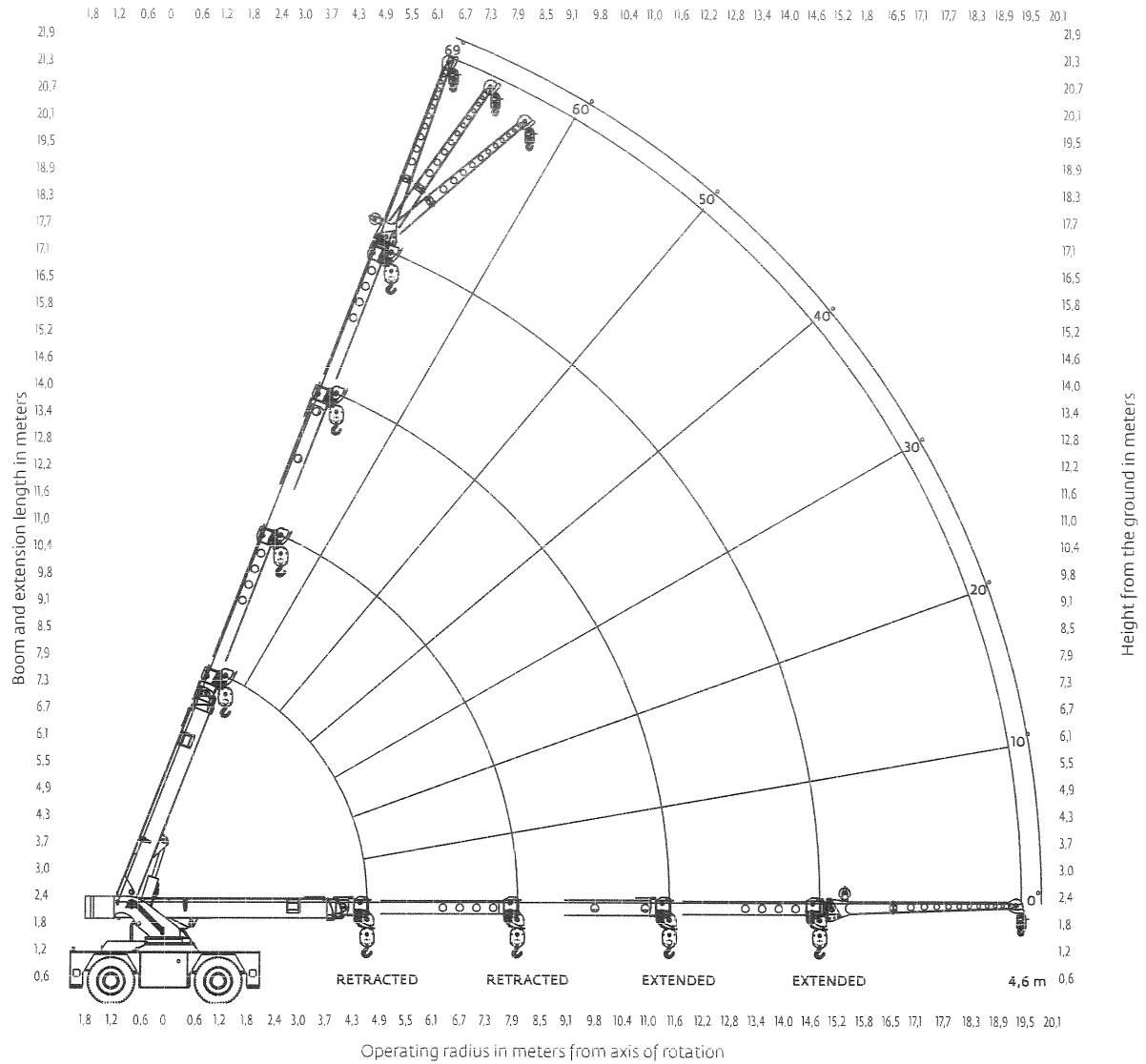


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# DIN/ISO range diagram

## YB5515 (four-section boom)



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# DIN/ISO load chart

## YB5515 (three-section boom)

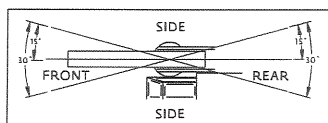
|           | RADIUS<br>(m) | ON OUTRIGGERS (kg) |        | ON RUBBER (kg) |      | MAIN<br>BOOM<br>ANGLE<br>(deg) | JIB STRUCTURAL<br>CAPACITIES (kg) |      |      |
|-----------|---------------|--------------------|--------|----------------|------|--------------------------------|-----------------------------------|------|------|
|           |               | F/R                | 360°   | F/R            | 360° |                                | 0°                                | 15°  | 30°  |
| MAIN BOOM | 1,8           | 13 610             | 13 610 | 7710           | 7710 | 69                             | 2720                              | 1770 | 1270 |
|           | 2,4           | 11 880             | 11 880 | 6120           | 6620 | 65                             | 2270                              | 1590 | 1160 |
|           | 3,0           | 10 120             | 10 120 | 4850           | 4860 | 60                             | 1950                              | 1430 | 1070 |
|           | 3,7           | 8440               | 8440   | 3950           | 3600 | 55                             | 1720                              | 1290 | 1000 |
|           | 4,3           | 6710               | 6710   | 3270           | 2650 | 50                             | 1540                              | 1180 | 950  |
|           | 4,6           | 5900               | 5900   | 2990           | 2310 | 45                             | 1380                              | 1090 | 910  |
|           | 4,9           | 5540               | 5530   | 2750           | 2090 | 40                             | 1270                              | 1020 | 880  |
|           | 5,5           | 4900               | 4750   | 2320           | 1700 | 35                             | 1180                              | 980  | 860  |
|           | 6,1           | 4370               | 3840   | 1940           | 1370 | 30                             | 1090                              | 940  | 840  |
|           | 6,7           | 3920               | 3120   | 1610           | 1130 | 25                             | 1040                              | 930  | -    |
|           | 7,3           | 3460               | 2570   | 1320           | 920  | 20                             | 1000                              | 910  | -    |
