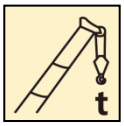
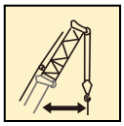
# XCA350L8 All Terrain Crane

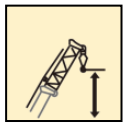
## Technical specifications



**350 t**


**92 m**

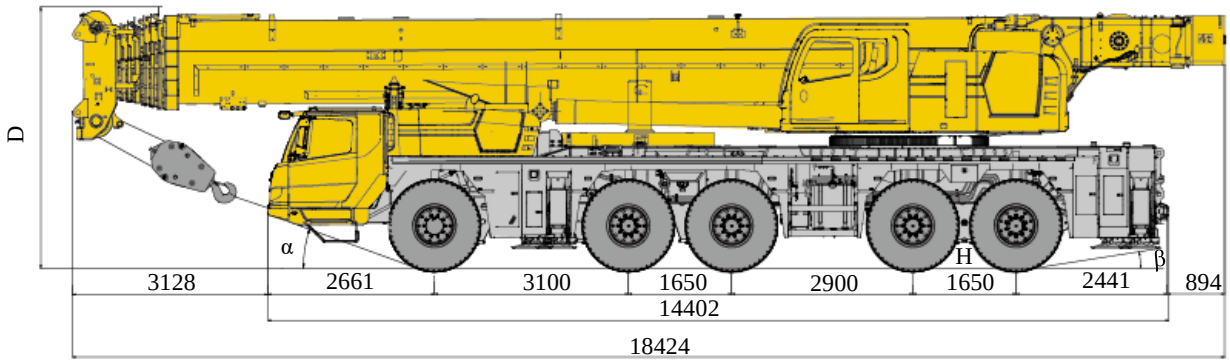

**82 m**

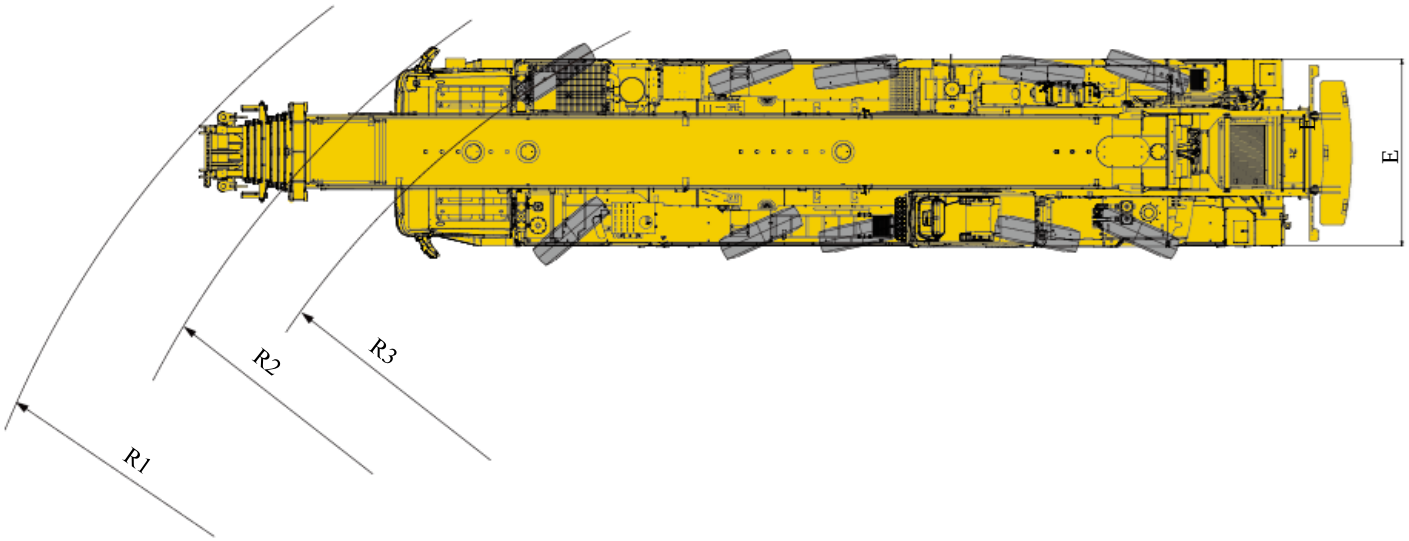

**126 m**


**1st edition, August 2024**

## Contents

## Dimensions




| | α(°) | β(°) | D (mm) | E (mm) | H（mm） | R1 (mm) | R2 (mm) | R3 (mm) |
|---|---|---|---|---|---|---|---|---|
| 445/95R25 | 19 | 12 | 4175 | 3000 | 359 | 13250 | 11350 | 9700 |

## Technical specifications

| Chassis | |
|---|---|
| **Frame** | Designed and manufactured by XCMG, the frame is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure. |
| **Outriggers** | Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beam is adopted. There is an outrigger control station located at each side of the chassis, and there is a level gauge, an illuminator and speed buttons on each control station. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic lock fitted in each jack cylinder.<br>Float dimension: 600mm×600mm<br>Reaction force of outrigger at max. lifting load: front outrigger: 1060 kN; rear outrigger: 1520 kN |
| **Engine** | WP13.550E62, in-line, 6-cylinder, water cooled, electric control diesel engine, made by Weichai, with rated power of 405kW/1900 rpm and max. torque of 2500Nm/950-1400 rpm.<br>Max. reference torque: 2632 Nm;<br>Compliant with China VI emission standard.<br>Fuel tank capacity: 592L.<br>AdBlue/DEF tank capacity: 34.3L. |
| **Hydraulic system** | The pump set, connected to the PTO port of the engine, controls the outriggers, steering system, suspension and independent hydraulic cooling system. |
| **Transmission** | FAST automatic transmission with retarder brake; 12 forward gears and 2 reverse gears available. |
| **Transfer case** | Mechanical transfer case, with high/low speeds, is equipped with emergency steering pump. |
| **Axle** | High strength axle made by Dajiang, equipped with disc brake. Axles 2, 3, 4 and 5 for driving. |
| **Suspension** | 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 unlocked and locked suspension are available. |
| **Tires** | 10 tires and 1 spare tire, each axle is equipped with single tire, with large bearing capacity. Tire specifications: 445/95R25. |
| **Brake** | Service brake: dual-circuit air pressure brake, acting on all wheels.<br>Parking brake: spring applied brake, acting on the wheels of axles 2~5.<br>Auxiliary brake: engine retarder brake, transmission retarder brake; safe and reliable, with longer service life of brake lining. |
| **Steering** | All axles steering, advanced technology of electro-hydraulic proportional steering control is suitable for various demands of working conditions and several steering modes can be realized. |
| **Driver's cab** | New full dimension steel structure cab, with suspension connecting structure, is equipped with shock absorbers at the rear of the cab. It is equipped with adjustable seats, safety glass, electrically operated door window lifter, electric-adjustable mirrors, steering wheel adjustable in height and angle, reverse displayer, large screen liquid crystal display, etc. New combined central control panel has safe and reasonable layout with arc modeling, which embodies human-oriented design concept.<br>HVAC is standard |
| **Electrical system** | DC 24 V, two batteries in series. |

# Technical specifications

|  | **Superstructure** |
|---|---|
| **Structure** | Designed and manufactured by XCMG, made of high strength steel. |
| **Hydraulic system** | Variable piston pump and gear pump driven by superstructure engine are used for lifting, luffing, telescoping, slewing operations. Domestic electro-hydraulic change valve, matching perfectly and stably with plunger variable pump. Air-cooled hydraulic oil cooler may effectively reduce the oil temperature in the system.<br>Effective volume of hydraulic oil tank: 1100 L |
| **Operating method** | The pilot electric proportional control system is equipped with two levers at left and right sides controlling the main movements of the crane, and stepless slewing speed regulation is available. |
| **Winch system** | Equipped with Lebus grooved drum, driven by a hydraulic motor, with build-in planetary gear reducer, constant closed brake and counterbalance valve. Wire rope has a rope head, which is directly installed in pouch socket. Time for replacing wire rope is shortened, the replacement is easy and fast. |
| **Slewing system** | A single-row, four-point contact-ball external toothed slewing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available. |
| **Operator's cab** | Large safety glass, sliding door, adjustable seat with 20° tilting are adopted. Safety glass and top protective rails, LMI, electric windshield wipers, engine accelerator pedal, engine start switch and windshield sun shield, etc. are also available.<br>HVAC is standard |

| | |
|---|---|
| **Safety devices** | Hydraulic counterbalance valve, hydraulic relief valve, hydraulic double-way valve and LMI are available. Lowering limiter is equipped in winch to prevent rope over-releasing. Anti-two block is fitted on the boom head to prevent rope over-winding. Anemometer is equipped to check whether aerial wind velocity is in safe working range. Winch monitoring device is equipped to monitor the winch status in real time. |
| **Load moment indicator (LMI)** | When the actual load moment is approaching the overloading value, audible and visual warning will be sent out, and the dangerous operation will be automatically cut off before overloading occurs. Overload memory function (black box) and fault self-diagnosis function are available. |
| **Combined counterweight** | 100 t in total, variable position of 0.5 m<br>Counterweight combinations: 0 t, 6t, 17 t, 27 t, 45 t, 56 t, 70 t, 88 t and 100 t. |
| **Electrical system** | DC 24 V, two batteries in series. |
| **Hook block** | 90 t hook block |
| **Wireless remote controller** | Wireless remote control device can be used to carry out the remote control of main operations (telescoping, luffing, winch, slewing), super lift, auxiliary operations (operator' cab, counterweight cylinder, turntable locking pin) and chassis outrigger operations, also for engine operations and lights control, improving the convenience and security of crane operations. |

**Please refer to the product quotation for specific parts.**

## Technical specifications

| | |
|---|---|
| **Boom** | 8-section boom with U-shaped cross-section, welded structure. Single-cylinder pinning telescoping system is adopted. One double-acting cylinder with safety valve is used for controlling the telescoping movements of all boom sections with various telescoping pattern available.<br>Boom length: 15.3 m ~ 92 m. |
| **Jib** | Lattice structure with 0°, 20° and 40° jib offset angles available.<br>Length of fixed jib sections in boom OM: 10/14/18 m<br>Length of fixed jib sections in boom + super lift OM: 16/20/24 m<br>Luffing length of 10.5/18.5/26.5 m |
| **Super lift** | Y-shaped, installed at top of base boom, with wire rope with 2 parts of line available.<br>Intelligent auxiliary tensioning function and emergency function are added. |
| **Engine** | WP7G300E473, in line, six-cylinder, water cooled, high pressure common rail, diesel engine, manufactured by Weichai, with rated power of 221 kW/2200 rpm,<br>max. torque of 1200 Nm/1400-1600 rpm, compliant with off-road China Stage IV emission standard. Fuel tank capacity: 330 L. |

# Configuration and optional equipment

| Model | Function |
|---|---|
| **Standard** | Boom, eight-section boom of 92 m |
| **Full configuration** | Boom + super lift + fixed jib, eight-section boom of 92 m, fixed jib of 50.5 m |

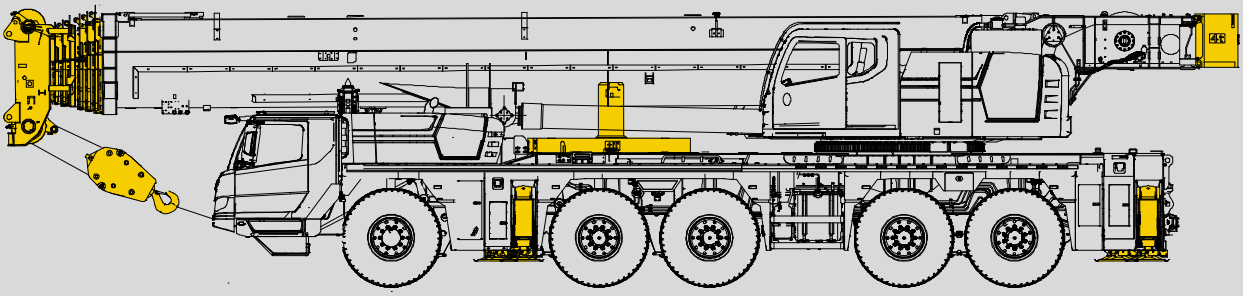
| Optional equipment | |
|---|---|
| **Hook block** | 165t hook, 40t hook, 13.5t hook |
| **Engine preheating device** | |

**Note: The optional equipment is universal and can be selected for both versions.**

## Weight

| Axle | 1 | 2 | 3 | 4 | 5 | Total weight |
|---|---|---|---|---|---|---|
| t | 19.8 | 19.8 | 20 | 20 | 20 | 99.6 |

99.6t: It includes all boom sections, outriggers, outrigger floats, 6t fixed counterweight (at the turntable tail), 11t counterweight bottom slab (under the luffing cylinder), 40t hook block; It excludes spare tire and spare tire bracket.
Max. travel speed: 20km/h
Driving/steering mode: 10×8×10; tire specification: 445/95R25



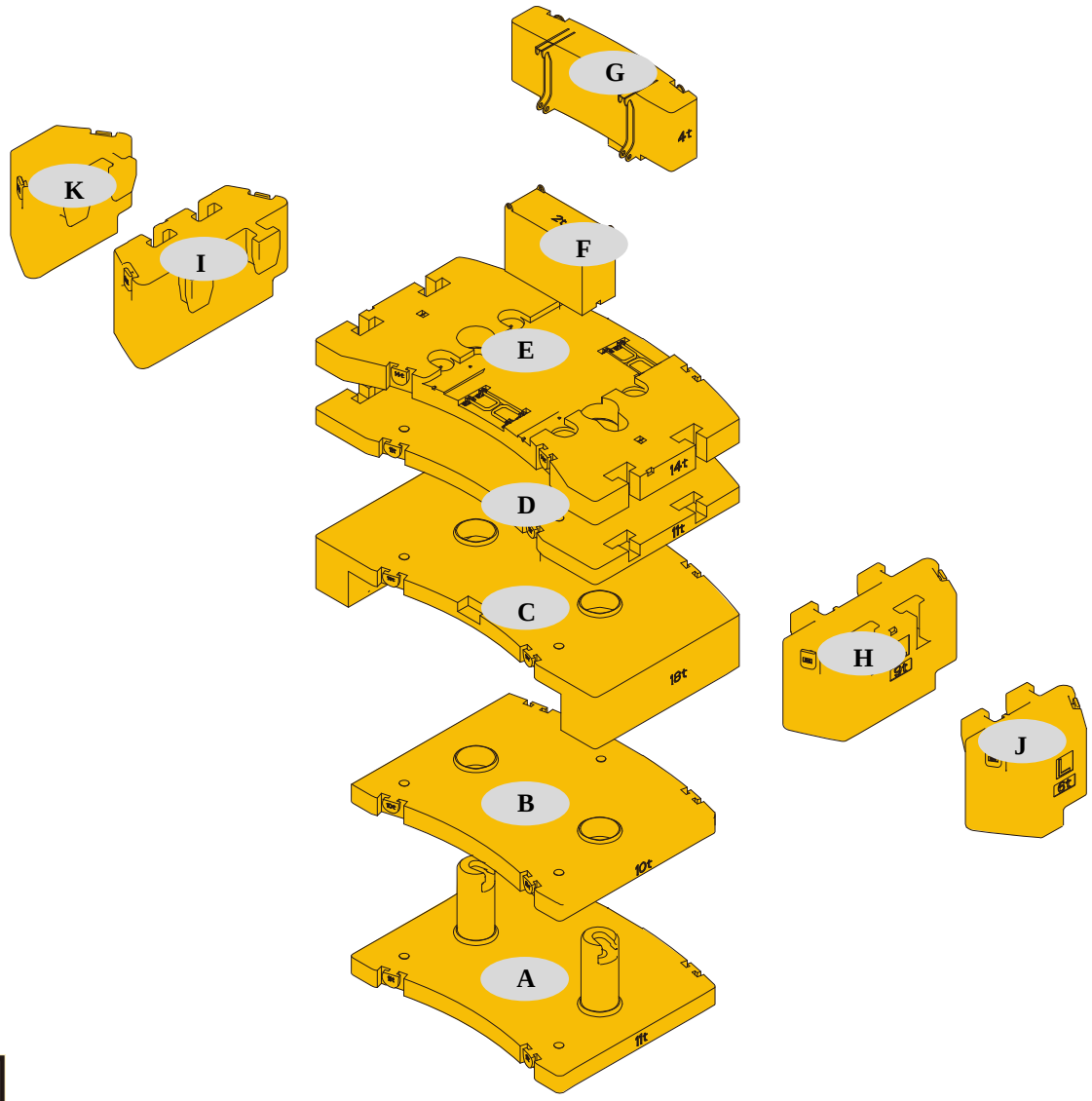
## Working speed

| Hook block | Parts of line | Weight of hook block | Hook dimension | Note |
|---|---|---|---|---|
| 165 t | 14 | 1900 | 2100×700×850 | Double hooks (optional) |
| 90 t | 7 | 1400 | 1800×700×600 | Double hooks |
| 40 t | 3 | 1100 | 1600×700×450 | Single hook (optional) |
| 13.5 t | 1 | 470 | 900×500×500 | Single hook (optional) |

|  |  |  |
|---|---|---|
| 445/95R25 | 1 ~ 20 | 10% |

| Operation mechanism | Working speed | Max. single line pull | Rope diameter/ length |
|---|---|---|---|
|  | 0-120 m/min, single line, at outermost layer | 13.5 t | 24 mm/410 m |
|  | 0-1.2 r/min | | |
|  | Approx. 90 s for boom luffing from 0° to 83° | | |
|  | Approx. 1100 s for boom extending from 15.3 m to 92 m | | |

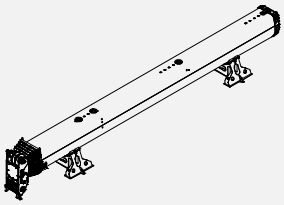
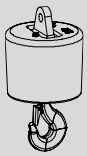
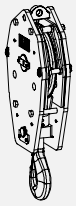
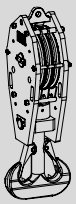
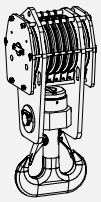
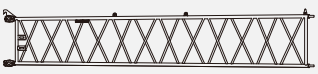
# Counterweight



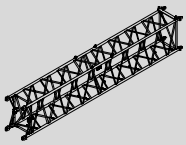
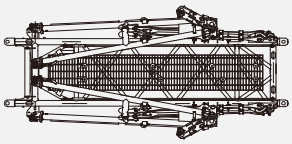
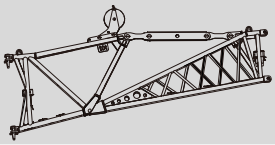
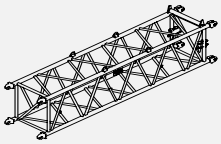
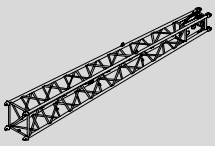
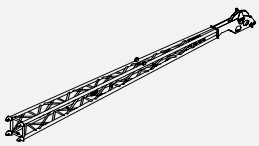
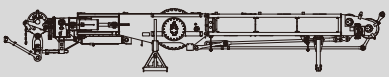
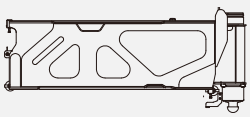
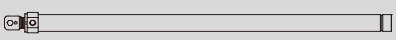

| CWT | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions (L×W×H) (mm) | 2990×2435×1050 | 2990×2435×257 | 4000×2435×669 | 4000×2435×223 | 4000×2435×293 | 1100×470×850 | 2300×500×790 | 2207×950×1040 | 2207×950×1040 | 1601×1010×1040 | 1601×1010×1040 |
| Weight (t) | 11 | 10 | 18 | 11 | 14 | 2 | 4 | 9 | 9 | 6 | 6 |

| Operation modes | 100 t | 88 t | 70 t | 56 t | 45 t | 27 t | 17 t | 6 t | 0 t |
|---|---|---|---|---|---|---|---|---|---|
| Combinations | F+G+A+B+C+D+E+H+I+J+K | F+G+A+B+C+D+E+H+I | F+G+A+B+C+D+E | F+G+A+B+C+D | F+G+A+B+C | G+F+A+B | F+G+A | F+G | —— |

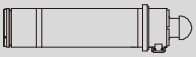
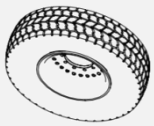
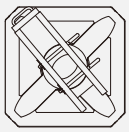
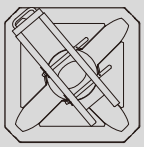
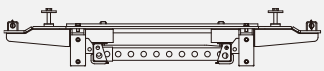
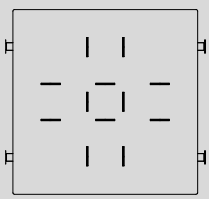
## Dimensions of parts to be transported

| Name | Illustration | Single weight (kg) | Qty | Dimension (mm) |
|---|---|---|---|---|
| 2-8 boom sections |  | 22500 | 1 | 15500×2200×2100 |
| 13.5 t hook block (optional) |  | 470 | 1 | 900×500×500 |
| 40 t hook block (optional) |  | 1100 | 1 | 1600×700×450 |
| 90 t hook block |  | 1400 | 1 | 1800×700×600 |
| 165 t hook block (optional) |  | 1900 | 1 | 2100×700×850 |
| Main winch rope |  | 1250 | 1 | 410×24 |
| Connecting bracket assembly |  | 900 | 1 | 8700×1000×1700 |

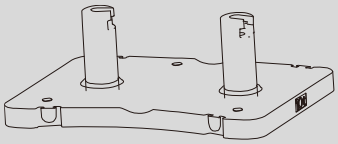
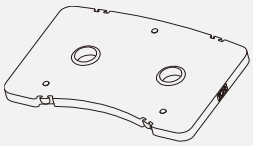
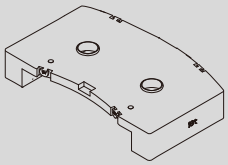
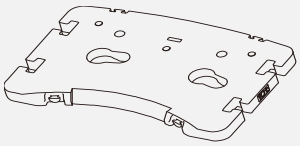
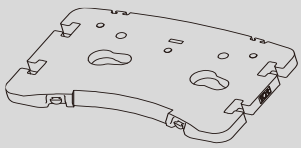
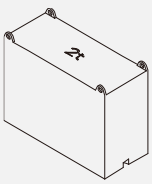
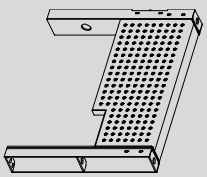
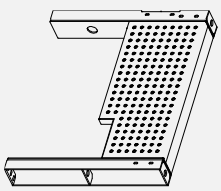
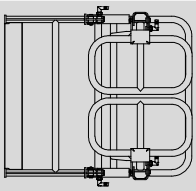
## Dimensions of parts to be transported

| Name | Illustration | Single weight (kg) | Qty | Dimension (mm) |
|---|---|---|---|---|
| Boom extension |  | 500 | 2 | 4200×1200×1700 |
| Wing-type connecting bracket assembly |  | 1400 | 1 | 6200×2100×2100 |
| Offsetting bracket assembly |  | 1100 | 1 | 5300×1000×1800 |
| Extension I |  | 500 | 1 | 8100×900×1200 |
| The 1st jib section assembly |  | 600 | 1 | 7700×900×1100 |
| The 2nd jib section assembly |  | 500 | 1 | 8100×600×800 |
| Super lift |  | 12170 | 1 | 9750×2000×1750 |
| Rear outrigger beams assembly |  | 2000 | 2 | 2850×1250×450 |
| Extension cylinder |  | 80 | 2 | 2100×300×150 |

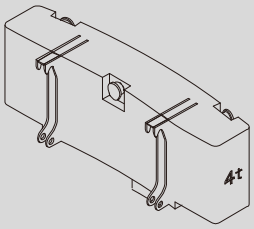
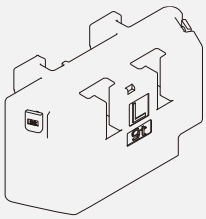
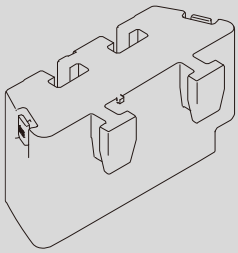
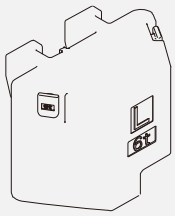
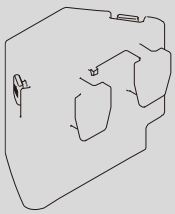
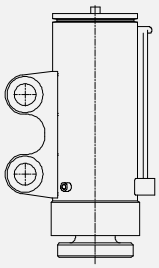
## Dimensions of parts to be transported

| Name | Illustration | Single weight (kg) | Qty | Dimension (mm) |
|---|---|---|---|---|
| Rear jack cylinder |  | 280 | 2 | 1200×350×350 |
| Tires |  | 321 | 1 | 1485×1485×445 |
| Spare tire bracket |  | 66 | 1 | 2000×353×376 |
| Front outrigger floats |  | 70 | 2 | 600×600×200 |
| Rear outrigger floats |  | 70 | 2 | 700×600×200 |
| Pad bracket |  | 450 | 1 | 2300×1450×450 |
| Outrigger pad |  | 1246 | 4 | 2000×2000×204 |

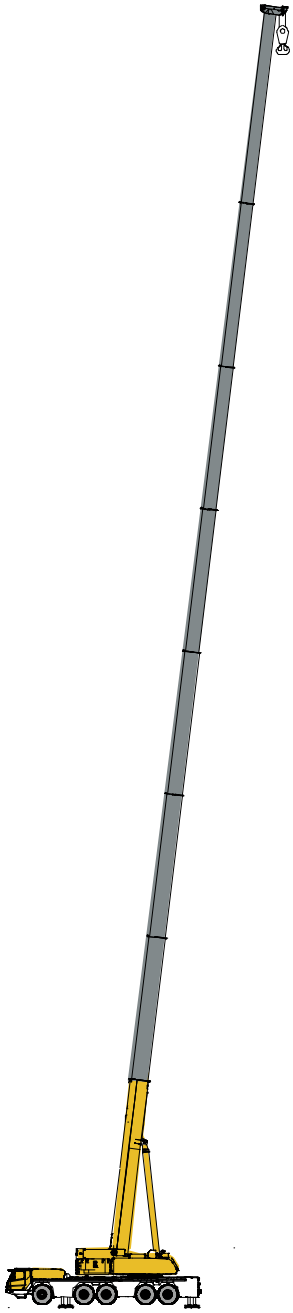
## Dimensions of parts to be transported

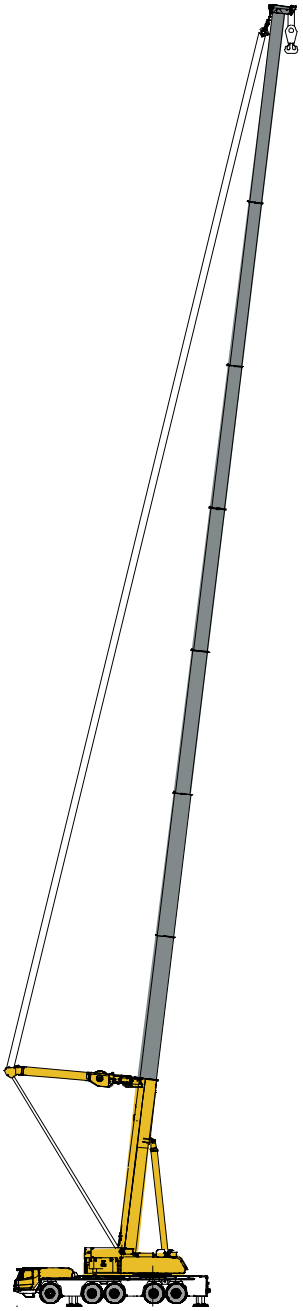
| Name | Illustration | Single weight (kg) | Qty | Dimension (mm) |
|---|---|---|---|---|
| Counterweight slab A |  | 11000 | 1 | 2990×2435×1050 |
| Counterweight slab B |  | 10000 | 1 | 2990×2435×257 |
| Counterweight slab C |  | 18000 | 1 | 4000×2435×669 |
| Counterweight slab D |  | 11000 | 1 | 4000×2435×223 |
| Counterweight slab E |  | 14000 | 1 | 4000×2435×293 |
| Counterweight slab F |  | 2000 | 1 | 1100×470×850 |
| Platform and guardrail |  | 17 | 1 | 1000×800×150 |
| |  | 16 | 1 | 1000×850×150 |
| |  | 15 | 2 | 1100×1050×150 |

## Dimensions of parts to be transported

| Name | Illustration | Single weight (kg) | Qty | Dimension (mm) |
|---|---|---|---|---|
| Counterweight slab G |  | 4000 | 1 | 2300×500×790 |
| Counterweight slab H |  | 9000 | 1 | 2207×950×1040 |
| Counterweight slab I |  | 9000 | 1 | 2207×950×1040 |
| Counterweight slab J |  | 6000 | 1 | 1601×1010×1040 |
| Counterweight slab K |  | 6000 | 1 | 1601×1010×1040 |
| Counterweight cylinder |  | 120 | 2 | 700×450×250 |

