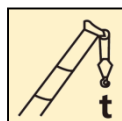
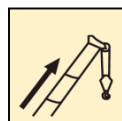


XCA160L8_2 All Terrain Crane

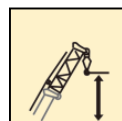
Technical specifications



160 t



88 m



116 m

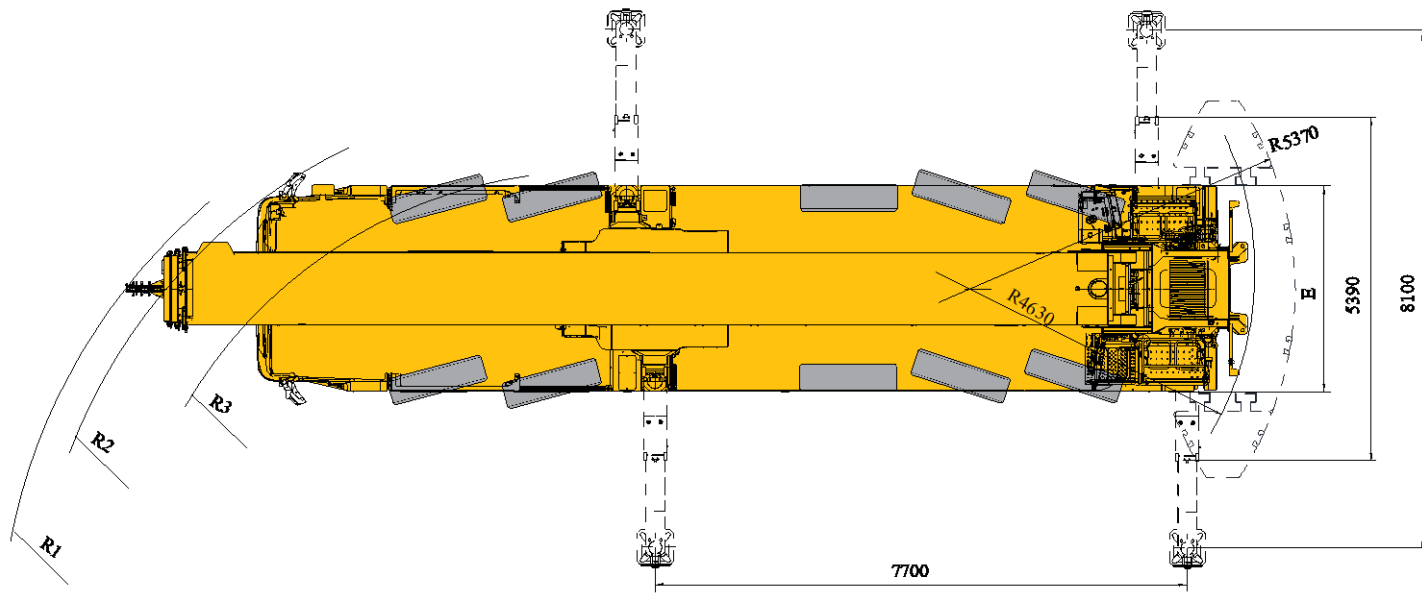
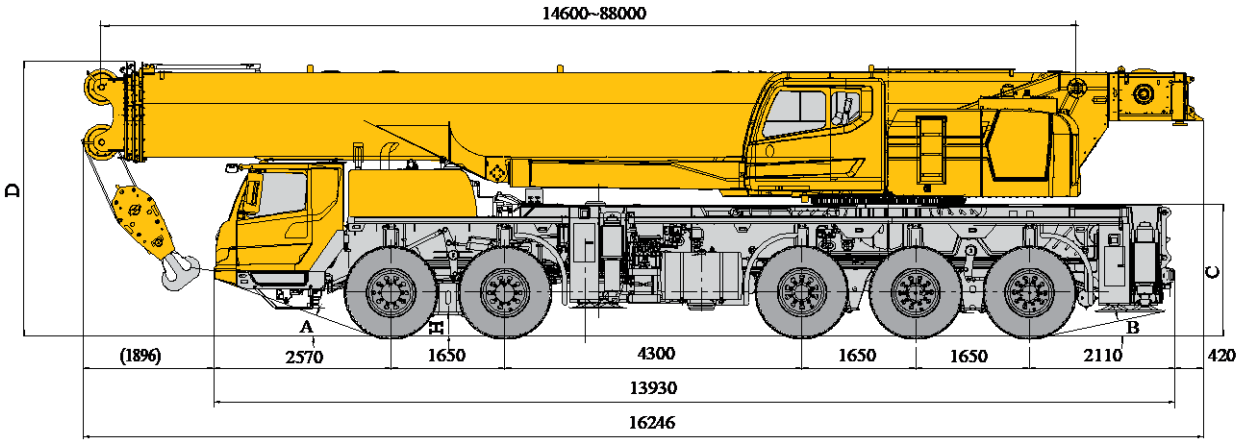


7th edition, December 2023

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Dimensions



| | A | B | C | D | E | R1 | R2 | R3 | H |
|-------------|-----|-----|------|------|------|-------|-------|-------|-----|
| 385/95 R 25 | 20° | 12° | 1905 | 4000 | 3000 | 13900 | 13200 | 11500 | 270 |

Technical specifications



Chassis

| | |
|-------------------------|--|
| Frame | Designed and manufactured by XCMG, anti-torsion box structure, made of high strength steel. |
| Outriggers | <p>Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beam is adopted. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder.</p> <p>Float dimensions: 600 mm×600 mm Reaction force of outrigger at max. lifting load: 960 kN and 1020 kN.</p> |
| Engine | <p>YCK11430-60, in-line, 6-cylinder, water cooled, electrical diesel engine manufactured by Yuchai, with rated power of 316 kW/1900 rpm and max. torque of 2100 Nm/1100~1500 rpm. Compliant with China VI emission standard. Max. benchmark torque: 2280Nm. Fuel tank capacity: 470 L. AdBlue/DEF tank capacity: 33.5 L</p> <p>WP10.5H460E62, in-line, 6-cylinder, water cooled, electrical diesel engine manufactured by Weichai, with rated power of 338 kW/1900 rpm and max. torque of 2100 Nm/1000~1400 rpm. Compliant with China VI emission standard. Max. benchmark torque: 2256Nm. Fuel tank capacity: 470 L. AdBlue/DEF tank capacity: 34.3 L</p> |
| Hydraulic system | <p>The steering oil pump is connected to the PTO of the engine for controlling the steering hydraulic system.</p> <p>The oil pumps of outriggers and suspension hydraulic system are connected to the PTO of the transmission for controlling the outrigger and suspension hydraulic systems.</p> |
| Transmission | FAST manual transmission with 10 forward gears and 2 reverse gears available. |



Chassis

| | |
|--------------------------|---|
| Axle | High strength axles; the front axles (axle 1~2) are equipped with disc brake, and the rear axles (axle 3~5) are equipped with drum brake; axle 3~5 are for driving. |
| Suspension system | Hydro-pneumatic suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, and switching over of locked and unlocked suspension are available. |
| Tire | 10 tires and 1 spare tire, each axle is equipped with single tire, with large bearing capacity. Tire specifications: 385/95R25. |
| Braking system | <p>Service brake: dual-circuit air pressure brake (disc brake for front axles and drum brake for rear axles) acting on all wheels.</p> <p>Parking brake: spring-applied brake, acting on the wheels of axles 2-5.</p> <p>Auxiliary brake: engine exhaust brake, which is safe and reliable, and will prolong the service life of brake lining.</p> |
| Steering system | <p>Axles 1, 2, 4 and 5 are for steering and cylinder-controlled steering technology is adopted.</p> <p>Various steering modes are available to meet the requirements under different operation modes.</p> |
| Driver's cab | Windshield with wide visual field, electric wiper and electric window lifters are available; heater and air conditioner can let the air blow face or feet or realize defrosting; radio player is also equipped. A mechanical shock absorber seat for the driver and a double-seat designed co-driver's seat that can be unfolded into a sleeper are installed to supply comfort and reduce fatigue. |
| Electric system | DC 24 V, two batteries in series. |

Technical specifications



Superstructure

Structure Designed and manufactured by XCMG, made of high strength steel.

Hydraulic system Electric proportional variable pump is used for lifting, luffing and telescoping operations. A closed pump is used to drive slewing operation. The proportional solenoid directional control valve and air-cooled hydraulic oil cooler are also equipped.

Operating method The pilot electric proportional control system is equipped with two levers on left and right sides controlling the main movements of the crane, and stepless speed regulation is available.

Main winch Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balanced valve and a grooved drum equipped.

Auxiliary winch Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balanced valve and a grooved drum equipped.

Engine WP7G300E473, in-line, 6-cylinder, water cooled, electric control diesel engine, made by Weichai, with rated power of 221 kW/2200 rpm and max. torque of 1200 Nm/1400-1600 rpm, compliant with China IV emission standard. Fuel tank capacity: 330 L. AdBlue/DEF tank capacity: 35 L.

Slewing system Single-row, four-point contact-ball external slewing bearing, driven by a planetary gear reducer, which is driven by a hydraulic motor, with constant-closed brake equipped, may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.

Luffing system Single luffing cylinder and balance valve with the load compensation function are included. Balance valve-controlled boom gravity combined with power for lowering boom is used for boom luffing down.



Superstructure

Operator's cab Steel cab with a full-view windshield, safety glass, sliding door, adjustable seat with electric heating function; it can tilt backward about 20°; double-layer sun shield is adopted for roof window; sun shield is also equipped at the windshield and rear window; wipers, roof guardrails, pull-out step, LMI, human-machine interactive control panel, electric controlled armrest, engine acceleration pedal, engine start switch, etc. are also available. Heater, air conditioner and fire extinguisher of 2 kg are standard.

Safety devices Hydraulic balance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter, anti-two block, anemometer, winch monitoring device.

Combined counterweight Total weight is 60 t, with 6 counterweight combinations of 0 t, 6 t, 18 t, 30 t, 48 t and 60 t available.

Hook block 130 t hook block, 75 t hook block and 12 t hook block.

Boom 8-section boom with U-shaped cross-section, welded structure with single-plate boom head and compact boom tail. Single-cylinder pinning telescoping system
Boom length: 14.6 m~88 m.

Jib The jib consists of a connecting bracket, a offsetting (folding) bracket and two lattice sections. Three offset angles of 0° , 15° and 30° are available. It is stowed along the side of the boom.
Jib length: 11 m and 18.5 m

Auxiliary sheave Installed at the boom head, used for single line operation. Its lifting performance is the same as that for boom, but the max. lifting load could not exceed 11.4 t.

Boom extension Two-section lattice welded structure, attached to boom head.
Length of boom extension: 8 m×2

Independent jib head Lattice welding structure, attached to boom head
Length of independent jib head: 2.9 m

Configuration and optional equipment

| Configuration | Function description |
|------------------|--|
| Standard version | 8-section boom of 88 m, fixed jib of 18.5 m. |

Note: only standard configuration is available for this model.

| Optional equipment | |
|--------------------------|---|
| Tire | 385/95R25 (14.00R25) Radial tire (imported) |
| Auxiliary winch | |
| Hook block | 130 t hook block |
| Auxiliary sheave | |
| Boom extension | |
| Independent jib head | |
| Engine preheating device | |
| Counterweight slab F | |
| OBU device | |

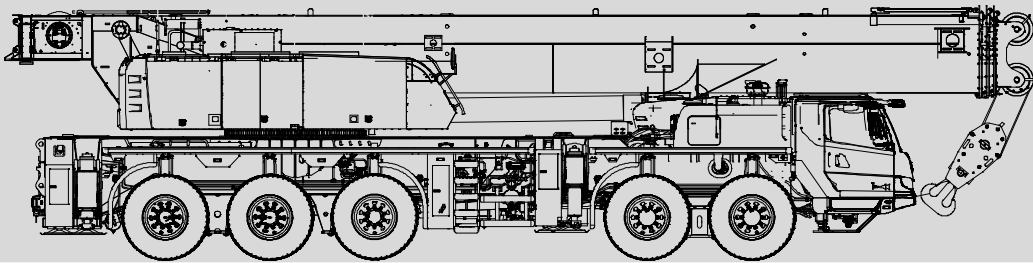
Note: The optional tires are not equipped on the purchased version. They can be purchased from the spare part sales department.

Weight

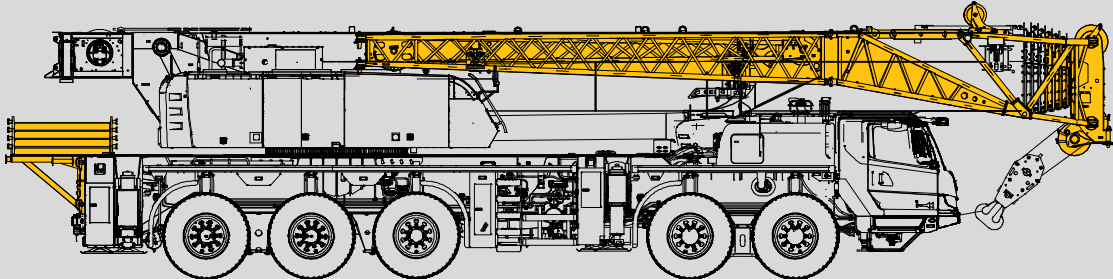


| Axle | 1 | 2 | 3 | 4 | 5 | Total weight |
|------|-------|-------|-------|-------|-------|---------------------|
| t | 9.82 | 9.67 | 11.75 | 11.9 | 11.85 | 54.99 ¹⁾ |
| t | 13.72 | 13.57 | 13.58 | 13.74 | 13.69 | 68.3 ²⁾ |
| t | 20.23 | 20.08 | 19.73 | 19.9 | 19.84 | 99.8 ³⁾ |

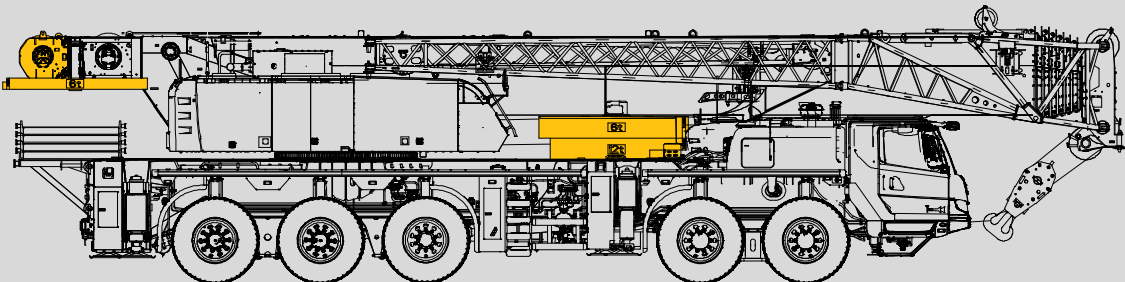
(1) Superstructure: 4th-8th boom sections, counterweight, auxiliary sheave, 12 t hook, jib, auxiliary winch and its wire rope and beacon light are excluded. Chassis: spare tire and its bracket, outrigger pad and its support are excluded. Steering and driving type: 10×6×8; tire specification: 385/95R25.



(2) Superstructure: all the boom sections, 75 t hook, auxiliary sheave, jib and its bracket are included. Chassis: front and rear outrigger beams, outrigger floats, outrigger pad and its support are included. Steering and driving type: 10×6×8; tire specification: 385/95R25.



(3) Superstructure: all the boom sections, 75 t hook, auxiliary sheave, jib and its bracket, auxiliary winch ,30 t counterweight are included. Chassis: front and rear outrigger beams, outrigger floats, outrigger pad and its support are included. Steering and driving type: 10×6×8; tire specification: 385/95R25.



| Hook block | Parts of line | Weight (kg) | Dimension (mm) | Remark |
|------------|---------------|-------------|----------------|--------------------|
| 130 t | 12 | 1017 | 1785×730×560 | Double hook blocks |
| 75 t | 7 | 740 | 1500×590×324 | Double hook blocks |
| 12 t | 1 | 470 | 896×448×448 | Single hook block |

Working speed



385/95R25
(14.00R25)



1~80

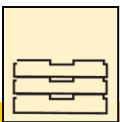
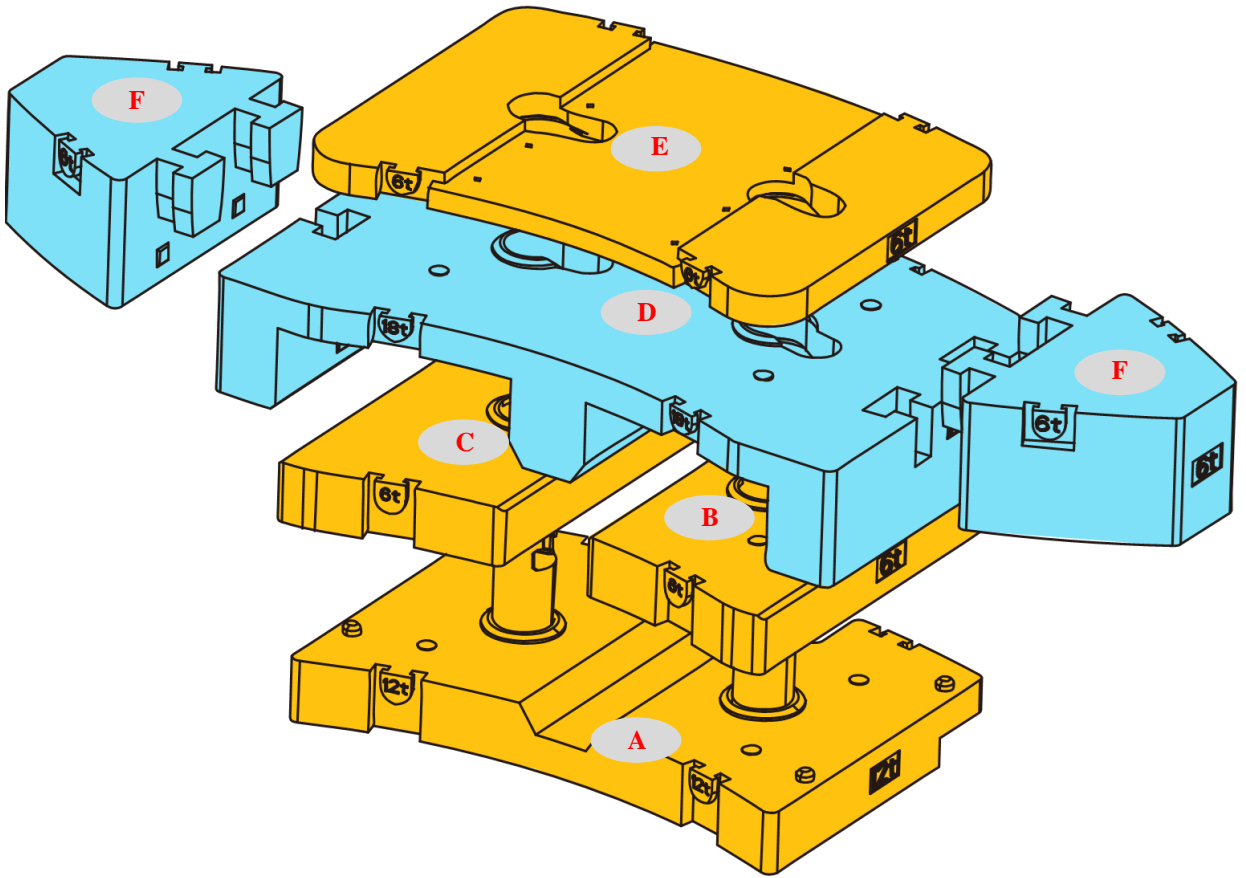