|           | 7,9           | 3010               | 2190   | 1110           | 750  | 15                             | 950                               | 880  | -    |
|           | 8,5           | 2660               | 1950   | 950            | 620  | 10                             | 930                               | -    | -    |
|           | 9,1           | 2350               | 1750   | 830            | 530  | 5                              | 920                               | -    | -    |
|           | 9,8           | 2080               | 1600   | 740            | 450  | 0                              | 910                               | -    | -    |
|           | 10,4          | 1850               | 1450   | 660            | 400  |                                |                                   |      |      |
|           | 11,0          | 1640               | 1310   | 590            | 350  |                                |                                   |      |      |
|           | 11,4          | 1500               | 1230   | 550            | 320  |                                |                                   |      |      |
| JIB       | 12,2          | 1410               | 1140   | 500            | 290  |                                |                                   |      |      |
|           | 12,8          | 1330               | 1080   | 470            | 260  |                                |                                   |      |      |
|           | 13,4          | 1260               | 1010   | 430            | 240  |                                |                                   |      |      |
|           | 14,0          | 1190               | 950    | 400            | 220  |                                |                                   |      |      |
|           | 14,9          | 1080               | 870    | 350            | 190  |                                |                                   |      |      |
|           | 16,0          | 940                | 750    | 280            | 140  |                                |                                   |      |      |

### 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<br>MAIN BOOM<br>RATINGS | FROM<br>JIB<br>RATINGS |
|---------------|------------------------------|------------------------|
| MAIN BLOCK    | 100 kg                       | N/A                    |
| HOOK & BALL   | 50 kg                        | 50 kg                  |
| JIB, STOWED   | 0 kg                         | N/A                    |
| JIB, DEPLOYED | 320 kg                       | 0 kg                   |