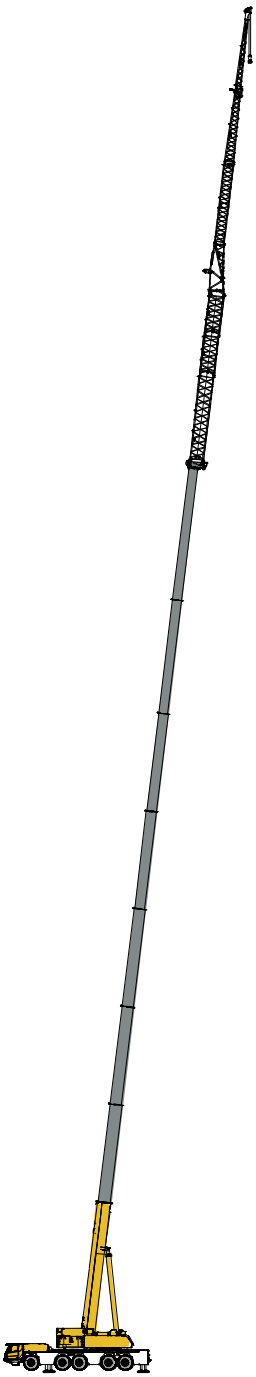
## Boom/jib combinations

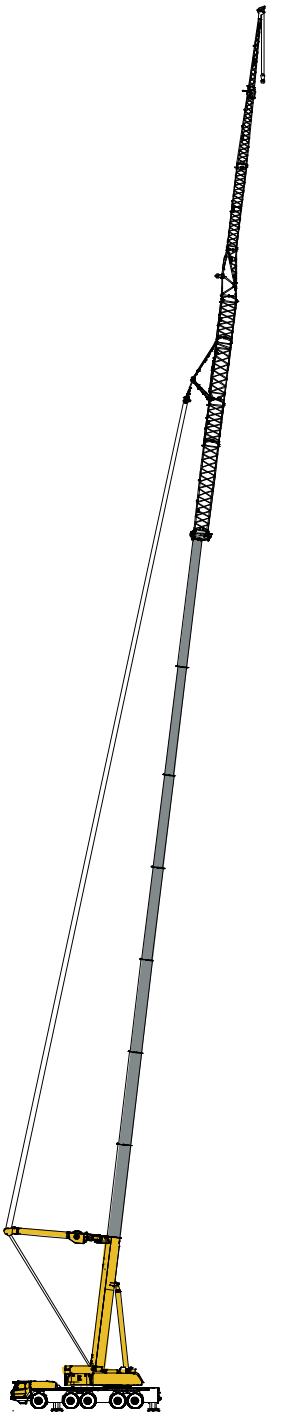




| Boom | Super lift + boom |
| --- | --- |
| T:15.3-92 m | T:40.5-92 m |

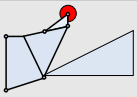
## Boom/jib combinations





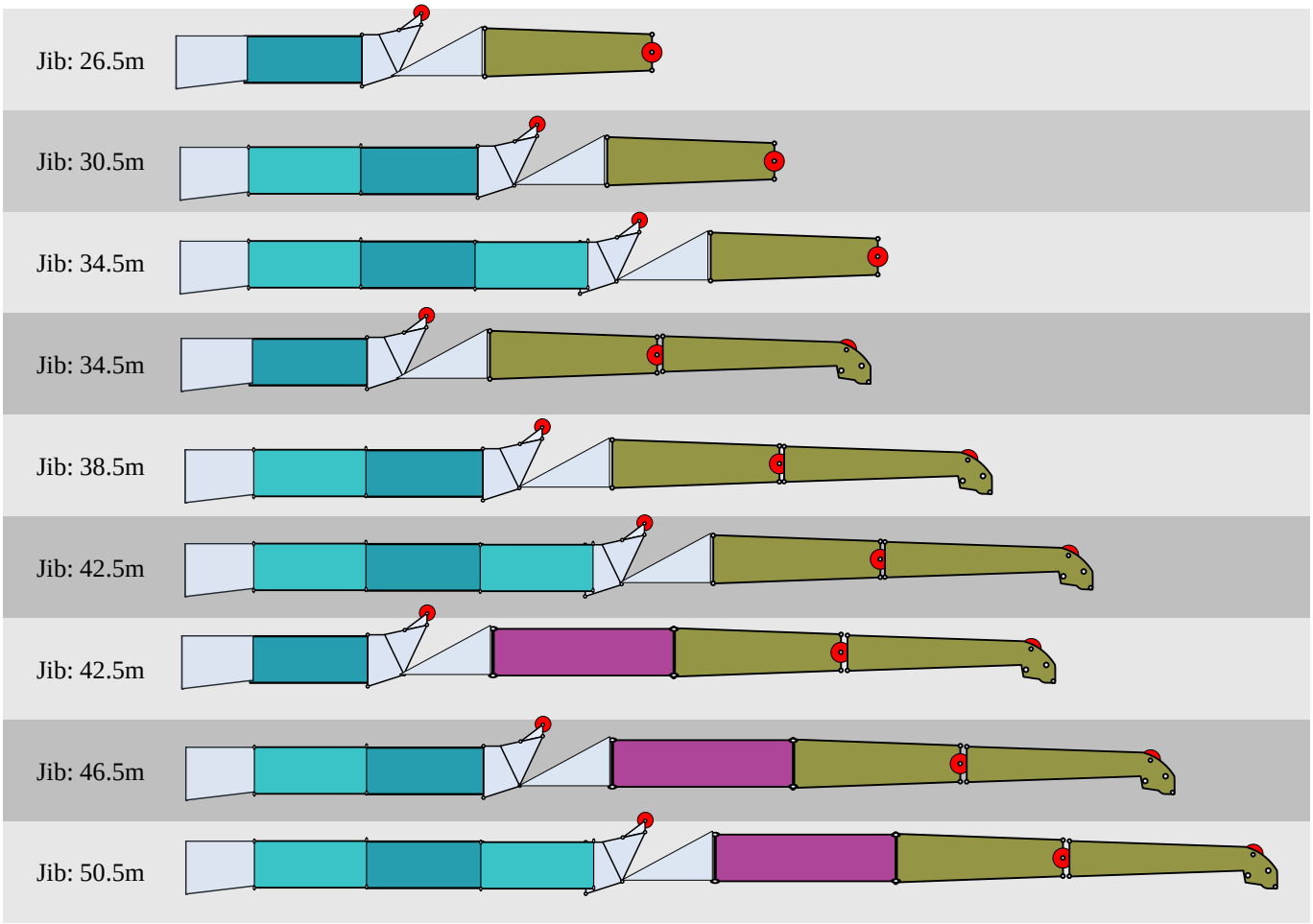
| Fixed jib | Super lift + fixed jib |
|---|---|
| T:45.5-85.9 m<br>V: 10m, 14m, 18m<br>F: 10.5m, 18.5m, 26.5m<br>A: 0°, 20°, 40° | T:45.5-80.8 m<br>V: 16m, 20m, 24m<br>F: 10.5m, 18.5m, 26.5m<br>A: 0°, 20°, 40° |

# Boom/jib combinations

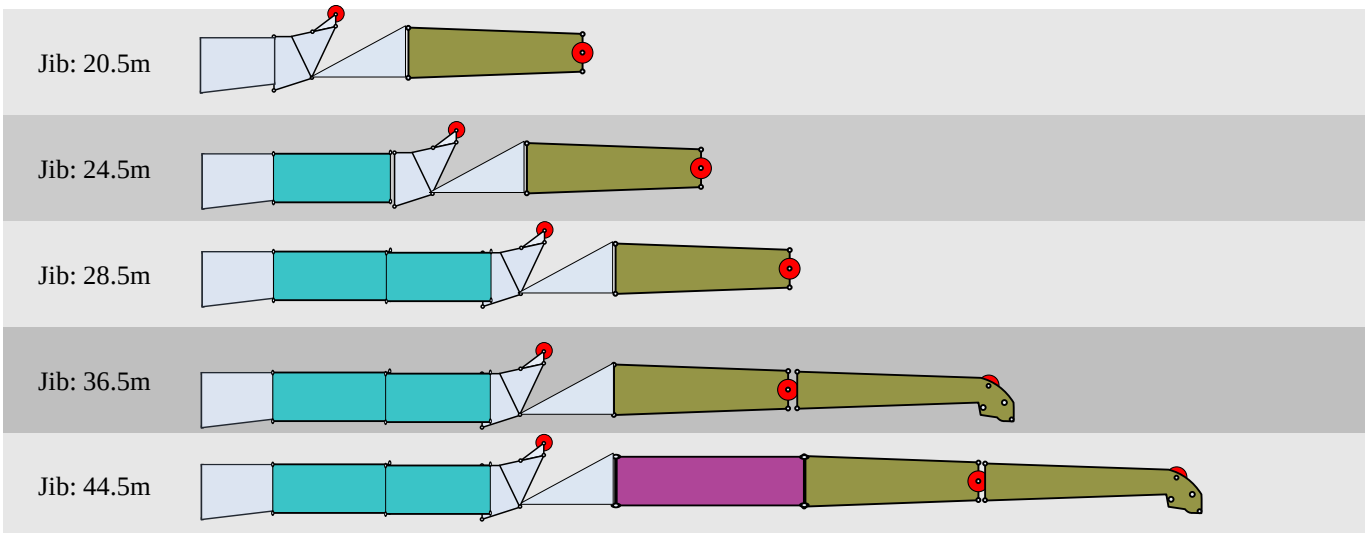
| Components | Structure | Dimensions (L×W×H) (mm) | Weight (kg) |
|---|---|---|---|
| Connecting bracket assembly |  | 8700×1000×1700 | 950 |
| Boom extension |  | 4200×1200×1700 | 500 |
| Wing-type connecting bracket assembly |  | 6200×2100×2100 | 1400 |
| Offsetting bracket assembly |  | 5300×1000×1800 | 1100 |
| Extension I |  | 8100×900×1200 | 550 |
| The 1st jib section assembly |  | 7700×900×1100 | 650 |
| The 2nd jib section assembly |  | 8100×600×800 | 450 |

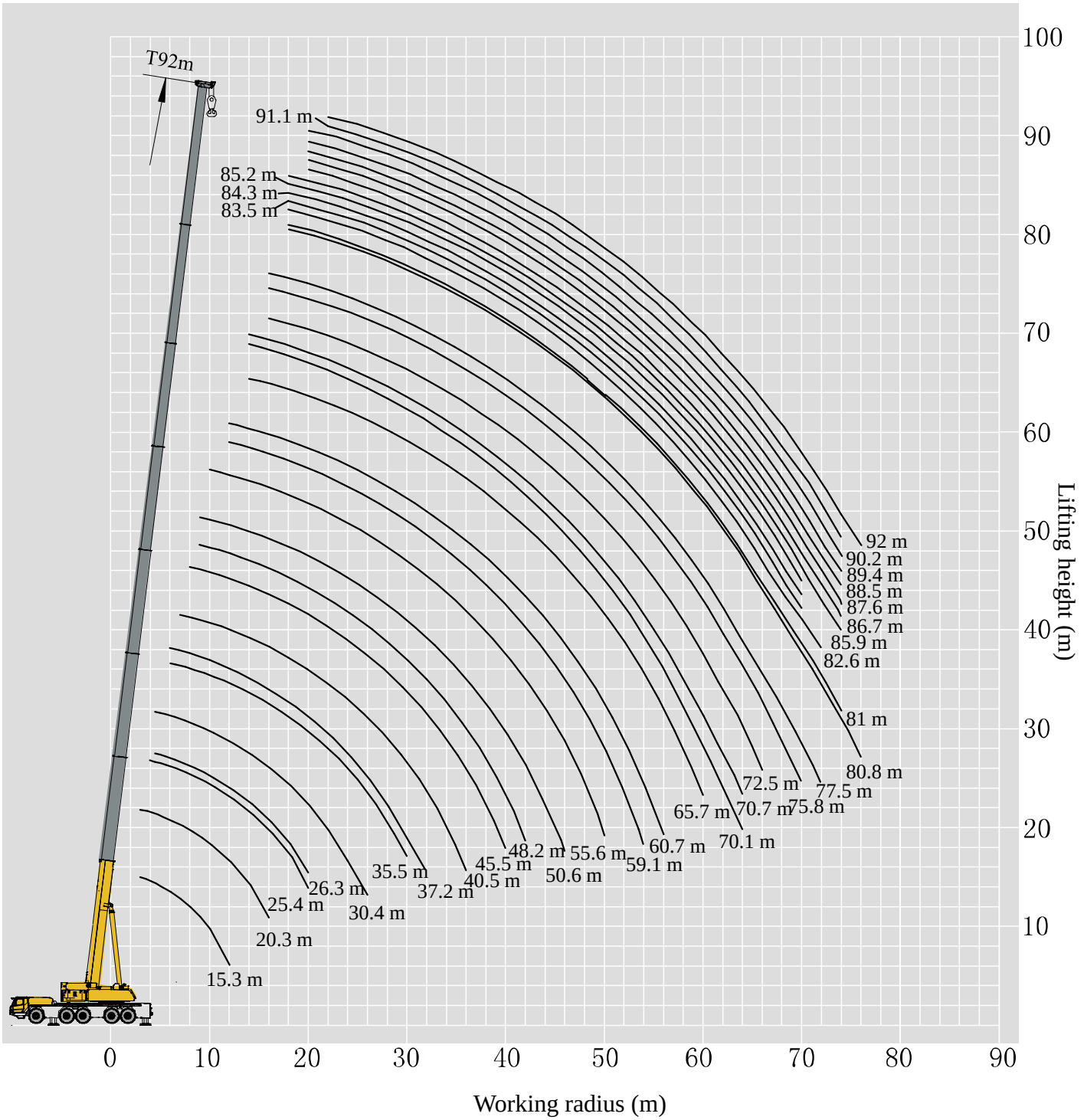
## Boom/jib combinations

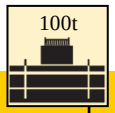
1. Super lift + fixed jib:




2. Fixed jib:



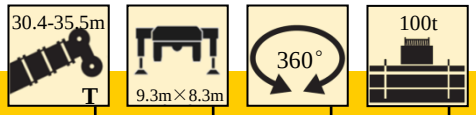

T92m
91.1 m
85.2 m
84.3 m
83.5 m
92 m
90.2 m
89.4 m
88.5 m
87.6 m
86.7 m
85.9 m
82.6 m
81 m
80.8 m
72.5 m
77.5 m
65.7 m
70.7 m
75.8 m
70.1 m
60.7 m
48.2 m
55.6 m
59.1 m
45.5 m
50.6 m
35.5 m
40.5 m
37.2 m
26.3 m
30.4 m
25.4 m
20.3 m
15.3 m
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
Working radius (m)



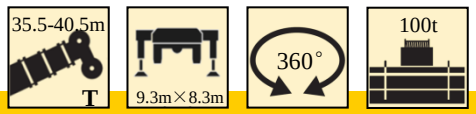

| m | 15.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 25.4 | 25.4 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4 | 350* | | | | | | | | | | 2.4 |
| 3 | 165.0 | 77.7 | 151.6 | 165.0 | 165.0 | 165.0 | 164.9 | 165.0 | | | 3 |
| 3.5 | 165.0 | 73.7 | 143.0 | 162.6 | 162.6 | 162.6 | 162.6 | 162.6 | | | 3.5 |
| 4 | 165.0 | 69.7 | 132.3 | 160.7 | 159.0 | 160.7 | 158.1 | 157.3 | 43.8 | 74.0 | 4 |
| 4.5 | 158.0 | 66.5 | 123.0 | 156.2 | 156.0 | 156.8 | 155.0 | 152.0 | 41.1 | 70.7 | 4.5 |
| 5 | 148.0 | 63.3 | 114.8 | 148.0 | 148.0 | 148.0 | 147.0 | 143.6 | 39.4 | 67.5 | 5 |
| 6 | 135.0 | 58.1 | 102.0 | 130.0 | 132.0 | 131.0 | 130.0 | 130.0 | 35.6 | 63.4 | 6 |
| 7 | 119.0 | 53.9 | 91.0 | 116.2 | 117.0 | 117.7 | 116.0 | 115.0 | 32.3 | 58.9 | 7 |
| 8 | 106.0 | 50.4 | 81.6 | 104.0 | 105.0 | 105.0 | 104.0 | 103.0 | 29.8 | 55.2 | 8 |
| 9 | 94.0 | 47.2 | 74.5 | 92.4 | 93.0 | 94.0 | 93.0 | 92.4 | 27.7 | 52.0 | 9 |
| 10 | 83.0 | 44.0 | 68.6 | 83.6 | 81.9 | 85.3 | 84.0 | 81.9 | 25.5 | 48.8 | 10 |
| 12 | 67.0 | 39.7 | 58.7 | 67.7 | 68.8 | 71.0 | 70.1 | 69.1 | 22.3 | 42.2 | 12 |
| 14 | | 36.4 | 51.1 | 58.7 | 59.5 | 61.4 | 60.5 | 59.5 | 20.0 | 37.5 | 14 |
| 16 | | 33.1 | 45.6 | 51.3 | 50.4 | 50.0 | 49.1 | 48.0 | 18.1 | 33.3 | 16 |
| 18 | | | | | | | | | 16.6 | 29.8 | 18 |
| 20 | | | | | | | | | 15.1 | 27.2 | 20 |
| Code | 0000000 | 0000001 | 0000010 | 0000100 | 0001000 | 0010000 | 0100000 | 1000000 | 0000002 | 0000011 | Code |
| n | 14 | 7 | 13 | 14 | 14 | 14 | 14 | 14 | 4 | 6 | n |


| m | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 26.3 | 30.4 | 30.4 | 30.4 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 119.9 | 158.0 | 158.0 | 157.1 | 156.1 | 156.1 | | | | | 4 |
| 4.5 | 112.7 | 155.0 | 154.0 | 154.0 | 153.0 | 152.1 | 33.9 | 41.8 | 40.8 | 62.3 | 4.5 |
| 5 | 106.0 | 146.0 | 145.0 | 144.0 | 143.0 | 142.1 | 32.1 | 39.6 | 39.4 | 61.0 | 5 |
| 6 | 94.2 | 131.0 | 130.0 | 129.0 | 128.0 | 127.0 | 29.2 | 35.3 | 35.9 | 57.0 | 6 |
| 7 | 85.0 | 116.0 | 115.0 | 114.0 | 114.0 | 112.0 | 26.4 | 32.3 | 32.4 | 54.2 | 7 |
| 8 | 77.2 | 104.0 | 103.0 | 102.0 | 102.0 | 97.7 | 24.2 | 29.5 | 29.6 | 51.5 | 8 |
| 9 | 70.5 | 94.0 | 93.0 | 92.0 | 92.0 | 89.0 | 22.3 | 27.3 | 27.5 | 48.7 | 9 |
| 10 | 65.2 | 86.0 | 85.0 | 84.0 | 84.0 | 81.0 | 20.7 | 25.1 | 25.4 | 45.9 | 10 |
| 12 | 56.6 | 72.0 | 71.0 | 69.1 | 68.2 | 68.2 | 18.3 | 22.3 | 21.9 | 41.3 | 12 |
| 14 | 50.2 | 62.0 | 61.0 | 59.1 | 58.6 | 58.2 | 16.3 | 19.8 | 19.4 | 36.9 | 14 |
| 16 | 44.4 | 54.0 | 53.1 | 52.1 | 49.8 | 50.2 | 14.7 | 17.6 | 17.5 | 33.3 | 16 |
| 18 | 40.6 | 47.0 | 45.1 | 44.2 | 43.2 | 41.4 | 13.3 | 15.9 | 15.9 | 30.1 | 18 |
| 20 | 36.6 | 41.4 | 39.3 | 37.8 | 36.3 | 35.5 | 12.3 | 14.6 | 14.5 | 27.1 | 20 |
| 22 | | | | | | | | 13.5 | 13.3 | 25.1 | 22 |
| 24 | | | | | | | | 12.4 | 12.2 | 23.1 | 24 |
| 26 | | | | | | | | 11.6 | 11.3 | 21.4 | 26 |
| Code | 0000110 | 0001100 | 0011000 | 0110000 | 1100000 | 2000000 | 0000003 | 0000012 | 0000021 | 0000111 | Code |
| n | 10 | 13 | 13 | 13 | 13 | 13 | 3 | 4 | 4 | 5 | n |

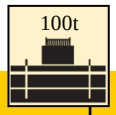
*Capacity class




| m | 30.4 | 30.4 | 30.4 | 30.4 | 30.4 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.5 | 123.5 | 135.7 | 132.7 | 132.7 | 132.7 | | | | | | 4.5 |
| 5 | 117.5 | 135.7 | 131.1 | 130.2 | 130.2 | | | | | | 5 |
| 6 | 111.7 | 128.0 | 127.0 | 126.0 | 126.0 | 30.2 | 37.2 | 37.4 | 71.3 | 112.7 | 6 |
| 7 | 101.2 | 115.0 | 114.0 | 112.0 | 112.0 | 27.3 | 34.4 | 34.2 | 68.0 | 109.4 | 7 |
| 8 | 91.9 | 104.0 | 103.0 | 101.0 | 101.0 | 24.8 | 31.5 | 31.4 | 64.8 | 100.9 | 8 |
| 9 | 84.3 | 94.0 | 93.0 | 92.0 | 91.0 | 23.2 | 29.0 | 29.3 | 61.5 | 94.0 | 9 |
| 10 | 77.7 | 87.0 | 83.3 | 84.0 | 83.0 | 21.6 | 27.1 | 27.1 | 58.5 | 86.0 | 10 |
| 12 | 67.4 | 74.0 | 69.1 | 69.6 | 70.0 | 18.7 | 24.1 | 23.9 | 53.6 | 74.0 | 12 |
| 14 | 58.5 | 64.0 | 59.2 | 58.6 | 59.8 | 16.6 | 21.5 | 21.3 | 49.2 | 64.0 | 14 |
| 16 | 51.3 | 55.0 | 50.6 | 49.8 | 50.9 | 14.9 | 19.4 | 19.2 | 44.2 | 57.0 | 16 |
| 18 | 45.9 | 49.0 | 44.1 | 43.2 | 43.2 | 13.5 | 17.8 | 17.5 | 40.6 | 50.0 | 18 |
| 20 | 42.3 | 41.4 | 38.7 | 37.0 | 36.8 | 12.2 | 16.3 | 16.1 | 36.3 | 45.0 | 20 |
| 22 | 36.5 | 35.0 | 33.4 | 31.5 | 30.9 | 11.2 | 15.0 | 14.8 | 33.0 | 39.0 | 22 |
| 24 | 32.0 | 30.6 | 29.0 | 27.2 | 26.5 | 10.5 | 13.9 | 13.8 | 32.4 | 31.7 | 24 |
| 26 | 28.3 | 26.9 | 25.3 | 23.5 | 22.9 | 9.7 | 13.0 | 12.9 | 29.6 | 28.1 | 26 |
| 28 | | | | | | 9.0 | 12.2 | 12.0 | 26.5 | 25.0 | 28 |
| 30 | | | | | | 8.3 | 11.5 | 11.2 | 23.9 | 22.4 | 30 |
| Code | 0001110 | 0011100 | 0111000 | 1110000 | 1200000 | 0000022 | 0000112 | 0000121 | 0001111 | 0011110 | Code |
| n | 10 | 11 | 11 | 11 | 11 | 3 | 3 | 3 | 6 | 9 | n |

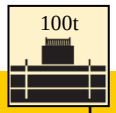



| m | 35.5 | 35.5 | 35.5 | 37.2 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 111.8 | 110.9 | 110.0 | 23.6 | | | | | | | 6 |
| 7 | 108.5 | 106.6 | 106.6 | 21.8 | 26.9 | 33.0 | 35.4 | 38.5 | 46.6 | 72.1 | 7 |
| 8 | 100.0 | 99.0 | 98.0 | 20.0 | 25.6 | 30.0 | 32.7 | 35.7 | 43.5 | 70.4 | 8 |
| 9 | 93.0 | 91.0 | 91.0 | 18.9 | 23.6 | 27.3 | 30.6 | 32.9 | 40.3 | 67.0 | 9 |
| 10 | 85.0 | 84.0 | 83.0 | 17.7 | 22.1 | 25.3 | 28.9 | 30.7 | 37.0 | 65.6 | 10 |
| 12 | 73.0 | 71.0 | 71.0 | 15.2 | 19.6 | 22.4 | 25.4 | 27.2 | 32.2 | 62.3 | 12 |
| 14 | 63.0 | 61.0 | 61.0 | 13.5 | 17.7 | 19.5 | 22.9 | 24.3 | 28.1 | 58.0 | 14 |
| 16 | 53.9 | 54.0 | 53.0 | 12.2 | 15.9 | 17.6 | 20.8 | 21.3 | 24.9 | 53.1 | 16 |
| 18 | 47.0 | 44.2 | 44.2 | 11.1 | 14.5 | 15.8 | 19.1 | 19.6 | 22.4 | 49.0 | 18 |
| 20 | 39.6 | 37.8 | 37.4 | 10.1 | 13.4 | 14.3 | 17.6 | 17.8 | 20.1 | 42.5 | 20 |
| 22 | 35.0 | 32.5 | 32.0 | 9.2 | 12.3 | 13.2 | 16.2 | 16.3 | 18.4 | 37.3 | 22 |
| 24 | 30.0 | 28.1 | 27.6 | 8.3 | 11.4 | 12.1 | 15.2 | 14.9 | 16.9 | 32.9 | 24 |
| 26 | 26.4 | 24.5 | 24.0 | 7.7 | 10.6 | 11.0 | 14.4 | 13.8 | 15.6 | 29.2 | 26 |
| 28 | 23.3 | 21.4 | 21.0 | 7.2 | 9.9 | 10.3 | 13.4 | 12.7 | 14.5 | 26.1 | 28 |
| 30 | 20.8 | 18.9 | 18.4 | 6.8 | 9.2 | 9.6 | 12.6 | 12.0 | 13.6 | 23.5 | 30 |
| 32 | | | | 6.4 | 8.7 | 8.9 | 12.0 | 11.2 | 12.8 | 21.3 | 32 |
| 34 | | | | | 8.3 | 8.5 | 11.5 | 10.5 | 11.9 | 19.3 | 34 |
| 36 | | | | | 7.9 | 8.0 | 10.9 | 9.9 | 11.0 | 17.6 | 36 |
| Code | 0111100 | 1111000 | 1120000 | 0000033 | 0000122 | 0000221 | 0001112 | 0001211 | 0002111 | 0011111 | Code |
| n | 9 | 9 | 9 | 2 | 3 | 3 | 3 | 3 | 4 | 6 | n |

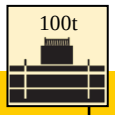



| m | 40.5 | 40.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 100.9 | 100.0 | | | | | | | | | 7 |
| 8 | 96.9 | 95.0 | 24.1 | 25.7 | 32.9 | 34.1 | 43.2 | 47.5 | 71.9 | 63.1 | 8 |
| 9 | 92.0 | 90.0 | 22.7 | 24.4 | 30.8 | 32.1 | 40.9 | 44.3 | 68.5 | 58.7 | 9 |
| 10 | 85.0 | 83.0 | 21.4 | 23.0 | 28.7 | 29.9 | 38.3 | 41.1 | 65.2 | 54.8 | 10 |
| 12 | 73.0 | 71.0 | 18.7 | 20.7 | 24.8 | 26.5 | 33.8 | 35.7 | 61.1 | 47.6 | 12 |
| 14 | 63.0 | 62.0 | 16.8 | 18.6 | 21.7 | 24.3 | 29.3 | 30.7 | 59.2 | 41.8 | 14 |
| 16 | 54.9 | 52.9 | 15.3 | 16.9 | 19.5 | 22.2 | 26.4 | 27.4 | 53.2 | 37.0 | 16 |
| 18 | 48.0 | 46.1 | 13.9 | 15.5 | 17.5 | 20.3 | 23.9 | 24.9 | 46.9 | 32.3 | 18 |
| 20 | 41.4 | 40.3 | 13.0 | 14.3 | 15.9 | 18.8 | 22.1 | 22.4 | 41.9 | 29.4 | 20 |
| 22 | 35.5 | 34.0 | 12.0 | 13.2 | 14.5 | 17.4 | 20.1 | 20.7 | 36.8 | 26.6 | 22 |
| 24 | 31.1 | 29.1 | 11.1 | 12.4 | 13.3 | 16.3 | 18.3 | 18.6 | 32.2 | 24.8 | 24 |
| 26 | 27.5 | 25.5 | 10.4 | 11.4 | 12.2 | 15.5 | 17.0 | 16.9 | 28.5 | 22.4 | 26 |
| 28 | 24.4 | 22.4 | 9.5 | 10.7 | 11.4 | 14.4 | 16.1 | 16.1 | 25.6 | 20.6 | 28 |
| 30 | 21.8 | 19.9 | 8.7 | 10.0 | 10.6 | 13.7 | 14.9 | 14.8 | 23.5 | 19.2 | 30 |
| 32 | 19.6 | 17.7 | 8.3 | 9.6 | 9.9 | 13.0 | 14.0 | 13.6 | 21.0 | 17.7 | 32 |
| 34 | 17.6 | 15.7 | 7.7 | 8.9 | 9.1 | 12.6 | 12.8 | 12.7 | 19.0 | 16.4 | 34 |
| 36 | 15.9 | 14.0 | 7.3 | 8.5 | 8.4 | 11.9 | 12.0 | 11.9 | 16.9 | 15.4 | 36 |
| 38 | | | 6.9 | 8.1 | 8.0 | 11.5 | 11.4 | 11.2 | 15.4 | 14.0 | 38 |
| 40 | | | 6.5 | 7.7 | 7.5 | 11.1 | 10.7 | 10.5 | 14.1 | 12.6 | 40 |
| Code | 0111110 | 1111100 | 0000222 | 0001122 | 0002211 | 0011112 | 0012111 | 0021111 | 0111111 | 0211110 | Code |
| n | 8 | 8 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 5 | n |

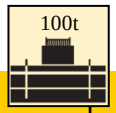

| m | 45.5 | 45.5 | 48.2 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 89.0 | 72.6 | | | | | | | | | 8 |
| 9 | 85.5 | 68.1 | 17.4 | 22.7 | 24.8 | 24.6 | 32.5 | 39.0 | 37.1 | 48.3 | 9 |
| 10 | 78.9 | 63.1 | 16.3 | 21.6 | 23.9 | 23.2 | 29.0 | 36.6 | 34.9 | 45.1 | 10 |
| 12 | 68.2 | 54.3 | 14.5 | 18.9 | 21.3 | 21.2 | 25.1 | 31.0 | 31.0 | 39.3 | 12 |
| 14 | 60.1 | 46.9 | 13.0 | 17.0 | 18.9 | 19.2 | 22.9 | 27.9 | 28.7 | 34.7 | 14 |
| 16 | 52.4 | 40.8 | 11.8 | 15.3 | 17.1 | 17.6 | 20.7 | 24.8 | 26.3 | 30.5 | 16 |
| 18 | 46.1 | 35.9 | 10.8 | 14.1 | 15.5 | 16.2 | 18.7 | 22.3 | 24.3 | 27.2 | 18 |
| 20 | 40.0 | 32.0 | 10.0 | 13.0 | 14.2 | 14.9 | 17.3 | 20.1 | 22.7 | 24.8 | 20 |
| 22 | 35.0 | 29.1 | 9.3 | 12.1 | 13.3 | 13.9 | 15.9 | 18.4 | 21.1 | 22.8 | 22 |
| 24 | 30.2 | 26.3 | 8.7 | 11.4 | 12.4 | 13.0 | 14.5 | 16.7 | 20.7 | 20.8 | 24 |
| 26 | 26.5 | 22.0 | 8.0 | 10.7 | 11.3 | 12.2 | 13.5 | 15.4 | 19.9 | 19.0 | 26 |
| 28 | 23.5 | 20.0 | 7.6 | 10.0 | 10.6 | 11.5 | 12.7 | 14.4 | 19.0 | 17.3 | 28 |
| 30 | 20.9 | 18.6 | 7.1 | 9.4 | 9.8 | 10.8 | 11.7 | 13.3 | 17.9 | 16.3 | 30 |
| 32 | 18.7 | 17.0 | 6.7 | 8.7 | 8.9 | 10.3 | 11.0 | 12.2 | 17.4 | 15.1 | 32 |
| 34 | 16.7 | 15.1 | 6.3 | 8.4 | 8.3 | 9.6 | 10.4 | 11.2 | 16.8 | 14.2 | 34 |
| 36 | 15.1 | 13.4 | 5.9 | 7.9 | 7.8 | 9.2 | 9.8 | 10.7 | 16.3 | 13.3 | 36 |
| 38 | 13.6 | 11.9 | 5.6 | 7.4 | 7.4 | 8.8 | 9.2 | 9.9 | 15.8 | 12.5 | 38 |
| 40 | 12.2 | 10.5 | 5.3 | 7.0 | 6.8 | 8.4 | 8.8 | 9.4 | 14.8 | 11.6 | 40 |
| 42 | | | 4.9 | 6.6 | 6.4 | 8.0 | 8.4 | 8.5 | 13.7 | 10.7 | 42 |
| 44 | | | | 6.2 | 6.0 | 7.6 | 8.0 | 8.1 | 12.6 | 9.9 | 44 |
| 46 | | | | 6.0 | 5.6 | 7.3 | 7.5 | 7.6 | 11.6 | 8.0 | 46 |
| Code | 1111110 | 2111100 | 0000333 | 0001222 | 0002221 | 0011122 | 0012112 | 0022111 | 0111112 | 0211111 | Code |
| n | 7 | 6 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | n |