45%



| Operation mechanism | Working speed | Max. single line pull | Rope diameter/ length |
|---------------------|--|-----------------------|-----------------------|
| | 0-135 m/min, single line, 4th layer | 114 kN | 22 mm/300 m |
| | 0-90 m/min, single line, 4th layer | 114 kN | 22 mm/240 m |
| | 0-1.5 r/min | | |
| | Approx. 65 s for boom luffing up from -1 ° to 82 ° | | |
| | Approx. 880 s for boom extending from 14.6 m to 88 m | | |


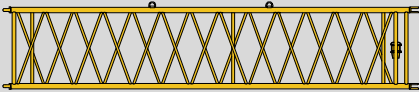

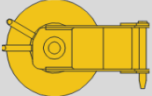
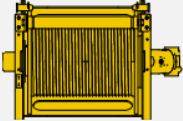
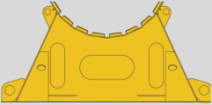

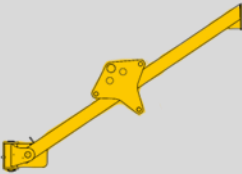
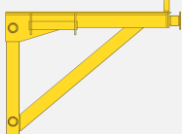
Counterweight



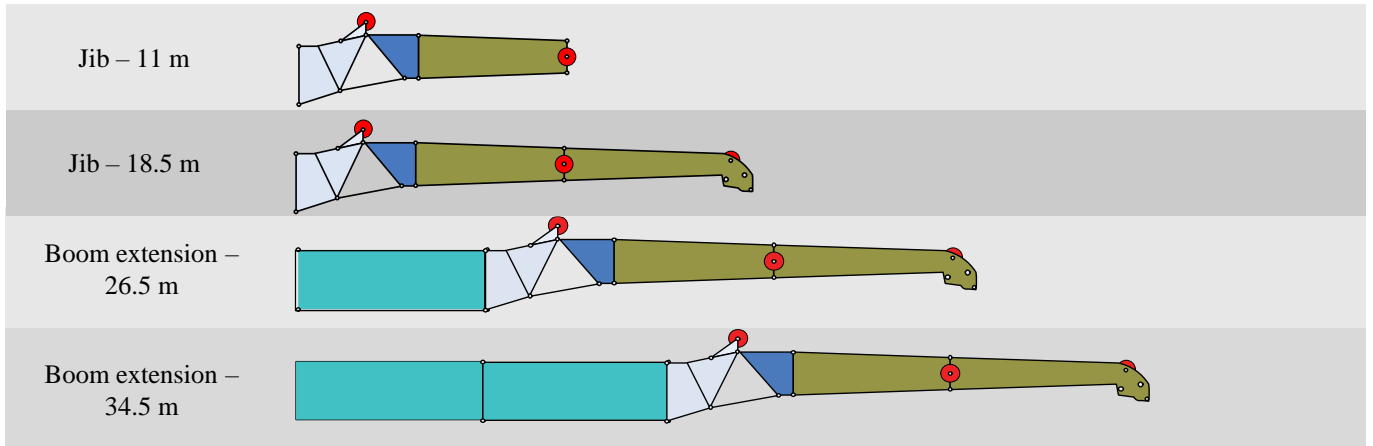
| Counterweight | A | B | C | D | E | F |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Dimensions (L×W×H) (mm) | 2995*2200*937 | 2344*1238*374 | 2344*1238*374 | 3800*2350*701 | 2995*2266*177 | 1565*1310*735 |
| Weight (t) | 12 | 6 | 6 | 18 | 6 | 6 |
| Operation modes | 60 t | 48 t | 30 t | 18 t | 6 t | |
| Combinations | E+A+B+C+D+F×2 | E+A+B+C+D | E+A+B+C | E+A | E | |

Note: the yellow counterweight slabs can be carried during heavy-load jobsite transfer, and blue slabs cannot be carried.

Dimensions of parts to be transported

| Name | Illustration | Weight (kg) | Qty | Dimension (mm) |
|--------------------------------------|---|-------------|-----|----------------|
| Jib |  | 1750 | 1 | 11620×1670×890 |
| Boom extension |  | 600 | 2 | 8000×1417×800 |
| Independent jib head |  | 475 | 1 | 3170×2345×870 |
| Auxiliary sheave |  | 83 | 1 | 520×860×870 |
| Auxiliary winch (With wire ropes) |  | 1300 | 1 | 1255×764×756 |
| Transport bracket |  | 408 | 2 | 1900×750×830 |
| Spare tire |  | 260 | 1 | 1360×1360×385 |
| Spare tire bracket |  | 46 | 1 | 1952×332×375 |
| Pad support |  | 200 | 1 | 1250×1000×1650 |

Boom / Jib combinations



| Part name | Structure | Dimensions (L×W×H) (mm) | Weight (kg) |
|------------------------------|-----------|----------------------------|-------------|
| Connecting bracket | | 2100×800×1820 | 353 |
| Offsetting (folding) bracket | | 3050×700×1260 | 311 |
| Boom extension | | 8000×800×1310 | 600 |
| 1st jib section assembly | | 7380×550×750 | 477 |
| 2nd jib section assembly | | 7000×410×410 | 320 |

Boom / Jib combinations



Boom

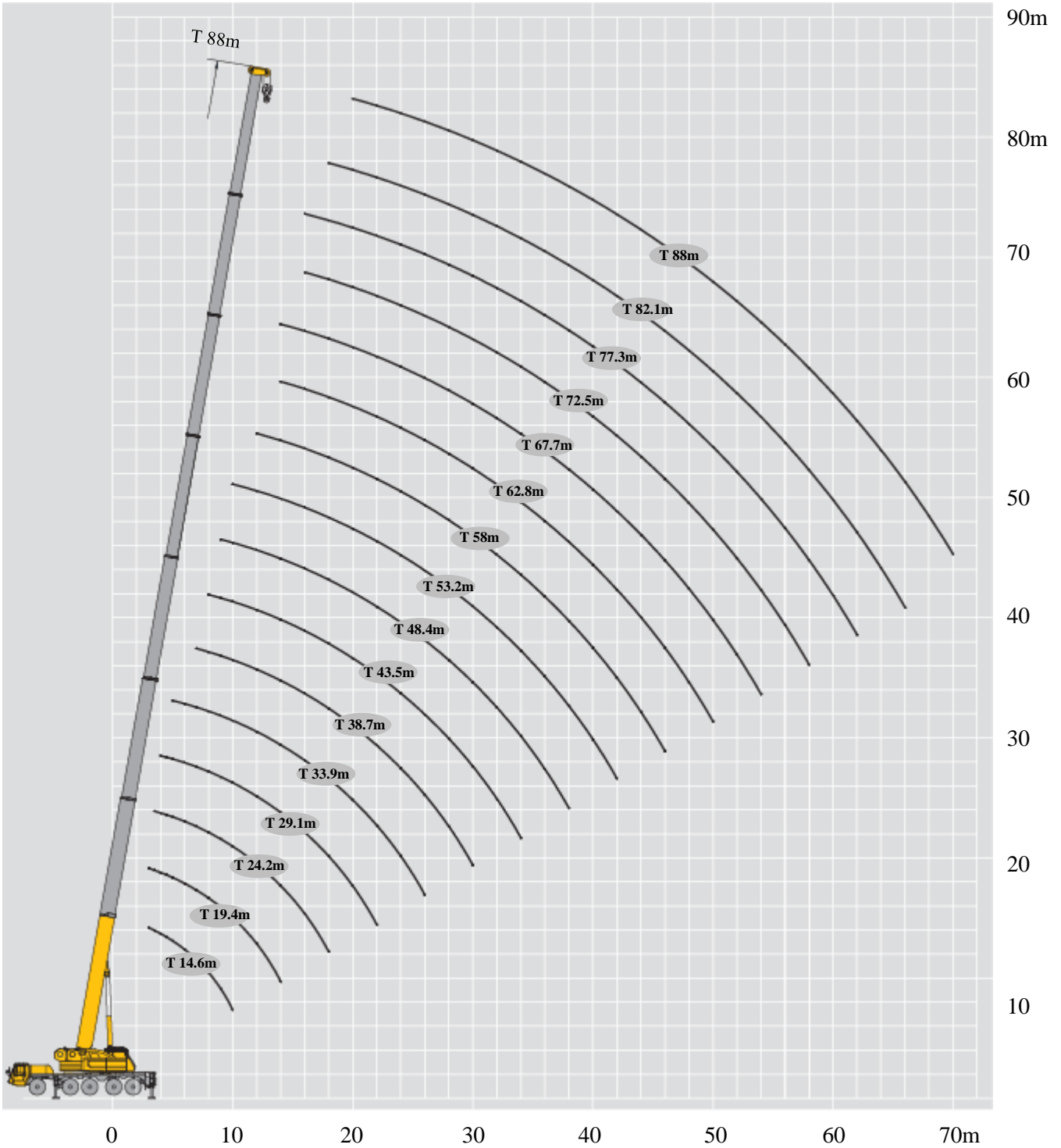
T: 14.6~88 m

Jib

T: 72.5~82.1 m
J: 11~18.5 m

Boom extension

T: 72.5~82.1m
I: 8 m/16 m
J: 11~18.5 m




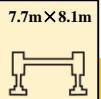

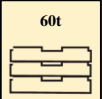

Lifting capacities


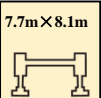



T 14.6~43.5m

| Lifting height (m) | 14.6-29.1m | | 7.7m×8.1m | | 360° | | 60t | | | | | | | | | | Lifting height (m) |
|--------------------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--------------------|
| | 14.6 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 29.1 | 29.1 | 29.1 | 29.1 | | |
| 3 | 160* | | | | | | | | | | | | | | | 3 | |
| 3 | 130.0 | 53.8 | 117.0 | 117.0 | 117.0 | 117.0 | | | | | | | | | | 3 | |
| 3.5 | 117.0 | 50.9 | 106.5 | 110.0 | 109.1 | 109.1 | | | | | | | | | | 3.5 | |
| 4 | 108.9 | 48.2 | 105.0 | 107.1 | 106.2 | 106.2 | 51.8 | 93.0 | 98.0 | 98.0 | 98.0 | | | | | 4 | |
| 4.5 | 105.8 | 46.0 | 98.3 | 101.0 | 100.1 | 100.1 | 49.6 | 92.0 | 96.3 | 95.4 | 94.5 | 52.1 | 72.9 | 91.0 | 88.0 | 4.5 | |
| 5 | 100.0 | 44.0 | 92.3 | 95.3 | 95.3 | 94.5 | 47.8 | 87.9 | 95.0 | 94.0 | 93.0 | 50.3 | 69.3 | 90.0 | 87.0 | 5 | |
| 6 | 88.0 | 40.2 | 86.0 | 86.0 | 85.1 | 85.1 | 44.2 | 78.3 | 84.5 | 83.5 | 82.5 | 46.8 | 62.8 | 85.0 | 84.0 | 6 | |
| 7 | 76.5 | 37.3 | 77.0 | 77.0 | 76.1 | 76.1 | 41.0 | 70.6 | 76.0 | 75.0 | 74.0 | 43.7 | 57.6 | 75.0 | 74.0 | 7 | |
| 8 | 66.0 | 34.6 | 69.0 | 69.0 | 68.0 | 68.0 | 38.6 | 62.0 | 67.0 | 66.0 | 65.0 | 40.6 | 53.1 | 67.0 | 66.0 | 8 | |
| 9 | 59.0 | 32.2 | 62.3 | 62.3 | 61.3 | 61.3 | 36.1 | 62.0 | 62.0 | 61.0 | 60.0 | 37.5 | 49.2 | 60.5 | 59.5 | 9 | |
| 10 | 52.0 | 30.1 | 56.0 | 55.0 | 55.0 | 54.0 | 33.4 | 56.2 | 55.2 | 54.2 | 53.2 | 33.9 | 45.9 | 55.5 | 54.5 | 10 | |
| 12 | | 27.1 | 47.0 | 47.0 | 46.0 | 45.0 | 29.1 | 46.0 | 45.0 | 44.0 | 43.0 | 29.7 | 40.3 | 45.5 | 44.5 | 12 | |
| 14 | | 24.5 | 38.5 | 38.5 | 37.5 | 36.5 | 25.7 | 38.5 | 37.5 | 36.5 | 34.5 | 26.3 | 35.5 | 37.8 | 36.0 | 14 | |
| 16 | | | | | | | 23.0 | 32.4 | 31.5 | 30.6 | 28.8 | 23.6 | 31.5 | 33.5 | 32.5 | 16 | |
| 18 | | | | | | | 20.6 | 27.9 | 27.0 | 26.1 | 25.2 | 21.3 | 28.4 | 27.9 | 26.1 | 18 | |
| 20 | | | | | | | | | | | | 19.5 | 25.2 | 24.3 | 23.4 | 20 | |
| 22 | | | | | | | | | | | | 17.8 | 21.5 | 21.6 | 20.6 | 22 | |
| Code | 0000000 | 0000001 | 0000100 | 0001000 | 0010000 | 0100000 | 0000011 | 0001100 | 0011000 | 0110000 | 1100000 | 0000111 | 0001110 | 0011100 | 0111000 | Code | |


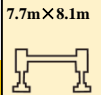


| Lifting height (m) | 29.1-43.5m | | 7.7m×8.1m | | 360° | | 60t | | | | | | | | | | Lifting height (m) |
|--------------------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--------------------|
| | 29.1 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 43.5 | 43.5 | 43.5 | 43.5 | | |
| 4.5 | 88.0 | | | | | | | | | | | | | | | 4.5 | |
| 5 | 87.0 | | | | | | | | | | | | | | | 5 | |
| 6 | 82.0 | 48.7 | 66.0 | 77.0 | 76.0 | 75.0 | | | | | | | | | | 6 | |
| 7 | 73.0 | 45.9 | 61.0 | 75.0 | 74.0 | 73.0 | | | | | | | | | | 7 | |
| 8 | 64.0 | 43.2 | 56.7 | 67.0 | 66.0 | 65.0 | 44.9 | 64.6 | 51.4 | 65.0 | 54.0 | 18.1 | 46.0 | 47.1 | 55.0 | 8 | |
| 9 | 58.5 | 40.5 | 53.0 | 60.0 | 58.0 | 57.0 | 42.6 | 61.0 | 47.4 | 60.0 | 54.0 | 16.9 | 43.8 | 43.7 | 54.0 | 9 | |
| 10 | 52.5 | 37.8 | 49.6 | 55.0 | 54.0 | 53.0 | 40.0 | 55.0 | 43.8 | 54.0 | 53.0 | 15.9 | 41.5 | 40.5 | 53.0 | 10 | |
| 12 | 43.5 | 32.3 | 43.9 | 46.0 | 44.0 | 40.0 | 34.3 | 45.5 | 38.0 | 43.5 | 42.5 | 14.1 | 37.2 | 34.6 | 44.5 | 12 | |
| 14 | 35.1 | 28.9 | 37.8 | 36.0 | 35.1 | 34.2 | 30.9 | 38.7 | 33.0 | 36.7 | 35.7 | 12.6 | 32.7 | 30.6 | 38.0 | 14 | |
| 16 | 31.5 | 26.1 | 33.0 | 32.0 | 30.0 | 29.0 | 28.2 | 33.0 | 29.3 | 30.6 | 29.7 | 11.2 | 29.8 | 27.2 | 33.0 | 16 | |
| 18 | 25.2 | 23.8 | 28.8 | 27.0 | 26.1 | 25.2 | 25.8 | 29.0 | 26.2 | 27.0 | 26.0 | 10.1 | 27.4 | 24.4 | 29.0 | 18 | |
| 20 | 21.6 | 21.8 | 25.2 | 23.4 | 22.5 | 21.6 | 23.7 | 25.7 | 24.7 | 24.7 | 22.7 | 9.3 | 26.5 | 22.1 | 24.5 | 20 | |
| 22 | 18.9 | 20.1 | 22.5 | 20.7 | 19.8 | 18.5 | 22.0 | 22.5 | 21.5 | 20.6 | 18.9 | 8.5 | 23.0 | 20.0 | 21.0 | 22 | |
| 24 | | 18.7 | 19.1 | 18.6 | 17.0 | 15.7 | 20.6 | 18.9 | 18.0 | 17.8 | 16.4 | 7.8 | 20.5 | 18.4 | 18.6 | 24 | |
| 26 | | 16.2 | 16.2 | 14.7 | 12.9 | 11.5 | 18.4 | 17.0 | 15.8 | 15.4 | 14.0 | 7.2 | 17.5 | 16.3 | 15.9 | 26 | |
| 28 | | | | | | | 16.2 | 14.8 | 13.7 | 13.2 | 11.9 | 6.6 | 15.5 | 14.3 | 13.9 | 28 | |
| 30 | | | | | | | 14.7 | 13.3 | 12.2 | 11.8 | 10.4 | 6.1 | 15.0 | 13.0 | 12.6 | 30 | |
| 32 | | | | | | | 13.0 | 11.7 | 10.5 | 10.1 | 8.8 | 5.7 | 13.3 | 11.5 | 11.1 | 32 | |
| 34 | | | | | | | | | | | | 5.3 | 12.0 | 10.3 | 9.9 | 34 | |
| 36 | | | | | | | | | | | | 4.9 | 10.5 | 9.0 | 8.7 | 36 | |
| Code | 1110000 | 0001111 | 0011110 | 0111100 | 1111000 | 2110000 | 0011111 | 0111110 | 0211100 | 1111100 | 2111000 | 0000222 | 0111111 | 0211110 | 1111110 | Code | |


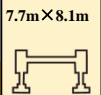

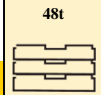
Note: * is the nominal load, indicating the crane's capacity class.