### RIGGING CHART

|                                                                       |                                 |
|-----------------------------------------------------------------------|---------------------------------|
| <p>1-PART<br/>0 - 3400 kg</p>                                         | <p>4-PART<br/>0 - 13 610 kg</p> |
| <p>WIRE ROPE: 13 mm diameter<br/>Min. breaking strength 128,4 kN.</p> |                                 |

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 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 (8,3 bar). Loads on rubber may be transported at a maximum speed of 1,4 km/h on a smooth hard level surface with boom retracted to the shortest length possible and centered over front.

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

7) The maximum combined total boom and deck load is 7260 kg. The maximum deck load only is 9070 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 load chart

## YB5515 (four-section boom)

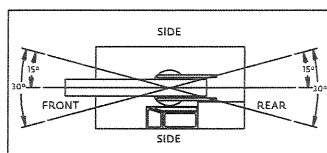
| RADIUS<br>(m) | 4TH RETRACTED      |        |                |      | RADIUS<br>(m) | 4TH EXTENDED       |      |                |      | MAIN<br>BOOM<br>ANGLE<br>(deg) | JIB STRUCTURAL CAPACITIES (kg) |      |      |              |      |      |      |
|---------------|--------------------|--------|----------------|------|---------------|--------------------|------|----------------|------|--------------------------------|--------------------------------|------|------|--------------|------|------|------|
|               | ON OUTRIGGERS (kg) |        | ON RUBBER (kg) |      |               | ON OUTRIGGERS (kg) |      | ON RUBBER (kg) |      |                                | 4TH RETRACTED                  |      |      | 4TH EXTENDED |      |      |      |
|               | F/R                | 360°   | F/R            | 360° |               | F/R                | 360° | F/R            | 360° |                                | 0°                             | 15°  | 30°  | 0°           | 15°  | 30°  |      |
| 1,8           | 13 610             | 13 610 | 7710           | 7710 | MAIN BOOM     | 1,8                | -    | -              | -    | -                              | 69                             | 2720 | 1770 | 1270         | 2350 | 1770 | 1270 |
| 2,4           | 11 880             | 11 880 | 6120           | 6120 |               | 2,4                | 5030 | 5030           | 5030 | 5030                           | 65                             | 2270 | 1590 | 1160         | 2250 | 1590 | 1160 |
| 3,0           | 10 120             | 10 120 | 4860           | 4890 |               | 3,0                | 4850 | 4850           | 4850 | 4850                           | 60                             | 1950 | 1430 | 1070         | 1950 | 1430 | 1070 |
| 3,7           | 8440               | 8440   | 3950           | 3390 |               | 3,7                | 4200 | 4200           | 4200 | 4200                           | 55                             | 1720 | 1290 | 1000         | 1720 | 1290 | 1000 |
| 4,3           | 6710               | 6710   | 3270           | 2400 |               | 4,3                | 3760 | 3760           | 3520 | 3320                           | 50                             | 1540 | 1180 | 950          | 1540 | 1180 | 950  |
| 4,6           | 5900               | 5900   | 2990           | 2140 |               | 4,6                | 3720 | 3720           | 3240 | 2670                           | 45                             | 1380 | 1090 | 910          | 1380 | 1090 | 910  |
| 4,9           | 5540               | 5540   | 2670           | 1960 |               | 4,9                | 3680 | 3680           | 3000 | 2420                           | 40                             | 1270 | 1020 | 880          | 1270 | 1020 | 880  |
| 5,5           | 4900               | 4450   | 2160           | 1620 |               | 5,5                | 3610 | 3610           | 2530 | 1960                           | 35                             | 1180 | 980  | 860          | 1180 | 980  | 860  |
| 6,1           | 4370               | 3600   | 1720           | 1310 |               | 6,1                | 3550 | 3550           | 2060 | 1530                           | 30                             | 1090 | 940  | 840          | 1090 | 940  | 840  |
| 6,7           | 3920               | 3050   | 1380           | 1030 |               | 6,7                | 3500 | 3500           | 1720 | 1280                           | 25                             | 1040 | 930  | -            | 1040 | 930  | -    |
| 7,3           | 3320               | 2670   | 1150           | 820  |               | 7,3                | 3460 | 3020           | 1470 | 1060                           | 20                             | 1000 | 910  | -            | 1000 | 910  | -    |