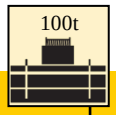

| m | 50.6 | 50.6 | 50.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 69.7 | 59.0 | 63.2 | | | | | | | | 9 |
| 10 | 66.3 | 55.6 | 58.7 | 20.5 | 21.6 | 26.5 | 39.4 | 43.8 | 40.2 | 39.5 | 10 |
| 12 | 63.2 | 49.5 | 52.3 | 17.7 | 20.4 | 24.5 | 35.9 | 38.1 | 36.2 | 35.8 | 12 |
| 14 | 56.4 | 44.3 | 45.7 | 16.0 | 19.0 | 22.5 | 32.4 | 33.8 | 32.6 | 32.4 | 14 |
| 16 | 52.3 | 39.9 | 41.1 | 14.6 | 17.4 | 20.6 | 29.8 | 30.5 | 30.4 | 30.2 | 16 |
| 18 | 46.6 | 35.5 | 33.7 | 13.2 | 16.1 | 19.0 | 28.1 | 28.0 | 28.3 | 28.1 | 18 |
| 20 | 41.8 | 32.1 | 30.0 | 12.1 | 15.0 | 17.9 | 26.3 | 25.5 | 26.6 | 26.4 | 20 |
| 22 | 36.1 | 29.3 | 27.4 | 11.3 | 14.0 | 16.6 | 24.5 | 23.1 | 24.8 | 24.6 | 22 |
| 24 | 31.9 | 26.9 | 24.6 | 10.6 | 12.9 | 15.5 | 22.1 | 21.2 | 23.1 | 22.9 | 24 |
| 26 | 28.2 | 25.0 | 22.5 | 9.8 | 12.2 | 14.7 | 20.2 | 19.4 | 22.1 | 21.9 | 26 |
| 28 | 25.0 | 23.0 | 20.2 | 9.1 | 11.5 | 13.9 | 18.8 | 18.0 | 21.3 | 20.6 | 28 |
| 30 | 22.5 | 20.6 | 20.4 | 8.6 | 10.8 | 13.0 | 17.5 | 16.5 | 20.4 | 19.7 | 30 |
| 32 | 20.8 | 18.3 | 17.9 | 8.2 | 10.0 | 12.3 | 16.4 | 15.2 | 19.4 | 18.8 | 32 |
| 34 | 18.3 | 16.4 | 16.0 | 7.7 | 9.3 | 11.8 | 15.1 | 14.2 | 18.4 | 17.8 | 34 |
| 36 | 16.0 | 14.7 | 14.3 | 7.3 | 8.9 | 11.1 | 14.1 | 13.3 | 16.8 | 16.7 | 36 |
| 38 | 14.5 | 13.2 | 12.9 | 7.0 | 8.2 | 10.4 | 13.1 | 12.3 | 15.3 | 15.2 | 38 |
| 40 | 13.2 | 11.9 | 11.5 | 6.5 | 7.8 | 10.0 | 12.5 | 11.3 | 14.0 | 13.8 | 40 |
| 42 | 12.0 | 10.7 | 10.3 | 6.1 | 7.4 | 9.6 | 11.6 | 10.6 | 12.8 | 12.6 | 42 |
| 44 | 10.9 | 9.6 | 9.3 | 5.8 | 7.0 | 9.3 | 11.0 | 10.1 | 11.7 | 11.6 | 44 |
| 46 | 9.9 | 8.6 | 8.3 | 5.5 | 6.6 | 8.9 | 10.5 | 9.2 | 10.7 | 10.6 | 46 |
| 48 | | | | 5.2 | 6.3 | 8.6 | 10.0 | 8.7 | 9.8 | 9.7 | 48 |
| 50 | | | | 4.8 | 6.1 | 8.4 | 9.4 | 8.1 | 9.0 | 8.9 | 50 |
| Code | 1111111 | 1211110 | 2111110 | 0002222 | 0012122 | 0111122 | 0211112 | 0221111 | 1111112 | 1111121 | Code |
| n | 6 | 5 | 5 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | n |



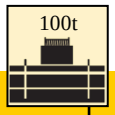

| m | 55.6 | 55.6 | 55.6 | 59.1 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 53.1 | 57.2 | 50.5 | | | | | | | | 10 |
| 12 | 47.6 | 49.2 | 45.3 | 13.2 | 17.2 | 19.8 | 19.4 | 32.5 | 27.8 | 37.4 | 12 |
| 14 | 42.7 | 44.0 | 41.2 | 12.3 | 16.6 | 18.4 | 18.0 | 30.5 | 25.7 | 31.4 | 14 |
| 16 | 37.2 | 39.5 | 35.2 | 11.1 | 14.9 | 16.5 | 16.9 | 27.8 | 23.5 | 29.1 | 16 |
| 18 | 33.8 | 35.5 | 32.0 | 10.1 | 13.8 | 15.0 | 15.9 | 26.0 | 22.1 | 26.9 | 18 |
| 20 | 27.3 | 31.8 | 28.2 | 9.3 | 12.7 | 13.8 | 14.8 | 23.4 | 20.4 | 24.6 | 20 |
| 22 | 24.8 | 29.0 | 25.3 | 8.7 | 11.6 | 12.8 | 13.8 | 21.5 | 19.4 | 22.5 | 22 |
| 24 | 23.4 | 27.0 | 22.4 | 8.0 | 10.8 | 11.7 | 12.8 | 19.6 | 18.1 | 20.9 | 24 |
| 26 | 21.8 | 24.5 | 20.5 | 7.3 | 10.1 | 10.9 | 12.1 | 17.9 | 17.1 | 19.6 | 26 |
| 28 | 20.3 | 23.0 | 18.6 | 7.0 | 9.4 | 10.2 | 11.4 | 16.7 | 16.2 | 18.1 | 28 |
| 30 | 18.8 | 18.5 | 17.0 | 6.5 | 8.8 | 9.4 | 10.7 | 15.5 | 15.3 | 17.0 | 30 |
| 32 | 18.6 | 16.8 | 15.3 | 6.2 | 8.4 | 9.0 | 10.1 | 14.3 | 14.8 | 16.1 | 32 |
| 34 | 17.3 | 15.5 | 14.2 | 5.9 | 7.9 | 8.5 | 9.4 | 13.4 | 13.9 | 15.1 | 34 |
| 36 | 15.6 | 14.0 | 13.0 | 5.6 | 7.5 | 8.1 | 8.9 | 12.4 | 13.4 | 14.2 | 36 |
| 38 | 14.1 | 12.8 | 11.5 | 5.3 | 7.1 | 7.6 | 8.5 | 11.4 | 12.9 | 13.2 | 38 |
| 40 | 12.8 | 11.5 | 10.2 | 5.0 | 6.7 | 7.1 | 8.0 | 10.4 | 12.0 | 12.6 | 40 |
| 42 | 11.6 | 11.3 | 10.1 | 4.8 | 6.5 | 6.7 | 7.6 | 9.9 | 11.5 | 11.7 | 42 |
| 44 | 10.5 | 10.2 | 9.0 | 4.6 | 6.2 | 6.3 | 7.4 | 9.4 | 11.0 | 11.0 | 44 |
| 46 | 9.6 | 9.2 | 8.1 | 4.4 | 5.8 | 5.9 | 7.0 | 8.7 | 10.5 | 10.0 | 46 |
| 48 | 8.7 | 8.3 | 7.2 | 4.2 | 5.6 | 5.5 | 6.6 | 8.1 | 10.1 | 9.1 | 48 |
| 50 | 7.9 | 7.5 | 6.4 | 3.9 | 5.4 | 5.2 | 6.4 | 7.6 | 9.5 | 8.3 | 50 |
| 52 | | | | 3.7 | 5.0 | 4.8 | 6.2 | 7.1 | 8.8 | 7.6 | 52 |
| 54 | | | | 3.5 | 4.8 | 4.6 | 6.0 | 6.5 | 8.1 | 6.9 | 54 |
| 56 | | | | | 4.6 | 4.3 | 5.8 | 6.2 | 7.4 | 6.3 | 56 |
| Code | 1211111 | 2111111 | 2211110 | 0003333 | 0012222 | 0022221 | 0111222 | 0222111 | 1111122 | 1122111 | Code |
| n | 5 | 5 | 4 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | n |



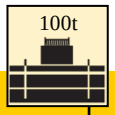

| m | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 65.7 | 65.7 | 65.7 | 65.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 36.5 | 42.0 | 36.9 | 41.6 | 40.6 | 43.5 | | | | | 12 |
| 14 | 34.0 | 34.6 | 34.7 | 36.7 | 35.8 | 35.4 | 15.1 | 16.4 | 20.2 | 20.3 | 14 |
| 16 | 32.1 | 32.6 | 32.3 | 34.0 | 32.2 | 33.3 | 14.3 | 15.5 | 19.3 | 19.1 | 16 |
| 18 | 30.1 | 29.8 | 30.3 | 31.3 | 29.6 | 30.0 | 13.0 | 14.7 | 17.5 | 17.5 | 18 |
| 20 | 28.2 | 27.2 | 28.5 | 28.0 | 27.2 | 27.1 | 12.0 | 13.8 | 16.0 | 16.1 | 20 |
| 22 | 23.2 | 23.3 | 26.6 | 25.8 | 25.3 | 25.1 | 11.0 | 12.7 | 14.8 | 14.8 | 22 |
| 24 | 21.5 | 22.0 | 24.9 | 23.7 | 23.1 | 23.2 | 10.3 | 11.9 | 13.7 | 13.8 | 24 |
| 26 | 20.5 | 20.5 | 23.0 | 21.0 | 21.2 | 21.2 | 9.6 | 11.2 | 12.9 | 12.8 | 26 |
| 28 | 19.1 | 19.4 | 20.0 | 19.3 | 19.5 | 19.6 | 8.9 | 10.5 | 12.1 | 12.1 | 28 |
| 30 | 17.5 | 18.2 | 18.6 | 17.8 | 18.0 | 18.1 | 8.3 | 9.8 | 11.3 | 11.4 | 30 |
| 32 | 16.3 | 16.9 | 17.0 | 16.2 | 15.5 | 15.0 | 7.9 | 9.2 | 10.6 | 10.7 | 32 |
| 34 | 15.9 | 15.7 | 15.8 | 14.8 | 14.4 | 13.8 | 7.4 | 8.7 | 10.0 | 10.1 | 34 |
| 36 | 15.5 | 14.7 | 14.5 | 13.5 | 13.1 | 12.6 | 7.0 | 8.3 | 9.5 | 9.3 | 36 |
| 38 | 14.7 | 13.7 | 13.5 | 12.3 | 12.0 | 11.6 | 6.7 | 7.8 | 9.0 | 8.6 | 38 |
| 40 | 13.9 | 12.6 | 12.3 | 11.0 | 11.0 | 10.1 | 6.3 | 7.4 | 8.6 | 8.1 | 40 |
| 42 | 12.7 | 11.6 | 11.1 | 9.6 | 9.6 | 8.9 | 6.0 | 7.0 | 8.1 | 7.5 | 42 |
| 44 | 11.5 | 10.5 | 10.5 | 9.0 | 9.0 | 8.3 | 5.8 | 6.6 | 7.7 | 7.1 | 44 |
| 46 | 10.5 | 9.5 | 10.0 | 8.3 | 8.0 | 7.8 | 5.5 | 6.3 | 7.3 | 6.7 | 46 |
| 48 | 9.6 | 8.6 | 9.1 | 7.5 | 7.0 | 7.3 | 5.3 | 6.0 | 6.8 | 6.3 | 48 |
| 50 | 8.8 | 7.8 | 8.3 | 6.8 | 6.7 | 6.4 | 5.1 | 5.8 | 6.4 | 5.9 | 50 |
| 52 | 8.0 | 7.1 | 7.6 | 6.3 | 6.2 | 5.7 | 4.7 | 5.6 | 6.1 | 5.5 | 52 |
| 54 | 7.3 | 6.4 | 6.9 | 5.8 | 5.7 | 5.0 | 4.5 | 5.2 | 5.8 | 5.1 | 54 |
| 56 | 6.5 | 5.7 | 6.2 | 5.2 | 5.0 | 4.4 | 4.3 | 5.0 | 5.4 | 4.8 | 56 |
| 58 | | | | | | | 4.0 | 4.7 | 5.1 | 4.5 | 58 |
| 60 | | | | | | | 3.8 | 4.7 | 4.9 | 4.3 | 60 |
| Code | 1211112 | 1221111 | 2111112 | 2211111 | 2211120 | 2221110 | 0022222 | 0112222 | 0122221 | 0222112 | Code |
| n | 3 | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | n |



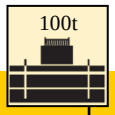

| m | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 70.1 | 70.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 25.7 | 20.1 | 26.7 | 25.2 | 29.4 | 32.3 | 33.8 | 31.3 | 10.4 | 14.9 | 14 |
| 16 | 24.2 | 19.2 | 25.2 | 23.5 | 27.2 | 31.2 | 30.5 | 29.3 | 10.4 | 14.2 | 16 |
| 18 | 22.1 | 18.1 | 23.0 | 22.5 | 25.3 | 30.1 | 27.5 | 26.0 | 10.0 | 13.6 | 18 |
| 20 | 20.3 | 17.0 | 21.7 | 21.2 | 23.4 | 27.4 | 25.8 | 23.9 | 9.2 | 12.6 | 20 |
| 22 | 18.6 | 16.0 | 20.4 | 19.9 | 21.4 | 25.6 | 23.2 | 21.8 | 8.6 | 11.6 | 22 |
| 24 | 17.2 | 15.0 | 19.0 | 19.0 | 19.7 | 23.6 | 21.3 | 19.7 | 7.7 | 10.8 | 24 |
| 26 | 16.0 | 14.2 | 17.6 | 18.1 | 19.1 | 21.7 | 20.0 | 18.1 | 7.2 | 10.1 | 26 |
| 28 | 15.1 | 13.4 | 16.2 | 17.2 | 17.8 | 20.3 | 18.0 | 16.5 | 6.7 | 9.0 | 28 |
| 30 | 14.2 | 12.6 | 15.2 | 16.2 | 17.0 | 19.2 | 17.2 | 15.7 | 6.3 | 8.6 | 30 |
| 32 | 13.2 | 12.0 | 14.3 | 15.5 | 16.5 | 17.0 | 16.1 | 14.5 | 6.0 | 8.1 | 32 |
| 34 | 12.3 | 11.3 | 13.3 | 14.8 | 16.0 | 14.5 | 14.4 | 12.8 | 5.7 | 7.7 | 34 |
| 36 | 11.5 | 10.6 | 12.8 | 14.4 | 15.0 | 13.5 | 13.4 | 12.0 | 5.4 | 7.2 | 36 |
| 38 | 10.6 | 10.1 | 11.7 | 13.8 | 14.0 | 12.6 | 12.4 | 11.2 | 5.0 | 6.8 | 38 |
| 40 | 10.1 | 9.5 | 11.1 | 13.5 | 11.9 | 11.5 | 11.3 | 10.3 | 4.7 | 6.5 | 40 |
| 42 | 9.5 | 9.1 | 10.2 | 12.6 | 11.1 | 10.5 | 10.1 | 9.4 | 4.6 | 6.3 | 42 |
| 44 | 8.6 | 8.8 | 9.8 | 11.9 | 10.6 | 9.3 | 9.1 | 8.5 | 4.3 | 5.9 | 44 |
| 46 | 8.1 | 8.4 | 9.3 | 11.0 | 10.1 | 8.7 | 8.1 | 7.6 | 4.1 | 5.7 | 46 |
| 48 | 7.6 | 8.1 | 8.8 | 10.1 | 9.3 | 8.0 | 7.3 | 6.9 | 3.9 | 5.4 | 48 |
| 50 | 7.1 | 7.7 | 8.2 | 9.3 | 8.5 | 7.2 | 6.4 | 6.1 | 3.8 | 5.2 | 50 |
| 52 | 6.6 | 7.5 | 7.9 | 8.5 | 7.8 | 6.5 | 5.8 | 5.4 | 3.6 | 5.0 | 52 |
| 54 | 6.3 | 7.2 | 7.2 | 7.8 | 7.1 | 6.1 | 5.8 | 4.7 | 3.4 | 4.8 | 54 |
| 56 | 5.8 | 6.8 | 6.6 | 7.2 | 6.4 | 5.7 | 5.2 | 4.1 | 3.4 | 4.6 | 56 |
| 58 | 5.5 | 6.3 | 6.0 | 6.6 | 5.8 | 5.3 | 4.6 | 3.7 | 3.3 | 4.4 | 58 |
| 60 | 5.1 | 5.8 | 5.5 | 6.0 | 5.3 | 4.8 | 4.0 | 3.2 | 3.1 | 4.1 | 60 |
| 62 | | | | | | | | | 2.9 | 4.1 | 62 |
| 64 | | | | | | | | | 2.7 | 3.8 | 64 |
| Code | 0222211 | 1111222 | 1122211 | 1211122 | 1221112 | 2211112 | 2221111 | 2222110 | 0033333 | 0122222 | Code |
| n | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 2 | n |



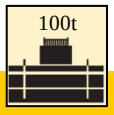

| m | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 72.5 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 17.1 | 18.0 | 21.5 | 21.0 | 21.8 | 23.4 | 27.1 | 24.8 | 22.9 | | 14 |
| 16 | 15.8 | 17.3 | 20.4 | 20.1 | 21.2 | 22.7 | 26.8 | 24.6 | 22.8 | 22.4 | 16 |
| 18 | 15.0 | 16.5 | 19.7 | 19.1 | 21.0 | 21.8 | 25.1 | 23.0 | 21.6 | 21.7 | 18 |
| 20 | 14.0 | 15.7 | 18.2 | 17.7 | 19.4 | 21.3 | 23.7 | 21.0 | 20.0 | 20.5 | 20 |
| 22 | 13.0 | 14.9 | 17.0 | 16.5 | 18.0 | 21.1 | 22.4 | 19.7 | 18.2 | 18.3 | 22 |
| 24 | 11.9 | 14.0 | 15.8 | 15.3 | 16.7 | 19.8 | 21.0 | 18.3 | 16.8 | 16.7 | 24 |
| 26 | 11.1 | 13.3 | 14.5 | 14.1 | 15.3 | 18.6 | 19.6 | 16.9 | 15.4 | 15.3 | 26 |
| 28 | 10.4 | 12.6 | 13.7 | 13.2 | 14.3 | 17.5 | 18.2 | 15.4 | 14.0 | 14.2 | 28 |
| 30 | 9.7 | 11.9 | 12.9 | 12.2 | 13.4 | 16.7 | 16.9 | 14.4 | 13.0 | 13.2 | 30 |
| 32 | 9.0 | 11.1 | 12.1 | 11.3 | 12.4 | 15.7 | 15.7 | 13.5 | 12.1 | 12.3 | 32 |
| 34 | 8.6 | 10.3 | 11.2 | 10.5 | 11.5 | 14.7 | 13.7 | 12.5 | 11.2 | 11.3 | 34 |
| 36 | 8.1 | 9.8 | 10.4 | 10.1 | 10.5 | 13.9 | 12.9 | 11.6 | 10.5 | 10.5 | 36 |
| 38 | 7.7 | 9.8 | 10.0 | 9.3 | 10.1 | 12.9 | 11.9 | 11.1 | 9.8 | 10.0 | 38 |
| 40 | 7.4 | 9.3 | 9.5 | 8.8 | 9.6 | 11.9 | 10.9 | 10.3 | 9.3 | 9.0 | 40 |
| 42 | 7.0 | 9.2 | 9.1 | 8.4 | 9.1 | 11.0 | 10.0 | 9.9 | 8.8 | 8.5 | 42 |
| 44 | 6.6 | 8.8 | 8.7 | 8.0 | 8.7 | 9.5 | 9.0 | 8.2 | 8.1 | 7.5 | 44 |
| 46 | 6.3 | 8.4 | 8.2 | 7.6 | 8.2 | 9.2 | 8.6 | 7.9 | 7.6 | 7.1 | 46 |
| 48 | 6.1 | 8.1 | 7.7 | 7.2 | 7.7 | 8.6 | 7.6 | 7.2 | 7.2 | 6.6 | 48 |
| 50 | 5.8 | 7.9 | 7.2 | 6.8 | 7.4 | 7.7 | 6.9 | 6.8 | 6.7 | 6.3 | 50 |
| 52 | 5.3 | 7.7 | 6.7 | 6.4 | 7.2 | 7.0 | 6.3 | 6.0 | 6.4 | 5.9 | 52 |
| 54 | 5.0 | 7.2 | 6.3 | 6.1 | 6.7 | 6.3 | 5.7 | 5.3 | 5.0 | 5.6 | 54 |
| 56 | 4.7 | 6.9 | 5.8 | 5.6 | 6.1 | 6.4 | 5.3 | 4.8 | 4.5 | 5.0 | 56 |
| 58 | 4.4 | 6.6 | 5.3 | 5.1 | 5.6 | 5.8 | 4.8 | 4.3 | 4.0 | 4.4 | 58 |
| 60 | 4.2 | 6.4 | 4.8 | 4.6 | 5.0 | 5.3 | 4.3 | 3.9 | 3.6 | 3.9 | 60 |
| 62 | 4.0 | 6.1 | 4.4 | 4.1 | 4.5 | 4.8 | 3.8 | 3.4 | 3.1 | 3.4 | 62 |
| 64 | 3.7 | 5.6 | 3.9 | 3.7 | 4.0 | 4.3 | 3.5 | 3.0 | 2.6 | 2.9 | 64 |
| 66 | | | | | | | | | | 2.4 | 66 |
| Code | 0222122 | 1112222 | 1222112 | 1222211 | 1222220 | 2211122 | 2221112 | 2222111 | 2222210 | 3322210 | Code |
| n | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | n |



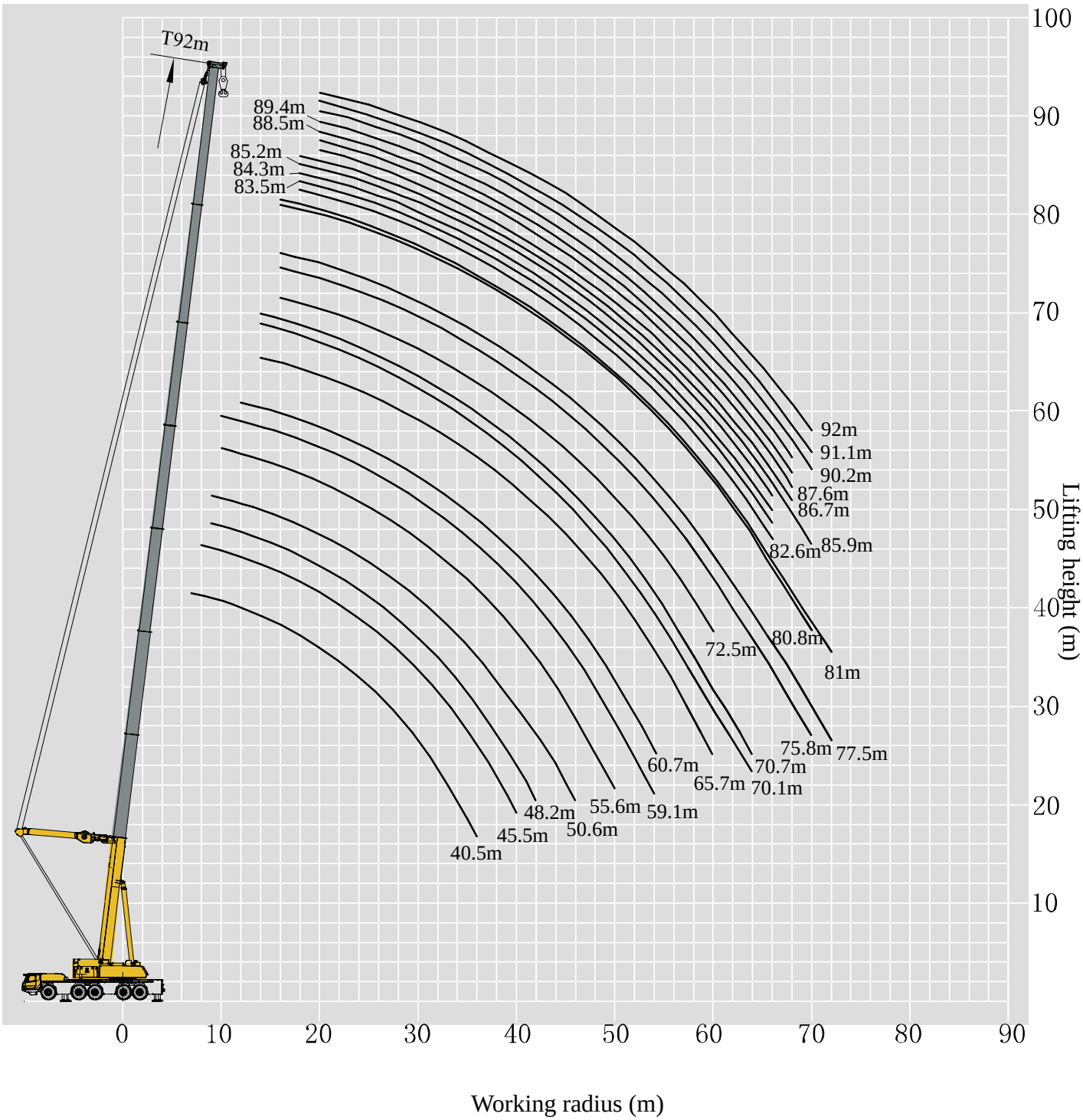

| m | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 77.5 | 80.8 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 12.8 | 13.5 | 16.2 | 19.3 | 19.9 | 22.1 | 20.2 | 19.5 | 13.5 | | 16 |
| 18 | 12.6 | 13.2 | 16.1 | 18.5 | 19.4 | 22.1 | 20.2 | 19.5 | 13.5 | 15.5 | 18 |
| 20 | 12.2 | 12.7 | 15.7 | 17.8 | 18.9 | 21.5 | 19.7 | 19.1 | 13.2 | 15.5 | 20 |
| 22 | 11.3 | 12.2 | 14.6 | 16.9 | 18.0 | 20.0 | 18.1 | 17.6 | 12.5 | 15.4 | 22 |
| 24 | 10.6 | 11.5 | 13.4 | 16.2 | 16.6 | 19.2 | 16.4 | 16.2 | 11.8 | 14.5 | 24 |
| 26 | 9.7 | 10.8 | 12.5 | 15.5 | 15.3 | 18.0 | 15.3 | 14.8 | 10.9 | 13.5 | 26 |
| 28 | 8.9 | 10.1 | 11.7 | 14.5 | 14.4 | 17.0 | 14.2 | 13.7 | 9.8 | 12.1 | 28 |
| 30 | 8.3 | 9.3 | 10.9 | 13.5 | 13.2 | 16.0 | 12.9 | 12.7 | 9.2 | 11.3 | 30 |
| 32 | 7.9 | 8.6 | 10.0 | 12.6 | 12.1 | 14.7 | 12.0 | 11.5 | 8.6 | 10.6 | 32 |
| 34 | 7.4 | 8.2 | 9.4 | 11.7 | 11.5 | 14.0 | 11.2 | 10.7 | 8.2 | 10.1 | 34 |
| 36 | 7.0 | 7.7 | 8.8 | 11.2 | 10.7 | 12.7 | 10.5 | 10.2 | 7.8 | 9.4 | 36 |
| 38 | 6.7 | 7.4 | 8.4 | 10.7 | 10.2 | 11.8 | 9.7 | 9.5 | 7.2 | 8.9 | 38 |
| 40 | 6.3 | 7.0 | 8.0 | 10.6 | 9.7 | 10.9 | 9.2 | 9.1 | 6.8 | 8.4 | 40 |
| 42 | 5.9 | 6.6 | 7.6 | 10.1 | 9.2 | 10.2 | 8.8 | 8.6 | 6.5 | 7.9 | 42 |
| 44 | 5.7 | 6.3 | 7.2 | 9.6 | 8.7 | 9.4 | 8.3 | 8.1 | 6.2 | 7.6 | 44 |
| 46 | 5.4 | 6.0 | 6.7 | 9.0 | 8.2 | 8.1 | 7.8 | 7.6 | 5.9 | 7.1 | 46 |
| 48 | 5.1 | 5.8 | 6.3 | 8.7 | 7.9 | 7.1 | 7.2 | 7.0 | 5.6 | 6.9 | 48 |
| 50 | 4.9 | 5.5 | 6.0 | 8.4 | 7.4 | 6.8 | 6.9 | 6.5 | 5.4 | 6.6 | 50 |
| 52 | 4.8 | 5.4 | 5.8 | 7.9 | 7.1 | 6.1 | 6.5 | 6.2 | 5.1 | 6.2 | 52 |
| 54 | 4.6 | 5.1 | 5.6 | 7.8 | 6.8 | 5.7 | 6.3 | 5.9 | 4.9 | 5.9 | 54 |
| 56 | 4.4 | 4.9 | 5.4 | 6.4 | 5.7 | 5.1 | 4.8 | 4.9 | 4.7 | 5.6 | 56 |
| 58 | 4.2 | 4.7 | 5.2 | 5.9 | 5.3 | 4.6 | 4.5 | 4.6 | 4.5 | 5.5 | 58 |
| 60 | 4.0 | 4.5 | 4.8 | 5.4 | 5.0 | 4.2 | 4.0 | 4.1 | 4.3 | 5.4 | 60 |
| 62 | 3.8 | 4.3 | 4.5 | 5.0 | 4.6 | 3.8 | 3.6 | 3.6 | 4.1 | 5.1 | 62 |
| 64 | 3.6 | 4.1 | 4.1 | 4.7 | 4.3 | 3.3 | 3.2 | 3.0 | 3.8 | 4.8 | 64 |
| 66 | 3.3 | 3.9 | 3.7 | 4.3 | 3.9 | 3.0 | 2.8 | 2.7 | 3.6 | 4.6 | 66 |
| 68 | 3.1 | 3.5 | 3.3 | 4.0 | 3.5 | 2.6 | 2.5 | 2.3 | 3.3 | 4.2 | 68 |
| 70 | 2.9 | 3.2 | 3.0 | 3.6 | 3.1 | 2.3 | 2.1 | 2.0 | 3.2 | 3.8 | 70 |
| 72 | | | | | | | | | 3.0 | 3.4 | 72 |
| 74 | | | | | | | | | | 3.1 | 74 |
| 76 | | | | | | | | | | 2.8 | 76 |
| Code | 0222222 | 1122222 | 1222221 | 2112222 | 2122221 | 2222112 | 2222211 | 2222220 | 0332222 | 1222222 | Code |
| n | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | n |