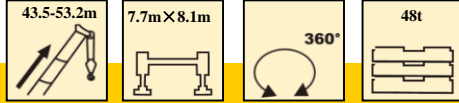
| |  43.5 |  48.4 |  48.4 |  48.4 | 48.4 | 48.4 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 |  |
|------|--|--|--|--|---------|---------|---------|---------|---------|---------|---------|---|
| 8 | 54.6 | | | | | | | | | | | 8 |
| 9 | 53.0 | | | | | | | | | | | 9 |
| 10 | 52.0 | 15.9 | 39.0 | 43.4 | 44.0 | 43.1 | | | | | | 10 |
| 12 | 43.5 | 14.2 | 33.8 | 40.3 | 41.4 | 36.1 | 14.8 | 33.5 | 33.0 | 32.0 | 27.4 | 12 |
| 14 | 37.0 | 13.5 | 31.0 | 37.0 | 33.3 | 33.5 | 13.5 | 31.9 | 32.0 | 30.5 | 26.9 | 14 |
| 16 | 30.0 | 11.7 | 25.6 | 33.0 | 29.2 | 28.0 | 11.7 | 28.0 | 28.5 | 27.3 | 24.4 | 16 |
| 18 | 25.2 | 10.6 | 23.1 | 29.0 | 28.0 | 27.0 | 11.1 | 25.9 | 27.0 | 25.5 | 21.7 | 18 |
| 20 | 23.5 | 9.7 | 20.9 | 25.5 | 22.0 | 22.0 | 9.7 | 21.9 | 25.0 | 21.6 | 19.4 | 20 |
| 22 | 20.0 | 8.9 | 19.1 | 23.0 | 19.8 | 18.9 | 9.0 | 20.1 | 21.5 | 19.7 | 17.6 | 22 |
| 24 | 17.5 | 8.2 | 17.5 | 20.1 | 18.0 | 17.0 | 8.3 | 18.0 | 18.0 | 17.1 | 15.9 | 24 |
| 26 | 14.5 | 7.6 | 16.1 | 18.3 | 15.6 | 14.7 | 7.7 | 16.2 | 16.2 | 15.3 | 14.5 | 26 |
| 28 | 12.5 | 7.0 | 15.7 | 16.0 | 13.6 | 12.7 | 7.1 | 14.2 | 14.4 | 12.8 | 12.2 | 28 |
| 30 | 11.2 | 6.6 | 14.5 | 13.3 | 12.0 | 11.1 | 6.6 | 13.0 | 12.7 | 11.7 | 11.2 | 30 |
| 32 | 9.7 | 6.2 | 12.9 | 11.9 | 10.5 | 9.6 | 6.2 | 12.0 | 11.3 | 10.4 | 9.7 | 32 |
| 34 | 8.5 | 5.8 | 11.5 | 10.6 | 9.3 | 8.4 | 5.8 | 10.8 | 10.0 | 9.1 | 8.5 | 34 |
| 36 | 7.4 | 5.4 | 10.3 | 9.5 | 8.2 | 7.3 | 5.4 | 9.5 | 8.9 | 7.9 | 7.4 | 36 |
| 38 | | 5.0 | 9.2 | 8.6 | 7.2 | 6.3 | 5.1 | 8.5 | 7.8 | 7.0 | 6.4 | 38 |
| 40 | | 4.8 | 8.2 | 7.7 | 6.3 | 5.3 | 4.7 | 7.5 | 7.0 | 6.1 | 5.5 | 40 |
| 42 | | | | | | | 4.5 | 6.7 | 6.3 | 5.3 | 4.6 | 42 |
| 44 | | | | | | | 4.2 | 5.9 | 5.6 | 4.5 | 3.9 | 44 |
| Code | 2111100 | 0001222 | 0211111 | 1111111 | 2111110 | 2211100 | 0002222 | 1211111 | 2111111 | 2211110 | 2221100 | Code |

| |  58 |  58 |  58 |  58 | 58 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 |  |
|------|--|--|--|--|---------|---------|---------|---------|---------|---------|---|
| 14 | 12.5 | 23.6 | 27.2 | 25.0 | 21.6 | 13.0 | 16.0 | 17.5 | 19.7 | 22.0 | 14 |
| 16 | 11.9 | 21.7 | 25.3 | 24.0 | 21.3 | 12.6 | 15.4 | 17.0 | 19.0 | 22.0 | 16 |
| 18 | 11.1 | 19.7 | 23.4 | 20.5 | 19.1 | 11.3 | 14.0 | 15.2 | 17.2 | 20.0 | 18 |
| 20 | 9.9 | 17.2 | 21.0 | 18.9 | 17.4 | 10.5 | 13.3 | 14.2 | 16.0 | 18.7 | 20 |
| 22 | 9.2 | 16.0 | 19.2 | 17.1 | 15.9 | 9.0 | 11.5 | 12.2 | 13.7 | 17.0 | 22 |
| 24 | 8.7 | 14.8 | 16.9 | 15.2 | 13.9 | 8.7 | 10.7 | 11.3 | 12.8 | 15.8 | 24 |
| 26 | 8.1 | 13.9 | 15.5 | 13.8 | 12.7 | 8.5 | 9.8 | 10.4 | 12.0 | 14.6 | 26 |
| 28 | 7.6 | 12.9 | 14.2 | 12.6 | 11.6 | 8.2 | 9.1 | 9.6 | 11.2 | 13.5 | 28 |
| 30 | 7.0 | 12.1 | 13.2 | 11.7 | 10.6 | 7.3 | 8.6 | 8.8 | 10.4 | 12.3 | 30 |
| 32 | 6.6 | 11.8 | 11.0 | 10.4 | 9.6 | 6.9 | 8.1 | 8.2 | 9.6 | 11.3 | 32 |
| 34 | 6.2 | 10.7 | 9.8 | 9.1 | 8.8 | 6.5 | 7.6 | 7.7 | 9.0 | 10.2 | 34 |
| 36 | 5.8 | 9.5 | 8.6 | 8.0 | 7.7 | 5.7 | 7.1 | 7.2 | 8.4 | 9.0 | 36 |
| 38 | 5.4 | 8.4 | 7.7 | 7.0 | 6.8 | 5.3 | 6.7 | 6.8 | 8.2 | 7.9 | 38 |
| 40 | 5.1 | 7.5 | 6.8 | 6.2 | 5.9 | 5.0 | 6.4 | 6.4 | 7.7 | 6.8 | 40 |
| 42 | 4.8 | 6.6 | 6.0 | 5.4 | 5.0 | 4.6 | 6.0 | 6.0 | 6.8 | 6.0 | 42 |
| 44 | 4.6 | 5.9 | 5.3 | 4.6 | 4.2 | 4.3 | 5.7 | 5.7 | 6.0 | 5.3 | 44 |
| 46 | 4.3 | 5.2 | 4.6 | 3.9 | 3.6 | 4.0 | 5.4 | 5.3 | 5.3 | 4.6 | 46 |
| 48 | 4.1 | 4.5 | 4.0 | 3.3 | 2.9 | 3.8 | 5.2 | 4.9 | 4.7 | 4.0 | 48 |
| 50 | 3.8 | 3.9 | 3.4 | 2.7 | 2.4 | 3.5 | 4.9 | 4.7 | 4.1 | 3.4 | 50 |
| 52 | | | | | | 3.3 | 4.2 | 4.0 | 3.6 | 2.9 | 52 |
| Code | 0012222 | 1221111 | 2211111 | 2221110 | 2222100 | 0022222 | 1112221 | 1122211 | 1222111 | 2221111 | Code |


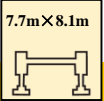

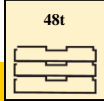

| | 67.7-88m | | 7.7m×8.1m | | 360° | | 60t | | | | | | | | |
|------|----------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|
| | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 72.5 | 72.5 | 72.5 | 72.5 | 77.3 | 77.3 | 82.1 | 88 | | |
| 14 | 13.1 | 12.1 | 15.1 | 16.0 | 16.9 | | | | | | | | | 14 | |
| 16 | 11.0 | 11.5 | 14.0 | 15.6 | 16.9 | 11.8 | 12.1 | 12.7 | 13.3 | | | | | 16 | |
| 18 | 10.7 | 11.4 | 13.5 | 15.0 | 16.6 | 9.8 | 10.3 | 12.7 | 13.2 | 9.5 | 10.0 | | | 18 | |
| 20 | 10.6 | 11.2 | 13.1 | 14.4 | 16.1 | 9.1 | 9.4 | 11.3 | 13.0 | 9.3 | 10.0 | | | 20 | |
| 22 | 10.0 | 10.3 | 12.3 | 13.4 | 15.2 | 8.7 | 8.9 | 10.8 | 12.8 | 8.4 | 9.9 | 8.2 | 6.5 | 22 | |
| 24 | 8.6 | 8.8 | 10.3 | 11.3 | 13.9 | 8.4 | 8.4 | 10.0 | 12.4 | 8.1 | 9.8 | 8.2 | 6.5 | 24 | |
| 26 | 8.4 | 8.4 | 9.2 | 10.6 | 12.8 | 8.3 | 8.1 | 9.1 | 11.3 | 7.8 | 9.8 | 8.2 | 6.5 | 26 | |
| 28 | 8.2 | 8.0 | 8.6 | 9.6 | 11.8 | 8.1 | 7.8 | 8.6 | 10.3 | 7.5 | 9.2 | 8.0 | 6.3 | 28 | |
| 30 | 8.0 | 7.6 | 8.1 | 8.9 | 10.8 | 7.9 | 7.4 | 8.5 | 9.5 | 7.4 | 8.6 | 7.7 | 6.3 | 30 | |
| 32 | 7.5 | 7.2 | 7.6 | 8.5 | 9.9 | 7.5 | 7.1 | 8.4 | 8.8 | 7.3 | 7.9 | 7.3 | 6.3 | 32 | |
| 34 | 7.0 | 6.8 | 7.1 | 8.4 | 9.3 | 7.0 | 6.7 | 7.9 | 8.2 | 7.2 | 7.4 | 6.9 | 6.1 | 34 | |
| 36 | 6.6 | 6.5 | 6.7 | 8.3 | 8.6 | 6.6 | 6.3 | 7.4 | 7.6 | 6.7 | 6.9 | 6.4 | 5.8 | 36 | |
| 38 | 6.2 | 6.1 | 6.3 | 7.8 | 8.0 | 6.2 | 5.9 | 7.0 | 7.1 | 6.3 | 6.5 | 6.0 | 5.4 | 38 | |
| 40 | 5.8 | 5.8 | 5.9 | 7.2 | 7.1 | 5.8 | 5.6 | 6.4 | 6.6 | 5.9 | 6.1 | 5.6 | 5.0 | 40 | |
| 42 | 4.9 | 5.5 | 5.6 | 6.6 | 6.3 | 5.4 | 5.2 | 6.0 | 6.2 | 5.6 | 5.7 | 5.2 | 4.6 | 42 | |
| 44 | 4.6 | 5.3 | 5.2 | 6.2 | 5.5 | 5.1 | 4.9 | 5.6 | 5.8 | 5.3 | 5.3 | 5.0 | 4.4 | 44 | |
| 46 | 4.4 | 5.0 | 4.8 | 5.6 | 4.8 | 4.9 | 4.7 | 5.4 | 5.1 | 5.0 | 4.9 | 4.6 | 4.1 | 46 | |
| 48 | 4.1 | 4.8 | 4.6 | 5.0 | 4.2 | 4.6 | 4.4 | 5.1 | 4.5 | 4.7 | 4.6 | 4.4 | 3.8 | 48 | |
| 50 | 3.9 | 4.5 | 4.3 | 4.4 | 3.6 | 4.4 | 4.2 | 4.8 | 3.9 | 4.5 | 4.3 | 4.1 | 3.6 | 50 | |
| 52 | 3.6 | 4.3 | 4.2 | 3.9 | 3.1 | 4.2 | 3.9 | 4.3 | 3.4 | 4.3 | 3.8 | 3.9 | 3.4 | 52 | |
| 54 | 3.4 | 4.2 | 3.8 | 3.4 | 2.6 | 3.6 | 3.7 | 3.8 | 2.9 | 4.0 | 3.3 | 3.7 | 3.1 | 54 | |
| 56 | 3.3 | 3.9 | 3.6 | 3.0 | 2.2 | 3.4 | 3.5 | 3.3 | 2.5 | 3.5 | 2.9 | 3.3 | 3.0 | 56 | |
| 58 | 3.0 | 3.8 | 3.2 | 2.5 | 1.7 | 3.2 | 3.3 | 2.9 | 2.1 | 3.3 | 2.4 | 2.9 | 2.9 | 58 | |
| 60 | | | | | | 3.1 | 3.1 | 2.5 | 1.7 | 3.0 | 2.1 | 2.5 | 2.5 | 60 | |
| 62 | | | | | | 2.9 | 2.9 | 2.2 | 1.3 | 2.6 | 1.7 | 2.1 | 2.2 | 62 | |
| 64 | | | | | | 2.8 | 2.6 | 1.8 | 1.0 | 2.3 | 1.4 | 1.8 | 1.8 | 64 | |
| 66 | | | | | | | | | | 2.0 | 1.0 | 1.5 | 1.5 | 66 | |
| 68 | | | | | | | | | | 1.7 | 0.8 | 1.2 | 1.2 | 68 | |
| 70 | | | | | | | | | | 1.4 | | 0.9 | 0.9 | 70 | |
| 72 | | | | | | | | | | | | 0.6 | 0.7 | 72 | |
| Code | 0122222 | 1112222 | 1122221 | 1222211 | 2222111 | 0222222 | 1122222 | 1222221 | 2222211 | 1222222 | 2222221 | 2222222 | 3333333 | Code | |


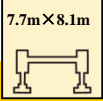
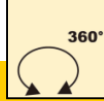
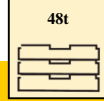

| Code |     | | | | | | | | | | | | | | Code |
|------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|
| | 14.6 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 29.1 | 29.1 | | |
| 3 | 117.0 | 53.8 | 117.0 | 117.0 | 117.0 | 117.0 | | | | | | | | 3 | |
| 3.5 | 117.0 | 50.9 | 106.5 | 110.0 | 109.1 | 109.1 | | | | | | | | 3.5 | |
| 4 | 108.9 | 48.2 | 105.0 | 107.1 | 106.2 | 106.2 | 51.8 | 93.0 | 98.0 | 98.0 | 98.0 | | | 4 | |
| 4.5 | 105.8 | 46.0 | 98.3 | 101.0 | 100.1 | 100.1 | 49.6 | 92.0 | 96.3 | 95.4 | 94.5 | 52.1 | 72.9 | 4.5 | |
| 5 | 100.0 | 44.0 | 92.3 | 95.3 | 95.3 | 94.5 | 47.8 | 87.9 | 95.0 | 94.0 | 93.0 | 50.3 | 69.3 | 5 | |
| 6 | 88.0 | 40.2 | 82.0 | 86.0 | 85.1 | 85.1 | 44.2 | 78.3 | 84.5 | 83.5 | 82.5 | 46.8 | 62.8 | 6 | |
| 7 | 76.5 | 37.3 | 73.9 | 77.0 | 76.1 | 76.1 | 41.0 | 70.6 | 76.0 | 75.0 | 74.0 | 43.7 | 57.6 | 7 | |
| 8 | 66.0 | 34.6 | 67.2 | 69.0 | 68.0 | 68.0 | 38.6 | 62.0 | 67.0 | 66.0 | 65.0 | 40.6 | 53.1 | 8 | |
| 9 | 59.0 | 32.2 | 61.6 | 62.3 | 61.3 | 61.3 | 36.1 | 58.8 | 62.0 | 61.0 | 60.0 | 37.5 | 49.2 | 9 | |
| 10 | 52.0 | 30.1 | 56.0 | 55.0 | 55.0 | 54.0 | 33.4 | 54.1 | 55.2 | 54.2 | 53.2 | 33.9 | 45.9 | 10 | |
| 12 | | 27.1 | 46.0 | 45.0 | 45.0 | 44.0 | 29.1 | 46.0 | 45.0 | 44.0 | 43.0 | 29.7 | 40.3 | 12 | |
| 14 | | 24.5 | 37.2 | 36.5 | 35.7 | 34.8 | 25.7 | 37.9 | 36.7 | 35.3 | 33.7 | 26.3 | 35.5 | 14 | |
| 16 | | | | | | | 23.0 | 30.2 | 29.0 | 27.7 | 26.2 | 23.6 | 31.4 | 16 | |
| 18 | | | | | | | 20.6 | 24.7 | 23.6 | 22.3 | 20.8 | 21.3 | 25.8 | 18 | |
| 20 | | | | | | | | | | | | 19.5 | 21.7 | 20 | |
| 22 | | | | | | | | | | | | 17.8 | 18.5 | 22 | |
| Code | 0000000 | 0000001 | 0000100 | 0001000 | 0010000 | 0100000 | 0000011 | 0001100 | 0011000 | 0110000 | 1100000 | 0000111 | 0001110 | Code | |