| 7,9           | 2820               | 2340   | 990            | 650  |               | 7,9                | 3180 | 2620           | 1250 | 890                            | 15                             | 950  | 880  | -            | 950  | 880  | -    |
| 8,5           | 2400               | 2060   | 870            | 560  |               | 8,5                | 2730 | 2230           | 1080 | 750                            | 10                             | 930  | -    | -            | 930  | -    | -    |
| 9,1           | 2050               | 1800   | 770            | 470  |               | 9,1                | 2350 | 1950           | 910  | 630                            | 5                              | 920  | -    | -            | 920  | -    | -    |
| 9,8           | 1790               | 1600   | 670            | 400  | 9,8           | 2120               | 1660 | 770            | 530  | 0                              | 910                            | -    | -    | 910          | -    | -    |      |
| 10,4          | 1590               | 1440   | 580            | 340  | 10,4          | 1910               | 1440 | 640            | 450  |                                |                                |      |      |              |      |      |      |
| 11,0          | 1410               | 1270   | 500            | 270  | 11,0          | 1690               | 1270 | 540            | 370  |                                |                                |      |      |              |      |      |      |
| 11,4          | 1290               | 1150   | 450            | 230  | 11,4          | 1550               | 1180 | 480            | 320  |                                |                                |      |      |              |      |      |      |
| 12,2          | 1170               | 1020   | 400            | 190  | JIB           | 12,2               | 1360 | 1070           | 400  | 250                            |                                |      |      |              |      |      |      |
| 12,8          | 1090               | 950    | 360            | 170  |               | 12,8               | 1260 | 970            | 350  | 200                            |                                |      |      |              |      |      |      |
| 13,4          | 1020               | 880    | 320            | 150  |               | 13,4               | 1150 | 890            | 310  | 160                            |                                |      |      |              |      |      |      |
| 14,0          | 950                | 810    | 280            | 120  |               | 14,0               | 1040 | 820            | 280  | 130                            |                                |      |      |              |      |      |      |
| 14,9          | 870                | 700    | 230            | 90   |               | 14,9               | 900  | 740            | 240  | 90                             |                                |      |      |              |      |      |      |
| 16,0          | 780                | 550    | 150            | 50   |               | 16,0               | 800  | 640            | 190  | 50                             |                                |      |      |              |      |      |      |
| 17,7          | -                  | -      | -              | -    |               | 17,7               | 650  | 500            | 110  | 0                              |                                |      |      |              |      |      |      |
| 19,4          | -                  | -      | -              | -    |               | 19,4               | 480  | 350            | 20   | 0                              |                                |      |      |              |      |      |      |

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| REDUCTION CHART |                        |                  |
|-----------------|------------------------|------------------|
|                 | FROM MAIN BOOM RATINGS | FROM JIB RATINGS |
| MAIN BLOCK      | 100 kg                 | N/A              |
| HOOK & BALL     | 50 kg                  | 50 kg            |
| JIB, STOWED     | 0 kg                   | N/A              |
| JIB, DEPLOYED   | 320 kg                 | 0 kg             |

| RIGGING CHART                                                 |                         |
|---------------------------------------------------------------|-------------------------|
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| WIRE ROPE: 13 mm diameter<br>Min. breaking strength 128,4 kN. |                         |

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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



## Notes



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