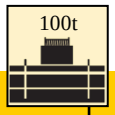



| m | 80.8 | 80.8 | 80.8 | 81 | 82.6 | 83.5 | 84.3 | 85.2 | 85.9 | 86.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | 16.2 | 16.6 | 16.5 | 8.6 | 15.3 | 14.4 | 13.8 | 13.3 | 13.4 | | 18 |
| 20 | 16.2 | 16.5 | 16.5 | 8.6 | 15.3 | 14.4 | 13.8 | 13.3 | 13.4 | 13.5 | 20 |
| 22 | 16.2 | 16.2 | 16.1 | 8.6 | 15.3 | 14.4 | 13.8 | 13.3 | 13.4 | 13.5 | 22 |
| 24 | 15.8 | 15.8 | 14.8 | 7.9 | 14.5 | 13.8 | 13.5 | 12.8 | 13.1 | 13.1 | 24 |
| 26 | 14.5 | 15.3 | 13.8 | 7.2 | 13.4 | 12.8 | 12.4 | 12.0 | 12.7 | 12.3 | 26 |
| 28 | 13.0 | 14.7 | 12.5 | 6.7 | 12.1 | 11.7 | 11.2 | 11.1 | 12.6 | 11.6 | 28 |
| 30 | 12.4 | 13.8 | 11.4 | 6.3 | 11.2 | 10.7 | 10.4 | 10.2 | 12.2 | 10.9 | 30 |
| 32 | 11.4 | 13.1 | 10.9 | 5.9 | 10.5 | 9.9 | 9.7 | 9.6 | 11.8 | 10.2 | 32 |
| 34 | 10.9 | 12.4 | 10.0 | 5.5 | 9.7 | 9.4 | 9.2 | 8.9 | 11.3 | 9.5 | 34 |
| 36 | 10.4 | 11.7 | 9.5 | 5.2 | 9.2 | 8.7 | 8.6 | 8.4 | 10.7 | 8.9 | 36 |
| 38 | 9.6 | 10.8 | 9.0 | 4.9 | 8.5 | 8.2 | 8.0 | 7.8 | 10.2 | 8.2 | 38 |
| 40 | 9.1 | 10.2 | 8.5 | 4.7 | 8.0 | 7.7 | 7.5 | 7.3 | 9.7 | 7.7 | 40 |
| 42 | 8.6 | 9.6 | 8.0 | 4.4 | 7.5 | 7.2 | 7.0 | 6.8 | 9.1 | 7.3 | 42 |
| 44 | 8.3 | 9.1 | 7.5 | 4.2 | 7.0 | 6.7 | 6.5 | 6.3 | 8.7 | 7.0 | 44 |
| 46 | 7.8 | 8.7 | 7.0 | 3.9 | 6.7 | 6.2 | 6.2 | 6.0 | 8.4 | 6.6 | 46 |
| 48 | 7.5 | 7.7 | 6.5 | 3.8 | 6.2 | 5.9 | 5.8 | 5.6 | 7.4 | 6.2 | 48 |
| 50 | 7.3 | 7.2 | 6.3 | 3.6 | 5.9 | 5.5 | 5.5 | 5.2 | 7.0 | 5.8 | 50 |
| 52 | 7.2 | 6.8 | 6.0 | 3.5 | 5.7 | 5.2 | 5.0 | 5.0 | 6.6 | 5.5 | 52 |
| 54 | 6.9 | 5.7 | 5.5 | 3.3 | 5.2 | 5.0 | 4.7 | 4.8 | 6.2 | 5.3 | 54 |
| 56 | 6.4 | 5.3 | 5.3 | 3.1 | 4.9 | 4.7 | 4.5 | 4.5 | 5.5 | 5.0 | 56 |
| 58 | 6.0 | 4.9 | 4.7 | 3.0 | 4.2 | 4.5 | 4.2 | 4.3 | 5.0 | 4.8 | 58 |
| 60 | 5.7 | 4.6 | 4.4 | 2.9 | 3.9 | 4.2 | 4.0 | 4.0 | 4.5 | 4.2 | 60 |
| 62 | 5.6 | 4.2 | 4.2 | 2.8 | 3.7 | 3.9 | 4.0 | 3.7 | 4.2 | 3.9 | 62 |
| 64 | 5.4 | 3.8 | 3.8 | 2.6 | 3.5 | 3.6 | 3.7 | 3.4 | 3.9 | 3.9 | 64 |
| 66 | 4.4 | 3.5 | 3.1 | 2.6 | 2.8 | 2.9 | 2.8 | 2.8 | 3.4 | 3.5 | 66 |
| 68 | 4.0 | 3.1 | 2.9 | 2.4 | 2.6 | 2.6 | 2.6 | 2.6 | 3.0 | 3.0 | 68 |
| 70 | 3.6 | 2.7 | 2.5 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.9 | 2.9 | 70 |
| 72 | 3.2 | 2.4 | 2.1 | 2.1 | 2.0 | | | | 2.6 | 2.6 | 72 |
| 74 | 2.9 | 2.0 | | 2.1 | | | | | 2.1 | 2.2 | 74 |
| 76 | 2.5 | | | | | | | | | | 76 |
| Code | 2122222 | 2222122 | 2222221 | 0333333 | 3322221 | 3332221 | 3333221 | 3333321 | 2222222 | 3222222 | Code |
| n | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | n |

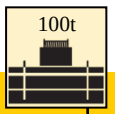


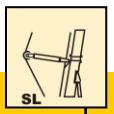

| m | 87.6 | 88.5 | 89.4 | 90.2 | 91.1 | 92 | m |
|---|---|---|---|---|---|---|---|
| 20 | 11.6 | 11.5 | 11.0 | 10.8 | | | 20 |
| 22 | 11.6 | 11.5 | 11.0 | 10.8 | 10.3 | 10.5 | 22 |
| 24 | 11.6 | 11.5 | 11.0 | 10.8 | 10.3 | 10.5 | 24 |
| 26 | 11.6 | 11.5 | 11.0 | 10.8 | 10.3 | 10.5 | 26 |
| 28 | 10.9 | 11.2 | 10.8 | 10.8 | 10.3 | 10.5 | 28 |
| 30 | 10.2 | 10.5 | 10.1 | 10.3 | 9.7 | 10.2 | 30 |
| 32 | 9.8 | 9.7 | 9.6 | 10.0 | 9.2 | 9.8 | 32 |
| 34 | 9.5 | 9.0 | 8.9 | 9.8 | 8.5 | 9.3 | 34 |
| 36 | 9.2 | 8.5 | 8.4 | 9.2 | 7.9 | 8.9 | 36 |
| 38 | 9.0 | 8.0 | 7.9 | 8.8 | 7.4 | 8.6 | 38 |
| 40 | 8.6 | 7.5 | 7.4 | 8.7 | 6.9 | 8.4 | 40 |
| 42 | 8.2 | 7.0 | 6.9 | 8.3 | 6.7 | 8.0 | 42 |
| 44 | 7.8 | 6.5 | 6.4 | 7.9 | 6.2 | 7.7 | 44 |
| 46 | 7.5 | 6.2 | 6.1 | 7.7 | 5.9 | 7.4 | 46 |
| 48 | 7.2 | 5.8 | 5.6 | 7.0 | 5.4 | 7.0 | 48 |
| 50 | 7.0 | 5.5 | 5.4 | 6.8 | 5.2 | 6.7 | 50 |
| 52 | 6.6 | 5.3 | 5.1 | 6.4 | 4.9 | 6.4 | 52 |
| 54 | 6.2 | 5.0 | 4.9 | 6.0 | 4.6 | 6.1 | 54 |
| 56 | 5.4 | 4.7 | 4.6 | 5.5 | 4.4 | 5.7 | 56 |
| 58 | 5.0 | 4.5 | 4.3 | 5.0 | 4.1 | 5.3 | 58 |
| 60 | 4.3 | 4.2 | 4.1 | 4.1 | 3.8 | 4.8 | 60 |
| 62 | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 4.1 | 62 |
| 64 | 3.6 | 3.7 | 3.7 | 3.4 | 3.4 | 3.8 | 64 |
| 66 | 3.2 | 3.6 | 3.5 | 3.3 | 3.3 | 3.5 | 66 |
| 68 | 2.8 | 2.9 | 2.8 | 2.9 | 3.1 | 3.1 | 68 |
| 70 | 2.6 | 2.8 | 2.6 | 2.7 | 2.6 | 2.7 | 70 |
| 72 | 2.3 | 2.4 | 2.4 | 2.6 | 2.5 | 2.7 | 72 |
| 74 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.1 | 74 |
| 76 | | | | | | 1.8 | 76 |
| Code | 3322222 | 3332222 | 3333222 | 3333322 | 3333332 | 3333333 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | n |


T92m
89.4m
88.5m
85.2m
84.3m
83.5m
92m
91.1m
90.2m
87.6m
86.7m
85.9m
82.6m
80.8m
81m
72.5m
75.8m
77.5m
60.7m
70.7m
65.7m
70.1m
59.1m
55.6m
48.2m
50.6m
45.5m
40.5m
0
10
20
30
40
50
60
70
80
90
100
Lifting height (m)
Working radius (m)

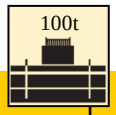



| m | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 45.5 | 45.5 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 91.9 | 94.4 | 97.1 | 98.6 | 100.3 | 100.3 | 99.4 | 97.5 | | | 7 |
| 8 | 84.9 | 88.0 | 89.9 | 98.0 | 99.0 | 98.0 | 97.0 | 96.0 | 78.5 | 80.0 | 8 |
| 9 | 79.4 | 81.7 | 89.1 | 90.0 | 90.0 | 89.0 | 88.0 | 87.0 | 73.9 | 75.5 | 9 |
| 10 | 74.3 | 76.3 | 82.2 | 82.0 | 82.0 | 82.0 | 81.0 | 79.0 | 69.3 | 70.9 | 10 |
| 12 | 70.3 | 70.3 | 70.3 | 70.0 | 70.0 | 70.0 | 68.0 | 67.0 | 61.8 | 63.4 | 12 |
| 14 | 61.4 | 60.4 | 60.4 | 61.0 | 60.0 | 60.0 | 59.0 | 57.0 | 55.2 | 61.0 | 14 |
| 16 | 53.5 | 53.5 | 53.5 | 53.0 | 53.0 | 53.0 | 51.0 | 50.0 | 50.1 | 54.0 | 16 |
| 18 | 47.5 | 47.5 | 47.5 | 47.0 | 47.0 | 46.0 | 45.0 | 43.0 | 47.5 | 48.0 | 18 |
| 20 | 42.6 | 42.6 | 41.6 | 42.0 | 42.0 | 40.0 | 39.0 | 37.0 | 42.6 | 43.0 | 20 |
| 22 | 37.6 | 36.6 | 36.6 | 37.0 | 36.0 | 36.0 | 35.0 | 32.3 | 37.6 | 37.0 | 22 |
| 24 | 33.7 | 33.3 | 33.3 | 32.3 | 32.3 | 32.3 | 30.4 | 28.8 | 33.7 | 34.0 | 24 |
| 26 | 30.7 | 29.8 | 29.8 | 28.8 | 28.8 | 29.4 | 26.9 | 24.4 | 30.7 | 30.4 | 26 |
| 28 | 27.8 | 26.3 | 26.3 | 26.3 | 25.4 | 25.9 | 23.5 | 20.9 | 28.7 | 26.9 | 28 |
| 30 | 24.4 | 23.0 | 22.9 | 22.4 | 22.0 | 22.6 | 20.0 | 18.0 | 25.0 | 24.4 | 30 |
| 32 | 21.1 | 20.5 | 20.4 | 19.9 | 19.6 | 19.2 | 17.5 | 15.6 | 22.6 | 21.5 | 32 |
| 34 | 18.9 | 18.3 | 18.2 | 17.7 | 17.4 | 17.0 | 15.3 | 13.4 | 19.6 | 19.3 | 34 |
| 36 | 16.1 | 16.1 | 15.9 | 15.2 | 15.2 | 14.3 | 13.2 | 11.5 | 17.7 | 17.4 | 36 |
| 38 | | | | | | | | | 16.0 | 15.7 | 38 |
| 40 | | | | | | | | | 14.5 | 14.2 | 40 |
| Code | 0000122 | 0000221 | 0001112 | 0001211 | 0002111 | 0011111 | 0111110 | 1111100 | 0000222 | 0001122 | Code |
| n | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | n |





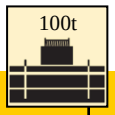

| m | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 48.2 | 50.6 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 84.8 | 85.9 | 89.0 | 89.0 | 88.3 | 87.4 | 88.8 | 87.9 | 60.3 | | 8 |
| 9 | 79.1 | 80.4 | 88.0 | 88.0 | 88.0 | 87.0 | 86.0 | 85.0 | 56.5 | 68.6 | 9 |
| 10 | 74.4 | 80.2 | 81.0 | 81.0 | 80.0 | 79.0 | 79.0 | 77.0 | 53.4 | 64.7 | 10 |
| 12 | 69.0 | 69.0 | 69.0 | 69.0 | 68.0 | 67.0 | 67.0 | 65.0 | 47.8 | 57.7 | 12 |
| 14 | 60.0 | 60.0 | 60.0 | 59.0 | 59.0 | 58.0 | 57.0 | 56.0 | 42.8 | 51.8 | 14 |
| 16 | 53.0 | 53.0 | 52.0 | 52.0 | 52.0 | 50.0 | 50.0 | 49.0 | 38.6 | 47.2 | 16 |
| 18 | 47.0 | 47.0 | 46.0 | 46.0 | 46.0 | 44.0 | 44.0 | 43.0 | 35.1 | 42.8 | 18 |
| 20 | 40.0 | 42.0 | 40.0 | 40.0 | 39.0 | 38.0 | 38.0 | 36.0 | 32.3 | 38.7 | 20 |
| 22 | 36.0 | 37.0 | 36.0 | 36.0 | 35.0 | 34.0 | 33.3 | 31.4 | 28.5 | 37.0 | 22 |
| 24 | 33.0 | 33.0 | 33.0 | 32.0 | 31.4 | 30.4 | 28.8 | 27.8 | 25.5 | 34.0 | 24 |
| 26 | 29.4 | 29.4 | 29.4 | 28.4 | 27.8 | 26.9 | 25.4 | 24.4 | 23.3 | 31.0 | 26 |
| 28 | 25.9 | 26.9 | 25.9 | 25.9 | 24.4 | 23.5 | 22.4 | 20.7 | 21.8 | 28.0 | 28 |
| 30 | 23.5 | 23.5 | 22.6 | 22.6 | 21.5 | 20.2 | 19.6 | 17.9 | 19.5 | 25.5 | 30 |
| 32 | 20.4 | 20.6 | 19.8 | 19.5 | 19.1 | 17.6 | 17.2 | 15.5 | 18.0 | 23.0 | 32 |
| 34 | 18.3 | 18.4 | 17.6 | 17.3 | 16.9 | 15.4 | 15.0 | 13.3 | 16.5 | 20.7 | 34 |
| 36 | 16.4 | 16.5 | 15.8 | 15.4 | 15.0 | 13.6 | 13.2 | 11.5 | 15.1 | 18.4 | 36 |
| 38 | 14.7 | 14.8 | 14.1 | 13.7 | 13.4 | 11.9 | 11.5 | 9.8 | 13.7 | 16.7 | 38 |
| 40 | 13.2 | 13.3 | 12.5 | 12.2 | 11.8 | 10.4 | 10.0 | 8.3 | 12.4 | 14.8 | 40 |
| 42 | | | | | | | | | 11.3 | 13.4 | 42 |
| 44 | | | | | | | | | | 12.2 | 44 |
| Code | 0002211 | 0011112 | 0012111 | 0021111 | 0111111 | 0211110 | 1111110 | 2111100 | 0000333 | 0001222 | Code |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | n |

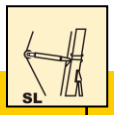



| m | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 55.6 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 70.9 | 71.0 | 73.4 | 76.5 | 75.5 | 76.8 | 76.8 | 75.9 | 75.0 | | 9 |
| 10 | 66.4 | 67.2 | 69.2 | 72.1 | 72.3 | 76.8 | 75.7 | 74.7 | 74.7 | 60.4 | 10 |
| 12 | 58.9 | 60.2 | 61.9 | 68.0 | 68.0 | 67.0 | 67.0 | 66.0 | 65.0 | 54.2 | 12 |
| 14 | 52.7 | 54.0 | 55.4 | 59.0 | 59.0 | 58.0 | 58.0 | 57.0 | 56.0 | 48.8 | 14 |
| 16 | 47.7 | 50.2 | 52.0 | 53.4 | 52.0 | 51.0 | 50.0 | 49.0 | 49.0 | 44.2 | 16 |
| 18 | 47.0 | 47.0 | 46.0 | 46.0 | 46.0 | 45.0 | 44.0 | 43.0 | 43.0 | 40.4 | 18 |
| 20 | 40.0 | 42.0 | 40.0 | 39.0 | 40.0 | 39.0 | 38.0 | 37.0 | 37.0 | 35.4 | 20 |
| 22 | 37.0 | 37.0 | 36.0 | 35.0 | 36.0 | 35.0 | 34.0 | 33.0 | 33.0 | 33.8 | 22 |
| 24 | 33.0 | 33.0 | 33.0 | 32.0 | 32.0 | 31.0 | 31.0 | 29.4 | 30.0 | 33.0 | 24 |
| 26 | 30.0 | 30.0 | 30.0 | 29.0 | 29.0 | 28.0 | 27.4 | 25.9 | 26.5 | 31.0 | 26 |
| 28 | 28.0 | 27.4 | 26.5 | 26.5 | 26.5 | 25.5 | 24.0 | 22.6 | 23.0 | 28.0 | 28 |
| 30 | 24.5 | 25.0 | 24.0 | 23.0 | 24.0 | 22.1 | 21.6 | 19.7 | 19.7 | 26.0 | 30 |
| 32 | 22.1 | 21.6 | 21.6 | 20.7 | 20.7 | 19.7 | 18.6 | 17.2 | 16.9 | 23.5 | 32 |
| 34 | 19.7 | 19.3 | 18.8 | 17.8 | 18.2 | 16.8 | 16.4 | 15.1 | 14.7 | 21.1 | 34 |
| 36 | 17.3 | 17.4 | 16.9 | 15.9 | 16.3 | 14.9 | 14.6 | 13.3 | 12.9 | 18.8 | 36 |
| 38 | 15.6 | 15.7 | 15.2 | 14.3 | 14.6 | 13.3 | 12.9 | 11.6 | 11.2 | 16.9 | 38 |
| 40 | 14.1 | 14.2 | 13.7 | 12.8 | 13.1 | 11.8 | 11.4 | 10.1 | 9.8 | 15.6 | 40 |
| 42 | 12.8 | 12.9 | 12.4 | 11.4 | 11.8 | 10.5 | 10.1 | 8.8 | 8.4 | 13.7 | 42 |
| 44 | 11.5 | 11.7 | 11.2 | 10.2 | 10.5 | 9.2 | 8.9 | 7.6 | 7.2 | 12.5 | 44 |
| 46 | | | | | | | | | | 11.3 | 46 |
| 48 | | | | | | | | | | 10.3 | 48 |
| 50 | | | | | | | | | | 9.4 | 50 |
| Code | 0002221 | 0011122 | 0012112 | 0022111 | 0111112 | 0211111 | 1111111 | 1211110 | 2111110 | 0002222 | Code |
| n | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | n |

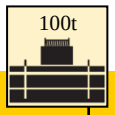
## Load charts - counterweight in the rear – super lift 35° deployed angle

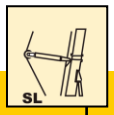
**T 55.6~59.1m**






| m | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 59.1 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 62.6 | 63.8 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 45.4 | 10 |
| 12 | 55.5 | 57.6 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 63.5 | 62.5 | 40.9 | 12 |
| 14 | 50.2 | 52.3 | 58.0 | 57.0 | 58.0 | 57.0 | 57.0 | 56.0 | 55.0 | 37.1 | 14 |
| 16 | 46.4 | 47.8 | 51.0 | 50.0 | 51.0 | 50.0 | 50.0 | 49.0 | 48.0 | 34.0 | 16 |
| 18 | 42.0 | 46.0 | 45.0 | 44.0 | 45.0 | 45.0 | 44.0 | 43.0 | 42.0 | 31.0 | 18 |
| 20 | 40.0 | 40.0 | 39.0 | 38.0 | 38.0 | 38.0 | 37.0 | 37.0 | 36.0 | 27.2 | 20 |
| 22 | 36.0 | 36.0 | 35.0 | 34.0 | 35.0 | 35.0 | 34.0 | 33.0 | 32.0 | 25.5 | 22 |
| 24 | 33.0 | 32.0 | 32.0 | 31.0 | 31.0 | 31.0 | 30.0 | 30.0 | 29.0 | 23.3 | 24 |
| 26 | 30.0 | 30.0 | 29.0 | 28.0 | 28.4 | 28.0 | 27.0 | 27.0 | 25.5 | 22.1 | 26 |
| 28 | 28.0 | 27.0 | 25.5 | 24.5 | 25.0 | 25.5 | 24.5 | 24.5 | 22.1 | 20.6 | 28 |
| 30 | 24.5 | 24.5 | 23.0 | 22.1 | 22.6 | 22.1 | 22.1 | 21.1 | 19.7 | 19.5 | 30 |
| 32 | 22.1 | 22.1 | 20.7 | 19.7 | 19.7 | 19.7 | 18.8 | 18.8 | 16.9 | 18.0 | 32 |
| 34 | 19.7 | 19.7 | 17.9 | 17.0 | 17.6 | 17.4 | 16.4 | 16.0 | 14.8 | 16.5 | 34 |
| 36 | 17.7 | 17.1 | 16.0 | 15.2 | 15.7 | 15.5 | 14.5 | 14.2 | 13.0 | 15.0 | 36 |
| 38 | 16.0 | 15.4 | 14.4 | 13.5 | 14.1 | 13.9 | 12.9 | 12.5 | 11.3 | 14.0 | 38 |
| 40 | 14.5 | 13.9 | 12.9 | 12.0 | 12.6 | 12.4 | 11.4 | 11.0 | 9.9 | 12.8 | 40 |
| 42 | 13.2 | 12.6 | 11.6 | 10.7 | 11.2 | 11.1 | 10.1 | 9.7 | 8.5 | 11.7 | 42 |
| 44 | 12.0 | 11.4 | 10.4 | 9.5 | 10.0 | 9.9 | 8.9 | 8.5 | 7.3 | 10.7 | 44 |
| 46 | 10.8 | 10.3 | 9.3 | 8.4 | 8.9 | 8.8 | 7.8 | 7.4 | 6.3 | 9.7 | 46 |
| 48 | 9.8 | 9.3 | 8.3 | 7.4 | 7.9 | 7.8 | 6.8 | 6.4 | 5.3 | 8.9 | 48 |
| 50 | 8.9 | 8.3 | 7.3 | 6.5 | 7.0 | 6.8 | 5.8 | 5.5 | 4.3 | 8.1 | 50 |
| 52 | | | | | | | | | | 7.4 | 52 |
| 54 | | | | | | | | | | 6.8 | 54 |
| Code | 0012122 | 0111122 | 0211112 | 0221111 | 1111112 | 1111121 | 1211111 | 2111111 | 2211110 | 0003333 | Code |
| n | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | n |

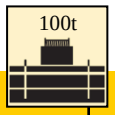


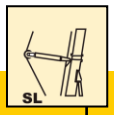



| m | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 51.5 | 53.0 | 52.8 | 58.8 | 55.8 | 60.9 | 61.3 | 64.4 | 61.1 | 63.4 | 12 |
| 14 | 47.1 | 48.2 | 48.1 | 52.8 | 50.4 | 56.0 | 57.0 | 56.0 | 56.0 | 55.0 | 14 |
| 16 | 42.5 | 44.3 | 43.4 | 50.0 | 50.0 | 49.0 | 50.0 | 49.0 | 49.0 | 49.0 | 16 |
| 18 | 39.3 | 40.6 | 40.5 | 44.0 | 45.0 | 44.0 | 44.0 | 43.0 | 44.0 | 43.0 | 18 |
| 20 | 34.5 | 35.6 | 35.4 | 38.0 | 38.6 | 37.0 | 38.0 | 37.0 | 37.0 | 37.0 | 20 |
| 22 | 32.1 | 32.2 | 32.4 | 34.0 | 35.0 | 34.0 | 34.0 | 33.0 | 34.0 | 33.0 | 22 |
| 24 | 29.4 | 32.0 | 32.0 | 31.0 | 31.0 | 30.0 | 31.0 | 30.0 | 30.0 | 30.0 | 24 |
| 26 | 27.8 | 29.0 | 30.0 | 28.0 | 29.0 | 28.0 | 28.0 | 27.0 | 28.0 | 27.0 | 26 |
| 28 | 26.5 | 27.0 | 27.0 | 25.0 | 26.0 | 25.0 | 25.0 | 24.5 | 24.5 | 23.5 | 28 |
| 30 | 25.0 | 25.0 | 25.0 | 22.5 | 24.0 | 22.5 | 22.5 | 21.1 | 22.1 | 21.1 | 30 |
| 32 | 23.0 | 22.5 | 22.5 | 20.2 | 21.6 | 20.2 | 20.2 | 18.8 | 19.7 | 18.8 | 32 |
| 34 | 21.6 | 20.2 | 20.2 | 17.9 | 19.2 | 17.9 | 17.9 | 16.6 | 17.1 | 16.0 | 34 |
| 36 | 19.2 | 17.9 | 17.9 | 15.6 | 16.9 | 15.2 | 15.5 | 14.7 | 15.2 | 14.1 | 36 |
| 38 | 16.9 | 15.6 | 15.9 | 13.9 | 14.8 | 13.6 | 13.9 | 13.1 | 13.6 | 12.5 | 38 |
| 40 | 15.2 | 14.1 | 14.4 | 12.4 | 13.3 | 12.1 | 12.4 | 11.6 | 12.1 | 11.0 | 40 |
| 42 | 14.0 | 12.8 | 13.1 | 11.1 | 12.0 | 10.8 | 11.1 | 10.3 | 10.8 | 9.7 | 42 |
| 44 | 12.8 | 11.6 | 11.9 | 9.9 | 10.8 | 9.6 | 9.9 | 9.1 | 9.6 | 8.5 | 44 |
| 46 | 11.6 | 10.5 | 10.8 | 8.8 | 9.7 | 8.5 | 8.8 | 8.0 | 8.5 | 7.4 | 46 |
| 48 | 10.3 | 9.5 | 9.8 | 7.8 | 8.7 | 7.5 | 7.8 | 7.0 | 7.5 | 6.4 | 48 |
| 50 | 9.4 | 8.6 | 8.9 | 6.9 | 7.8 | 6.6 | 6.9 | 6.1 | 6.6 | 5.5 | 50 |
| 52 | 8.5 | 7.7 | 8.0 | 6.1 | 7.0 | 5.8 | 6.1 | 5.3 | 5.8 | 4.7 | 52 |
| 54 | 7.7 | 6.9 | 7.2 | 5.3 | 6.2 | 5.0 | 5.3 | 4.5 | 5.0 | 3.9 | 54 |
| Code | 0012222 | 0022221 | 0111222 | 0222111 | 1111122 | 1122111 | 1211112 | 1221111 | 2111112 | 2211111 | Code |
| n | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | n |

## Load charts - counterweight in the rear – super lift 35° deployed angle

**T 60.7~65.7m**

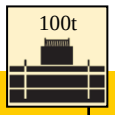


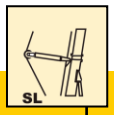



| m | 60.7 | 60.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | 65.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 63.4 | 63.4 | | | | | | | | | 12 |
| 14 | 55.0 | 55.0 | 44.0 | 44.0 | 46.4 | 48.7 | 48.6 | 45.4 | 48.9 | 48.3 | 14 |
| 16 | 48.0 | 48.0 | 40.1 | 40.4 | 42.1 | 44.7 | 44.3 | 41.9 | 44.7 | 44.2 | 16 |
| 18 | 43.0 | 40.0 | 36.4 | 36.0 | 37.8 | 40.8 | 40.6 | 37.3 | 44.0 | 40.5 | 18 |
| 20 | 36.0 | 36.0 | 32.3 | 32.8 | 33.7 | 38.0 | 37.0 | 34.4 | 37.0 | 38.0 | 20 |
| 22 | 33.0 | 32.0 | 30.2 | 30.7 | 31.6 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 22 |
| 24 | 29.0 | 29.0 | 28.3 | 28.6 | 31.0 | 31.0 | 31.0 | 31.0 | 30.0 | 31.0 | 24 |
| 26 | 26.5 | 26.0 | 26.4 | 26.8 | 29.0 | 28.0 | 28.0 | 29.0 | 28.0 | 28.0 | 26 |
| 28 | 23.0 | 22.5 | 25.5 | 26.7 | 26.0 | 26.0 | 25.0 | 26.0 | 25.0 | 26.0 | 28 |
| 30 | 20.7 | 20.2 | 24.5 | 25.0 | 23.5 | 23.0 | 22.5 | 23.5 | 22.5 | 23.0 | 30 |
| 32 | 17.9 | 17.9 | 22.1 | 22.5 | 21.1 | 21.6 | 20.2 | 21.1 | 20.2 | 21.0 | 32 |
| 34 | 15.8 | 15.1 | 19.7 | 20.2 | 18.8 | 19.2 | 17.9 | 18.8 | 17.9 | 19.6 | 34 |
| 36 | 14.0 | 13.3 | 18.4 | 17.9 | 17.0 | 16.9 | 16.1 | 16.9 | 15.8 | 17.3 | 36 |
| 38 | 12.3 | 11.7 | 16.6 | 16.4 | 15.3 | 14.7 | 14.4 | 15.3 | 14.2 | 15.0 | 38 |
| 40 | 10.9 | 10.2 | 15.2 | 14.7 | 13.8 | 13.3 | 13.0 | 13.8 | 12.7 | 13.1 | 40 |
| 42 | 9.5 | 8.9 | 13.8 | 13.2 | 12.5 | 12.0 | 11.6 | 12.5 | 11.4 | 11.8 | 42 |
| 44 | 8.4 | 7.7 | 12.3 | 12.0 | 11.3 | 10.8 | 10.5 | 11.3 | 10.2 | 10.6 | 44 |
| 46 | 7.3 | 6.6 | 11.2 | 11.0 | 10.2 | 9.7 | 9.4 | 10.2 | 9.1 | 9.5 | 46 |
| 48 | 6.3 | 5.6 | 10.2 | 10.0 | 9.2 | 8.7 | 8.4 | 9.2 | 8.1 | 8.5 | 48 |
| 50 | 5.4 | 4.7 | 9.3 | 9.1 | 8.3 | 7.8 | 7.5 | 8.3 | 7.2 | 7.6 | 50 |
| 52 | 4.5 | 3.9 | 8.5 | 8.2 | 7.5 | 7.0 | 6.7 | 7.5 | 6.4 | 6.8 | 52 |
| 54 | 3.8 | 3.1 | 7.7 | 7.5 | 6.7 | 6.2 | 5.9 | 6.7 | 5.6 | 6.0 | 54 |
| 56 | | | 7.0 | 6.7 | 6.0 | 5.5 | 5.2 | 6.0 | 4.9 | 5.3 | 56 |
| 58 | | | 6.7 | 6.1 | 5.3 | 4.8 | 4.5 | 5.3 | 4.2 | 4.6 | 58 |
| 60 | | | 6.0 | 5.4 | 4.7 | 4.2 | 3.9 | 4.7 | 3.6 | 4.0 | 60 |
| Code | 2211120 | 2221110 | 0022222 | 0112222 | 0122221 | 0222112 | 0222211 | 1111222 | 1122211 | 1211122 | Code |
| n | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | n |