| Code |     | | | | | | | | | | | | | | Code |
|------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|
| | 29.1 | 29.1 | 29.1 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | | |
| 4.5 | 91.0 | 88.0 | 88.0 | | | | | | | | | | | 4.5 | |
| 5 | 90.0 | 87.0 | 87.0 | | | | | | | | | | | 5 | |
| 6 | 82.8 | 83.0 | 82.0 | 48.7 | 66.0 | 77.0 | 76.0 | 75.0 | | | | | | 6 | |
| 7 | 74.3 | 74.0 | 73.0 | 45.9 | 61.0 | 73.0 | 72.0 | 71.0 | | | | | | 7 | |
| 8 | 67.0 | 66.0 | 64.0 | 43.2 | 56.7 | 66.0 | 65.0 | 64.0 | 44.9 | 59.1 | 51.4 | 64.0 | 54.0 | 8 | |
| 9 | 60.5 | 59.5 | 58.5 | 40.5 | 53.0 | 60.0 | 58.0 | 57.0 | 42.6 | 55.2 | 47.4 | 58.0 | 54.0 | 9 | |
| 10 | 55.5 | 54.5 | 52.5 | 37.8 | 49.6 | 55.0 | 53.0 | 52.0 | 40.0 | 52.1 | 43.8 | 53.0 | 52.0 | 10 | |
| 12 | 45.5 | 44.5 | 43.5 | 32.3 | 43.9 | 46.0 | 44.0 | 40.0 | 34.3 | 45.5 | 38.0 | 43.5 | 42.5 | 12 | |
| 14 | 37.8 | 36.0 | 34.3 | 28.9 | 37.8 | 36.0 | 35.0 | 33.6 | 30.9 | 37.0 | 33.0 | 35.0 | 34.0 | 14 | |
| 16 | 30.1 | 28.6 | 26.8 | 26.1 | 31.1 | 29.5 | 27.6 | 26.1 | 28.2 | 30.5 | 29.1 | 28.6 | 27.0 | 16 | |
| 18 | 24.6 | 23.1 | 21.4 | 23.8 | 25.6 | 24.1 | 22.3 | 20.8 | 25.8 | 25.0 | 23.7 | 23.2 | 21.6 | 18 | |
| 20 | 20.5 | 19.1 | 17.4 | 21.8 | 21.5 | 20.0 | 18.2 | 16.8 | 22.4 | 20.9 | 19.6 | 19.1 | 17.6 | 20 | |
| 22 | 17.3 | 15.9 | 14.3 | 19.5 | 18.3 | 16.8 | 15.1 | 13.7 | 19.2 | 17.7 | 16.4 | 16.0 | 14.5 | 22 | |
| 24 | | | | 16.9 | 15.7 | 14.3 | 12.6 | 11.3 | 16.6 | 15.1 | 13.9 | 13.5 | 12.0 | 24 | |
| 26 | | | | 14.8 | 13.6 | 12.2 | 10.6 | 9.3 | 14.5 | 13.1 | 11.8 | 11.4 | 10.0 | 26 | |
| 28 | | | | | | | | | 12.7 | 11.3 | 10.1 | 9.7 | 8.3 | 28 | |
| 30 | | | | | | | | | 11.3 | 9.9 | 8.7 | 8.3 | 6.9 | 30 | |
| 32 | | | | | | | | | 10.0 | 8.6 | 7.4 | 7.0 | 5.6 | 32 | |
| Code | 0011100 | 0111000 | 1110000 | 0001111 | 0011110 | 0111100 | 1111000 | 2110000 | 0011111 | 0111110 | 0211100 | 1111100 | 2111000 | Code | |



| | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 53.2 | 53.2 | 53.2 | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| 8 | 18.1 | 46.0 | 47.1 | 55.0 | 54.6 | | | | | | | | | 8 |
| 9 | 16.9 | 43.8 | 43.7 | 54.0 | 51.2 | | | | | | | | | 9 |
| 10 | 15.9 | 41.5 | 40.5 | 53.0 | 47.9 | 15.9 | 37.7 | 41.7 | 43.4 | 41.4 | | | | 10 |
| 12 | 14.1 | 37.2 | 34.6 | 44.0 | 40.0 | 14.2 | 32.2 | 38.1 | 39.1 | 34.3 | 13.8 | 32.1 | 31.7 | 12 |
| 14 | 12.6 | 32.7 | 30.6 | 35.0 | 34.0 | 12.9 | 28.6 | 34.0 | 33.3 | 30.9 | 12.6 | 29.1 | 29.2 | 14 |
| 16 | 11.2 | 29.8 | 27.2 | 29.6 | 27.9 | 11.7 | 25.6 | 30.6 | 28.8 | 27.7 | 11.7 | 26.5 | 26.9 | 16 |
| 18 | 10.1 | 25.9 | 24.4 | 24.1 | 22.5 | 10.6 | 23.1 | 25.0 | 23.4 | 22.3 | 10.6 | 24.0 | 24.3 | 18 |
| 20 | 9.3 | 21.8 | 20.4 | 20.0 | 18.5 | 9.7 | 20.9 | 20.9 | 19.3 | 18.3 | 9.7 | 20.6 | 20.2 | 20 |
| 22 | 8.5 | 18.6 | 17.3 | 16.9 | 15.3 | 8.9 | 18.1 | 17.7 | 16.2 | 15.2 | 9.0 | 17.4 | 17.0 | 22 |
| 24 | 7.8 | 16.0 | 14.7 | 14.3 | 12.8 | 8.2 | 15.5 | 15.2 | 13.7 | 12.7 | 8.3 | 14.8 | 14.5 | 24 |
| 26 | 7.2 | 13.9 | 12.6 | 12.3 | 10.8 | 7.6 | 13.4 | 13.1 | 11.6 | 10.6 | 7.7 | 12.8 | 12.4 | 26 |
| 28 | 6.6 | 12.2 | 10.9 | 10.5 | 9.1 | 7.0 | 11.7 | 11.4 | 9.9 | 9.0 | 7.1 | 11.0 | 10.7 | 28 |
| 30 | 6.1 | 10.7 | 9.5 | 9.1 | 7.7 | 6.6 | 10.2 | 9.9 | 8.5 | 7.5 | 6.6 | 9.6 | 9.3 | 30 |
| 32 | 5.7 | 9.4 | 8.2 | 7.8 | 6.4 | 6.2 | 9.0 | 8.7 | 7.2 | 6.3 | 6.2 | 8.3 | 8.0 | 32 |
| 34 | 5.3 | 8.3 | 7.1 | 6.8 | 5.4 | 5.8 | 7.9 | 7.6 | 6.2 | 5.2 | 5.8 | 7.2 | 6.9 | 34 |
| 36 | 4.9 | 7.4 | 6.2 | 5.8 | 4.4 | 5.4 | 6.9 | 6.6 | 5.2 | 4.3 | 5.4 | 6.3 | 6.0 | 36 |
| 38 | | | | | | 5.0 | 6.1 | 5.8 | 4.4 | 3.5 | 5.1 | 5.5 | 5.2 | 38 |
| 40 | | | | | | 4.8 | 5.4 | 5.0 | 3.7 | 2.8 | 4.7 | 4.7 | 4.4 | 40 |
| 42 | | | | | | | | | | | 4.5 | 4.1 | 3.8 | 42 |
| 44 | | | | | | | | | | | 4.2 | 3.5 | 3.2 | 44 |
| Code | 0000222 | 0111111 | 0211110 | 1111110 | 2111100 | 0001222 | 0211111 | 1111111 | 2111110 | 2211100 | 0002222 | 1211111 | 2111111 | Code |

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|------|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|---|
| | 53.2 | 53.2 | 58 | 58 | 58 | 58 | 58 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 67.7 | | |
| 12 | 30.4 | 27.4 | | | | | | | | | | | | 12 | |
| 14 | 27.9 | 26.9 | 12.5 | 22.1 | 25.4 | 24.1 | 21.6 | 12.0 | 14.8 | 16.5 | 18.2 | 21.1 | 12.0 | 14 | |
| 16 | 25.8 | 24.4 | 11.7 | 20.4 | 23.6 | 22.5 | 21.3 | 11.4 | 13.8 | 15.3 | 17.1 | 19.8 | 11.0 | 16 | |
| 18 | 23.2 | 21.7 | 10.9 | 18.6 | 22.0 | 20.5 | 19.1 | 10.6 | 13.0 | 14.2 | 15.9 | 18.4 | 10.5 | 18 | |
| 20 | 19.1 | 18.5 | 9.9 | 17.2 | 19.9 | 18.9 | 17.4 | 9.9 | 12.3 | 13.1 | 14.8 | 17.2 | 9.6 | 20 | |
| 22 | 16.0 | 15.3 | 9.2 | 16.0 | 16.8 | 16.0 | 15.7 | 9.0 | 11.5 | 12.2 | 13.7 | 16.1 | 9.0 | 22 | |
| 24 | 13.5 | 12.8 | 8.7 | 14.8 | 14.2 | 13.5 | 13.2 | 8.5 | 10.7 | 11.3 | 12.8 | 14.3 | 8.6 | 24 | |
| 26 | 11.4 | 10.8 | 8.1 | 12.7 | 12.2 | 11.5 | 11.1 | 8.1 | 9.8 | 10.4 | 12.0 | 12.2 | 8.1 | 26 | |
| 28 | 9.7 | 9.1 | 7.6 | 11.0 | 10.5 | 9.8 | 9.4 | 7.7 | 9.1 | 9.6 | 11.2 | 10.5 | 7.8 | 28 | |
| 30 | 8.3 | 7.7 | 7.0 | 9.5 | 9.0 | 8.3 | 8.0 | 7.1 | 8.6 | 8.8 | 9.7 | 9.0 | 7.4 | 30 | |
| 32 | 7.0 | 6.4 | 6.6 | 8.3 | 7.8 | 7.1 | 6.8 | 6.7 | 8.1 | 8.2 | 8.5 | 7.8 | 6.9 | 32 | |
| 34 | 6.0 | 5.4 | 6.2 | 7.2 | 6.7 | 6.0 | 5.7 | 6.2 | 7.6 | 7.7 | 7.4 | 6.7 | 6.5 | 34 | |
| 36 | 5.0 | 4.5 | 5.8 | 6.3 | 5.8 | 5.1 | 4.8 | 5.7 | 7.1 | 7.0 | 6.4 | 5.8 | 6.0 | 36 | |
| 38 | 4.2 | 3.6 | 5.4 | 5.4 | 4.9 | 4.3 | 4.0 | 5.3 | 6.6 | 6.2 | 5.6 | 4.9 | 5.6 | 38 | |
| 40 | 3.5 | 2.9 | 5.1 | 4.7 | 4.2 | 3.5 | 3.2 | 5.0 | 5.9 | 5.4 | 4.9 | 4.2 | 5.3 | 40 | |
| 42 | 2.8 | 2.3 | 4.8 | 4.0 | 3.5 | 2.9 | 2.6 | 4.6 | 5.2 | 4.7 | 4.2 | 3.5 | 4.9 | 42 | |
| 44 | 2.2 | 1.7 | 4.6 | 3.4 | 2.9 | 2.3 | 2.0 | 4.3 | 4.6 | 4.1 | 3.6 | 2.9 | 4.6 | 44 | |
| 46 | | | 4.3 | 2.9 | 2.4 | 1.8 | 1.5 | 4.0 | 4.1 | 3.6 | 3.1 | 2.4 | 4.4 | 46 | |
| 48 | | | 4.1 | 2.4 | 1.9 | 1.3 | 1.0 | 3.8 | 3.6 | 3.1 | 2.6 | 1.9 | 4.1 | 48 | |
| 50 | | | 3.8 | 2.0 | 1.5 | 0.8 | | 3.5 | 3.1 | 2.7 | 2.1 | 1.5 | 3.9 | 50 | |
| 52 | | | | | | | | 3.3 | 2.7 | 2.2 | 1.7 | 1.1 | 3.6 | 52 | |
| 54 | | | | | | | | | | | | | 3.2 | 54 | |
| 56 | | | | | | | | | | | | | 2.8 | 56 | |
| 58 | | | | | | | | | | | | | 2.5 | 58 | |
| Code | 2211110 | 2221100 | 0012222 | 1221111 | 2211111 | 2221110 | 2222100 | 0022222 | 1112221 | 1122211 | 1222111 | 2221111 | 0122222 | Code | |







| |  |  |  |  | | | | | | | | |  |
|------|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | 67.7 | 67.7 | 67.7 | 67.7 | 72.5 | 72.5 | 72.5 | 72.5 | 77.3 | 77.3 | 82.1 | 88 | |
| 14 | 12.1 | 13.7 | 15.3 | 16.9 | | | | | | | | | 14 |
| 16 | 11.5 | 13.1 | 14.5 | 16.2 | 10.7 | 10.9 | 12.1 | 13.3 | | | | | 16 |
| 18 | 10.8 | 12.4 | 13.8 | 15.3 | 9.8 | 10.3 | 11.7 | 12.9 | 8.9 | 10.0 | | | 18 |
| 20 | 10.1 | 11.8 | 12.9 | 14.5 | 9.1 | 9.4 | 11.3 | 12.4 | 8.7 | 10.0 | | | 20 |
| 22 | 9.2 | 11.1 | 12.1 | 13.7 | 8.7 | 8.9 | 10.8 | 11.8 | 8.4 | 9.6 | 8.0 | 6.5 | 22 |
| 24 | 8.8 | 10.3 | 11.3 | 12.9 | 8.4 | 8.4 | 10.0 | 11.2 | 8.1 | 9.3 | 7.7 | 6.5 | 24 |
| 26 | 8.4 | 9.2 | 10.6 | 12.1 | 8.0 | 8.1 | 9.1 | 10.5 | 7.8 | 8.8 | 7.4 | 6.5 | 26 |
| 28 | 8.0 | 8.6 | 9.6 | 10.7 | 7.7 | 7.8 | 8.6 | 9.5 | 7.5 | 8.5 | 7.2 | 6.1 | 28 |
| 30 | 7.6 | 8.1 | 8.9 | 9.2 | 7.4 | 7.4 | 8.1 | 9.1 | 7.2 | 8.1 | 7.0 | 6.0 | 30 |
| 32 | 7.2 | 7.6 | 8.5 | 8.0 | 7.0 | 7.1 | 7.7 | 8.3 | 6.9 | 7.7 | 6.7 | 5.8 | 32 |
| 34 | 6.8 | 7.1 | 7.7 | 6.9 | 6.7 | 6.7 | 7.3 | 7.2 | 6.6 | 7.3 | 6.6 | 5.6 | 34 |
| 36 | 6.5 | 6.7 | 6.7 | 5.9 | 6.2 | 6.3 | 6.9 | 6.2 | 6.3 | 6.6 | 6.2 | 5.5 | 36 |
| 38 | 6.1 | 6.3 | 5.9 | 5.1 | 5.8 | 5.9 | 6.2 | 5.4 | 6.0 | 5.8 | 6.0 | 5.4 | 38 |
| 40 | 5.8 | 5.8 | 5.1 | 4.4 | 5.5 | 5.6 | 5.5 | 4.7 | 5.6 | 5.0 | 5.5 | 5.0 | 40 |
| 42 | 5.5 | 5.1 | 4.5 | 3.7 | 5.1 | 5.2 | 4.8 | 4.0 | 5.2 | 4.4 | 4.8 | 4.6 | 42 |
| 44 | 5.0 | 4.5 | 3.9 | 3.1 | 4.9 | 4.9 | 4.2 | 3.4 | 4.6 | 3.8 | 4.2 | 4.2 | 44 |
| 46 | 4.5 | 4.0 | 3.3 | 2.6 | 4.6 | 4.4 | 3.7 | 2.9 | 4.1 | 3.2 | 3.6 | 3.7 | 46 |
| 48 | 4.0 | 3.5 | 2.8 | 2.1 | 4.1 | 3.9 | 3.2 | 2.4 | 3.6 | 2.7 | 3.2 | 3.2 | 48 |
| 50 | 3.5 | 3.0 | 2.4 | 1.7 | 3.6 | 3.4 | 2.7 | 1.9 | 3.1 | 2.3 | 2.7 | 2.7 | 50 |
| 52 | 3.1 | 2.6 | 2.0 | 1.3 | 3.2 | 3.0 | 2.3 | 1.5 | 2.7 | 1.9 | 2.3 | 2.3 | 52 |
| 54 | 2.8 | 2.2 | 1.6 | 0.9 | 2.8 | 2.6 | 1.9 | 1.2 | 2.3 | 1.5 | 1.9 | 1.9 | 54 |
| 56 | 2.4 | 1.9 | 1.3 | 0.5 | 2.5 | 2.3 | 1.6 | 0.8 | 2.0 | 1.2 | 1.6 | 1.6 | 56 |
| 58 | 2.1 | 1.5 | 0.9 | 0.2 | 2.2 | 1.9 | 1.3 | | 1.7 | 0.8 | 1.2 | 1.3 | 58 |
| 60 | | | | | 1.8 | 1.6 | 1.0 | | 1.4 | | 0.9 | 1.0 | 60 |
| 62 | | | | | 1.6 | 1.4 | 0.7 | | 1.1 | | 0.7 | 0.7 | 62 |
| 64 | | | | | 1.3 | 1.1 | | | 0.8 | | | | 64 |
| 66 | | | | | | | | | 0.6 | | | | 66 |
| Code | 1112222 | 1122221 | 1222211 | 2222111 | 0222222 | 1122222 | 1222221 | 2222211 | 1222222 | 2222221 | 2222222 | 3333333 | Code |







Lifting capacities

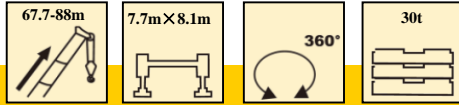
T 14.6~43.5m

| | 14.6-29.1m | | 7.7m×8.1m | | 360° | | 30t | | | | | | | | | | |
|------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|
| | 14.6 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 29.1 | 29.1 | 29.1 | 29.1 | | |
| 3 | 117.0 | 53.8 | 117.0 | 117.0 | 117.0 | 117.0 | | | | | | | | | | 3 | |
| 3.5 | 117.0 | 50.9 | 106.5 | 110.0 | 109.1 | 109.1 | | | | | | | | | | 3.5 | |
| 4 | 108.9 | 48.2 | 105.0 | 107.1 | 106.2 | 106.2 | 51.8 | 93.0 | 98.0 | 98.0 | 98.0 | | | | | 4 | |
| 4.5 | 105.0 | 46.0 | 98.3 | 101.0 | 100.1 | 100.1 | 49.6 | 92.0 | 96.3 | 95.4 | 94.5 | 52.1 | 72.9 | 88.0 | 88.0 | 4.5 | |
| 5 | 97.0 | 44.0 | 92.3 | 95.0 | 95.0 | 94.0 | 47.8 | 87.9 | 93.0 | 92.0 | 91.0 | 50.3 | 69.3 | 87.0 | 87.0 | 5 | |
| 6 | 85.0 | 40.2 | 82.0 | 84.0 | 83.0 | 83.0 | 44.2 | 78.3 | 82.0 | 81.0 | 80.0 | 46.8 | 62.8 | 81.0 | 80.0 | 6 | |
| 7 | 73.0 | 37.3 | 73.9 | 74.0 | 74.0 | 73.0 | 41.0 | 70.6 | 73.0 | 72.0 | 71.0 | 43.7 | 57.6 | 72.0 | 71.0 | 7 | |
| 8 | 63.0 | 34.6 | 65.0 | 64.0 | 64.0 | 63.0 | 38.6 | 62.0 | 64.0 | 63.0 | 62.0 | 40.6 | 53.1 | 64.0 | 63.0 | 8 | |
| 9 | 51.9 | 32.2 | 54.0 | 53.3 | 52.5 | 51.5 | 36.1 | 54.7 | 53.4 | 52.0 | 50.3 | 37.5 | 49.2 | 54.6 | 52.9 | 9 | |
| 10 | 41.9 | 30.1 | 44.2 | 43.4 | 42.5 | 41.5 | 33.4 | 44.9 | 43.6 | 42.1 | 40.3 | 33.9 | 45.9 | 44.9 | 43.1 | 10 | |
| 12 | | 27.1 | 31.0 | 30.3 | 29.5 | 28.6 | 29.1 | 31.6 | 30.5 | 29.2 | 27.6 | 29.7 | 32.9 | 31.6 | 30.0 | 12 | |
| 14 | | 24.1 | 23.1 | 22.5 | 21.8 | 21.0 | 25.4 | 23.8 | 22.7 | 21.5 | 20.0 | 26.0 | 24.9 | 23.7 | 22.3 | 14 | |
| 16 | | | | | | | 20.1 | 18.6 | 17.6 | 16.4 | 15.0 | 20.6 | 19.7 | 18.5 | 17.2 | 16 | |
| 18 | | | | | | | 16.4 | 14.9 | 13.9 | 12.8 | 11.5 | 16.9 | 15.9 | 14.8 | 13.5 | 18 | |
| 20 | | | | | | | | | | | | 14.0 | 13.1 | 12.1 | 10.8 | 20 | |
| 22 | | | | | | | | | | | | 11.8 | 11.0 | 9.9 | 8.7 | 22 | |
| Code | 0000000 | 0000001 | 0000100 | 0001000 | 0010000 | 0100000 | 0000011 | 0001100 | 0011000 | 0110000 | 1100000 | 0000111 | 0001110 | 0011100 | 0111000 | Code | |

| | 29.1-43.5m | | 7.7m×8.1m | | 360° | | 30t | | | | | | | | | | |
|------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|
| | 29.1 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 43.5 | 43.5 | 43.5 | 43.5 | | |
| 4.5 | 88.0 | | | | | | | | | | | | | | | 4.5 | |
| 5 | 87.0 | | | | | | | | | | | | | | | 5 | |
| 6 | 78.0 | 48.7 | 66.0 | 77.0 | 76.0 | 75.0 | | | | | | | | | | 6 | |
| 7 | 70.0 | 45.9 | 61.0 | 70.0 | 69.0 | 68.0 | | | | | | | | | | 7 | |
| 8 | 61.0 | 43.2 | 56.7 | 62.0 | 61.0 | 59.0 | 44.9 | 59.1 | 51.4 | 60.0 | 54.0 | 18.1 | 46.0 | 47.1 | 55.0 | 8 | |
| 9 | 50.9 | 40.5 | 53.0 | 53.9 | 51.8 | 50.2 | 42.6 | 55.0 | 47.4 | 52.9 | 51.0 | 16.9 | 43.8 | 43.7 | 53.0 | 9 | |
| 10 | 41.0 | 37.8 | 46.1 | 44.2 | 42.0 | 40.2 | 40.0 | 45.4 | 43.7 | 43.1 | 41.2 | 15.9 | 41.5 | 40.5 | 44.3 | 10 | |
| 12 | 28.2 | 32.3 | 32.6 | 31.0 | 29.1 | 27.5 | 33.7 | 32.0 | 30.6 | 30.0 | 28.3 | 14.1 | 33.0 | 31.5 | 31.1 | 12 | |
| 14 | 20.6 | 26.0 | 24.7 | 23.2 | 21.4 | 20.0 | 25.7 | 24.1 | 22.8 | 22.3 | 20.7 | 12.6 | 25.0 | 23.7 | 23.2 | 14 | |
| 16 | 15.6 | 20.7 | 19.4 | 18.0 | 16.3 | 15.0 | 20.3 | 18.9 | 17.6 | 17.2 | 15.7 | 11.2 | 19.8 | 18.5 | 18.1 | 16 | |
| 18 | 12.0 | 16.9 | 15.7 | 14.3 | 12.7 | 11.4 | 16.6 | 15.2 | 14.0 | 13.6 | 12.2 | 10.1 | 16.0 | 14.8 | 14.4 | 18 | |
| 20 | 9.3 | 14.1 | 12.9 | 11.6 | 10.0 | 8.8 | 13.8 | 12.4 | 11.3 | 10.8 | 9.5 | 9.3 | 13.2 | 12.0 | 11.6 | 20 | |
| 22 | 7.3 | 11.9 | 10.8 | 9.5 | 8.0 | 6.7 | 11.6 | 10.3 | 9.1 | 8.7 | 7.4 | 8.5 | 11.0 | 9.9 | 9.5 | 22 | |
| 24 | | 10.1 | 9.0 | 7.8 | 6.3 | 5.1 | 9.8 | 8.6 | 7.5 | 7.1 | 5.8 | 7.8 | 9.3 | 8.2 | 7.8 | 24 | |
| 26 | | 8.7 | 7.6 | 6.4 | 4.9 | 3.8 | 8.4 | 7.2 | 6.1 | 5.7 | 4.4 | 7.2 | 7.9 | 6.8 | 6.4 | 26 | |
| 28 | | | | | | | 7.2 | 6.0 | 4.9 | 4.5 | 3.3 | 6.6 | 6.7 | 5.6 | 5.3 | 28 | |
| 30 | | | | | | | 6.2 | 5.0 | 4.0 | 3.6 | 2.3 | 6.1 | 5.7 | 4.6 | 4.3 | 30 | |
| 32 | | | | | | | 5.4 | 4.2 | 3.1 | 2.7 | 1.5 | 5.7 | 4.9 | 3.8 | 3.5 | 32 | |
| 34 | | | | | | | | | | | | 5.3 | 4.2 | 3.1 | 2.8 | 34 | |
| 36 | | | | | | | | | | | | 4.9 | 3.5 | 2.4 | 2.1 | 36 | |
| Code | 1110000 | 0001111 | 0011110 | 0111100 | 1111000 | 2110000 | 0011111 | 0111110 | 0211100 | 1111100 | 2111000 | 0000222 | 0111111 | 0211110 | 1111110 | Code | |

|  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">43.5-53.2m </div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">7.7m×8.1m </div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">360° </div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">30t </div> </div> | | | | | | | | | | | |  |
|--|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|---|
| | 43.5 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | | |
| 8 | 54.6 | | | | | | | | | | | 8 | |
| 9 | 51.2 | | | | | | | | | | | 9 | |
| 10 | 42.3 | 15.9 | 37.7 | 41.7 | 43.4 | 41.4 | | | | | | 10 | |
| 12 | 29.3 | 14.2 | 32.2 | 32.1 | 30.3 | 29.1 | 13.8 | 31.6 | 31.3 | 30.0 | 27.4 | 12 | |
| 14 | 21.6 | 12.9 | 24.5 | 24.1 | 22.5 | 21.5 | 12.6 | 23.8 | 23.4 | 22.3 | 21.6 | 14 | |
| 16 | 16.5 | 11.7 | 19.3 | 18.9 | 17.4 | 16.4 | 11.7 | 18.6 | 18.2 | 17.2 | 16.6 | 16 | |
| 18 | 12.9 | 10.6 | 15.6 | 15.2 | 13.8 | 12.8 | 10.6 | 14.9 | 14.6 | 13.5 | 13.0 | 18 | |
| 20 | 10.2 | 9.7 | 12.8 | 12.4 | 11.0 | 10.1 | 9.7 | 12.1 | 11.8 | 10.8 | 10.3 | 20 | |
| 22 | 8.2 | 8.9 | 10.6 | 10.3 | 8.9 | 8.0 | 9.0 | 10.0 | 9.7 | 8.7 | 8.2 | 22 | |
| 24 | 6.5 | 8.2 | 8.9 | 8.6 | 7.2 | 6.4 | 8.3 | 8.3 | 8.0 | 7.1 | 6.5 | 24 | |
| 26 | 5.1 | 7.6 | 7.5 | 7.2 | 5.9 | 5.0 | 7.7 | 6.9 | 6.6 | 5.7 | 5.1 | 26 | |
| 28 | 4.0 | 7.0 | 6.3 | 6.0 | 4.7 | 3.9 | 7.1 | 5.7 | 5.4 | 4.5 | 4.0 | 28 | |
| 30 | 3.0 | 6.6 | 5.3 | 5.0 | 3.8 | 2.9 | 6.6 | 4.7 | 4.5 | 3.6 | 3.1 | 30 | |
| 32 | 2.2 | 6.2 | 4.5 | 4.2 | 2.9 | 2.1 | 6.2 | 3.9 | 3.6 | 2.8 | 2.2 | 32 | |
| 34 | 1.5 | 5.8 | 3.8 | 3.5 | 2.2 | 1.4 | 5.8 | 3.2 | 2.9 | 2.0 | 1.5 | 34 | |
| 36 | 0.9 | 5.3 | 3.1 | 2.8 | 1.6 | 0.8 | 5.2 | 2.5 | 2.3 | 1.4 | 0.9 | 36 | |
| 38 | | 4.7 | 2.6 | 2.3 | 1.0 | | 4.6 | 2.0 | 1.7 | 0.9 | | 38 | |
| 40 | | 4.2 | 2.1 | 1.8 | | | 4.1 | 1.5 | 1.2 | | | 40 | |
| 42 | | | | | | | 3.6 | 1.0 | 0.8 | | | 42 | |
| 44 | | | | | | | 3.2 | 0.6 | | | | 44 | |
| Code | 2111100 | 0001222 | 0211111 | 1111111 | 2111110 | 2211100 | 0002222 | 1211111 | 2111111 | 2211110 | 2221100 | Code | |

|  | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">58-62.8m </div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">7.7m×8.1m </div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">360° </div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">30t </div> </div> | | | | | | | | | | | |  |
|--|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|---|
| | 58 | 58 | 58 | 58 | 58 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | | | |
| 14 | 12.5 | 22.1 | 23.1 | 22.4 | 21.6 | 12.0 | 14.8 | 16.5 | 18.2 | 21.1 | 14 | | |
| 16 | 11.7 | 18.5 | 18.0 | 17.3 | 16.9 | 11.4 | 13.8 | 15.3 | 17.1 | 18.0 | 16 | | |
| 18 | 10.9 | 14.8 | 14.3 | 13.6 | 13.3 | 10.6 | 13.0 | 14.2 | 15.0 | 14.3 | 18 | | |
| 20 | 9.9 | 12.1 | 11.6 | 10.9 | 10.6 | 9.9 | 12.3 | 12.8 | 12.2 | 11.6 | 20 | | |
| 22 | 9.2 | 9.9 | 9.4 | 8.8 | 8.5 | 9.0 | 11.1 | 10.7 | 10.1 | 9.5 | 22 | | |
| 24 | 8.7 | 8.2 | 7.7 | 7.1 | 6.8 | 8.5 | 9.4 | 8.9 | 8.4 | 7.8 | 24 | | |
| 26 | 8.1 | 6.8 | 6.4 | 5.8 | 5.4 | 8.1 | 8.0 | 7.5 | 7.0 | 6.4 | 26 | | |
| 28 | 7.6 | 5.7 | 5.2 | 4.6 | 4.3 | 7.7 | 6.8 | 6.4 | 5.8 | 5.2 | 28 | | |
| 30 | 7.0 | 4.7 | 4.2 | 3.6 | 3.4 | 7.0 | 5.8 | 5.4 | 4.9 | 4.3 | 30 | | |
| 32 | 6.3 | 3.9 | 3.4 | 2.8 | 2.5 | 6.1 | 5.0 | 4.5 | 4.0 | 3.4 | 32 | | |
| 34 | 5.6 | 3.1 | 2.7 | 2.1 | 1.8 | 5.4 | 4.2 | 3.8 | 3.3 | 2.7 | 34 | | |
| 36 | 4.9 | 2.5 | 2.1 | 1.5 | 1.2 | 4.7 | 3.6 | 3.2 | 2.7 | 2.1 | 36 | | |
| 38 | 4.4 | 2.0 | 1.5 | 0.9 | 0.6 | 4.2 | 3.0 | 2.6 | 2.1 | 1.5 | 38 | | |
| 40 | 3.9 | 1.5 | 1.0 | | | 3.6 | 2.5 | 2.1 | 1.6 | 1.0 | 40 | | |
| 42 | 3.4 | 1.0 | 0.6 | | | 3.2 | 2.1 | 1.6 | 1.1 | 0.6 | 42 | | |
| 44 | 3.0 | 0.6 | | | | 2.8 | 1.7 | 1.2 | 0.7 | | 44 | | |
| 46 | 2.6 | | | | | 2.4 | 1.3 | 0.9 | | | 46 | | |
| 48 | 2.3 | | | | | 2.1 | 1.0 | | | | 48 | | |
| 50 | 2.0 | | | | | 1.8 | 0.7 | | | | 50 | | |
| 52 | | | | | | 1.5 | | | | | 52 | | |
| Code | 0012222 | 1221111 | 2211111 | 2221110 | 2222100 | 0022222 | 1112221 | 1122211 | 1222111 | 2221111 | Code | | |




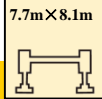
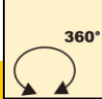


| | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 72.5 | 72.5 | 72.5 | 72.5 | 77.3 | 77.3 | 82.1 | 88 | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| 14 | 12.0 | 12.1 | 13.7 | 15.3 | 16.9 | | | | | | | | | 14 |
| 16 | 11.0 | 11.5 | 13.1 | 14.5 | 16.2 | 10.7 | 10.9 | 12.1 | 13.3 | | | | | 16 |
| 18 | 10.5 | 10.8 | 12.4 | 13.8 | 14.5 | 9.8 | 10.3 | 11.7 | 12.9 | 8.9 | 10.0 | | | 18 |
| 20 | 9.6 | 10.1 | 11.8 | 12.5 | 11.8 | 9.1 | 9.4 | 11.3 | 12.1 | 8.7 | 10.0 | | | 20 |
| 22 | 9.0 | 9.2 | 11.0 | 10.4 | 9.6 | 8.7 | 8.9 | 10.7 | 9.9 | 8.4 | 9.6 | 8.0 | 6.5 | 22 |
| 24 | 8.6 | 8.8 | 9.3 | 8.7 | 7.9 | 8.4 | 8.4 | 9.0 | 8.2 | 8.1 | 8.6 | 7.7 | 6.5 | 24 |
| 26 | 8.1 | 8.4 | 7.9 | 7.3 | 6.5 | 8.0 | 8.1 | 7.6 | 6.8 | 7.8 | 7.2 | 7.4 | 6.5 | 26 |
| 28 | 7.6 | 7.2 | 6.7 | 6.1 | 5.4 | 7.3 | 7.1 | 6.4 | 5.7 | 6.8 | 6.0 | 6.4 | 6.1 | 28 |
| 30 | 6.6 | 6.2 | 5.7 | 5.1 | 4.4 | 6.3 | 6.1 | 5.5 | 4.7 | 5.8 | 5.0 | 5.4 | 5.5 | 30 |
| 32 | 5.8 | 5.4 | 4.9 | 4.3 | 3.6 | 5.4 | 5.2 | 4.6 | 3.9 | 5.0 | 4.2 | 4.6 | 4.6 | 32 |
| 34 | 5.0 | 4.6 | 4.1 | 3.5 | 2.9 | 4.7 | 4.5 | 3.9 | 3.1 | 4.2 | 3.5 | 3.8 | 3.9 | 34 |
| 36 | 4.4 | 4.0 | 3.5 | 2.9 | 2.2 | 4.1 | 3.9 | 3.2 | 2.5 | 3.6 | 2.8 | 3.2 | 3.2 | 36 |
| 38 | 3.8 | 3.4 | 2.9 | 2.3 | 1.7 | 3.5 | 3.3 | 2.7 | 1.9 | 3.0 | 2.3 | 2.6 | 2.7 | 38 |
| 40 | 3.3 | 2.9 | 2.4 | 1.8 | 1.2 | 3.0 | 2.8 | 2.2 | 1.4 | 2.5 | 1.8 | 2.1 | 2.2 | 40 |
| 42 | 2.8 | 2.4 | 2.0 | 1.4 | 0.7 | 2.5 | 2.3 | 1.7 | 1.0 | 2.1 | 1.3 | 1.7 | 1.7 | 42 |
| 44 | 2.4 | 2.0 | 1.6 | 1.0 | | 2.1 | 1.9 | 1.3 | 0.6 | 1.7 | 0.9 | 1.3 | 1.3 | 44 |
| 46 | 2.0 | 1.7 | 1.2 | 0.6 | | 1.7 | 1.6 | 0.9 | | 1.3 | 0.6 | 0.9 | 0.9 | 46 |
| 48 | 1.7 | 1.3 | 0.9 | | | 1.4 | 1.2 | 0.6 | | 1.0 | | 0.6 | 0.6 | 48 |
| 50 | 1.4 | 1.0 | 0.6 | | | 1.1 | 0.9 | | | 0.7 | | | | 50 |
| 52 | 1.1 | 0.8 | | | | 0.8 | 0.6 | | | | | | | 52 |
| 54 | 0.9 | | | | | 0.6 | | | | | | | | 54 |
| 56 | 0.6 | | | | | | | | | | | | | 56 |
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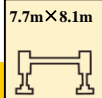