## Load charts - counterweight in the rear – super lift 35° deployed angle

**T 65.7~70.7m**

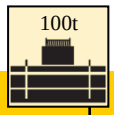
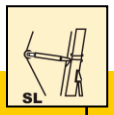





| m | 65.7 | 65.7 | 65.7 | 65.7 | 70.1 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 50.7 | 52.0 | 52.0 | 51.3 | 32.5 | 34.7 | 42.9 | 41.1 | 46.3 | 45.5 | 14 |
| 16 | 49.0 | 49.0 | 48.0 | 48.0 | 23.4 | 34.7 | 38.6 | 31.9 | 42.7 | 41.8 | 16 |
| 18 | 43.0 | 43.0 | 40.0 | 40.0 | 23.2 | 32.3 | 33.9 | 31.9 | 38.2 | 37.7 | 18 |
| 20 | 37.0 | 37.0 | 36.0 | 36.0 | 22.0 | 26.5 | 31.4 | 27.9 | 33.9 | 33.0 | 20 |
| 22 | 33.0 | 33.0 | 32.0 | 32.0 | 19.9 | 25.3 | 29.6 | 27.9 | 33.0 | 31.4 | 22 |
| 24 | 30.0 | 30.0 | 29.0 | 29.0 | 18.9 | 24.6 | 27.8 | 27.0 | 30.0 | 30.0 | 24 |
| 26 | 28.0 | 27.0 | 26.0 | 26.0 | 18.4 | 24.5 | 26.5 | 25.1 | 27.0 | 27.0 | 26 |
| 28 | 25.0 | 24.5 | 23.5 | 23.0 | 17.6 | 23.2 | 26.0 | 24.2 | 25.0 | 25.0 | 28 |
| 30 | 23.0 | 21.1 | 21.1 | 20.6 | 15.6 | 22.0 | 24.0 | 24.0 | 23.0 | 22.0 | 30 |
| 32 | 20.6 | 18.8 | 18.8 | 18.2 | 15.4 | 20.0 | 22.0 | 22.0 | 20.6 | 20.6 | 32 |
| 34 | 18.2 | 16.9 | 16.2 | 16.0 | 14.3 | 20.0 | 19.6 | 19.6 | 18.2 | 18.2 | 34 |
| 36 | 16.0 | 15.1 | 14.3 | 13.8 | 14.0 | 17.9 | 17.3 | 18.2 | 16.0 | 16.0 | 36 |
| 38 | 14.0 | 13.4 | 12.7 | 12.2 | 13.5 | 16.3 | 16.0 | 16.0 | 14.3 | 14.0 | 38 |
| 40 | 12.5 | 12.0 | 11.2 | 10.7 | 12.6 | 14.7 | 13.9 | 14.0 | 12.8 | 12.5 | 40 |
| 42 | 11.2 | 10.7 | 9.9 | 9.4 | 11.5 | 13.5 | 12.5 | 12.7 | 11.5 | 11.2 | 42 |
| 44 | 10.0 | 9.5 | 8.7 | 8.2 | 10.5 | 12.2 | 11.3 | 11.5 | 10.3 | 10.0 | 44 |
| 46 | 8.9 | 8.4 | 7.7 | 7.1 | 9.6 | 11.1 | 10.3 | 10.4 | 9.2 | 8.9 | 46 |
| 48 | 7.9 | 7.4 | 6.7 | 6.2 | 8.7 | 10.3 | 9.3 | 9.4 | 8.2 | 8.0 | 48 |
| 50 | 7.0 | 6.5 | 5.8 | 5.3 | 8.0 | 9.5 | 8.4 | 8.5 | 7.3 | 7.1 | 50 |
| 52 | 6.2 | 5.7 | 5.0 | 4.4 | 7.3 | 8.7 | 7.6 | 7.7 | 6.5 | 6.2 | 52 |
| 54 | 5.4 | 4.9 | 4.2 | 3.7 | 6.6 | 7.9 | 6.8 | 6.9 | 5.8 | 5.5 | 54 |
| 56 | 4.7 | 4.2 | 3.5 | 3.0 | 6.0 | 6.8 | 6.1 | 6.2 | 5.0 | 4.8 | 56 |
| 58 | 4.1 | 3.5 | 2.8 | 2.3 | 5.5 | 6.0 | 5.4 | 5.6 | 4.4 | 4.1 | 58 |
| 60 | 3.4 | 2.9 | 2.2 | | 5.0 | 5.4 | 4.8 | 4.9 | 3.8 | 3.5 | 60 |
| 62 | | | | | 4.5 | 4.8 | 4.2 | 4.4 | 3.2 | 2.9 | 62 |
| 64 | | | | | 4.0 | 4.3 | 3.7 | 3.8 | 2.6 | 2.4 | 64 |
| Code | 1221112 | 2211112 | 2221111 | 2222110 | 0033333 | 0122222 | 0222122 | 1112222 | 1222112 | 1222211 | Code |
| n | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | n |

## Load charts - counterweight in the rear – super lift 35° deployed angle

**T 70.7~75.8m**

| m |  |  |  |  |  | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **70.7** | **70.7** | **70.7** | **70.7** | **70.7** | **72.5** | **75.8** | **75.8** | **75.8** | **75.8** | |
| 14 | 38.6 | 44.8 | 48.7 | 48.2 | 42.8 | | | | | | 14 |
| 16 | 38.6 | 40.9 | 44.2 | 43.6 | 39.0 | 32.8 | 32.6 | 33.3 | 34.5 | 33.7 | 16 |
| 18 | 34.1 | 37.1 | 39.2 | 39.2 | 38.0 | 28.0 | 30.4 | 31.1 | 31.8 | 31.5 | 18 |
| 20 | 31.6 | 33.8 | 35.8 | 35.4 | 32.9 | 25.6 | 28.1 | 28.8 | 30.0 | 29.6 | 20 |
| 22 | 30.8 | 33.0 | 33.0 | 32.0 | 32.0 | 24.0 | 26.3 | 26.9 | 27.6 | 27.3 | 22 |
| 24 | 30.0 | 30.0 | 29.0 | 29.0 | 29.0 | 21.8 | 24.5 | 25.1 | 25.8 | 25.5 | 24 |
| 26 | 27.0 | 27.0 | 27.0 | 26.0 | 26.0 | 19.5 | 23.1 | 23.7 | 24.4 | 24.1 | 26 |
| 28 | 25.0 | 25.0 | 24.0 | 24.0 | 24.0 | 17.3 | 21.7 | 21.9 | 22.5 | 22.2 | 28 |
| 30 | 22.0 | 23.0 | 21.6 | 22.0 | 21.0 | 15.8 | 20.8 | 20.9 | 21.1 | 20.8 | 30 |
| 32 | 19.6 | 20.6 | 19.2 | 19.6 | 18.6 | 14.3 | 19.4 | 20.0 | 20.0 | 20.0 | 32 |
| 34 | 18.2 | 18.2 | 16.9 | 17.3 | 17.3 | 13.5 | 18.5 | 19.0 | 18.1 | 18.1 | 34 |
| 36 | 16.0 | 16.0 | 15.2 | 15.0 | 15.0 | 11.9 | 16.7 | 16.7 | 15.8 | 16.7 | 36 |
| 38 | 13.8 | 14.1 | 13.5 | 13.1 | 12.8 | 10.5 | 15.8 | 15.8 | 14.9 | 14.9 | 38 |
| 40 | 12.4 | 12.6 | 12.1 | 11.6 | 11.3 | 9.4 | 14.2 | 14.0 | 13.1 | 13.5 | 40 |
| 42 | 11.1 | 11.3 | 10.8 | 10.3 | 10.0 | 8.3 | 12.9 | 12.6 | 11.8 | 12.2 | 42 |
| 44 | 9.9 | 10.1 | 9.6 | 9.1 | 8.8 | 7.3 | 11.7 | 11.5 | 10.6 | 11.0 | 44 |
| 46 | 8.8 | 9.1 | 8.5 | 8.0 | 7.8 | 6.4 | 10.6 | 10.4 | 9.5 | 9.9 | 46 |
| 48 | 7.8 | 8.1 | 7.5 | 7.1 | 6.8 | 5.6 | 9.6 | 9.4 | 8.5 | 8.9 | 48 |
| 50 | 6.9 | 7.2 | 6.6 | 6.2 | 5.9 | 4.8 | 8.8 | 8.5 | 7.6 | 8.0 | 50 |
| 52 | 6.1 | 6.4 | 5.8 | 5.3 | 5.1 | 4.2 | 8.1 | 7.7 | 6.8 | 7.2 | 52 |
| 54 | 5.3 | 5.6 | 5.1 | 4.6 | 4.3 | 3.5 | 7.4 | 6.9 | 6.1 | 6.4 | 54 |
| 56 | 4.6 | 4.9 | 4.4 | 3.9 | 3.6 | 2.9 | 6.7 | 6.2 | 5.4 | 5.7 | 56 |
| 58 | 4.0 | 4.2 | 3.7 | 3.2 | 2.9 | 2.4 | 6.0 | 5.5 | 4.7 | 5.1 | 58 |
| 60 | 3.4 | 3.6 | 3.1 | 2.6 | 2.3 | 1.9 | 5.2 | 4.9 | 4.1 | 4.5 | 60 |
| 62 | 2.8 | 3.0 | 2.5 | 2.0 | | | 4.6 | 4.4 | 3.5 | 3.9 | 62 |
| 64 | 2.2 | 2.5 | 2.0 | | | | 4.1 | 3.8 | 3.0 | 3.4 | 64 |
| 66 | | | | | | | 3.6 | 3.3 | 2.5 | 2.9 | 66 |
| 68 | | | | | | | 3.1 | 2.8 | 2.0 | 2.4 | 68 |
| 70 | | | | | | | 2.6 | 2.4 | | 1.9 | 70 |
| Code | 1222220 | 2211122 | 2221112 | 2222111 | 2222210 | 3322210 | 0222222 | 1122222 | 1222221 | 2112222 | Code |
| n | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | n |

| m | 75.8-81m T | 9.3m×8.3m | 360° | 100t | SL | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **75.8** | **75.8** | **75.8** | **75.8** | **77.5** | **80.8** | **80.8** | **80.8** | **80.8** | **81** | |
| 16 | 34.5 | 38.9 | 39.2 | 34.1 | 27.3 | 28.8 | 29.5 | 31.7 | 32.1 | 22.0 | 16 |
| 18 | 32.2 | 33.1 | 34.0 | 31.4 | 25.3 | 27.3 | 27.6 | 29.9 | 30.2 | 20.4 | 18 |
| 20 | 30.0 | 31.3 | 31.0 | 29.6 | 23.8 | 25.7 | 25.9 | 27.8 | 28.1 | 18.7 | 20 |
| 22 | 28.1 | 29.0 | 28.6 | 27.4 | 22.2 | 23.5 | 23.7 | 25.8 | 26.0 | 18.5 | 22 |
| 24 | 26.2 | 27.1 | 27.0 | 25.5 | 20.6 | 22.5 | 22.7 | 24.2 | 24.4 | 17.5 | 24 |
| 26 | 24.4 | 26.0 | 24.8 | 23.6 | 19.3 | 21.4 | 21.6 | 22.9 | 23.2 | 16.7 | 26 |
| 28 | 22.5 | 23.0 | 22.8 | 22.2 | 18.5 | 20.6 | 20.6 | 21.5 | 21.5 | 15.3 | 28 |
| 30 | 20.9 | 20.9 | 20.9 | 20.9 | 17.3 | 19.4 | 19.5 | 20.3 | 20.0 | 15.1 | 30 |
| 32 | 20.0 | 19.0 | 19.0 | 19.0 | 16.5 | 18.3 | 18.6 | 18.6 | 19.0 | 14.3 | 32 |
| 34 | 18.1 | 17.1 | 16.7 | 17.1 | 15.7 | 17.3 | 17.7 | 17.7 | 17.1 | 13.6 | 34 |
| 36 | 15.8 | 15.8 | 15.2 | 14.9 | 14.4 | 16.5 | 16.7 | 15.8 | 16.2 | 12.8 | 36 |
| 38 | 14.3 | 14.0 | 13.5 | 13.4 | 13.6 | 15.0 | 14.9 | 14.4 | 14.3 | 12.1 | 38 |
| 40 | 12.6 | 12.4 | 12.1 | 12.0 | 12.6 | 14.0 | 13.5 | 12.6 | 13.2 | 11.4 | 40 |
| 42 | 11.5 | 11.1 | 10.8 | 10.7 | 11.2 | 12.4 | 12.2 | 11.6 | 11.4 | 10.9 | 42 |
| 44 | 10.4 | 9.9 | 9.6 | 9.5 | 10.3 | 11.5 | 11.0 | 10.4 | 10.2 | 9.8 | 44 |
| 46 | 9.3 | 8.8 | 8.5 | 8.4 | 9.4 | 10.5 | 9.9 | 9.4 | 9.1 | 9.0 | 46 |
| 48 | 8.3 | 7.8 | 7.6 | 7.4 | 8.5 | 9.5 | 8.9 | 8.4 | 8.1 | 8.2 | 48 |
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| 54 | 5.8 | 5.4 | 5.1 | 5.0 | 6.3 | 6.8 | 6.5 | 5.9 | 5.7 | 6.1 | 54 |
| 56 | 5.1 | 4.7 | 4.4 | 4.3 | 5.7 | 6.2 | 5.8 | 5.2 | 5.0 | 5.5 | 56 |
| 58 | 4.5 | 4.0 | 3.7 | 3.6 | 5.1 | 5.6 | 5.1 | 4.6 | 4.3 | 5.0 | 58 |
| 60 | 3.9 | 3.4 | 3.1 | 3.0 | 4.6 | 5.0 | 4.5 | 4.0 | 3.7 | 4.5 | 60 |
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| 64 | 2.8 | 2.3 | 2.0 | 1.9 | 3.6 | 3.8 | 3.4 | 2.9 | 2.6 | 3.6 | 64 |
| 66 | 2.2 | | | | 3.1 | 3.1 | 2.9 | 2.4 | 2.1 | 3.1 | 66 |
| 68 | | | | | 2.7 | 2.6 | 2.4 | 1.9 | | 2.8 | 68 |
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| 72 | | | | | 1.9 | | | | | 2.0 | 72 |
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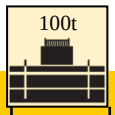


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| 18 | 29.4 | 28.7 | 28.2 | 26.4 | 23.5 | | | | | | | | 18 |
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| 22 | 25.5 | 25.1 | 24.3 | 23.2 | 21.6 | 20.2 | 20.6 | 19.8 | 19.2 | 18.4 | 16.3 | 16.0 | 22 |
| 24 | 23.8 | 23.3 | 23.3 | 22.4 | 21.0 | 19.6 | 18.9 | 18.2 | 17.4 | 17.3 | 15.6 | 15.0 | 24 |
| 26 | 22.4 | 21.9 | 21.6 | 20.5 | 20.1 | 18.7 | 18.4 | 18.1 | 17.3 | 16.9 | 14.7 | 14.0 | 26 |
| 28 | 21.0 | 20.6 | 20.2 | 19.5 | 19.4 | 17.3 | 16.9 | 17.1 | 16.5 | 16.1 | 14.0 | 13.0 | 28 |
| 30 | 19.7 | 19.6 | 19.3 | 18.8 | 18.2 | 16.5 | 16.1 | 16.4 | 14.9 | 15.6 | 13.3 | 12.0 | 30 |
| 32 | 18.7 | 18.2 | 17.8 | 17.7 | 16.9 | 15.6 | 15.2 | 14.7 | 13.9 | 14.6 | 13.0 | 11.0 | 32 |
| 34 | 17.1 | 17.1 | 16.9 | 16.9 | 15.7 | 14.8 | 14.4 | 14.0 | 13.4 | 13.4 | 13.0 | 10.5 | 34 |
| 36 | 16.2 | 16.2 | 15.9 | 15.9 | 14.8 | 14.2 | 13.8 | 13.2 | 12.1 | 12.6 | 11.5 | 10.0 | 36 |
| 38 | 14.1 | 14.1 | 14.3 | 14.3 | 14.0 | 13.5 | 13.2 | 12.0 | 11.6 | 11.9 | 11.0 | 9.5 | 38 |
| 40 | 12.6 | 12.6 | 13.2 | 13.2 | 13.3 | 12.8 | 12.1 | 11.7 | 11.1 | 10.7 | 10.5 | 9.0 | 40 |
| 42 | 11.3 | 11.3 | 11.3 | 11.4 | 12.1 | 11.8 | 11.6 | 11.2 | 10.6 | 10.4 | 10.1 | 9.0 | 42 |
| 44 | 10.1 | 10.1 | 10.1 | 10.2 | 11.0 | 11.2 | 11.0 | 10.6 | 10.2 | 9.7 | 9.6 | 9.0 | 44 |
| 46 | 9.0 | 9.0 | 9.1 | 9.1 | 9.7 | 9.6 | 9.6 | 10.0 | 9.7 | 9.1 | 9.3 | 9.0 | 46 |
| 48 | 8.0 | 8.0 | 8.1 | 8.1 | 8.8 | 8.7 | 8.6 | 8.6 | 8.7 | 8.8 | 8.8 | 8.5 | 48 |
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| 54 | 5.6 | 5.6 | 5.6 | 5.7 | 6.8 | 6.2 | 6.2 | 6.2 | 6.2 | 6.7 | 6.3 | 6.7 | 54 |
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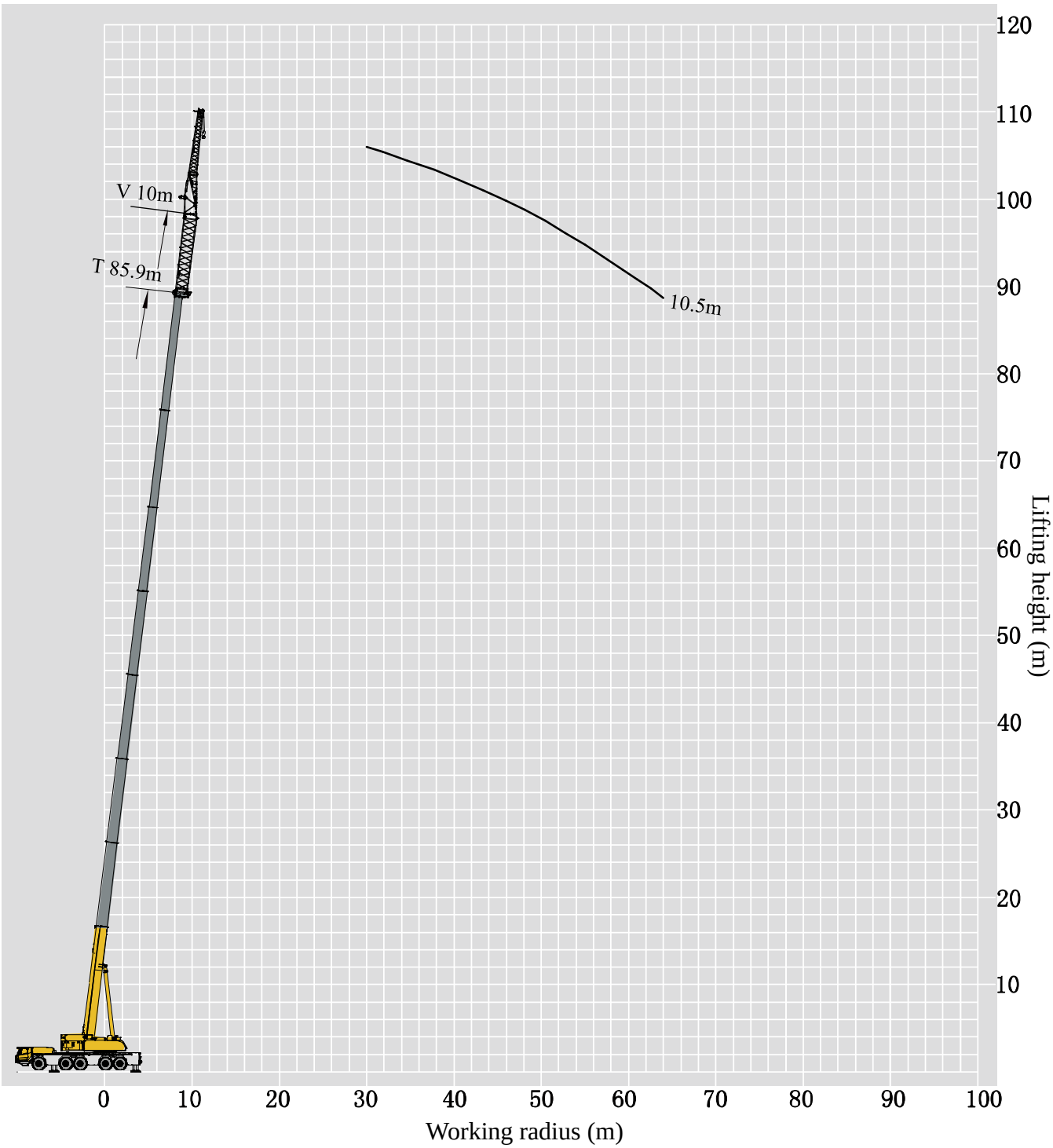
V 10m
T 85.9m
10.5m
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+10m | 50.6+10m | 55.6+10m | 60.7+10m | 65.7+10m | 70.7+10m | 75.8+10m | 80.8+10m | 85.9+10m | |
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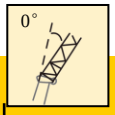
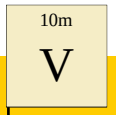
| | |   |   |   |   |   |   |   | | |
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| 16 | 16.5 | 15.0 | 14.4 | | | | | | | 16 |
| 18 | 15.5 | 14.4 | 13.9 | 13.1 | | | | | | 18 |
| 20 | 14.8 | 13.7 | 13.3 | 12.4 | 11.2 | | | | | 20 |
| 22 | 14.1 | 13.1 | 12.5 | 11.9 | 11.0 | 9.8 | | | | 22 |
| 24 | 13.3 | 12.4 | 12.1 | 11.5 | 10.7 | 9.6 | 8.6 | | | 24 |
| 26 | 12.8 | 11.9 | 11.7 | 11.1 | 10.4 | 9.5 | 8.4 | | | 26 |
| 28 | 12.1 | 11.4 | 11.2 | 10.8 | 10.2 | 9.3 | 8.4 | 7.4 | | 28 |
| 30 | 11.5 | 11.0 | 10.9 | 10.5 | 10.0 | 9.1 | 8.2 | 7.4 | 5.8 | 30 |
| 32 | 11.0 | 10.5 | 10.5 | 10.2 | 9.9 | 8.8 | 7.9 | 7.3 | 5.8 | 32 |
| 34 | 10.6 | 10.2 | 10.2 | 9.9 | 9.3 | 8.2 | 7.4 | 6.8 | 5.8 | 34 |
| 36 | 10.1 | 9.8 | 9.9 | 9.6 | 8.5 | 7.5 | 6.9 | 6.3 | 5.8 | 36 |
| 38 | 9.6 | 9.5 | 9.5 | 9.1 | 7.9 | 7.0 | 6.3 | 5.8 | 5.5 | 38 |
| 40 | 9.4 | 9.2 | 9.3 | 8.4 | 7.1 | 6.5 | 5.7 | 5.4 | 5.1 | 40 |
| 42 | 9.0 | 8.9 | 9.2 | 7.8 | 6.6 | 6.0 | 5.3 | 4.8 | 4.7 | 42 |
| 44 | 8.7 | 8.6 | 8.9 | 7.2 | 6.1 | 5.4 | 4.9 | 4.6 | 4.3 | 44 |
| 46 | 8.4 | 8.3 | 8.4 | 6.7 | 5.7 | 4.9 | 4.5 | 4.2 | 4.1 | 46 |
| 48 | 8.2 | 8.1 | 7.8 | 6.3 | 5.2 | 4.5 | 4.1 | 3.8 | 3.6 | 48 |
| 50 | 7.8 | 7.8 | 7.3 | 5.9 | 4.9 | 4.2 | 3.8 | 3.5 | 3.4 | 50 |
| 52 | 7.6 | 7.5 | 6.8 | 5.5 | 4.4 | 3.9 | 3.4 | 3.3 | 3.1 | 52 |
| 54 | 7.4 | 7.2 | 6.5 | 5.1 | 4.2 | 3.6 | 3.1 | 3.0 | 2.9 | 54 |
| 56 | 7.2 | 6.9 | 5.9 | 4.8 | 3.8 | 3.3 | 2.9 | 2.7 | 2.6 | 56 |
| 58 | 6.5 | 6.8 | 5.5 | 4.4 | 3.5 | 3.0 | 2.6 | 2.5 | 2.5 | 58 |
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| 62 | 5.5 | 5.8 | 4.3 | 3.8 | 2.9 | 2.5 | 2.1 | 2.0 | 2.1 | 62 |
| 64 | | 5.4 | 4.1 | 3.6 | 2.7 | 2.2 | 1.9 | 1.8 | 1.8 | 64 |
| 66 | | 4.9 | 3.8 | 3.3 | 2.4 | 2.0 | 1.7 | | | 66 |
| 68 | | | 3.6 | 2.8 | 2.2 | 1.8 | | | | 68 |
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| 72 | | | | 2.1 | 1.7 | | | | | 72 |
| 74 | | | | 1.9 | | | | | | 74 |
| 76 | | | | 1.7 | | | | | | 76 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
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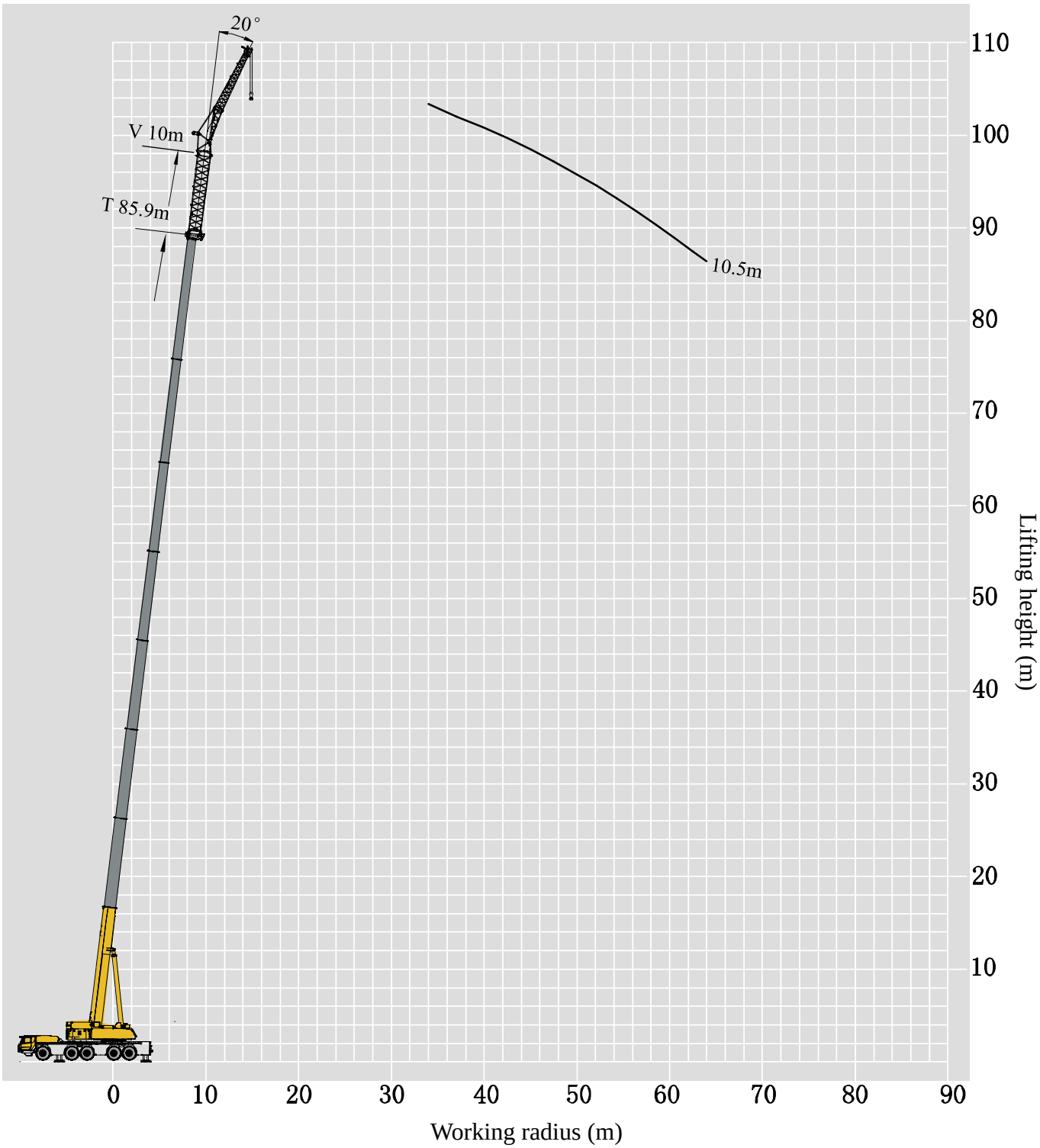
20°
V 10m
T 85.9m
10.5m
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
Working radius (m)