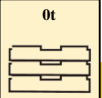

Lifting capacities

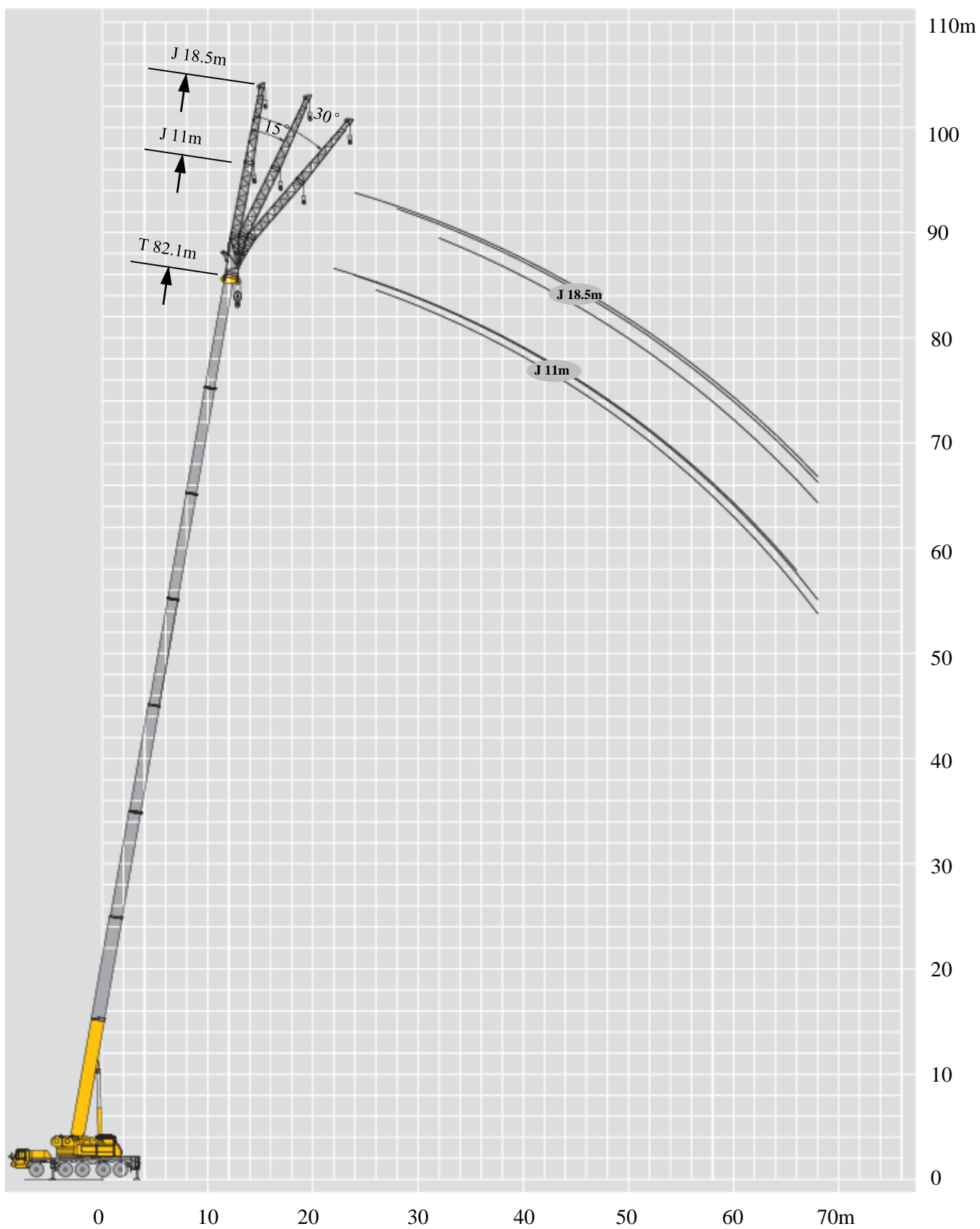
T 14.6~43.5m

| | 14.6-29.1m | | 7.7m×8.1m | | 360° | | 0t | | | | | | | | | | |
|------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|
| | 14.6 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 29.1 | 29.1 | 29.1 | 29.1 | | |
| 3 | 117.0 | 53.8 | 117.0 | 117.0 | 117.0 | 117.0 | | | | | | | | | | 3 | |
| 3.5 | 114.0 | 50.9 | 106.5 | 110.0 | 109.1 | 109.1 | | | | | | | | | | 3.5 | |
| 4 | 105.0 | 48.2 | 103.0 | 103.0 | 102.0 | 102.0 | 51.8 | 93.0 | 98.0 | 98.0 | 98.0 | | | | | 4 | |
| 4.5 | 96.0 | 46.0 | 96.0 | 95.0 | 95.0 | 94.0 | 49.6 | 92.0 | 92.0 | 91.0 | 90.0 | 52.1 | 72.9 | 88.0 | 88.0 | 4.5 | |
| 5 | 86.0 | 44.0 | 87.0 | 86.0 | 85.0 | 84.0 | 47.8 | 84.0 | 83.0 | 82.0 | 81.0 | 50.3 | 69.3 | 82.0 | 80.0 | 5 | |
| 6 | 56.1 | 40.2 | 59.7 | 58.7 | 57.1 | 55.3 | 44.2 | 60.6 | 58.9 | 56.3 | 53.1 | 46.8 | 62.3 | 60.4 | 58.0 | 6 | |
| 7 | 33.4 | 37.3 | 36.3 | 35.3 | 34.2 | 32.8 | 40.0 | 37.3 | 35.6 | 33.6 | 31.2 | 40.9 | 39.2 | 37.2 | 34.8 | 7 | |
| 8 | 22.6 | 26.3 | 25.1 | 24.2 | 23.3 | 22.2 | 28.1 | 25.9 | 24.5 | 22.8 | 20.9 | 28.8 | 27.4 | 25.8 | 23.9 | 8 | |
| 9 | 16.3 | 19.6 | 18.5 | 17.8 | 16.9 | 16.0 | 21.2 | 19.2 | 18.0 | 16.5 | 14.8 | 21.8 | 20.6 | 19.2 | 17.4 | 9 | |
| 10 | 12.2 | 15.2 | 14.2 | 13.5 | 12.8 | 11.9 | 16.7 | 14.9 | 13.7 | 12.4 | 10.8 | 17.2 | 16.1 | 14.8 | 13.2 | 10 | |
| 12 | | 9.8 | 8.9 | 8.3 | 7.7 | 6.9 | 11.1 | 9.5 | 8.5 | 7.3 | 6.0 | 11.6 | 10.6 | 9.4 | 8.1 | 12 | |
| 14 | | 6.6 | 5.8 | 5.2 | 4.6 | 3.9 | 7.8 | 6.3 | 5.4 | 4.3 | 3.1 | 8.2 | 7.3 | 6.3 | 5.0 | 14 | |
| 16 | | | | | | | 5.6 | 4.2 | 3.4 | 2.3 | 1.1 | 6.0 | 5.2 | 4.2 | 3.0 | 16 | |
| 18 | | | | | | | 4.0 | 2.7 | 1.9 | 0.9 | | 4.5 | 3.6 | 2.7 | 1.6 | 18 | |
| 20 | | | | | | | | | | | | 3.3 | 2.5 | 1.6 | | 20 | |
| 22 | | | | | | | | | | | | 2.4 | 1.6 | 0.7 | | 22 | |
| Code | 0000000 | 0000001 | 0000100 | 0001000 | 0010000 | 0100000 | 0000011 | 0001100 | 0011000 | 0110000 | 1100000 | 0000111 | 0001110 | 0011100 | 0111000 | Code | |


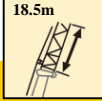
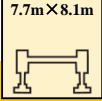
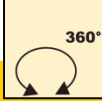

| | 29.1-43.5m | | 7.7m×8.1m | | 360° | | 0t | | | | | | | | | | |
|------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|
| | 29.1 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 43.5 | 43.5 | 43.5 | 43.5 | | |
| 4.5 | 87.0 | | | | | | | | | | | | | | | 4.5 | |
| 5 | 79.0 | | | | | | | | | | | | | | | 5 | |
| 6 | 54.4 | 48.7 | 61.9 | 59.6 | 56.1 | 52.9 | | | | | | | | | | 6 | |
| 7 | 32.1 | 40.9 | 38.8 | 36.3 | 33.4 | 31.1 | | | | | | | | | | 7 | |
| 8 | 21.6 | 28.9 | 27.1 | 25.1 | 22.7 | 20.7 | 28.4 | 26.3 | 24.5 | 23.9 | 21.8 | 18.1 | 27.6 | 25.7 | 25.2 | 8 | |
| 9 | 15.5 | 21.9 | 20.3 | 18.5 | 16.4 | 14.7 | 21.5 | 19.6 | 18.1 | 17.5 | 15.6 | 16.9 | 20.7 | 19.1 | 18.6 | 9 | |
| 10 | 11.4 | 17.3 | 15.9 | 14.2 | 12.3 | 10.8 | 16.9 | 15.2 | 13.8 | 13.3 | 11.6 | 15.9 | 16.2 | 14.7 | 14.3 | 10 | |
| 12 | 6.5 | 11.6 | 10.4 | 8.9 | 7.3 | 5.9 | 11.3 | 9.8 | 8.6 | 8.1 | 6.6 | 13.0 | 10.7 | 9.4 | 9.0 | 12 | |
| 14 | 3.6 | 8.3 | 7.1 | 5.8 | 4.3 | 3.0 | 8.0 | 6.6 | 5.5 | 5.0 | 3.7 | 9.6 | 7.4 | 6.2 | 5.9 | 14 | |
| 16 | 1.6 | 6.1 | 5.0 | 3.7 | 2.3 | 1.1 | 5.8 | 4.5 | 3.4 | 3.0 | 1.7 | 7.3 | 5.3 | 4.1 | 3.8 | 16 | |
| 18 | | 4.5 | 3.5 | 2.3 | 0.9 | | 4.2 | 3.0 | 2.0 | 1.6 | | 5.7 | 3.7 | 2.6 | 2.3 | 18 | |
| 20 | | 3.3 | 2.3 | 1.2 | | | 3.1 | 1.9 | 0.9 | | | 4.5 | 2.6 | 1.5 | 1.2 | 20 | |
| 22 | | 2.4 | 1.4 | | | | 2.2 | 1.0 | | | | 3.5 | 1.7 | 0.7 | | 22 | |
| 24 | | 1.7 | 0.7 | | | | 1.4 | | | | | 2.8 | 1.0 | | | 24 | |
| 26 | | 1.1 | | | | | 0.9 | | | | | 2.2 | | | | 26 | |
| 28 | | | | | | | | | | | | 1.6 | | | | 28 | |
| 30 | | | | | | | | | | | | 1.2 | | | | 30 | |
| 32 | | | | | | | | | | | | 0.9 | | | | 32 | |
| Code | 1110000 | 0001111 | 0011110 | 0111100 | 1111000 | 2110000 | 0011111 | 0111110 | 0211100 | 1111100 | 2111000 | 0000222 | 0111111 | 0211110 | 1111110 | Code | |

| |  |  |  |  | | | | | | | | |  |
|------|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|------|---|
| | 43.5 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 53.2 | 53.2 | 53.2 | 58 | 58 | | |
| 8 | 23.0 | | | | | | | | | | | 8 | |
| 9 | 16.7 | | | | | | | | | | | 9 | |
| 10 | 12.5 | 15.9 | 15.7 | 15.3 | 13.5 | 12.4 | | | | | | 10 | |
| 12 | 7.5 | 12.9 | 10.2 | 9.9 | 8.3 | 7.3 | 12.8 | 9.5 | 9.2 | | | 12 | |
| 14 | 4.5 | 9.5 | 7.0 | 6.7 | 5.2 | 4.3 | 9.4 | 6.3 | 6.0 | 9.1 | 6.3 | 14 | |
| 16 | 2.5 | 7.2 | 4.9 | 4.5 | 3.2 | 2.3 | 7.1 | 4.2 | 3.9 | 6.8 | 4.2 | 16 | |
| 18 | 1.0 | 5.6 | 3.3 | 3.0 | 1.8 | 0.9 | 5.5 | 2.7 | 2.5 | 5.2 | 2.7 | 18 | |
| 20 | | 4.4 | 2.2 | 1.9 | 0.7 | | 4.3 | 1.6 | 1.4 | 4.0 | 1.6 | 20 | |
| 22 | | 3.4 | 1.3 | 1.0 | | | 3.3 | 0.8 | | 3.1 | 0.7 | 22 | |
| 24 | | 2.7 | 0.6 | | | | 2.6 | | | 2.4 | | 24 | |
| 26 | | 2.1 | | | | | 2.0 | | | 1.7 | | 26 | |
| 28 | | 1.6 | | | | | 1.5 | | | 1.2 | | 28 | |
| 30 | | 1.1 | | | | | 1.0 | | | 0.8 | | 30 | |
| 32 | | 0.8 | | | | | 0.7 | | | | | 32 | |
| Code | 2111100 | 0001222 | 0211111 | 1111111 | 2111110 | 2211100 | 0002222 | 1211111 | 2111111 | 0012222 | 1221111 | Code | |

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|------|--|--|--|--|---------|---------|---------|---------|---------|---------|---------|------|---|
| | 62.8 | 62.8 | 62.8 | 62.8 | 67.7 | 67.7 | 67.7 | 67.7 | 72.5 | 72.5 | 72.5 | | |
| 14 | 8.8 | 7.5 | 7.0 | 6.5 | 8.4 | 8.0 | 7.4 | 6.8 | | | | 14 | |
| 16 | 6.6 | 5.4 | 4.9 | 4.4 | 6.2 | 5.8 | 5.3 | 4.6 | 5.9 | 5.7 | 5.0 | 16 | |
| 18 | 5.0 | 3.8 | 3.4 | 2.9 | 4.6 | 4.2 | 3.7 | 3.1 | 4.3 | 4.1 | 3.5 | 18 | |
| 20 | 3.8 | 2.7 | 2.2 | 1.7 | 3.5 | 3.1 | 2.6 | 2.0 | 3.1 | 2.9 | 2.3 | 20 | |
| 22 | 2.9 | 1.8 | 1.4 | 0.9 | 2.5 | 2.2 | 1.7 | 1.1 | 2.2 | 2.0 | 1.4 | 22 | |
| 24 | 2.2 | 1.1 | 0.7 | | 1.8 | 1.4 | 1.0 | | 1.5 | 1.3 | 0.7 | 24 | |
| 26 | 1.5 | | | | 1.2 | 0.9 | | | 0.9 | 0.7 | | 26 | |
| 28 | 1.0 | | | | 0.7 | | | | | | | 28 | |
| 30 | 0.6 | | | | | | | | | | | 30 | |
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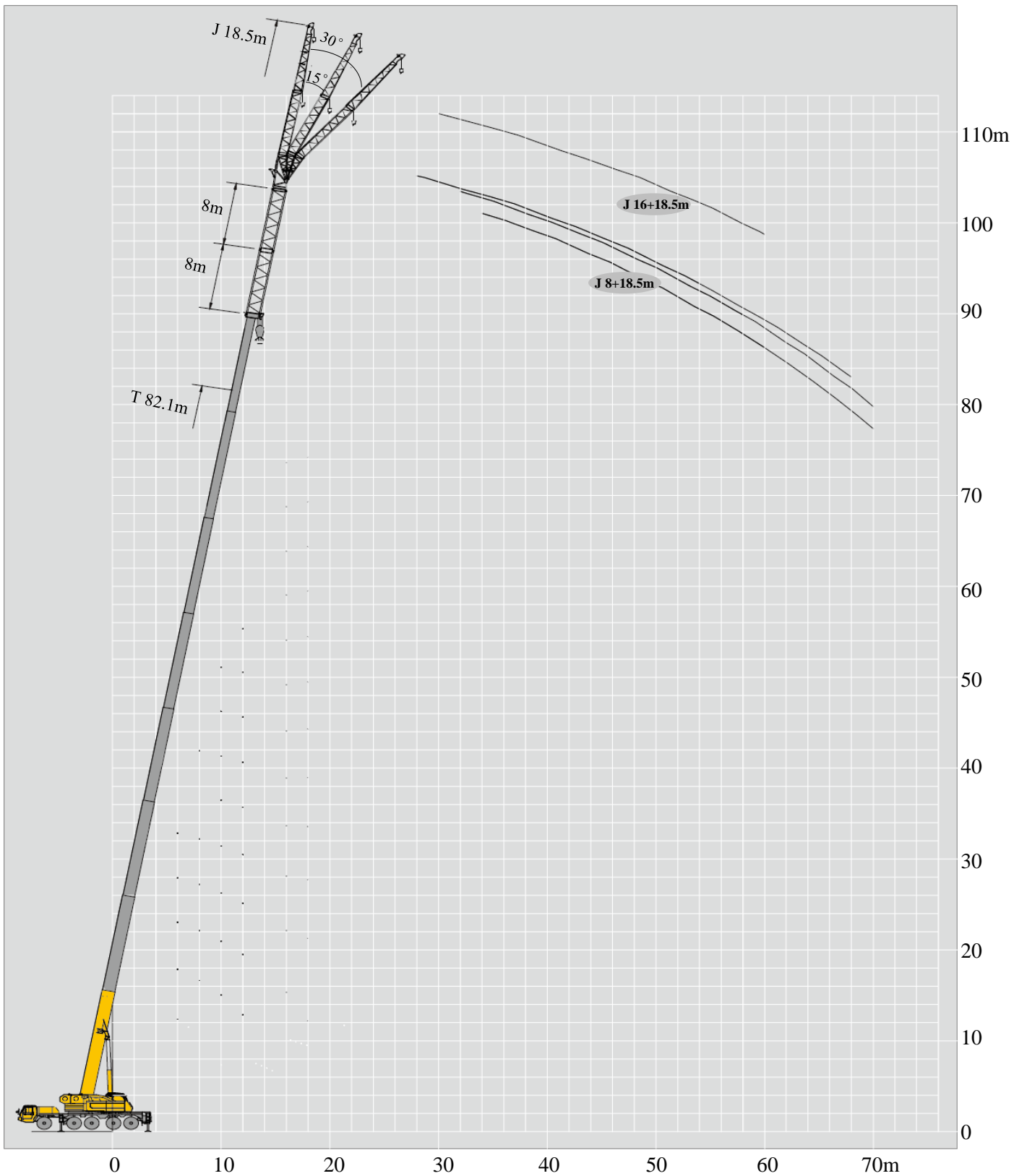




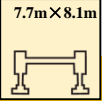


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|------|---------|-----|-----|---------|-----|-----|---------|-----|-----|------|
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| | 20 | 6.6 | | | | | | | | |
| 22 | 6.5 | 5.6 | | 5.8 | | | 4.8 | | | 22 |
| 24 | 6.5 | 5.5 | | 5.7 | 4.9 | | 4.8 | | | 24 |
| 26 | 6.4 | 5.4 | 3.9 | 5.6 | 4.9 | | 4.8 | 4.5 | | 26 |
| 28 | 6.4 | 5.3 | 3.8 | 5.6 | 4.8 | 4.1 | 4.8 | 4.4 | 3.8 | 28 |
| 30 | 6.3 | 5.2 | 3.6 | 5.6 | 4.7 | 4.0 | 4.7 | 4.4 | 3.8 | 30 |
| 32 | 6.3 | 5.0 | 3.6 | 5.6 | 4.7 | 4.0 | 4.7 | 4.3 | 3.8 | 32 |
| 34 | 6.0 | 4.9 | 3.5 | 5.6 | 4.6 | 4.0 | 4.7 | 4.3 | 3.7 | 34 |
| 36 | 5.6 | 4.6 | 3.4 | 5.5 | 4.5 | 3.9 | 4.6 | 4.3 | 3.6 | 36 |
| 38 | 5.2 | 4.4 | 3.3 | 5.2 | 4.4 | 3.9 | 4.6 | 4.2 | 3.6 | 38 |
| 40 | 4.8 | 4.3 | 3.3 | 4.8 | 4.4 | 3.8 | 4.4 | 4.2 | 3.6 | 40 |
| 42 | 4.3 | 4.2 | 3.1 | 4.4 | 4.3 | 3.8 | 4.1 | 4.1 | 3.6 | 42 |
| 44 | 4.0 | 4.0 | 3.1 | 4.2 | 4.2 | 3.8 | 3.8 | 3.8 | 3.6 | 44 |
| 46 | 3.6 | 3.6 | 3.1 | 3.8 | 3.9 | 3.8 | 3.6 | 3.5 | 3.6 | 46 |
| 48 | 3.3 | 3.3 | 3.0 | 3.5 | 3.5 | 3.6 | 3.3 | 3.3 | 3.4 | 48 |
| 50 | 2.8 | 3.0 | 3.0 | 3.2 | 3.3 | 3.4 | 3.0 | 3.1 | 3.1 | 50 |
| 52 | 2.6 | 2.7 | 2.8 | 2.8 | 3.1 | 3.2 | 2.9 | 2.9 | 3.0 | 52 |
| 54 | 2.5 | 2.5 | 2.7 | 2.6 | 2.8 | 3.0 | 2.6 | 2.7 | 2.7 | 54 |
| 56 | 2.0 | 2.3 | 2.4 | 2.0 | 2.2 | 2.5 | 2.2 | 2.5 | 2.6 | 56 |
| 58 | 2.0 | 2.2 | 2.2 | 1.8 | 2.0 | 2.0 | 2.0 | 2.2 | 2.5 | 58 |
| 60 | 1.7 | 2.0 | 1.9 | 1.5 | 1.7 | 1.7 | 1.7 | 2.0 | 2.1 | 60 |
| 62 | 1.5 | 1.7 | 1.7 | 1.4 | 1.5 | 1.6 | 1.4 | 1.6 | 1.8 | 62 |
| 64 | 1.2 | 1.4 | 1.5 | 1.2 | 1.4 | 1.5 | 1.3 | 1.3 | 1.5 | 64 |
| 66 | | 1.1 | 1.2 | 1.1 | 1.2 | 1.4 | 1.2 | 1.1 | 1.2 | 66 |
| 68 | | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | 68 |
| 70 | | | 0.6 | | 0.7 | 0.8 | 0.9 | 0.8 | 1.0 | 70 |
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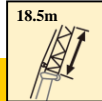
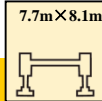


| |      | | | | | | | | | |
|------|---|-----|-----|---------|-----|-----|---------|-----|-----|------|
| | 72.5 | | | 77.3 | | | 82.1 | | | |
| | 0° | 15° | 30° | 0° | 15° | 30° | 0° | 15° | 30° | |
| 22 | 3.3 | | | 2.9 | | | | | | 22 |
| 24 | 3.3 | 2.7 | | 2.9 | | | 2.6 | | | 24 |
| 26 | 3.3 | 2.6 | | 2.9 | 2.5 | | 2.6 | | | 26 |
| 28 | 3.3 | 2.4 | 1.6 | 2.9 | 2.5 | | 2.6 | | | 28 |
| 30 | 3.3 | 2.3 | 1.5 | 2.9 | 2.4 | 1.6 | 2.6 | 2.3 | | 30 |
| 32 | 3.2 | 2.2 | 1.5 | 2.9 | 2.3 | 1.6 | 2.6 | 2.3 | 1.5 | 32 |
| 34 | 3.2 | 2.1 | 1.5 | 2.9 | 2.2 | 1.5 | 2.6 | 2.3 | 1.5 | 34 |
| 36 | 3.1 | 2.0 | 1.4 | 2.9 | 2.1 | 1.4 | 2.6 | 2.1 | 1.4 | 36 |
| 38 | 3.0 | 1.9 | 1.4 | 2.9 | 1.9 | 1.4 | 2.6 | 2.0 | 1.4 | 38 |
| 40 | 3.0 | 1.9 | 1.3 | 2.9 | 1.9 | 1.4 | 2.6 | 1.9 | 1.4 | 40 |
| 42 | 2.9 | 1.8 | 1.3 | 2.9 | 1.9 | 1.3 | 2.6 | 1.9 | 1.3 | 42 |
| 44 | 2.8 | 1.8 | 1.3 | 2.9 | 1.9 | 1.3 | 2.6 | 1.9 | 1.3 | 44 |
| 46 | 2.7 | 1.7 | 1.3 | 2.8 | 1.7 | 1.3 | 2.6 | 1.8 | 1.3 | 46 |
| 48 | 2.6 | 1.7 | 1.2 | 2.7 | 1.6 | 1.3 | 2.6 | 1.8 | 1.3 | 48 |
| 50 | 2.4 | 1.7 | 1.1 | 2.6 | 1.6 | 1.3 | 2.6 | 1.7 | 1.3 | 50 |
| 52 | 2.3 | 1.5 | 1.1 | 2.4 | 1.6 | 1.2 | 2.5 | 1.6 | 1.1 | 52 |
| 54 | 2.2 | 1.5 | 1.1 | 2.3 | 1.5 | 1.2 | 2.5 | 1.6 | 1.1 | 54 |
| 56 | 2.1 | 1.4 | 1.1 | 2.3 | 1.5 | 1.2 | 2.2 | 1.5 | 1.1 | 56 |
| 58 | 2.1 | 1.4 | 1.1 | 2.0 | 1.5 | 1.2 | 2.1 | 1.5 | 1.1 | 58 |
| 60 | 1.9 | 1.4 | 1.1 | 1.8 | 1.4 | 1.2 | 1.9 | 1.5 | 1.1 | 60 |
| 62 | 1.7 | 1.4 | 1.1 | 1.6 | 1.4 | 1.1 | 1.7 | 1.5 | 1.0 | 62 |
| 64 | 1.5 | 1.3 | 1.1 | 1.4 | 1.4 | 1.1 | 1.5 | 1.4 | 1.0 | 64 |
| 66 | 1.3 | 1.3 | 1.0 | 1.1 | 1.2 | 1.1 | | 1.2 | 1.0 | 66 |
| 68 | 1.1 | 1.1 | 1.0 | | 1.0 | 1.0 | | 1.0 | 1.0 | 68 |
| 70 | 0.8 | 1.1 | 1.0 | | 0.8 | 0.9 | | | 0.9 | 70 |
| 72 | | | 1.0 | | | 0.8 | | | | 72 |
| Code | 2222211 | | | 2222221 | | | 2222222 | | | Code |

| | 72.5 | | | 77.3 | | | 82.1 | | | |
|------|---------|-----|-----|---------|-----|-----|---------|-----|-----|------|
| | 0° | 15° | 30° | 0° | 15° | 30° | 0° | 15° | 30° | |
| 20 | 6.3 | | | | | | | | | 20 |
| 22 | 6.2 | 5.0 | | 5.5 | | | 4.7 | | | 22 |
| 24 | 6.1 | 4.9 | | 5.5 | 4.4 | | 4.7 | | | 24 |
| 26 | 6.1 | 4.8 | 3.9 | 5.4 | 4.4 | | 4.7 | 4.0 | | 26 |
| 28 | 6.0 | 4.7 | 3.8 | 5.3 | 4.3 | 3.7 | 4.7 | 4.0 | 3.4 | 28 |
| 30 | 5.9 | 4.7 | 3.6 | 5.2 | 4.3 | 3.6 | 4.7 | 4.0 | 3.4 | 30 |
| 32 | 5.8 | 4.6 | 3.6 | 5.1 | 4.2 | 3.6 | 4.7 | 3.9 | 3.4 | 32 |
| 34 | 5.6 | 4.5 | 3.5 | 5.1 | 4.2 | 3.6 | 4.7 | 3.9 | 3.3 | 34 |
| 36 | 5.5 | 4.4 | 3.4 | 5.0 | 4.1 | 3.5 | 4.6 | 3.8 | 3.3 | 36 |
| 38 | 5.2 | 4.3 | 3.3 | 4.6 | 4.0 | 3.5 | 4.3 | 3.8 | 3.3 | 38 |
| 40 | 4.8 | 4.1 | 3.3 | 4.3 | 4.0 | 3.4 | 3.9 | 3.8 | 3.3 | 40 |
| 42 | 4.2 | 4.1 | 3.1 | 4.0 | 3.9 | 3.4 | 3.7 | 3.7 | 3.3 | 42 |
| 44 | 3.6 | 4.0 | 3.1 | 3.7 | 3.8 | 3.4 | 3.4 | 3.4 | 3.3 | 44 |
| 46 | 3.0 | 3.4 | 3.1 | 3.3 | 3.5 | 3.4 | 3.2 | 3.2 | 3.2 | 46 |
| 48 | 2.6 | 2.9 | 3.0 | 2.8 | 3.1 | 3.3 | 3.0 | 2.9 | 3.0 | 48 |
| 50 | 2.1 | 2.4 | 2.7 | 2.4 | 2.7 | 2.9 | 2.7 | 2.8 | 2.8 | 50 |
| 52 | 1.7 | 2.0 | 2.2 | 2.0 | 2.2 | 2.5 | 2.2 | 2.5 | 2.7 | 52 |
| 54 | 1.3 | 1.6 | 1.8 | 1.6 | 1.9 | 2.1 | 1.9 | 2.1 | 2.4 | 54 |
| 56 | 1.0 | 1.2 | 1.4 | 1.2 | 1.5 | 1.7 | 1.5 | 1.8 | 2.0 | 56 |
| 58 | 0.7 | 0.9 | 1.1 | 0.9 | 1.2 | 1.3 | 1.2 | 1.4 | 1.6 | 58 |
| 60 | | 0.6 | 0.7 | 0.6 | 0.8 | 1.0 | 0.9 | 1.1 | 1.3 | 60 |
| 62 | | | | | 0.6 | 0.7 | 0.6 | 0.8 | 1.0 | 62 |
| 64 | | | | | | | | 0.6 | 0.7 | 64 |
| Code | 2222211 | | | 2222221 | | | 2222222 | | | Code |

| | 72.5 | | | 77.3 | | | 82.1 | | | |
|------|---------|-----|-----|---------|-----|-----|---------|-----|-----|------|
| | 0° | 15° | 30° | 0° | 15° | 30° | 0° | 15° | 30° | |
| 22 | 3.0 | | | 2.7 | | | | | | 22 |
| 24 | 3.0 | 2.4 | | 2.7 | | | 2.5 | | | 24 |
| 26 | 3.0 | 2.3 | | 2.7 | 2.3 | | 2.5 | | | 26 |
| 28 | 3.0 | 2.2 | 1.5 | 2.7 | 2.3 | | 2.5 | | | 28 |
| 30 | 3.0 | 2.1 | 1.4 | 2.7 | 2.2 | 1.4 | 2.5 | 2.1 | | 30 |
| 32 | 3.0 | 2.0 | 1.4 | 2.7 | 2.1 | 1.4 | 2.5 | 2.1 | 1.4 | 32 |
| 34 | 3.0 | 1.9 | 1.4 | 2.7 | 2.0 | 1.3 | 2.5 | 2.0 | 1.4 | 34 |
| 36 | 2.9 | 1.8 | 1.3 | 2.7 | 1.9 | 1.3 | 2.5 | 1.9 | 1.3 | 36 |
| 38 | 2.8 | 1.7 | 1.2 | 2.7 | 1.7 | 1.3 | 2.5 | 1.8 | 1.3 | 38 |
| 40 | 2.7 | 1.7 | 1.2 | 2.6 | 1.7 | 1.2 | 2.5 | 1.7 | 1.3 | 40 |
| 42 | 2.6 | 1.6 | 1.2 | 2.6 | 1.7 | 1.2 | 2.5 | 1.7 | 1.2 | 42 |
| 44 | 2.5 | 1.6 | 1.2 | 2.6 | 1.7 | 1.2 | 2.4 | 1.7 | 1.2 | 44 |
| 46 | 2.4 | 1.5 | 1.1 | 2.5 | 1.6 | 1.2 | 2.4 | 1.6 | 1.2 | 46 |
| 48 | 2.3 | 1.5 | 1.1 | 2.4 | 1.6 | 1.1 | 2.4 | 1.6 | 1.1 | 48 |
| 50 | 2.2 | 1.5 | 1.0 | 2.3 | 1.6 | 1.1 | 2.3 | 1.6 | 1.1 | 50 |
| 52 | 2.1 | 1.4 | 1.0 | 2.2 | 1.5 | 1.1 | 2.3 | 1.5 | 1.1 | 52 |
| 54 | 1.8 | 1.4 | 1.0 | 2.0 | 1.4 | 1.1 | 2.2 | 1.5 | 1.1 | 54 |
| 56 | 1.5 | 1.3 | 1.0 | 1.6 | 1.4 | 1.1 | 1.9 | 1.5 | 1.1 | 56 |
| 58 | 1.1 | 1.3 | 1.0 | 1.3 | 1.4 | 1.1 | 1.6 | 1.5 | 1.1 | 58 |
| 60 | 0.8 | 1.2 | 1.0 | 1.0 | 1.3 | 1.1 | 1.3 | 1.4 | 1.1 | 60 |
| 62 | 0.6 | 0.9 | 1.0 | 0.7 | 1.1 | 1.0 | 1.0 | 1.3 | 1.0 | 62 |
| 64 | | 0.6 | 0.9 | | 0.8 | 1.0 | 0.7 | 1.1 | 1.0 | 64 |
| 66 | | | 0.6 | | 0.6 | 0.8 | | 0.8 | 1.0 | 66 |
| 68 | | | | | | | | 0.6 | 0.8 | 68 |
| Code | 2222211 | | | 2222221 | | | 2222222 | | | Code |


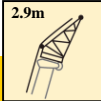
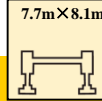





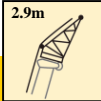
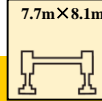


|      | | | | | | | | | | |
|---|---------|-----|--------|---------|-----|--------|---------|-----|-----|------|
| 72.5+8 | | | 77.3+8 | | | 82.1+8 | | | | |
| 18.5 m | | | | | | | | | | |
| | 0° | 15° | 30° | 0° | 15° | 30° | 0° | 15° | 30° | |
| 24 | 2.9 | | | 2.6 | | | | | | 24 |
| 26 | 2.9 | | | 2.6 | | | | | | 26 |
| 28 | 2.9 | 2.4 | | 2.6 | | | 2.3 | | | 28 |
| 30 | 2.8 | 2.4 | 1.7 | 2.6 | 2.3 | | 2.3 | | | 30 |
| 32 | 2.8 | 2.3 | 1.6 | 2.6 | 2.3 | | 2.3 | 2.1 | | 32 |
| 34 | 2.8 | 2.3 | 1.5 | 2.6 | 2.3 | 1.6 | 2.3 | 2.1 | 1.5 | 34 |
| 36 | 2.8 | 2.2 | 1.5 | 2.6 | 2.2 | 1.6 | 2.3 | 2.0 | 1.5 | 36 |
| 38 | 2.8 | 2.1 | 1.4 | 2.6 | 2.1 | 1.5 | 2.3 | 2.0 | 1.4 | 38 |
| 40 | 2.8 | 2.0 | 1.4 | 2.6 | 2.1 | 1.4 | 2.3 | 2.0 | 1.4 | 40 |
| 42 | 2.8 | 1.9 | 1.4 | 2.6 | 2.0 | 1.4 | 2.3 | 2.0 | 1.4 | 42 |
| 44 | 2.8 | 1.8 | 1.3 | 2.6 | 1.9 | 1.4 | 2.3 | 1.9 | 1.4 | 44 |
| 46 | 2.8 | 1.8 | 1.3 | 2.5 | 1.9 | 1.3 | 2.3 | 1.9 | 1.3 | 46 |
| 48 | 2.7 | 1.8 | 1.3 | 2.5 | 1.8 | 1.3 | 2.3 | 1.9 | 1.3 | 48 |
| 50 | 2.6 | 1.7 | 1.3 | 2.4 | 1.8 | 1.3 | 2.3 | 1.8 | 1.3 | 50 |
| 52 | 2.3 | 1.7 | 1.3 | 2.4 | 1.8 | 1.3 | 2.2 | 1.8 | 1.3 | 52 |
| 54 | 2.1 | 1.7 | 1.2 | 2.2 | 1.7 | 1.3 | 2.0 | 1.8 | 1.3 | 54 |
| 56 | 1.8 | 1.6 | 1.1 | 2.0 | 1.7 | 1.3 | 1.8 | 1.7 | 1.3 | 56 |
| 58 | 1.7 | 1.6 | 1.1 | 1.9 | 1.7 | 1.2 | 1.6 | 1.7 | 1.3 | 58 |
| 60 | 1.5 | 1.6 | 1.1 | 1.6 | 1.6 | 1.1 | 1.5 | 1.6 | 1.3 | 60 |
| 62 | 1.3 | 1.5 | 1.1 | 1.3 | 1.5 | 1.1 | 1.3 | 1.5 | 1.3 | 62 |
| 64 | 1.2 | 1.4 | 1.1 | 1.0 | 1.4 | 1.1 | 1.2 | 1.3 | 1.3 | 64 |
| 66 | 1.1 | 1.2 | 1.0 | 0.8 | 1.1 | 1.1 | 1.0 | 1.2 | 1.3 | 66 |
| 68 | | | 1.0 | | 0.9 | 1.0 | 0.7 | 1.0 | 1.1 | 68 |
| 70 | | | 0.9 | | | 0.8 | | 0.7 | 1.0 | 70 |
| Code | 2222211 | | | 2222221 | | | 2222222 | | | Code |

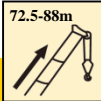
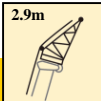
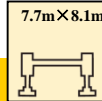