| | 45.5+10m | 50.6+10m | 55.6+10m | 60.7+10m | 65.7+10m | 70.7+10m | 75.8+10m | 80.8+10m | 85.9+10m | |
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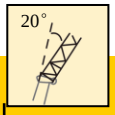
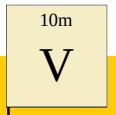
| | |   |   |   |   |   |   |   | | |
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| 20 | 12.4 | 11.7 | 11.3 | | | | | | | 20 |
| 22 | 11.9 | 11.2 | 10.9 | 10.4 | | | | | | 22 |
| 24 | 11.4 | 10.8 | 10.6 | 10.2 | 9.6 | | | | | 24 |
| 26 | 10.9 | 10.4 | 10.3 | 10.0 | 9.3 | 8.7 | | | | 26 |
| 28 | 10.4 | 10.4 | 10.0 | 9.7 | 9.1 | 8.4 | 7.7 | | | 28 |
| 30 | 10.1 | 10.3 | 9.7 | 9.4 | 8.9 | 8.3 | 7.6 | | | 30 |
| 32 | 9.8 | 9.9 | 9.4 | 9.1 | 8.8 | 8.2 | 7.5 | 6.6 | | 32 |
| 34 | 9.5 | 9.6 | 9.2 | 8.9 | 8.6 | 8.1 | 7.3 | 6.5 | 5.8 | 34 |
| 36 | 9.2 | 9.3 | 9.0 | 8.7 | 8.4 | 7.6 | 7.0 | 6.3 | 5.8 | 36 |
| 38 | 8.9 | 9.0 | 8.7 | 8.5 | 8.0 | 7.1 | 6.5 | 5.8 | 5.5 | 38 |
| 40 | 8.6 | 8.6 | 8.5 | 8.3 | 7.3 | 6.6 | 5.9 | 5.4 | 5.1 | 40 |
| 42 | 8.4 | 8.1 | 8.3 | 7.9 | 6.8 | 6.1 | 5.4 | 5.1 | 4.7 | 42 |
| 44 | 8.2 | 7.9 | 8.0 | 7.4 | 6.3 | 5.5 | 5.1 | 4.7 | 4.3 | 44 |
| 46 | 8.1 | 7.7 | 7.8 | 6.9 | 5.8 | 5.1 | 4.7 | 4.3 | 4.1 | 46 |
| 48 | 7.4 | 7.5 | 7.7 | 6.4 | 5.5 | 4.8 | 4.3 | 4.0 | 3.8 | 48 |
| 50 | 7.4 | 7.3 | 7.4 | 6.0 | 5.0 | 4.4 | 4.0 | 3.6 | 3.6 | 50 |
| 52 | 7.2 | 7.1 | 6.9 | 5.6 | 4.7 | 4.1 | 3.6 | 3.3 | 3.3 | 52 |
| 54 | 7.0 | 6.9 | 6.6 | 5.2 | 4.3 | 3.7 | 3.4 | 3.1 | 3.0 | 54 |
| 56 | 7.0 | 6.6 | 6.2 | 5.0 | 4.0 | 3.4 | 3.1 | 2.8 | 2.7 | 56 |
| 58 | 6.7 | 6.5 | 5.8 | 4.6 | 3.7 | 3.1 | 2.8 | 2.6 | 2.5 | 58 |
| 60 | | 6.3 | 5.5 | 4.3 | 3.4 | 2.9 | 2.6 | 2.4 | 2.3 | 60 |
| 62 | | 5.9 | 4.7 | 4.0 | 3.1 | 2.6 | 2.3 | 2.2 | 2.1 | 62 |
| 64 | | 5.5 | 4.4 | 3.7 | 2.8 | 2.3 | 2.1 | 2.0 | 2.0 | 64 |
| 66 | | | 4.2 | 3.1 | 2.6 | 2.2 | 1.9 | 1.8 | 1.8 | 66 |
| 68 | | | 3.9 | 2.8 | 2.4 | 1.9 | 1.7 | | | 68 |
| 70 | | | | 2.7 | 1.9 | 1.7 | | | | 70 |
| 72 | | | | 2.4 | 1.7 | | | | | 72 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
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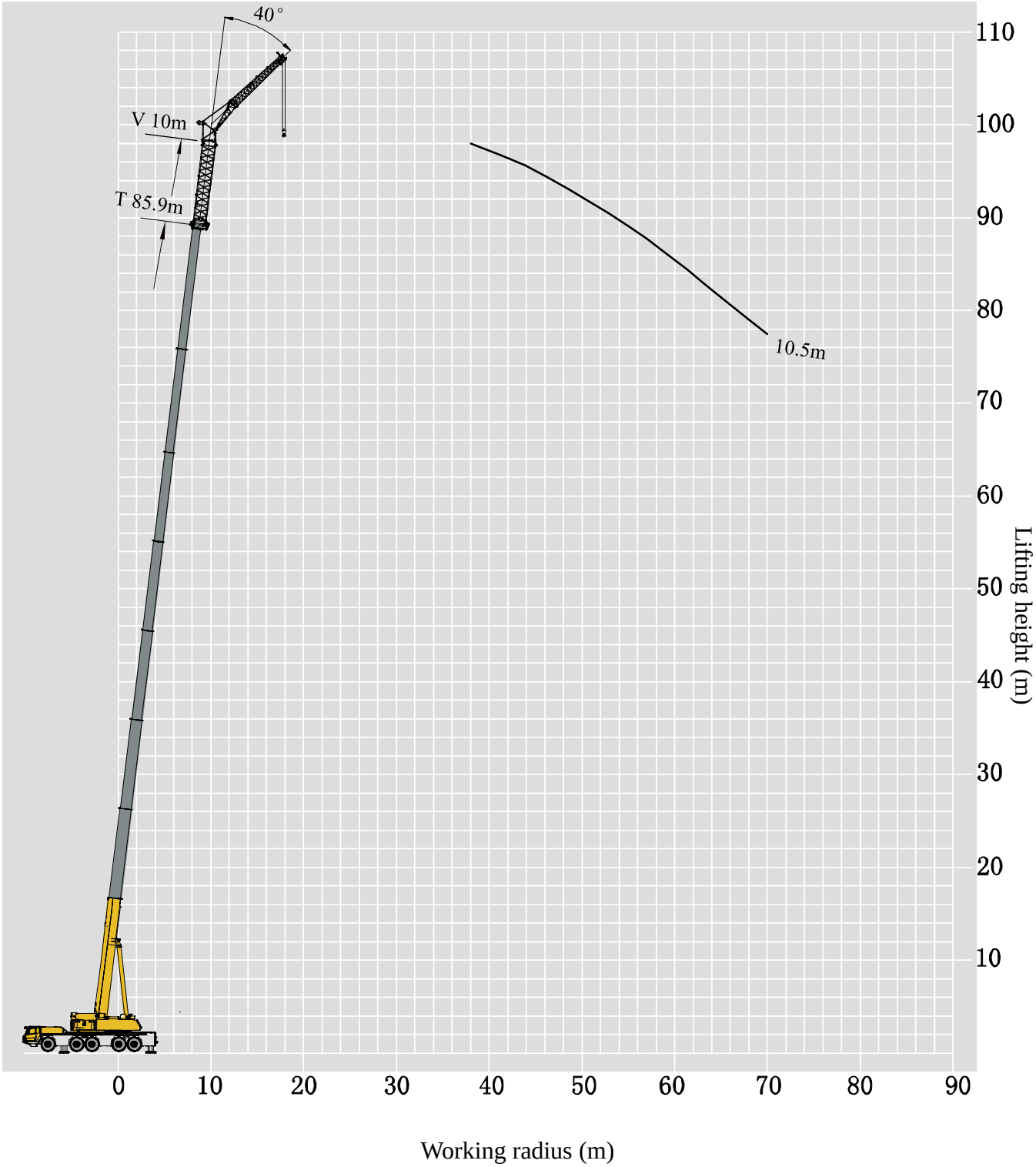
40°
V 10m
T 85.9m
10.5m
110
100
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80
70
60
50
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30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
Working radius (m)

| | 45.5+10m | 50.6+10m | 55.6+10m | 60.7+10m | 65.7+10m | 70.7+10m | 75.8+10m | 80.8+10m | 85.9+10m | |
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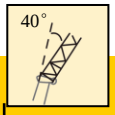
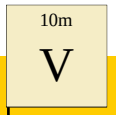
| | |  |  |  |  |  |  |  | | |
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| 24 | 8.5 | 8.4 | 8.6 | | | | | | | 24 |
| 26 | 8.2 | 8.3 | 8.3 | 8.5 | 8.5 | | | | | 26 |
| 28 | 8.1 | 8.1 | 8.2 | 8.4 | 8.4 | 7.8 | | | | 28 |
| 30 | 7.9 | 8.0 | 8.1 | 8.2 | 8.3 | 7.7 | 7.1 | | | 30 |
| 32 | 7.8 | 7.9 | 8.0 | 8.0 | 8.2 | 7.6 | 7.0 | | | 32 |
| 34 | 7.6 | 7.7 | 7.9 | 8.0 | 8.1 | 7.5 | 6.9 | 6.3 | | 34 |
| 36 | 7.6 | 7.7 | 7.7 | 7.9 | 8.0 | 7.5 | 6.9 | 6.2 | | 36 |
| 38 | 7.5 | 7.5 | 7.6 | 7.8 | 8.0 | 7.1 | 6.5 | 5.9 | 5.4 | 38 |
| 40 | 7.4 | 7.5 | 7.6 | 7.8 | 7.5 | 6.6 | 6.0 | 5.5 | 5.1 | 40 |
| 42 | 7.3 | 7.4 | 7.5 | 7.7 | 7.0 | 6.2 | 5.6 | 5.1 | 4.8 | 42 |
| 44 | 7.3 | 7.3 | 7.5 | 7.5 | 6.5 | 5.8 | 5.2 | 4.9 | 4.4 | 44 |
| 46 | 6.5 | 7.3 | 7.5 | 7.2 | 6.1 | 5.4 | 4.8 | 4.5 | 4.2 | 46 |
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| 54 | | | 6.0 | 5.3 | 4.5 | 4.0 | 3.6 | 3.4 | 3.2 | 54 |
| 56 | | | 5.7 | 4.7 | 4.1 | 3.8 | 3.3 | 3.2 | 3.0 | 56 |
| 58 | | | | 4.5 | 3.7 | 3.3 | 3.1 | 2.9 | 2.8 | 58 |
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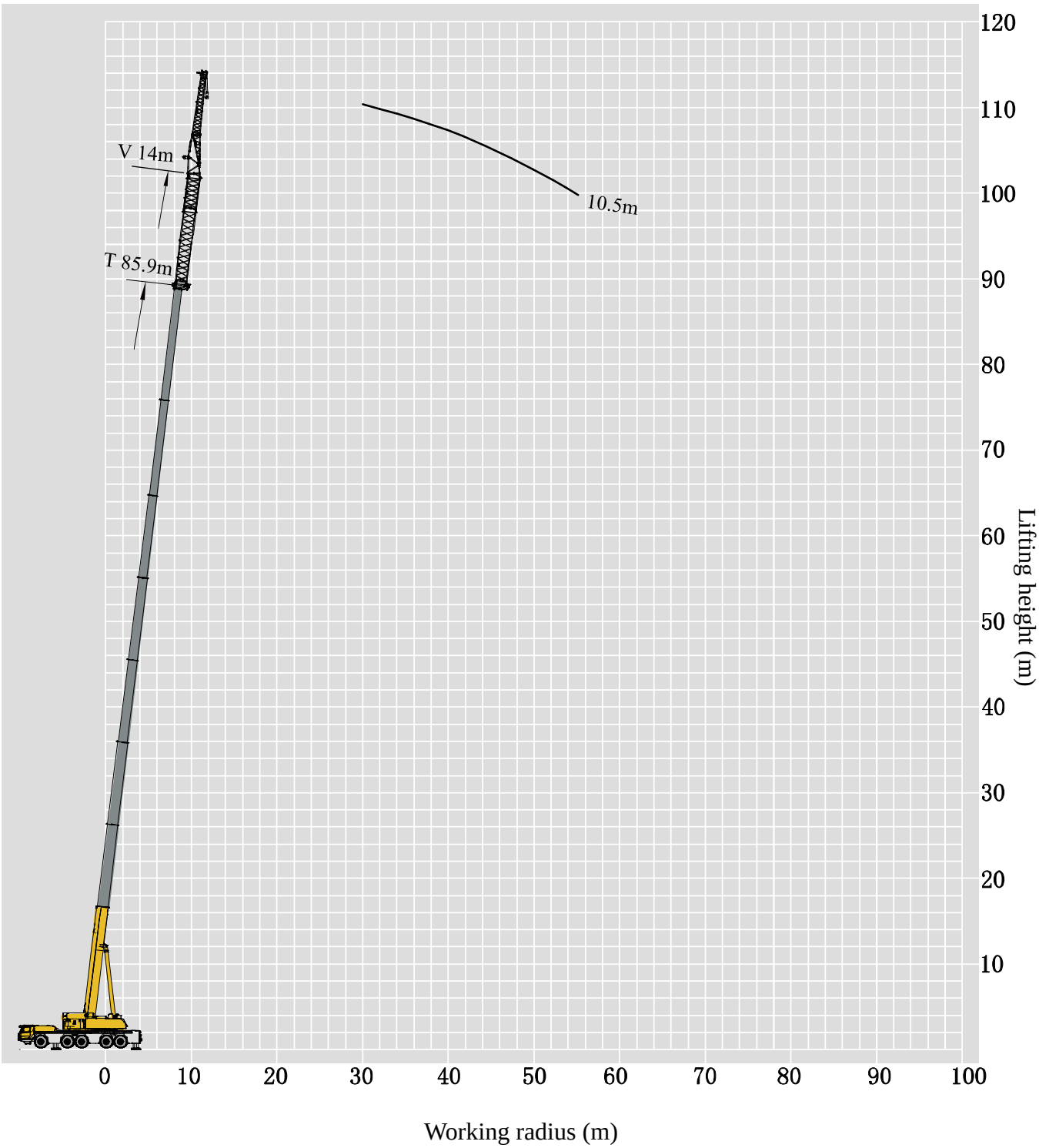
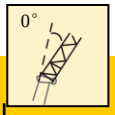
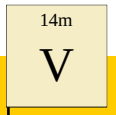
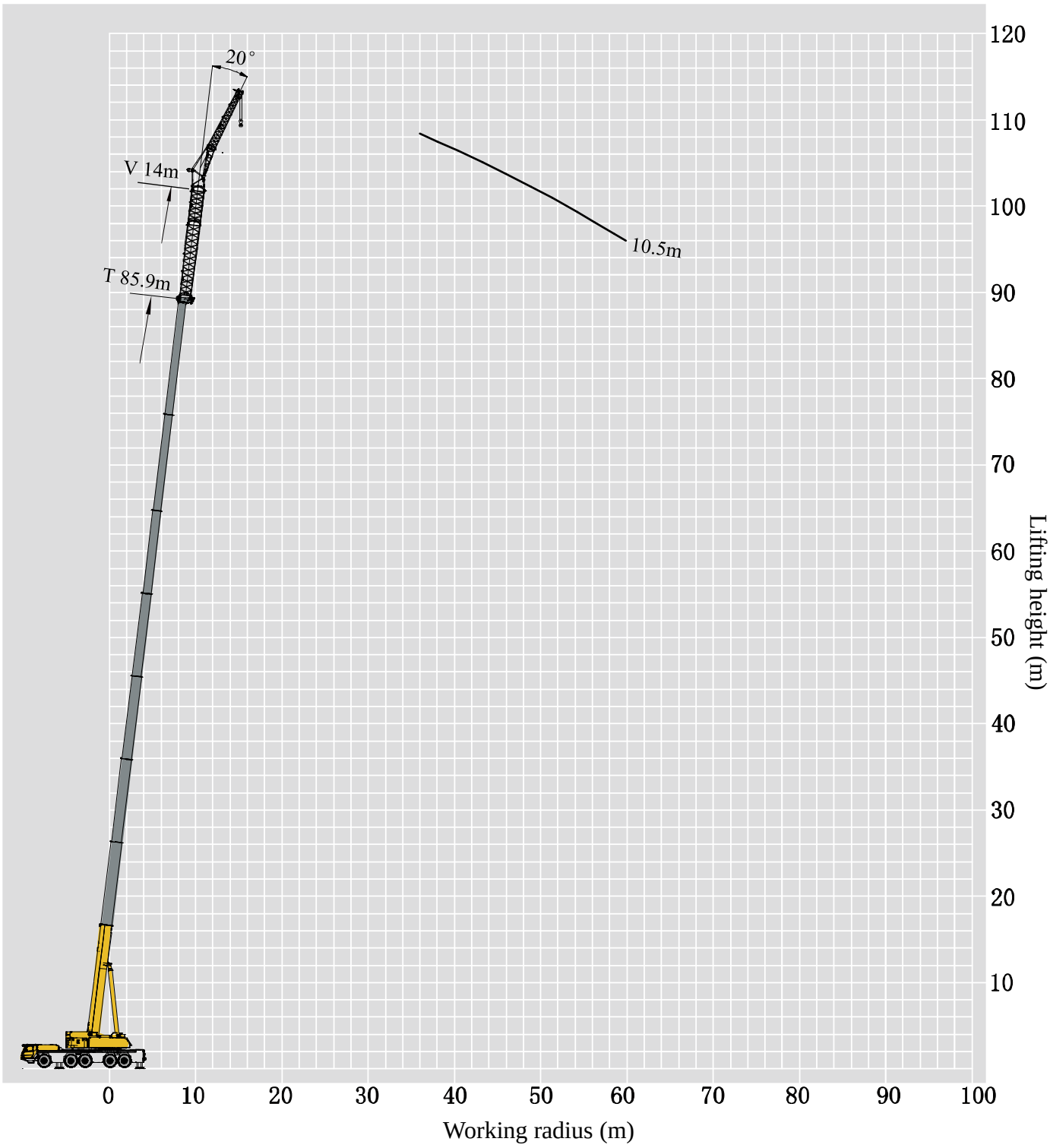
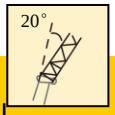
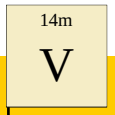
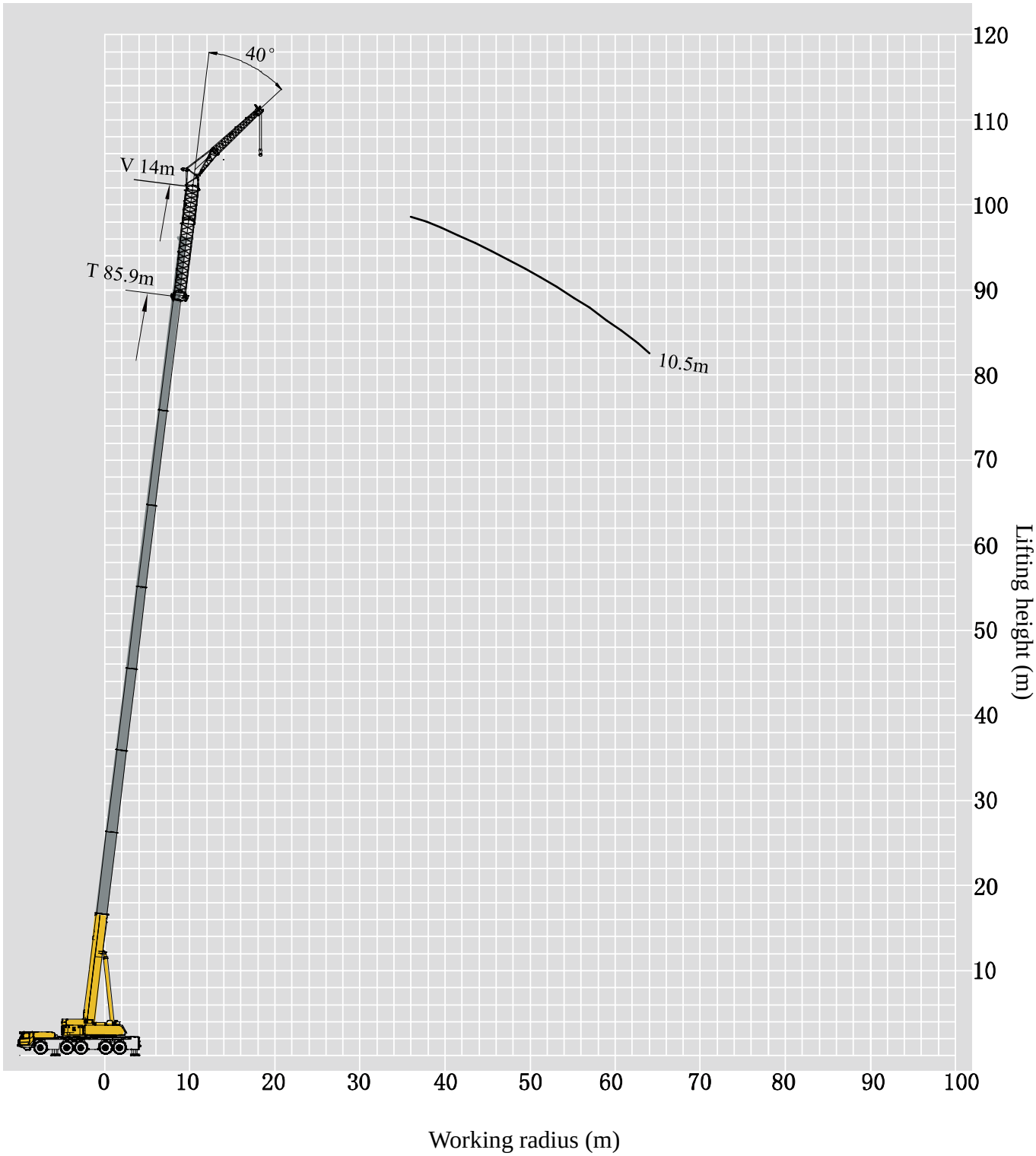
| 62 | | | | | 3.2 | 2.6 | 2.7 | 2.5 | 2.4 | 62 |
| 64 | | | | | 2.9 | 2.4 | 2.5 | 2.3 | 2.3 | 64 |
| 66 | | | | | | 2.2 | 2.1 | 2.2 | 2.1 | 66 |
| 68 | | | | | | 2.1 | 1.9 | 1.8 | 1.9 | 68 |
| 70 | | | | | | | 1.7 | 1.7 | 1.7 | 70 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

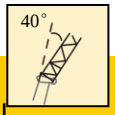
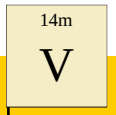

V 14m
T 85.9m
10.5m
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

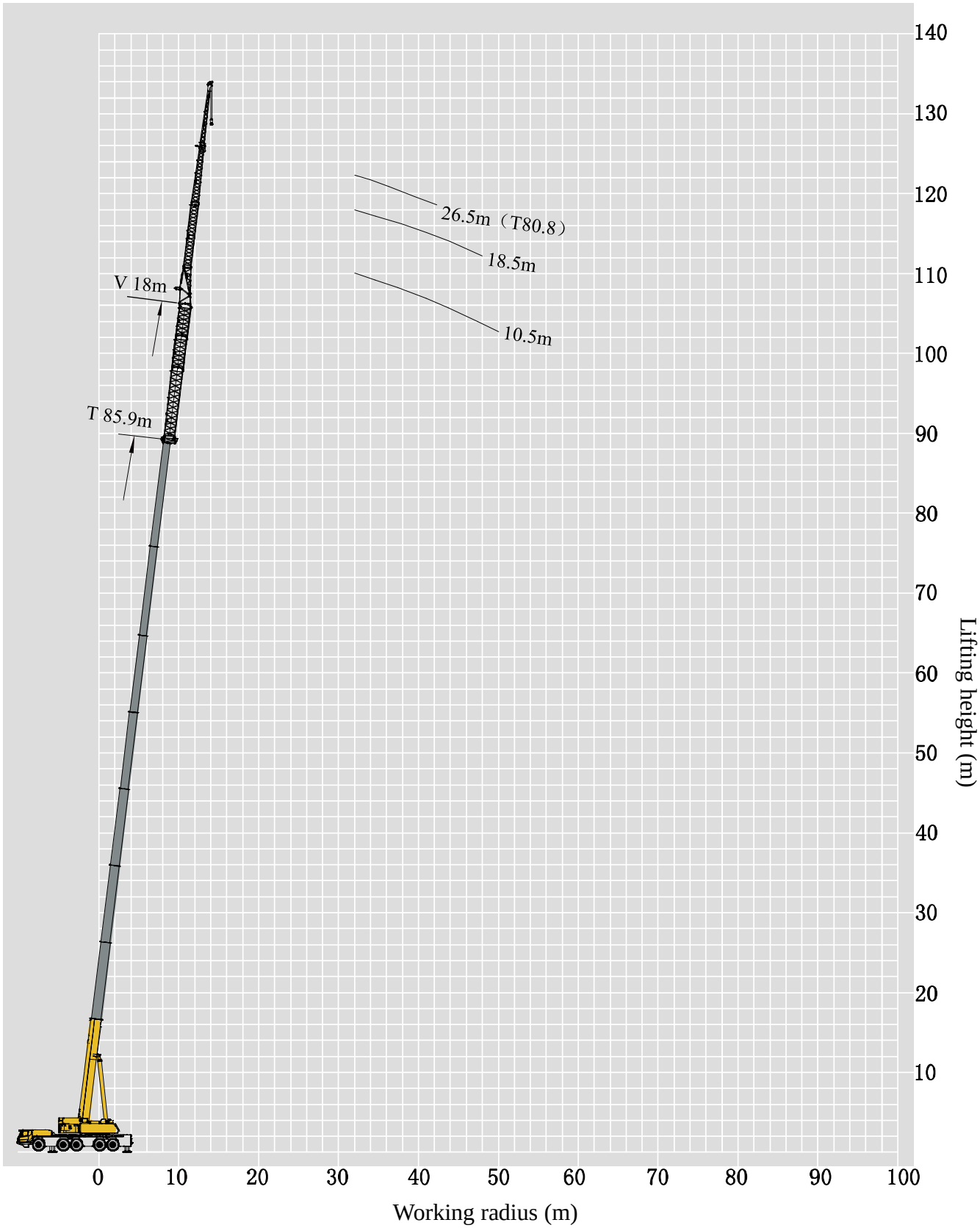
| | 45.5+14m | 50.6+14m | 55.6+14m | 60.7+14m | 65.7+14m | 70.7+14m | 75.8+14m | 80.8+14m | 85.9+14m | |
|---|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   | | |
| 12 | 15.2 | | | | | | | | | 12 |
| 14 | 14.5 | 12.4 | | | | | | | | 14 |
| 16 | 13.8 | 12.0 | 11.4 | | | | | | | 16 |
| 18 | 13.0 | 11.6 | 11.0 | 10.4 | | | | | | 18 |
| 20 | 12.2 | 11.1 | 10.7 | 10.2 | 9.3 | | | | | 20 |
| 22 | 11.6 | 10.7 | 10.4 | 9.9 | 9.1 | 8.2 | | | | 22 |
| 24 | 11.1 | 10.3 | 10.0 | 9.6 | 8.9 | 8.0 | | | | 24 |
| 26 | 10.6 | 9.9 | 9.7 | 9.3 | 8.7 | 7.9 | 7.0 | | | 26 |
| 28 | 10.1 | 9.5 | 9.4 | 9.0 | 8.4 | 7.8 | 7.0 | 5.9 | | 28 |
| 30 | 9.7 | 9.1 | 9.0 | 8.7 | 8.2 | 7.6 | 6.9 | 5.9 | 4.9 | 30 |
| 32 | 9.2 | 8.8 | 8.8 | 8.5 | 8.0 | 7.5 | 6.8 | 5.8 | 4.9 | 32 |
| 34 | 8.8 | 8.5 | 8.5 | 8.3 | 7.8 | 7.5 | 6.7 | 5.8 | 4.9 | 34 |
| 36 | 8.5 | 8.2 | 8.2 | 8.1 | 7.6 | 7.1 | 6.4 | 5.7 | 4.9 | 36 |
| 38 | 8.1 | 7.9 | 7.9 | 7.9 | 7.3 | 6.6 | 5.9 | 5.4 | 4.9 | 38 |
| 40 | 7.9 | 7.7 | 7.6 | 7.6 | 6.7 | 5.9 | 5.4 | 4.9 | 4.7 | 40 |
| 42 | 7.5 | 7.4 | 7.4 | 7.1 | 6.2 | 5.3 | 4.9 | 4.5 | 4.3 | 42 |
| 44 | 7.3 | 7.2 | 7.2 | 6.7 | 5.8 | 5.0 | 4.5 | 4.2 | 3.9 | 44 |
| 46 | 7.1 | 6.9 | 7.1 | 6.3 | 5.3 | 4.6 | 4.1 | 3.8 | 3.6 | 46 |
| 48 | 6.8 | 6.7 | 6.8 | 5.9 | 4.9 | 4.2 | 3.7 | 3.5 | 3.3 | 48 |
| 50 | 6.6 | 6.6 | 6.6 | 5.5 | 4.5 | 3.8 | 3.4 | 3.2 | 3.0 | 50 |
| 52 | 6.3 | 6.4 | 6.5 | 5.1 | 4.2 | 3.5 | 3.1 | 2.9 | 2.7 | 52 |
| 54 | 6.2 | 6.2 | 5.9 | 4.7 | 3.8 | 3.2 | 2.8 | 2.5 | 2.5 | 54 |
| 56 | 6.0 | 6.0 | 5.7 | 4.4 | 3.5 | 2.9 | 2.6 | 2.4 | 2.3 | 56 |
| 58 | 5.8 | 5.8 | 5.4 | 4.0 | 3.2 | 2.6 | 2.3 | 2.1 | | 58 |
| 60 | 5.6 | 5.6 | 5.0 | 3.7 | 2.9 | 2.3 | 2.0 | | | 60 |
| 62 | 5.1 | 5.4 | 4.7 | 3.5 | 2.7 | 2.0 | 1.8 | | | 62 |
| 64 | 5.0 | 4.9 | 4.4 | 3.2 | 2.4 | 1.9 | | | | 64 |
| 66 | 4.7 | 4.8 | 3.9 | 2.9 | 2.1 | 1.6 | | | | 66 |
| 68 | | 4.6 | 3.4 | 2.7 | 1.9 | | | | | 68 |
| 70 | | 4.2 | 3.2 | 2.4 | 1.7 | | | | | 70 |
| 72 | | | 2.9 | 2.2 | | | | | | 72 |
| 74 | | | 2.5 | 2.0 | | | | | | 74 |
| 76 | | | | 1.6 | | | | | | 76 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

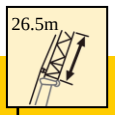
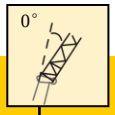
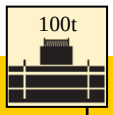
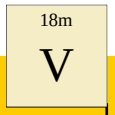

20°
V 14m
T 85.9m
10.5m
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+14m | 50.6+14m | 55.6+14m | 60.7+14m | 65.7+14m | 70.7+14m | 75.8+14m | 80.8+14m | 85.9+14m | |
|---|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   | | |
| 18 | 11.4 | | | | | | | | | 18 |
| 20 | 10.9 | 9.9 | | | | | | | | 20 |
| 22 | 10.4 | 9.6 | 9.4 | | | | | | | 22 |
| 24 | 10.0 | 9.3 | 9.1 | 8.7 | | | | | | 24 |
| 26 | 9.5 | 8.9 | 8.8 | 8.5 | 7.9 | | | | | 26 |
| 28 | 9.2 | 8.6 | 8.6 | 8.3 | 7.8 | 7.2 | | | | 28 |
| 30 | 8.8 | 8.4 | 8.2 | 7.9 | 7.7 | 7.1 | 6.4 | | | 30 |
| 32 | 8.5 | 8.1 | 8.0 | 7.7 | 7.5 | 7.0 | 6.3 | | | 32 |
| 34 | 8.1 | 7.8 | 7.8 | 7.6 | 7.3 | 6.8 | 6.2 | 5.5 | | 34 |
| 36 | 7.9 | 7.6 | 7.5 | 7.4 | 7.2 | 6.7 | 6.1 | 5.5 | 5.1 | 36 |
| 38 | 7.5 | 7.4 | 7.3 | 7.2 | 7.0 | 6.6 | 5.9 | 5.4 | 5.0 | 38 |
| 40 | 7.3 | 7.1 | 7.1 | 7.1 | 6.9 | 6.1 | 5.4 | 5.0 | 4.8 | 40 |
| 42 | 7.1 | 6.9 | 7.0 | 6.9 | 6.5 | 5.7 | 5.0 | 4.6 | 4.4 | 42 |
| 44 | 6.8 | 6.7 | 6.7 | 6.9 | 5.9 | 5.1 | 4.6 | 4.2 | 4.0 | 44 |
| 46 | 6.6 | 6.5 | 6.6 | 6.4 | 5.5 | 4.7 | 4.2 | 3.9 | 3.7 | 46 |
| 48 | 6.4 | 6.3 | 6.4 | 6.0 | 5.1 | 4.5 | 3.9 | 3.7 | 3.3 | 48 |
| 50 | 6.2 | 6.2 | 6.3 | 5.6 | 4.7 | 4.1 | 3.6 | 3.3 | 3.1 | 50 |
| 52 | 6.1 | 6.0 | 6.1 | 5.2 | 4.4 | 3.7 | 3.3 | 3.0 | 2.8 | 52 |
| 54 | 5.9 | 5.8 | 6.1 | 4.8 | 4.0 | 3.4 | 3.0 | 2.7 | 2.7 | 54 |
| 56 | 5.7 | 5.7 | 5.7 | 4.5 | 3.7 | 3.2 | 2.7 | 2.6 | 2.4 | 56 |
| 58 | 5.6 | 5.6 | 5.4 | 4.3 | 3.5 | 2.9 | 2.4 | 2.3 | 2.3 | 58 |
| 60 | 5.2 | 5.3 | 5.1 | 4.0 | 3.2 | 2.6 | 2.3 | 2.0 | 2.0 | 60 |
| 62 | 5.0 | 5.2 | 4.8 | 3.7 | 2.9 | 2.3 | 2.0 | 1.9 | | 62 |
| 64 | | 4.8 | 4.5 | 3.4 | 2.6 | 2.0 | 1.7 | | | 64 |
| 66 | | 4.6 | 4.3 | 3.1 | 2.3 | 1.9 | | | | 66 |
| 68 | | 4.6 | 3.8 | 2.7 | 2.0 | 1.6 | | | | 68 |
| 70 | | | 3.3 | 2.5 | 1.8 | | | | | 70 |
| 72 | | | 3.1 | 2.1 | | | | | | 72 |
| 74 | | | | 2.0 | | | | | | 74 |
| 76 | | | | 1.8 | | | | | | 76 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |


40°
V 14m
T 85.9m
10.5m
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+14m | 50.6+14m | 55.6+14m | 60.7+14m | 65.7+14m | 70.7+14m | 75.8+14m | 80.8+14m | 85.9+14m | |
|---|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   | | |
| 20 | 8.9 | | | | | | | | | 20 |
| 22 | 8.6 | 8.7 | | | | | | | | 22 |
| 24 | 8.5 | 8.5 | 8.6 | | | | | | | 24 |
| 26 | 8.3 | 8.3 | 8.4 | 7.9 | 7.4 | | | | | 26 |
| 28 | 8.1 | 8.2 | 8.2 | 7.7 | 7.2 | 6.8 | | | | 28 |
| 30 | 8.0 | 8.1 | 8.1 | 7.5 | 7.1 | 6.7 | | | | 30 |
| 32 | 7.9 | 7.9 | 7.5 | 7.3 | 7.0 | 6.6 | 6.0 | | | 32 |
| 34 | 7.8 | 7.8 | 7.3 | 7.2 | 6.9 | 6.5 | 5.9 | 5.3 | | 34 |
| 36 | 7.6 | 7.2 | 7.2 | 7.0 | 6.8 | 6.4 | 5.9 | 5.3 | 4.6 | 36 |
| 38 | 7.5 | 7.0 | 7.0 | 6.9 | 6.6 | 6.3 | 5.9 | 5.2 | 4.6 | 38 |
| 40 | 7.0 | 6.8 | 6.8 | 6.7 | 6.5 | 6.2 | 5.7 | 5.2 | 4.6 | 40 |
| 42 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 5.9 | 5.2 | 4.8 | 4.4 | 42 |
| 44 | 6.6 | 6.5 | 6.5 | 6.4 | 6.1 | 5.3 | 4.9 | 4.4 | 4.1 | 44 |
| 46 | 6.4 | 6.3 | 6.4 | 6.3 | 5.7 | 5.1 | 4.5 | 4.1 | 3.8 | 46 |
| 48 | 6.3 | 6.2 | 6.2 | 6.2 | 5.3 | 4.7 | 4.2 | 3.8 | 3.6 | 48 |
| 50 | 5.8 | 6.1 | 5.8 | 5.9 | 4.9 | 4.3 | 3.9 | 3.6 | 3.3 | 50 |
| 52 | 5.6 | 5.6 | 5.7 | 5.4 | 4.6 | 4.0 | 3.5 | 3.3 | 3.1 | 52 |
| 54 | | 5.5 | 5.6 | 5.1 | 4.2 | 3.7 | 3.3 | 3.0 | 2.8 | 54 |
| 56 | | 5.3 | 5.4 | 4.8 | 4.0 | 3.4 | 3.0 | 2.7 | 2.6 | 56 |
| 58 | | | 5.1 | 4.5 | 3.7 | 3.1 | 2.7 | 2.5 | 2.4 | 58 |
| 60 | | | 4.9 | 4.1 | 3.2 | 2.8 | 2.6 | 2.3 | 2.3 | 60 |
| 62 | | | | 3.6 | 3.0 | 2.7 | 2.3 | 2.1 | 2.1 | 62 |
| 64 | | | | 3.3 | 2.6 | 2.3 | 2.1 | 1.9 | 1.9 | 64 |
| 66 | | | | | 2.4 | 2.1 | 1.8 | 1.8 | | 66 |
| 68 | | | | | 2.2 | 1.8 | 1.7 | | | 68 |
| 70 | | | | | | 1.6 | | | | 70 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |


26.5m（T80.8）
18.5m
10.5m
V 18m
T 85.9m
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | 80.8+18m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   | | |
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| 20 | 6.0 | 5.4 | 5.1 | | | | | | 20 |
| 22 | 5.8 | 5.3 | 5.0 | 4.8 | | | | | 22 |
| 24 | 5.7 | 5.1 | 4.9 | 4.7 | 4.2 | | | | 24 |
| 26 | 5.5 | 5.0 | 4.8 | 4.6 | 4.2 | | | | 26 |
| 28 | 5.3 | 4.8 | 4.7 | 4.5 | 4.1 | 3.7 | | | 28 |
| 30 | 5.1 | 4.7 | 4.6 | 4.4 | 4.0 | 3.7 | 3.2 | | 30 |
| 32 | 4.9 | 4.6 | 4.5 | 4.3 | 3.9 | 3.7 | 3.1 | 2.7 | 32 |
| 34 | 4.7 | 4.5 | 4.3 | 4.2 | 3.8 | 3.6 | 3.1 | 2.7 | 34 |
| 36 | 4.5 | 4.4 | 4.2 | 4.1 | 3.8 | 3.5 | 3.1 | 2.6 | 36 |
| 38 | 4.2 | 4.4 | 4.1 | 4.0 | 3.7 | 3.4 | 3.1 | 2.6 | 38 |
| 40 | 4.0 | 4.2 | 4.0 | 3.9 | 3.6 | 3.3 | 3.1 | 2.6 | 40 |
| 42 | 3.9 | 4.0 | 3.9 | 3.8 | 3.5 | 3.3 | 3.0 | 2.5 | 42 |
| 44 | 3.7 | 3.8 | 3.9 | 3.7 | 3.5 | 3.2 | 2.9 | 2.5 | 44 |
| 46 | 3.5 | 3.6 | 3.8 | 3.6 | 3.4 | 3.1 | 2.8 | 2.5 | 46 |
| 48 | 3.4 | 3.5 | 3.7 | 3.5 | 3.3 | 3.0 | 2.8 | | 48 |
| 50 | 3.3 | 3.4 | 3.6 | 3.4 | 3.2 | 3.0 | 2.7 | | 50 |
| 52 | 3.2 | 3.3 | 3.4 | 3.2 | 3.2 | 2.9 | | | 52 |
| 54 | 3.0 | 3.1 | 3.3 | 3.2 | 3.1 | 2.7 | | | 54 |
| 56 | 2.9 | 3.0 | 3.2 | 3.2 | 2.9 | 2.4 | | | 56 |
| 58 | 2.8 | 2.9 | 3.1 | 3.1 | 2.6 | | | | 58 |
| 60 | 2.6 | 2.7 | 2.9 | 3.0 | 2.3 | | | | 60 |
| 62 | 2.5 | 2.6 | 2.8 | 2.8 | 2.2 | | | | 62 |
| 64 | 2.4 | 2.5 | 2.7 | 2.6 | 1.9 | | | | 64 |
| 66 | 2.4 | 2.5 | 2.7 | 2.4 | | | | | 66 |
| 68 | 2.2 | 2.4 | 2.5 | 2.2 | | | | | 68 |
| 70 | 2.2 | 2.3 | 2.5 | 2.0 | | | | | 70 |
| 72 | 2.2 | 2.3 | 2.4 | 1.8 | | | | | 72 |
| 74 | 2.0 | 2.2 | 2.4 | | | | | | 74 |
| 76 | 2.0 | 2.2 | 2.3 | | | | | | 76 |
| 78 | 1.8 | 2.1 | 2.1 | | | | | | 78 |
| 80 | 1.8 | 2.0 | 1.9 | | | | | | 80 |
| 82 | 1.7 | 1.8 | 1.7 | | | | | | 82 |
| 84 | 1.7 | 1.8 | | | | | | | 84 |
| 86 | | 1.8 | | | | | | | 86 |
| 88 | | 1.7 | | | | | | | 88 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
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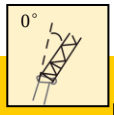
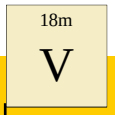
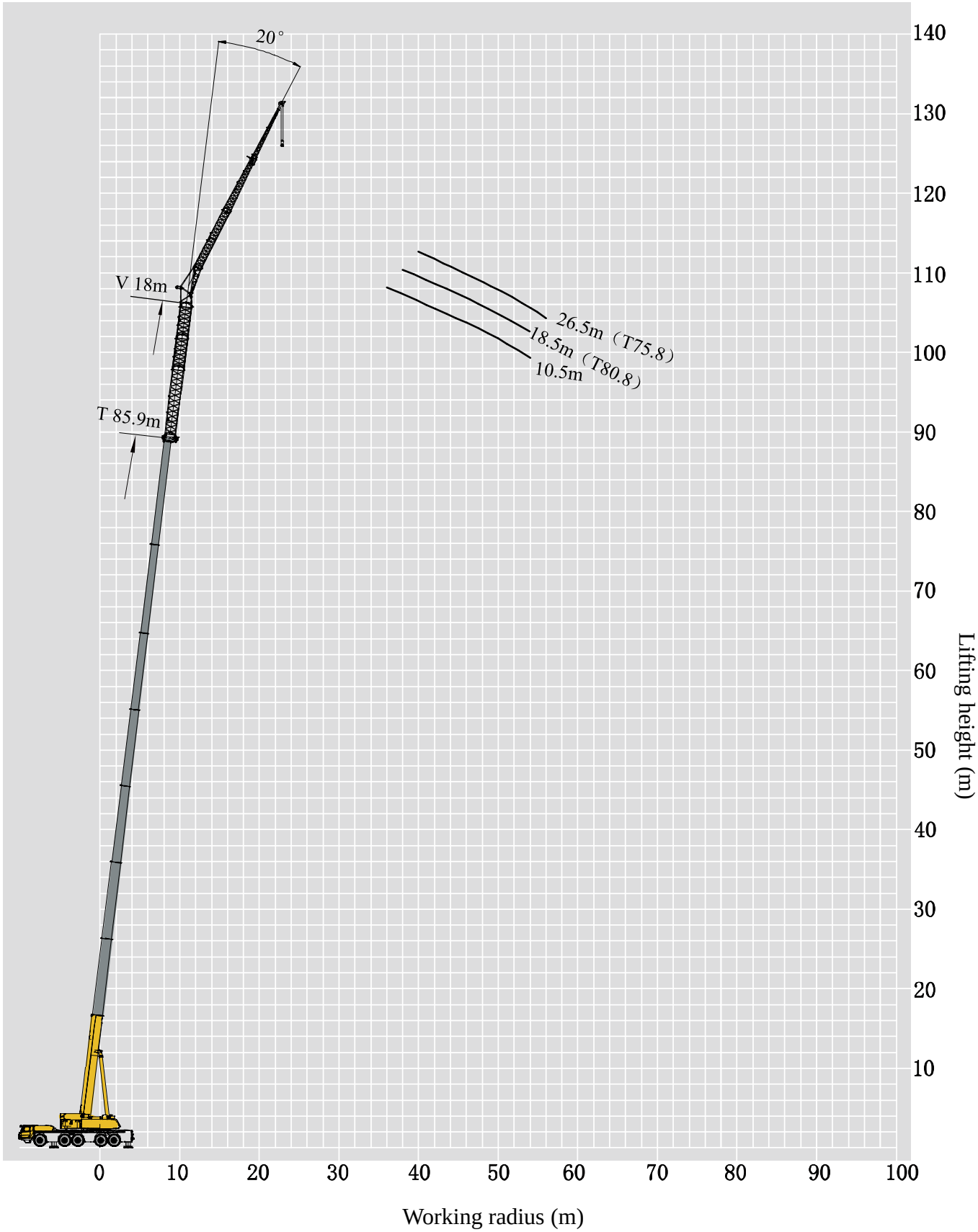


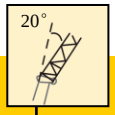


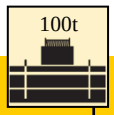

| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | 80.8+18m | 85.9+18m | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 8.5 | | | | | | | | | 16 |
| 18 | 8.3 | 7.6 | 7.3 | | | | | | | 18 |
| 20 | 7.9 | 7.1 | 6.8 | 6.4 | | | | | | 20 |
| 22 | 7.8 | 6.9 | 6.5 | 6.3 | 5.7 | | | | | 22 |
| 24 | 7.4 | 6.7 | 6.4 | 6.0 | 5.6 | 5.1 | | | | 24 |
| 26 | 6.8 | 6.5 | 6.3 | 5.9 | 5.5 | 5.1 | 4.5 | | | 26 |
| 28 | 6.5 | 6.4 | 6.1 | 5.8 | 5.4 | 5.0 | 4.4 | | | 28 |
| 30 | 6.0 | 6.1 | 6.0 | 5.7 | 5.4 | 4.9 | 4.3 | 3.9 | | 30 |
| 32 | 5.6 | 5.8 | 6.0 | 5.6 | 5.3 | 4.8 | 4.2 | 3.8 | 3.2 | 32 |
| 34 | 5.2 | 5.4 | 5.7 | 5.4 | 5.2 | 4.7 | 4.2 | 3.7 | 3.2 | 34 |
| 36 | 5.0 | 5.2 | 5.4 | 5.4 | 5.1 | 4.6 | 4.2 | 3.6 | 3.2 | 36 |
| 38 | 4.7 | 5.0 | 5.2 | 5.4 | 5.0 | 4.5 | 4.1 | 3.5 | 3.0 | 38 |
| 40 | 4.5 | 4.7 | 5.0 | 5.1 | 4.9 | 4.4 | 4.0 | 3.5 | 3.0 | 40 |
| 42 | 4.4 | 4.5 | 4.7 | 4.9 | 4.8 | 4.3 | 3.9 | 3.5 | 3.0 | 42 |
| 44 | 4.1 | 4.4 | 4.5 | 4.7 | 4.8 | 4.2 | 3.9 | 3.5 | 2.9 | 44 |
| 46 | 4.0 | 4.1 | 4.3 | 4.5 | 4.7 | 4.1 | 3.7 | 3.3 | 2.9 | 46 |
| 48 | 3.9 | 4.0 | 4.1 | 4.4 | 4.5 | 3.9 | 3.4 | 2.9 | 2.7 | 48 |
| 50 | 3.6 | 3.9 | 4.0 | 4.2 | 4.1 | 3.4 | 3.0 | 2.6 | | 50 |
| 52 | 3.5 | 3.7 | 3.9 | 4.1 | 3.8 | 3.1 | 2.7 | | | 52 |
| 54 | 3.3 | 3.6 | 3.8 | 3.9 | 3.4 | 2.9 | 2.4 | | | 54 |
| 56 | 3.2 | 3.5 | 3.6 | 3.8 | 3.1 | 2.6 | 2.1 | | | 56 |
| 58 | 3.1 | 3.4 | 3.5 | 3.6 | 2.9 | 2.3 | | | | 58 |
| 60 | 3.0 | 3.2 | 3.4 | 3.4 | 2.6 | 2.0 | | | | 60 |
| 62 | 2.8 | 3.1 | 3.3 | 3.1 | 2.3 | | | | | 62 |
| 64 | 2.8 | 3.0 | 3.1 | 2.8 | 2.0 | | | | | 64 |
| 66 | 2.7 | 2.9 | 3.1 | 2.6 | 1.9 | | | | | 66 |
| 68 | 2.6 | 2.8 | 3.0 | 2.4 | 1.6 | | | | | 68 |
| 70 | 2.5 | 2.8 | 2.9 | 2.2 | | | | | | 70 |
| 72 | 2.2 | 2.5 | 2.8 | 1.9 | | | | | | 72 |
| 74 | 2.2 | 2.5 | 2.7 | 1.8 | | | | | | 74 |
| 76 | 2.1 | 2.4 | 2.4 | | | | | | | 76 |
| 78 | | 2.2 | 2.3 | | | | | | | 78 |
| 80 | | 2.2 | 2.1 | | | | | | | 80 |
| 82 | | 2.2 | 1.9 | | | | | | | 82 |
| 84 | | | 1.8 | | | | | | | 84 |
| 86 | | | 1.6 | | | | | | | 86 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

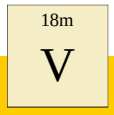
| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | 80.8+18m | 85.9+18m | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 45.5-85.9m T | 10.5m | 0° | 9.3m×8.3m | 360° | 100t | 18m V | | |
| 14 | 11.8 | | | | | | | | | 14 |
| 16 | 11.3 | 10.0 | | | | | | | | 16 |
| 18 | 10.9 | 9.7 | 9.3 | 8.7 | | | | | | 18 |
| 20 | 10.4 | 9.4 | 9.0 | 8.4 | 7.8 | | | | | 20 |
| 22 | 9.9 | 9.0 | 8.7 | 8.2 | 7.7 | | | | | 22 |
| 24 | 9.5 | 8.6 | 8.4 | 8.0 | 7.4 | 6.8 | | | | 24 |
| 26 | 9.0 | 8.3 | 8.2 | 7.8 | 7.3 | 6.6 | 5.9 | | | 26 |
| 28 | 8.6 | 8.0 | 7.9 | 7.5 | 7.1 | 6.5 | 5.8 | 4.9 | | 28 |
| 30 | 8.2 | 7.8 | 7.6 | 7.3 | 6.9 | 6.4 | 5.7 | 4.8 | | 30 |
| 32 | 7.9 | 7.4 | 7.4 | 7.1 | 6.7 | 6.2 | 5.7 | 4.8 | 4.1 | 32 |
| 34 | 7.5 | 7.2 | 7.2 | 6.9 | 6.6 | 6.2 | 5.6 | 4.8 | 4.1 | 34 |
| 36 | 7.3 | 7.0 | 6.9 | 6.7 | 6.5 | 6.1 | 5.5 | 4.7 | 4.1 | 36 |
| 38 | 7.0 | 6.8 | 6.7 | 6.6 | 6.3 | 6.0 | 5.3 | 4.7 | 4.0 | 38 |
| 40 | 6.7 | 6.5 | 6.5 | 6.4 | 6.1 | 5.5 | 5.0 | 4.5 | 4.0 | 40 |
| 42 | 6.5 | 6.3 | 6.3 | 6.2 | 5.8 | 5.0 | 4.5 | 4.2 | 3.8 | 42 |
| 44 | 6.2 | 6.0 | 6.1 | 6.1 | 5.4 | 4.6 | 4.0 | 3.8 | 3.4 | 44 |
| 46 | 6.0 | 5.9 | 6.0 | 5.8 | 4.9 | 4.2 | 3.8 | 3.4 | 3.1 | 46 |
| 48 | 5.7 | 5.7 | 5.7 | 5.5 | 4.6 | 3.8 | 3.4 | 3.1 | 2.9 | 48 |
| 50 | 5.6 | 5.6 | 5.6 | 5.1 | 4.1 | 3.5 | 3.1 | 2.7 | 2.6 | 50 |
| 52 | 5.4 | 5.3 | 5.4 | 4.7 | 3.8 | 3.2 | 2.7 | 2.4 | | 52 |
| 54 | 5.2 | 5.2 | 5.2 | 4.4 | 3.5 | 2.9 | 2.4 | 2.2 | | 54 |
| 56 | 5.0 | 5.1 | 5.1 | 4.0 | 3.2 | 2.6 | 2.2 | | | 56 |
| 58 | 4.9 | 4.9 | 5.0 | 3.7 | 2.9 | 2.3 | | | | 58 |
| 60 | 4.7 | 4.8 | 4.6 | 3.5 | 2.6 | 2.0 | | | | 60 |
| 62 | 4.6 | 4.6 | 4.3 | 3.2 | 2.3 | 1.8 | | | | 62 |
| 64 | 4.2 | 4.4 | 4.0 | 2.9 | 2.1 | | | | | 64 |
| 66 | 4.1 | 4.1 | 3.7 | 2.6 | 1.8 | | | | | 66 |
| 68 | 4.0 | 3.9 | 3.5 | 2.3 | 1.6 | | | | | 68 |
| 70 | | 3.8 | 3.3 | 2.2 | | | | | | 70 |
| 72 | | 3.7 | 2.9 | 1.8 | | | | | | 72 |
| 74 | | 3.6 | 2.5 | 1.7 | | | | | | 74 |
| 76 | | | 2.4 | | | | | | | 76 |
| 78 | | | 2.2 | | | | | | | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |


20°
V 18m
T 85.9m
26.5m（T75.8）
18.5m（T80.8）
10.5m
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

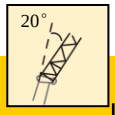
| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | |
|---|---|---|---|---|---|---|---|---|
| 28 | 3.4 | | | | | | | 28 |
| 30 | 3.2 | 3.1 | | | | | | 30 |
| 32 | 3.1 | 3.0 | 3.1 | 3.1 | | | | 32 |
| 34 | 3.0 | 2.9 | 3.1 | 3.1 | | | | 34 |
| 36 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | | | 36 |
| 38 | 2.8 | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | | 38 |
| 40 | 2.6 | 2.7 | 2.7 | 2.8 | 2.9 | 2.9 | 2.8 | 40 |
| 42 | 2.5 | 2.6 | 2.7 | 2.7 | 2.8 | 2.8 | 2.7 | 42 |
| 44 | 2.5 | 2.5 | 2.6 | 2.7 | 2.7 | 2.8 | 2.7 | 44 |
| 46 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.7 | 2.7 | 46 |
| 48 | 2.4 | 2.4 | 2.4 | 2.6 | 2.6 | 2.7 | 2.6 | 48 |
| 50 | 2.3 | 2.3 | 2.4 | 2.5 | 2.6 | 2.6 | 2.6 | 50 |
| 52 | 2.3 | 2.3 | 2.3 | 2.4 | 2.5 | 2.6 | 2.5 | 52 |
| 54 | 2.1 | 2.2 | 2.3 | 2.4 | 2.4 | 2.5 | 2.5 | 54 |
| 56 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 2.5 | 2.3 | 56 |
| 58 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | | 58 |
| 60 | 2.0 | 2.1 | 2.1 | 2.2 | 2.4 | 2.3 | | 60 |
| 62 | 2.0 | 2.0 | 2.1 | 2.2 | 2.3 | 2.0 | | 62 |
| 64 | 1.9 | 2.0 | 2.1 | 2.1 | 2.2 | | | 64 |
| 66 | 1.9 | 2.0 | 2.0 | 2.1 | 2.0 | | | 66 |
| 68 | 1.8 | 1.9 | 2.0 | 2.1 | 1.9 | | | 68 |
| 70 | 1.8 | 1.9 | 2.0 | 2.1 | | | | 70 |
| 72 | 1.8 | 1.9 | 1.9 | 2.0 | | | | 72 |
| 74 | 1.7 | 1.8 | 1.8 | 1.8 | | | | 74 |
| 76 | 1.7 | 1.7 | 1.8 | 1.7 | | | | 76 |
| 78 | | 1.6 | 1.8 | | | | | 78 |
| 80 | | 1.6 | 1.7 | | | | | 80 |
| 82 | | 1.6 | 1.7 | | | | | 82 |
| 84 | | 1.6 | 1.6 | | | | | 84 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

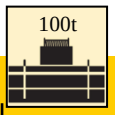


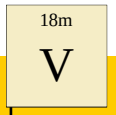




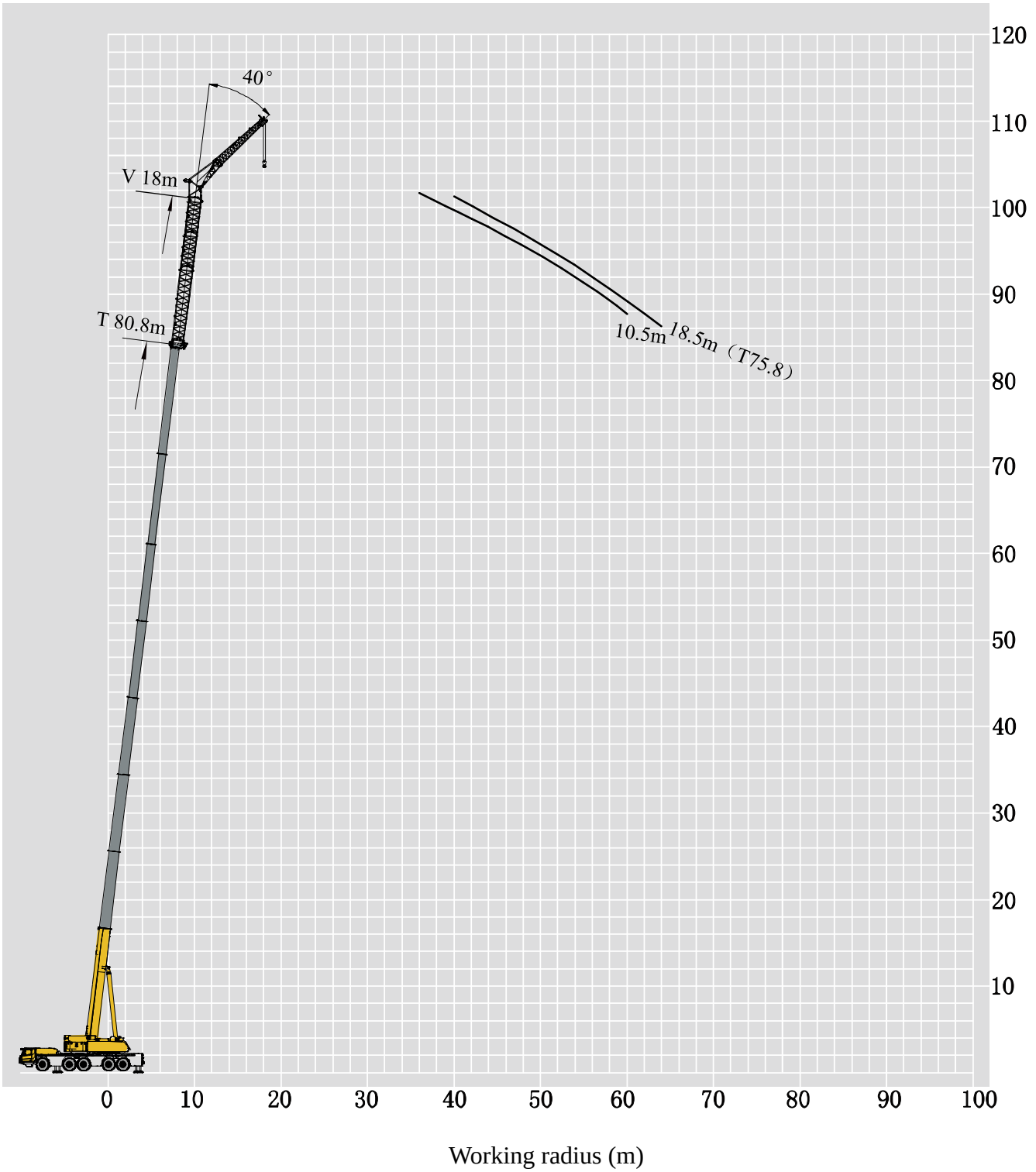

| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | 80.8+18m | |
|---|---|---|---|---|---|---|---|---|---|
| 24 | 4.2 | | | | | | | | 24 |
| 26 | 4.0 | 4.0 | 4.1 | | | | | | 26 |
| 28 | 3.8 | 3.9 | 3.9 | 4.0 | | | | | 28 |
| 30 | 3.7 | 3.8 | 3.8 | 3.9 | 3.9 | | | | 30 |
| 32 | 3.6 | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | | | 32 |
| 34 | 3.4 | 3.5 | 3.6 | 3.7 | 3.7 | 3.7 | 3.8 | | 34 |
| 36 | 3.3 | 3.4 | 3.5 | 3.6 | 3.6 | 3.6 | 3.7 | | 36 |
| 38 | 3.2 | 3.3 | 3.4 | 3.4 | 3.5 | 3.5 | 3.6 | 3.4 | 38 |
| 40 | 3.1 | 3.2 | 3.3 | 3.3 | 3.4 | 3.4 | 3.5 | 3.4 | 40 |
| 42 | 3.0 | 3.1 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.3 | 42 |
| 44 | 2.9 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.3 | 44 |
| 46 | 2.8 | 2.9 | 3.0 | 3.0 | 3.1 | 3.3 | 3.3 | 3.3 | 46 |
| 48 | 2.8 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.2 | 48 |
| 50 | 2.7 | 2.8 | 2.8 | 2.9 | 3.0 | 3.1 | 3.3 | 3.0 | 50 |
| 52 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.0 | 2.8 | 52 |
| 54 | 2.6 | 2.7 | 2.7 | 2.8 | 2.9 | 3.0 | 2.7 | 2.5 | 54 |
| 56 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 2.9 | 2.5 | | 56 |
| 58 | 2.4 | 2.5 | 2.7 | 2.7 | 2.9 | 2.6 | 2.2 | | 58 |
| 60 | 2.4 | 2.5 | 2.5 | 2.7 | 2.8 | 2.4 | | | 60 |
| 62 | 2.4 | 2.4 | 2.5 | 2.7 | 2.6 | 2.2 | | | 62 |
| 64 | 2.3 | 2.4 | 2.5 | 2.5 | 2.4 | 1.9 | | | 64 |
| 66 | 2.3 | 2.4 | 2.4 | 2.5 | 2.2 | | | | 66 |
| 68 | 2.2 | 2.2 | 2.4 | 2.5 | 2.0 | | | | 68 |
| 70 | 2.1 | 2.2 | 2.4 | 2.4 | 1.7 | | | | 70 |
| 72 | 2.0 | 2.1 | 2.4 | 2.2 | | | | | 72 |
| 74 | 2.0 | 2.1 | 2.2 | 2.0 | | | | | 74 |
| 76 | | 2.1 | 2.2 | 1.7 | | | | | 76 |
| 78 | | 2.1 | 2.1 | | | | | | 78 |
| 80 | | | 2.1 | | | | | | 80 |
| 82 | | | 1.9 | | | | | | 82 |
| 84 | | | 1.8 | | | | | | 84 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |