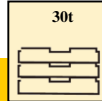
|      | | | | | | | | | | |
|---|---------|-----|---------|---------|-----|---------|---------|--|--|------|
| 72.5+16 | | | 77.3+16 | | | 82.1+16 | | | | |
| 18.5 m | | | | | | | | | | |
| | 0° | 15° | 30° | 0° | 0° | | | | | |
| 28 | 2.6 | | | | 2.0 | | | | | 28 |
| 30 | 2.6 | 2.3 | | | 2.0 | | 1.6 | | | 30 |
| 32 | 2.6 | 2.3 | | | 2.0 | | 1.5 | | | 32 |
| 34 | 2.6 | 2.2 | 1.6 | | 2.0 | | 1.5 | | | 34 |
| 36 | 2.6 | 2.2 | 1.5 | | 1.9 | | 1.5 | | | 36 |
| 38 | 2.6 | 2.1 | 1.5 | | 1.9 | | 1.5 | | | 38 |
| 40 | 2.6 | 2.0 | 1.5 | | 1.9 | | 1.5 | | | 40 |
| 42 | 2.6 | 2.0 | 1.4 | | 1.8 | | 1.5 | | | 42 |
| 44 | 2.6 | 1.9 | 1.4 | | 1.8 | | 1.5 | | | 44 |
| 46 | 2.6 | 1.8 | 1.4 | | 1.8 | | 1.4 | | | 46 |
| 48 | 2.3 | 1.7 | 1.3 | | 1.7 | | 1.3 | | | 48 |
| 50 | 2.1 | 1.7 | 1.3 | | 1.7 | | 1.3 | | | 50 |
| 52 | 1.9 | 1.7 | 1.3 | | 1.6 | | 1.3 | | | 52 |
| 54 | 1.5 | 1.7 | 1.3 | | 1.5 | | 1.3 | | | 54 |
| 56 | 1.3 | 1.6 | 1.3 | | 1.4 | | 1.2 | | | 56 |
| 58 | 1.1 | 1.5 | 1.3 | | 1.3 | | 1.2 | | | 58 |
| 60 | 0.9 | 1.3 | 1.3 | | 1.2 | | 1.1 | | | 60 |
| 62 | 0.7 | 1.2 | 1.1 | | 1.1 | | 1.1 | | | 62 |
| 64 | | 1.1 | 1.0 | | 1.0 | | | | | 64 |
| Code | 2222211 | | | 2222221 | | | 2222222 | | | Code |

| | | 72.5-82.1m | | | 77.3+8 | | | 82.1+8 | | | | |
|------|----|------------|-----|-----|---------|-----|-----|---------|-----|-----|------|----|
| | | 18.5 m | | | | | | | | | | |
| | | 0° | 15° | 30° | 0° | 15° | 30° | 0° | 15° | 30° | | |
| 24 | 24 | 2.7 | | | 2.5 | | | | | | | 24 |
| 26 | 26 | 2.7 | | | 2.5 | | | | | | | 26 |
| 28 | 28 | 2.7 | 2.3 | | 2.5 | | | 2.2 | | | | 28 |
| 30 | 30 | 2.7 | 2.2 | 1.5 | 2.5 | 2.1 | | 2.2 | | | | 30 |
| 32 | 32 | 2.7 | 2.1 | 1.4 | 2.5 | 2.1 | | 2.2 | 1.9 | | | 32 |
| 34 | 34 | 2.7 | 2.1 | 1.4 | 2.5 | 2.1 | 1.4 | 2.2 | 1.9 | 1.4 | | 34 |
| 36 | 36 | 2.7 | 2.0 | 1.4 | 2.5 | 2.0 | 1.4 | 2.2 | 1.8 | 1.4 | | 36 |
| 38 | 38 | 2.7 | 1.9 | 1.3 | 2.5 | 1.9 | 1.3 | 2.2 | 1.8 | 1.3 | | 38 |
| 40 | 40 | 2.6 | 1.8 | 1.3 | 2.5 | 1.9 | 1.3 | 2.2 | 1.8 | 1.3 | | 40 |
| 42 | 42 | 2.6 | 1.7 | 1.3 | 2.4 | 1.8 | 1.3 | 2.2 | 1.8 | 1.3 | | 42 |
| 44 | 44 | 2.6 | 1.7 | 1.2 | 2.4 | 1.7 | 1.3 | 2.2 | 1.7 | 1.2 | | 44 |
| 46 | 46 | 2.5 | 1.6 | 1.2 | 2.4 | 1.7 | 1.2 | 2.2 | 1.7 | 1.2 | | 46 |
| 48 | 48 | 2.5 | 1.6 | 1.2 | 2.4 | 1.6 | 1.2 | 2.2 | 1.7 | 1.2 | | 48 |
| 50 | 50 | 2.4 | 1.5 | 1.2 | 2.3 | 1.6 | 1.2 | 2.2 | 1.7 | 1.2 | | 50 |
| 52 | 52 | 2.2 | 1.5 | 1.2 | 2.2 | 1.6 | 1.2 | 2.0 | 1.6 | 1.2 | | 52 |
| 54 | 54 | 2.0 | 1.5 | 1.1 | 2.0 | 1.5 | 1.2 | 1.8 | 1.6 | 1.2 | | 54 |
| 56 | 56 | 1.6 | 1.4 | 1.1 | 1.8 | 1.5 | 1.1 | 1.7 | 1.6 | 1.2 | | 56 |
| 58 | 58 | 1.3 | 1.4 | 1.1 | 1.5 | 1.5 | 1.1 | 1.5 | 1.6 | 1.2 | | 58 |
| 60 | 60 | 1.0 | 1.4 | 1.0 | 1.2 | 1.4 | 1.1 | 1.3 | 1.4 | 1.1 | | 60 |
| 62 | 62 | 0.7 | 1.1 | 1.0 | 0.9 | 1.3 | 1.1 | 1.1 | 1.3 | 1.1 | | 62 |
| 64 | 64 | | 0.8 | 1.0 | 0.6 | 1.0 | 1.1 | 0.8 | 1.2 | 1.1 | | 64 |
| 66 | 66 | | 0.6 | 0.8 | | 0.7 | 1.0 | 0.6 | 0.9 | 1.1 | | 66 |
| 68 | 68 | | | 0.6 | | | 0.7 | | 0.7 | 0.9 | | 68 |
| 70 | 70 | | | | | | | | | 0.7 | | 70 |
| Code | | 2222211 | | | 2222221 | | | 2222222 | | | Code | |

| | | 72.5-82.1m | | | 77.3+16 | | | 82.1+16 | | | |
|------|----|------------|-----|-----|---------|-----|---------|---------|------|--|----|
| | | 18.5 m | | | | | | | | | |
| | | 0° | 15° | 30° | 0° | 0° | | | | | |
| 28 | 28 | 2.4 | | | | 2.0 | | | | | 28 |
| 30 | 30 | 2.4 | 2.1 | | | 2.0 | | 1.6 | | | 30 |
| 32 | 32 | 2.4 | 2.1 | | | 2.0 | | 1.5 | | | 32 |
| 34 | 34 | 2.4 | 2.1 | | 1.4 | 2.0 | | 1.5 | | | 34 |
| 36 | 36 | 2.4 | 2.0 | | 1.4 | 1.9 | | 1.5 | | | 36 |
| 38 | 38 | 2.4 | 2.0 | | 1.4 | 1.9 | | 1.5 | | | 38 |
| 40 | 40 | 2.4 | 1.9 | | 1.4 | 1.9 | | 1.5 | | | 40 |
| 42 | 42 | 2.4 | 1.8 | | 1.3 | 1.8 | | 1.5 | | | 42 |
| 44 | 44 | 2.4 | 1.8 | | 1.3 | 1.8 | | 1.5 | | | 44 |
| 46 | 46 | 2.4 | 1.7 | | 1.3 | 1.8 | | 1.4 | | | 46 |
| 48 | 48 | 2.3 | 1.7 | | 1.2 | 1.7 | | 1.3 | | | 48 |
| 50 | 50 | 2.1 | 1.7 | | 1.2 | 1.7 | | 1.3 | | | 50 |
| 52 | 52 | 1.9 | 1.7 | | 1.2 | 1.6 | | 1.3 | | | 52 |
| 54 | 54 | 1.5 | 1.7 | | 1.2 | 1.5 | | 1.3 | | | 54 |
| 56 | 56 | 1.3 | 1.6 | | 1.1 | 1.4 | | 1.2 | | | 56 |
| 58 | 58 | 1.1 | 1.5 | | 1.1 | 1.3 | | 1.1 | | | 58 |
| 60 | 60 | 0.9 | 1.3 | | 1.1 | 1.2 | | 1.0 | | | 60 |
| 62 | 62 | 0.7 | 1.2 | | 1.1 | 0.9 | | | | | 62 |
| 64 | 64 | | 1.0 | | 1.0 | 0.7 | | | | | 64 |
| Code | | 2222211 | | | 2222221 | | 2222222 | | Code | | |












| |  72.5-88m |  2.9m |  7.7m×8.1m |  360° |  60t | |
|------|--|--|---|--|---|------|
| | 72.5 | 77.3 | 82.1 | 2.9m | | 88 |
| 18 | 10.0 | | | | | 18 |
| 20 | 10.0 | 7.8 | 6.1 | | | 20 |
| 22 | 9.9 | 7.7 | 6.0 | | 4.2 | 22 |
| 24 | 9.9 | 7.6 | 5.8 | | 4.0 | 24 |
| 26 | 9.2 | 7.1 | 5.5 | | 3.9 | 26 |
| 28 | 8.5 | 6.6 | 5.2 | | 3.6 | 28 |
| 30 | 7.9 | 6.1 | 4.8 | | 3.5 | 30 |
| 32 | 7.3 | 5.5 | 4.4 | | 3.3 | 32 |
| 34 | 6.8 | 5.3 | 4.1 | | 3.0 | 34 |
| 36 | 6.2 | 4.8 | 3.8 | | 2.8 | 36 |
| 38 | 5.8 | 4.4 | 3.5 | | 2.5 | 38 |
| 40 | 5.4 | 4.1 | 3.2 | | 2.4 | 40 |
| 42 | 5.0 | 3.9 | 3.0 | | 2.1 | 42 |
| 44 | 4.6 | 3.6 | 2.7 | | 1.9 | 44 |
| 46 | 4.2 | 3.3 | 2.5 | | 1.8 | 46 |
| 48 | 3.9 | 3.0 | 2.2 | | 1.6 | 48 |
| 50 | 3.7 | 2.7 | 2.1 | | 1.5 | 50 |
| 52 | 3.3 | 2.5 | 1.9 | | 1.3 | 52 |
| 54 | 2.8 | 2.3 | 1.8 | | 1.1 | 54 |
| 56 | 2.4 | 2.1 | 1.6 | | | 56 |
| 58 | 2.0 | 2.0 | 1.4 | | | 58 |
| 60 | 1.6 | 1.8 | 1.3 | | | 60 |
| 62 | 1.2 | 1.6 | 1.1 | | | 62 |
| 64 | 0.9 | 1.3 | 1.0 | | | 64 |
| 66 | | 0.9 | | | | 66 |
| 68 | | 0.7 | | | | 68 |
| Code | 2222211 | 2222221 | 2222222 | 3333333 | | Code |

| |  72.5-88m |  2.9m |  7.7m×8.1m |  360° |  48t | |
|------|---|---|--|---|--|------|
| | 72.5 | 77.3 | 82.1 | 2.9m | | 88 |
| 18 | 10.0 | | | | | 18 |
| 20 | 10.0 | 7.8 | 6.1 | | | 20 |
| 22 | 9.9 | 7.7 | 6.0 | | 4.2 | 22 |
| 24 | 9.9 | 7.6 | 5.8 | | 4.0 | 24 |
| 26 | 9.2 | 7.1 | 5.5 | | 3.9 | 26 |
| 28 | 8.5 | 6.6 | 5.2 | | 3.6 | 28 |
| 30 | 7.9 | 6.1 | 4.8 | | 3.5 | 30 |
| 32 | 7.3 | 5.5 | 4.4 | | 3.3 | 32 |
| 34 | 6.8 | 5.3 | 4.1 | | 3.0 | 34 |
| 36 | 6.1 | 4.8 | 3.8 | | 2.8 | 36 |
| 38 | 5.3 | 4.4 | 3.5 | | 2.5 | 38 |
| 40 | 4.6 | 4.1 | 3.2 | | 2.4 | 40 |
| 42 | 3.9 | 3.9 | 3.0 | | 2.1 | 42 |
| 44 | 3.3 | 3.6 | 2.7 | | 1.9 | 44 |
| 46 | 2.8 | 3.1 | 2.5 | | 1.8 | 46 |
| 48 | 2.3 | 2.6 | 2.2 | | 1.6 | 48 |
| 50 | 1.9 | 2.2 | 2.1 | | 1.5 | 50 |
| 52 | 1.5 | 1.8 | 1.9 | | 1.3 | 52 |
| 54 | 1.1 | 1.4 | 1.8 | | 1.1 | 54 |
| 56 | 0.7 | 1.1 | 1.4 | | | 56 |
| 58 | | 0.7 | 1.1 | | | 58 |
| 60 | | | 0.8 | | | 60 |
| 62 | | | | | | 62 |
| 64 | | | | | | 64 |
| 66 | | | | | | 66 |
| 68 | | | | | | 68 |
| Code | 2222211 | 2222221 | 2222222 | 3333333 | | Code |

| |  72.5-88m |  2.9m |  7.7m×8.1m |  360° |  30t | |
|------|---|---|--|---|--|------|
| | 72.5 | 77.3 | 82.1 | 2.9m | | 88 |
| 18 | 10.0 | | | | | 18 |
| 20 | 10.0 | 7.8 | 6.1 | | | 20 |
| 22 | 8.5 | 7.7 | 6.0 | | 4.2 | 22 |
| 24 | 7.1 | 7.3 | 5.8 | | 4.0 | 24 |
| 26 | 5.8 | 6.1 | 5.5 | | 3.9 | 26 |
| 28 | 4.8 | 5.1 | 5.2 | | 3.6 | 28 |
| 30 | 4.0 | 4.3 | 4.6 | | 3.5 | 30 |
| 32 | 3.3 | 3.5 | 3.8 | | 3.3 | 32 |
| 34 | 2.6 | 2.9 | 3.2 | | 3.0 | 34 |
| 36 | 2.1 | 2.4 | 2.6 | | 2.7 | 36 |
| 38 | 1.6 | 1.9 | 2.2 | | 2.2 | 38 |
| 40 | 1.2 | 1.4 | 1.7 | | 1.7 | 40 |
| 42 | 0.8 | 1.0 | 1.3 | | 1.4 | 42 |
| 44 | | 0.7 | 1.0 | | 1.0 | 44 |
| 46 | | | 0.7 | | 0.7 | 46 |
| 48 | | | | | | 48 |
| 50 | | | | | | 50 |
| 52 | | | | | | 52 |
| 54 | | | | | | 54 |
| 56 | | | | | | 56 |
| 58 | | | | | | 58 |
| 60 | | | | | | 60 |
| 62 | | | | | | 62 |
| 64 | | | | | | 64 |
| 66 | | | | | | 66 |
| 68 | | | | | | 68 |
| Code | 2222211 | 2222221 | 2222222 | 3333333 | | Code |

Description of symbols

General symbols

| | |
|--|----------------------|
|  | Superstructure |
|  | Lifting capacity |
|  | Boom length |
|  | Working radius |
|  | Boom angle |
|  | Boom hoisting height |
|  | Fixed jib length |
|  | Jib offset angle |
|  | Jib lifting height |
|  | Independent jib head |
|  | Boom extension |











| | |
|---|----------------------------|
|  | Chassis |
|  | Axle |
|  | Travel speed |
|  | Grade ability |
|  | Tires |
|  | Outriggers |
|  | Hook block |
|  | Counterweight |
|  | Winch |
|  | 360° operation of the boom |

Table of main technical parameters

| Category | Item | Unit | Parameter | | |
|------------|---|-------------|---------------------|----------------|----------------|
| Dimensions | Dimensions (L×W×H) | mm | 16246×3000×4000 | | |
| | Axle spacing | mm | 1650+4300+1650+1650 | | |
| | Track (front/rear) | mm | 2590 | | |
| | Front overhang/rear overhang | mm | 2570/2110 | | |
| | Front extension/rear extension | mm | 1896/420 | | |
| Weight | Max. permissible total weight | kg | 54990 | | |
| | Axle load | Axle 1 | kg | 9820 | |
| | | Axle 2 | kg | 9670 | |
| | | Axle 3 | kg | 11750 | |
| | | Axle 4 | kg | 11900 | |
| | Axle 5 | kg | 11850 | | |
| Power | Engine model | — | Superstructure | Chassis | |
| | | — | WP7G300E473 | YCK11430-60 | WP10.5H460E62 |
| | Rated power/rotation speed | kW/(r/min) | 221/2200 | 316/1900 | 338/1900 |
| | Max. torque/rotation speed | N.m/(r/min) | 1200/1400-1600 | 2100/1100-1500 | 2100/1000-1400 |
| Travel | Max. travel speed | km/h | ≥80 | | |
| | Min. stable travel speed | km/h | 3 | | |
| | Min. turning diameter | m | ≤23 | | |
| | Min. turning diameter at boom head | m | ≤27.8 | | |
| | Min. ground clearance | mm | 270 | | |
| | Approach angle | ° | 20 | | |
| | Departure angle | ° | 12 | | |
| | Braking distance (initial speed at 30 km/h) | m | ≤10 | | |
| | Max. grade ability | % | ≥45 | | |
| | Fuel consumption per 100 km | L | 70 | | |
| Noise | Exterior noise level when accelerating | dB(A) | ≤86 | | |
| | Noise level at seated position | dB(A) | ≤90 | | |

Table of main technical parameters

| Category | Item | Unit | Parameter | | |
|---|--|---------------------------|-----------|----------|-----|
| Main performance | Max. rated lifting capacity | | t | 160 | |
| | Min. rated working radius | | m | 3 | |
| | Turning radius at turntable tail | At counterweight | mm | 5370 | |
| | | At auxiliary winch | mm | 5130 | |
| | Max. load moment | Base boom | kN.m | 5239 | |
| | | Fully-extended boom | kN.m | 2043 | |
| | | Fully-extended boom + jib | kN.m | 647 | |
| | Outrigger span | Longitudinal | m | 7.7 | |
| | | Lateral | m | 8.1/5.39 | |
| | Lifting height | Base boom | m | 14.7 | |
| | | Fully-extended boom | m | 86.2 | |
| | | Fully-extended boom + jib | m | 116 | |
| | Boom length | Base boom | m | 14.6 | |
| | | Fully-extended boom | m | 88 | |
| Fully-extended boom + jib | | m | 116.6 | | |
| Jib offset angle | | ° | 0, 15, 30 | | |
| Working speed | Time for raising boom | | s | ≤65 | |
| | Time for fully extending the boom | | s | ≤880 | |
| | Max. slewing speed | | r/min | ≥1.5 | |
| | Time for extending/retracting the outriggers | Outrigger beam | In | s | ≤40 |
| | | | Out | s | ≤40 |
| | | Outrigger jack | Up | s | ≤60 |
| | | | Down | s | ≤90 |
| Lifting speed (single line at 4th layer, no load) | Main winch | m/min | ≥135 | | |
| | Auxiliary winch | m/min | ≥90 | | |
| Noise | Exterior noise level | | dB(A) | ≤107 | |
| | Noise level at seated position | | dB(A) | ≤85 | |

Notes

1. The total rated load given in the rated load charts is the maximum lifting capacity when the crane is set up on firm and level ground. The total rated load includes the weight of the hook blocks and slings. To calculate the actual weight that could be lifted, the weight of hook blocks and slings should be deducted from the lifting capacities.
2. The working radius is the horizontal distance between the gravity center of load and the rotational axis of the crane superstructure measured on the ground when the load is lifted off ground, and it is the actual value including loaded boom deflection. Take boom deflection into consideration before beginning a lifting operation.
3. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s, wind pressure of 125N/m^2).
4. Before beginning lifting, the operator should know the weight of the load to be lifted and its working range, and should then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Take the lower value from the chart when the boom length or working radius is between the range of values.
5. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane will tip.
6. Extend boom sections according to the specified percentage.



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