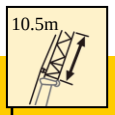
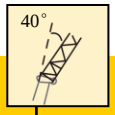
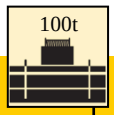
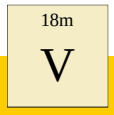


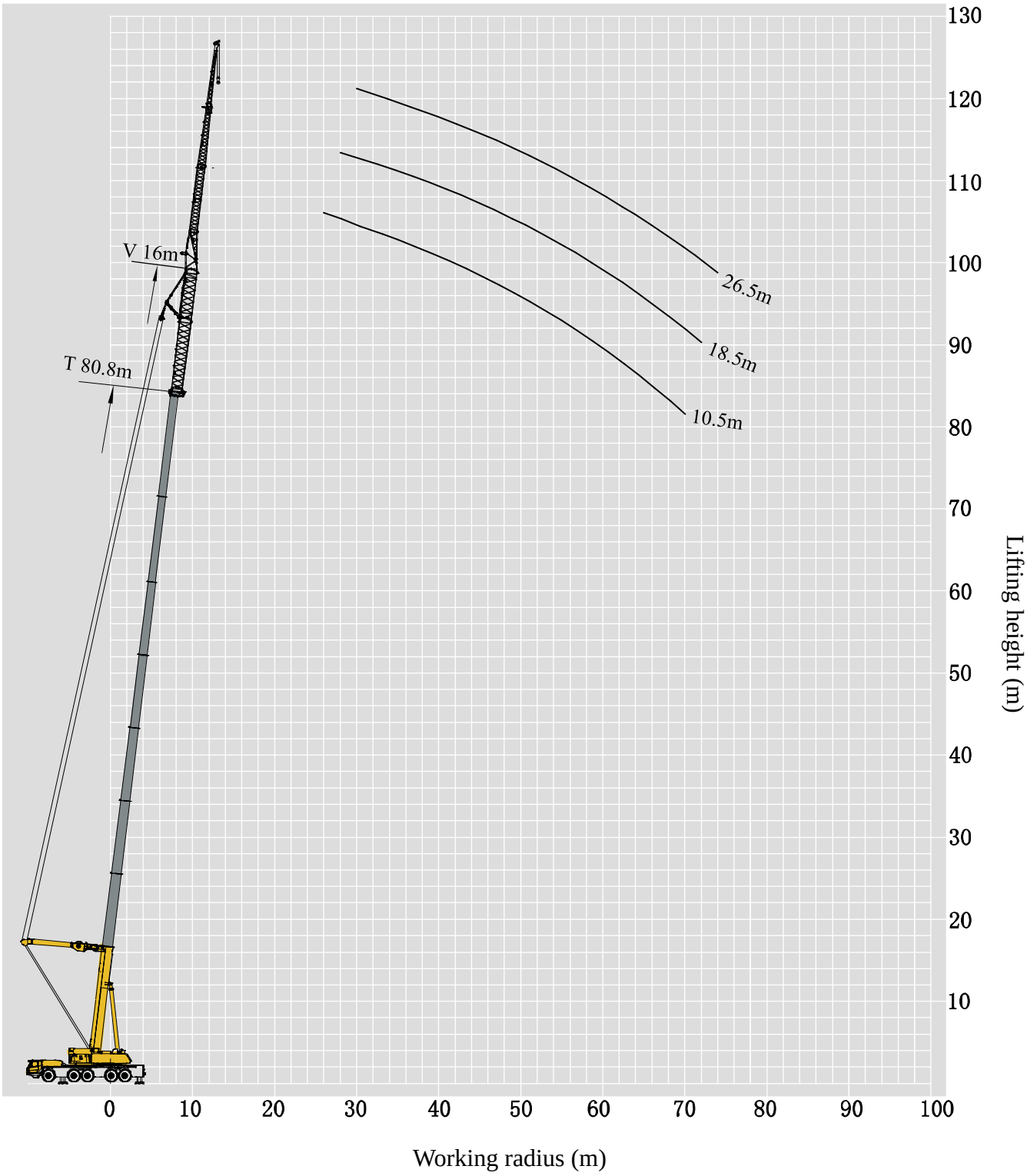


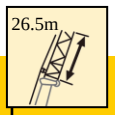
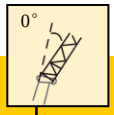
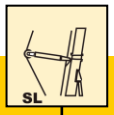
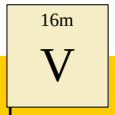

| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | 80.8+18m | 85.9+18m | |
|---|---|---|---|---|---|---|---|---|---|---|
| 18 | 9.8 | | | | | | | | | 18 |
| 20 | 9.4 | 8.6 | | | | | | | | 20 |
| 22 | 8.9 | 8.3 | 8.0 | | | | | | | 22 |
| 24 | 8.6 | 8.0 | 7.8 | 7.0 | | | | | | 24 |
| 26 | 8.3 | 7.7 | 7.6 | 6.9 | 6.8 | | | | | 26 |
| 28 | 7.9 | 7.4 | 7.4 | 6.8 | 6.7 | 6.2 | | | | 28 |
| 30 | 7.7 | 7.2 | 7.1 | 6.7 | 6.5 | 6.1 | | | | 30 |
| 32 | 7.3 | 7.0 | 6.9 | 6.6 | 6.4 | 5.9 | 5.4 | | | 32 |
| 34 | 7.1 | 6.7 | 6.7 | 6.5 | 6.2 | 5.8 | 5.3 | 4.6 | | 34 |
| 36 | 6.8 | 6.5 | 6.5 | 6.3 | 6.1 | 5.7 | 5.2 | 4.6 | 4.0 | 36 |
| 38 | 6.5 | 6.3 | 6.3 | 6.2 | 5.9 | 5.6 | 5.1 | 4.6 | 4.0 | 38 |
| 40 | 6.3 | 6.2 | 6.1 | 6.0 | 5.8 | 5.6 | 5.0 | 4.6 | 4.0 | 40 |
| 42 | 6.0 | 5.9 | 5.9 | 5.8 | 5.7 | 5.2 | 4.7 | 4.4 | 3.9 | 42 |
| 44 | 5.9 | 5.7 | 5.7 | 5.7 | 5.5 | 4.8 | 4.3 | 3.9 | 3.5 | 44 |
| 46 | 5.7 | 5.6 | 5.6 | 5.6 | 5.2 | 4.4 | 3.9 | 3.5 | 3.2 | 46 |
| 48 | 5.5 | 5.4 | 5.5 | 5.4 | 4.8 | 4.0 | 3.6 | 3.3 | 3.0 | 48 |
| 50 | 5.3 | 5.2 | 5.3 | 5.3 | 4.4 | 3.7 | 3.2 | 3.0 | 2.7 | 50 |
| 52 | 5.2 | 5.1 | 5.1 | 4.9 | 4.0 | 3.3 | 3.0 | 2.7 | 2.5 | 52 |
| 54 | 5.0 | 5.0 | 5.0 | 4.6 | 3.7 | 3.0 | 2.7 | 2.5 | 2.4 | 54 |
| 56 | 4.9 | 4.8 | 4.9 | 4.2 | 3.4 | 2.8 | 2.4 | 2.2 | | 56 |
| 58 | 4.7 | 4.7 | 4.9 | 3.9 | 3.1 | 2.5 | 2.1 | | | 58 |
| 60 | 4.5 | 4.6 | 4.7 | 3.6 | 2.8 | 2.2 | 1.9 | | | 60 |
| 62 | 4.2 | 4.2 | 4.4 | 3.4 | 2.5 | 2.0 | | | | 62 |
| 64 | 4.2 | 4.1 | 4.1 | 3.1 | 2.2 | 1.8 | | | | 64 |
| 66 | 4.0 | 4.0 | 3.8 | 2.8 | 2.1 | | | | | 66 |
| 68 | | 3.8 | 3.6 | 2.5 | 1.8 | | | | | 68 |
| 70 | | 3.7 | 3.4 | 2.2 | 1.6 | | | | | 70 |
| 72 | | | 2.9 | 2.0 | | | | | | 72 |
| 74 | | | 2.6 | 1.8 | | | | | | 74 |
| 76 | | | 2.5 | | | | | | | 76 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | 2222222 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

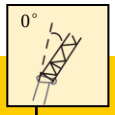
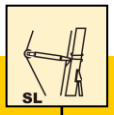
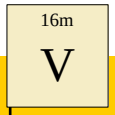

40°
V 18m
T 80.8m
10.5m
18.5m（T75.8）
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

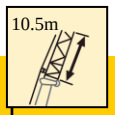
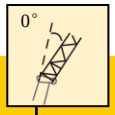
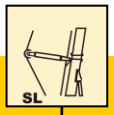
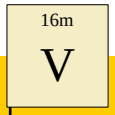
| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | |
|---|---|---|---|---|---|---|---|---|
| 26 | 2.8 | | | | | | | 26 |
| 28 | 2.7 | 2.7 | | | | | | 28 |
| 30 | 2.6 | 2.7 | | | | | | 30 |
| 32 | 2.6 | 2.6 | 2.6 | 2.6 | | | | 32 |
| 34 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | | | 34 |
| 36 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | | | 36 |
| 38 | 2.5 | 2.4 | 2.6 | 2.6 | 2.6 | 2.6 | | 38 |
| 40 | 2.4 | 2.4 | 2.6 | 2.6 | 2.5 | 2.6 | 2.6 | 40 |
| 42 | 2.3 | 2.4 | 2.4 | 2.6 | 2.5 | 2.6 | 2.6 | 42 |
| 44 | 2.3 | 2.3 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 44 |
| 46 | 2.3 | 2.3 | 2.4 | 2.3 | 2.5 | 2.6 | 2.6 | 46 |
| 48 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.6 | 2.6 | 48 |
| 50 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.5 | 50 |
| 52 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 52 |
| 54 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 54 |
| 56 | 2.2 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.4 | 56 |
| 58 | 2.1 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.4 | 58 |
| 60 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 60 |
| 62 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 2.3 | 2.2 | 62 |
| 64 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 2.2 | 1.9 | 64 |
| 66 | | 2.2 | 2.2 | 2.2 | 2.3 | 2.0 | | 66 |
| 68 | | | 2.2 | 2.2 | 2.3 | | | 68 |
| 70 | | | 2.2 | 2.2 | 2.0 | | | 70 |
| 72 | | | | 2.2 | 1.9 | | | 72 |
| 74 | | | | 2.2 | | | | 74 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+18m | 50.6+18m | 55.6+18m | 60.7+18m | 65.7+18m | 70.7+18m | 75.8+18m | 80.8+18m | |
|---|---|---|---|---|---|---|---|---|---|
| |   |   |   |   |   |   |   | | |
| 20 | 8.9 | | | | | | | | 20 |
| 22 | 8.7 | 7.7 | | | | | | | 22 |
| 24 | 8.0 | 7.5 | 7.3 | | | | | | 24 |
| 26 | 7.7 | 7.2 | 7.1 | 6.8 | | | | | 26 |
| 28 | 7.5 | 7.0 | 6.9 | 6.7 | 6.3 | | | | 28 |
| 30 | 7.3 | 6.8 | 6.8 | 6.5 | 6.2 | 5.5 | | | 30 |
| 32 | 6.9 | 6.7 | 6.6 | 6.3 | 6.1 | 5.5 | | | 32 |
| 34 | 6.7 | 6.4 | 6.3 | 6.2 | 6.0 | 5.5 | 5.1 | | 34 |
| 36 | 6.5 | 6.2 | 6.2 | 6.0 | 5.9 | 5.5 | 5.0 | 4.5 | 36 |
| 38 | 6.3 | 6.1 | 6.1 | 5.9 | 5.8 | 5.4 | 4.9 | 4.4 | 38 |
| 40 | 6.1 | 5.9 | 5.9 | 5.8 | 5.5 | 5.3 | 4.9 | 4.4 | 40 |
| 42 | 5.9 | 5.7 | 5.7 | 5.7 | 5.4 | 5.2 | 4.9 | 4.2 | 42 |
| 44 | 5.7 | 5.5 | 5.6 | 5.6 | 5.3 | 5.0 | 4.5 | 4.1 | 44 |
| 46 | 5.5 | 5.4 | 5.5 | 5.4 | 5.3 | 4.7 | 4.1 | 3.7 | 46 |
| 48 | 5.4 | 5.3 | 5.3 | 5.3 | 5.0 | 4.3 | 3.9 | 3.4 | 48 |
| 50 | 5.3 | 5.2 | 5.1 | 5.1 | 4.6 | 4.0 | 3.5 | 3.2 | 50 |
| 52 | 4.8 | 4.8 | 5.0 | 5.0 | 4.3 | 3.6 | 3.2 | 2.9 | 52 |
| 54 | 4.6 | 4.7 | 4.6 | 4.8 | 4.0 | 3.3 | 2.9 | 2.6 | 54 |
| 56 | 4.5 | 4.5 | 4.6 | 4.4 | 3.7 | 3.1 | 2.7 | 2.4 | 56 |
| 58 | | 4.4 | 4.5 | 4.1 | 3.4 | 2.8 | 2.4 | 2.2 | 58 |
| 60 | | | 4.4 | 3.7 | 3.1 | 2.5 | 2.3 | 2.0 | 60 |
| 62 | | | 4.2 | 3.2 | 2.7 | 2.3 | 2.0 | | 62 |
| 64 | | | | 3.0 | 2.4 | 2.0 | 1.8 | | 64 |
| 66 | | | | 2.7 | 2.1 | 1.8 | | | 66 |
| 68 | | | | | 1.9 | | | | 68 |
| 70 | | | | | 1.7 | | | | 70 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

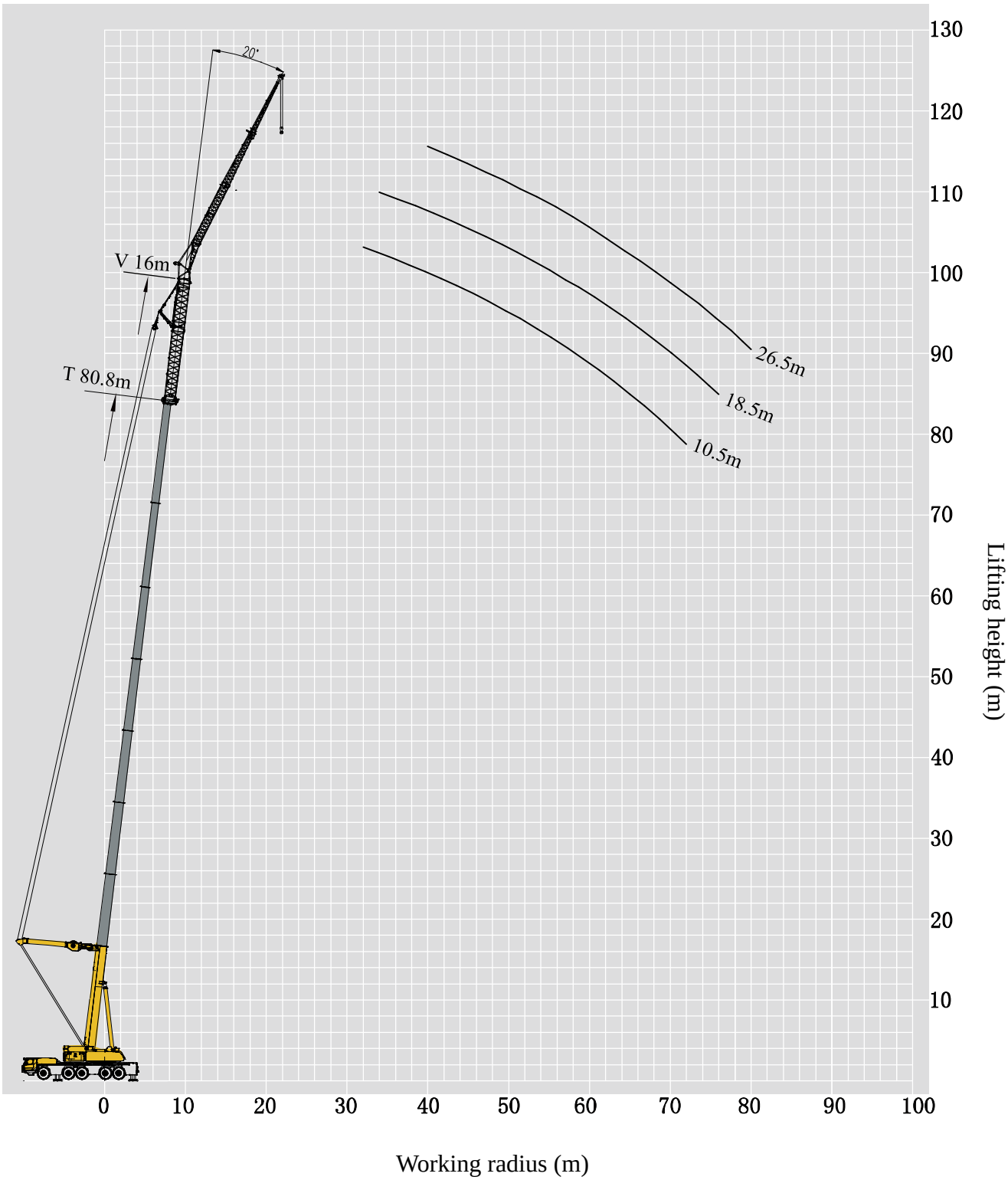

V 16m
T 80.8m
26.5m
18.5m
10.5m
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 14 | 10.4 | | | | | | | | 14 |
| 16 | 10.0 | 10.1 | | | | | | | 16 |
| 18 | 8.9 | 9.3 | 9.5 | | | | | | 18 |
| 20 | 8.2 | 8.5 | 8.8 | 9.1 | | | | | 20 |
| 22 | 7.4 | 7.7 | 8.1 | 8.3 | 8.7 | | | | 22 |
| 24 | 6.8 | 7.1 | 7.5 | 7.7 | 8.0 | 8.1 | | | 24 |
| 26 | 6.3 | 6.6 | 6.9 | 7.1 | 7.5 | 7.7 | | | 26 |
| 28 | 5.9 | 6.1 | 6.5 | 6.6 | 7.1 | 7.2 | 7.1 | | 28 |
| 30 | 5.4 | 5.7 | 6.0 | 6.2 | 6.6 | 6.8 | 6.7 | 5.9 | 30 |
| 32 | 5.1 | 5.3 | 5.6 | 5.8 | 6.1 | 6.3 | 6.3 | 5.9 | 32 |
| 34 | 4.8 | 5.0 | 5.3 | 5.5 | 5.7 | 5.9 | 6.0 | 5.9 | 34 |
| 36 | 4.5 | 4.8 | 5.0 | 5.2 | 5.5 | 5.6 | 5.7 | 5.7 | 36 |
| 38 | 4.4 | 4.6 | 4.8 | 5.0 | 5.3 | 5.3 | 5.5 | 5.6 | 38 |
| 40 | 4.1 | 4.3 | 4.5 | 4.8 | 4.9 | 5.1 | 5.3 | 5.2 | 40 |
| 42 | 3.8 | 4.1 | 4.3 | 4.5 | 4.7 | 4.9 | 5.0 | 4.9 | 42 |
| 44 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 4.7 | 4.9 | 4.8 | 44 |
| 46 | 3.5 | 3.7 | 3.9 | 4.2 | 4.3 | 4.5 | 4.6 | 4.7 | 46 |
| 48 | 3.4 | 3.5 | 3.8 | 3.9 | 4.2 | 4.3 | 4.5 | 4.5 | 48 |
| 50 | 3.2 | 3.4 | 3.6 | 3.8 | 4.0 | 4.1 | 4.3 | 4.3 | 50 |
| 52 | 3.0 | 3.3 | 3.4 | 3.7 | 3.8 | 4.0 | 4.0 | 4.1 | 52 |
| 54 | 3.0 | 3.1 | 3.3 | 3.5 | 3.7 | 3.9 | 3.9 | 4.0 | 54 |
| 56 | 2.8 | 2.9 | 3.2 | 3.3 | 3.6 | 3.7 | 3.8 | 3.9 | 56 |
| 58 | 2.6 | 2.9 | 3.1 | 3.2 | 3.5 | 3.6 | 3.7 | 3.7 | 58 |
| 60 | 2.6 | 2.7 | 2.9 | 3.0 | 3.3 | 3.4 | 3.6 | 3.6 | 60 |
| 62 | 2.3 | 2.4 | 2.6 | 2.8 | 3.1 | 3.1 | 3.3 | 3.3 | 62 |
| 64 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 3.0 | 3.2 | 3.2 | 64 |
| 66 | 2.2 | 2.4 | 2.5 | 2.7 | 2.7 | 2.9 | 3.1 | 3.1 | 66 |
| 68 | 2.2 | 2.2 | 2.4 | 2.5 | 2.7 | 2.8 | 3.0 | 3.0 | 68 |
| 70 | 1.9 | 2.1 | 2.2 | 2.4 | 2.5 | 2.6 | 2.6 | 2.7 | 70 |
| 72 | 1.9 | 2.0 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.3 | 72 |
| 74 | 1.8 | 2.0 | 2.0 | 2.1 | 1.9 | 1.8 | 1.8 | 1.9 | 74 |
| 76 | 1.8 | 1.9 | 2.0 | 1.7 | | | | | 76 |
| 78 | 1.7 | 1.8 | 1.8 | | | | | | 78 |
| 80 | 1.6 | 1.7 | | | | | | | 80 |
| 82 | | 1.7 | | | | | | | 82 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

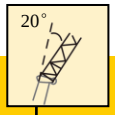
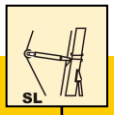
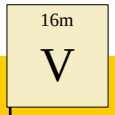
| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 12 | 12.8 | | | | | | | | 12 |
| 14 | 12.6 | 12.4 | | | | | | | 14 |
| 16 | 11.8 | 12.2 | 12.2 | | | | | | 16 |
| 18 | 10.5 | 11.1 | 11.6 | 11.8 | | | | | 18 |
| 20 | 9.5 | 10.0 | 10.6 | 11.0 | 11.6 | | | | 20 |
| 22 | 8.6 | 9.1 | 9.6 | 10.0 | 10.5 | 10.8 | | | 22 |
| 24 | 7.9 | 8.3 | 8.9 | 9.2 | 9.7 | 10.0 | | | 24 |
| 26 | 7.3 | 7.6 | 8.1 | 8.5 | 8.9 | 9.2 | 9.4 | | 26 |
| 28 | 6.7 | 7.1 | 7.6 | 7.9 | 8.3 | 8.6 | 8.7 | 8.7 | 28 |
| 30 | 6.2 | 6.7 | 7.0 | 7.3 | 7.9 | 8.1 | 8.2 | 8.1 | 30 |
| 32 | 5.8 | 6.2 | 6.5 | 6.9 | 7.2 | 7.6 | 7.7 | 7.7 | 32 |
| 34 | 5.5 | 5.8 | 6.2 | 6.5 | 6.8 | 7.2 | 7.3 | 7.3 | 34 |
| 36 | 5.2 | 5.5 | 5.9 | 6.2 | 6.5 | 6.7 | 6.9 | 6.9 | 36 |
| 38 | 4.9 | 5.2 | 5.5 | 5.9 | 6.2 | 6.3 | 6.5 | 6.7 | 38 |
| 40 | 4.7 | 5.0 | 5.2 | 5.5 | 5.9 | 6.1 | 6.2 | 6.3 | 40 |
| 42 | 4.4 | 4.7 | 5.0 | 5.3 | 5.6 | 5.7 | 6.0 | 6.1 | 42 |
| 44 | 4.2 | 4.5 | 4.8 | 5.1 | 5.4 | 5.5 | 5.7 | 5.8 | 44 |
| 46 | 4.1 | 4.3 | 4.6 | 4.8 | 5.1 | 5.3 | 5.6 | 5.7 | 46 |
| 48 | 3.9 | 4.1 | 4.3 | 4.7 | 4.9 | 5.1 | 5.3 | 5.4 | 48 |
| 50 | 3.7 | 3.9 | 4.2 | 4.5 | 4.8 | 5.0 | 5.1 | 5.2 | 50 |
| 52 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.8 | 4.9 | 5.1 | 52 |
| 54 | 3.4 | 3.6 | 3.9 | 4.1 | 4.3 | 4.5 | 4.7 | 4.9 | 54 |
| 56 | 3.2 | 3.5 | 3.8 | 4.0 | 4.2 | 4.4 | 4.5 | 4.7 | 56 |
| 58 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4.0 | 4.2 | 4.4 | 58 |
| 60 | 2.8 | 3.1 | 3.3 | 3.5 | 3.7 | 3.9 | 4.0 | 4.2 | 60 |
| 62 | 2.8 | 2.9 | 3.2 | 3.4 | 3.6 | 3.6 | 3.7 | 3.9 | 62 |
| 64 | 2.6 | 2.8 | 3.1 | 3.1 | 3.3 | 3.4 | 3.5 | 3.7 | 64 |
| 66 | 2.6 | 2.6 | 2.7 | 3.0 | 3.0 | 3.0 | 3.1 | 3.2 | 66 |
| 68 | 2.4 | 2.5 | 2.7 | 2.7 | 2.6 | 2.5 | 2.6 | 2.7 | 68 |
| 70 | 2.3 | 2.5 | 2.5 | 2.3 | 2.1 | 2.1 | 2.2 | 2.3 | 70 |
| 72 | 2.2 | 2.4 | 2.3 | 1.9 | 1.7 | 1.7 | 1.7 | 1.9 | 72 |
| 74 | 2.1 | 2.3 | 1.9 | | | | | | 74 |
| 76 | | 2.1 | | | | | | | 76 |
| 78 | | 1.8 | | | | | | | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

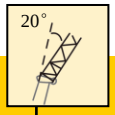
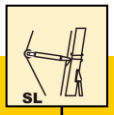
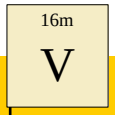
| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| |  |   |   |   |   |   |   |   |   | |
| 10 | 26.3 | | | | | | | | 10 |
| 12 | 26.3 | 26.3 | | | | | | | 12 |
| 14 | 25.9 | 26.3 | 26.3 | | | | | | 14 |
| 16 | 24.1 | 24.6 | 25.1 | 25.4 | | | | | 16 |
| 18 | 22.3 | 22.8 | 23.7 | 24.1 | 24.8 | | | | 18 |
| 20 | 20.7 | 21.4 | 22.2 | 22.6 | 23.5 | | | | 20 |
| 22 | 19.3 | 20.0 | 20.8 | 21.2 | 22.1 | 22.3 | | | 22 |
| 24 | 17.9 | 18.6 | 19.5 | 20.0 | 20.9 | 21.1 | 17.7 | | 24 |
| 26 | 16.7 | 17.5 | 18.3 | 19.0 | 19.8 | 20.2 | 16.7 | 12.0 | 26 |
| 28 | 15.8 | 16.6 | 17.2 | 17.9 | 18.9 | 19.1 | 15.8 | 12.0 | 28 |
| 30 | 14.8 | 15.7 | 16.4 | 16.9 | 18.0 | 18.2 | 15.1 | 12.0 | 30 |
| 32 | 14.1 | 14.7 | 15.6 | 16.2 | 17.1 | 17.5 | 14.4 | 10.6 | 32 |
| 34 | 13.4 | 14.1 | 14.7 | 15.5 | 16.4 | 16.6 | 13.6 | 10.1 | 34 |
| 36 | 12.9 | 13.5 | 14.1 | 14.8 | 15.2 | 15.2 | 12.8 | 9.7 | 36 |
| 38 | 12.6 | 12.8 | 13.5 | 14.2 | 14.3 | 14.3 | 11.8 | 9.2 | 38 |
| 40 | 11.9 | 12.5 | 13.0 | 13.3 | 13.3 | 13.3 | 11.3 | 8.9 | 40 |
| 42 | 11.4 | 12.1 | 12.4 | 11.9 | 11.7 | 11.4 | 10.7 | 8.5 | 42 |
| 44 | 10.9 | 11.6 | 11.4 | 10.7 | 10.1 | 10.5 | 10.2 | 8.2 | 44 |
| 46 | 10.5 | 10.6 | 10.0 | 9.6 | 9.4 | 9.5 | 9.7 | 7.8 | 46 |
| 48 | 9.2 | 9.6 | 9.0 | 8.6 | 8.4 | 8.4 | 8.6 | 7.4 | 48 |
| 50 | 8.3 | 8.7 | 8.0 | 7.7 | 7.5 | 7.5 | 7.7 | 7.0 | 50 |
| 52 | 7.4 | 7.9 | 7.2 | 6.8 | 6.7 | 6.7 | 6.8 | 6.7 | 52 |
| 54 | 6.6 | 7.1 | 6.4 | 6.1 | 5.9 | 5.9 | 6.0 | 6.4 | 54 |
| 56 | 5.9 | 6.4 | 5.7 | 5.3 | 5.2 | 5.2 | 5.3 | 5.6 | 56 |
| 58 | 5.1 | 5.6 | 5.0 | 4.7 | 4.5 | 4.5 | 4.7 | 4.9 | 58 |
| 60 | 4.5 | 5.0 | 4.3 | 4.0 | 3.8 | 3.8 | 4.1 | 4.3 | 60 |
| 62 | 3.9 | 4.4 | 3.8 | 3.4 | 3.3 | 3.3 | 3.4 | 3.6 | 62 |
| 64 | 3.4 | 3.8 | 3.2 | 2.9 | 2.7 | 2.7 | 2.9 | 3.1 | 64 |
| 66 | 2.9 | 3.3 | 2.7 | 2.4 | 2.2 | 2.3 | 2.4 | 2.6 | 66 |
| 68 | | 2.9 | 2.3 | 1.9 | 1.8 | 1.8 | 1.9 | 2.1 | 68 |
| 70 | | 2.4 | 1.8 | | | | | 1.7 | 70 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | n |

**Working range diagram** **Boom + super lift+16m extension + fixed jib 20° offset angle**

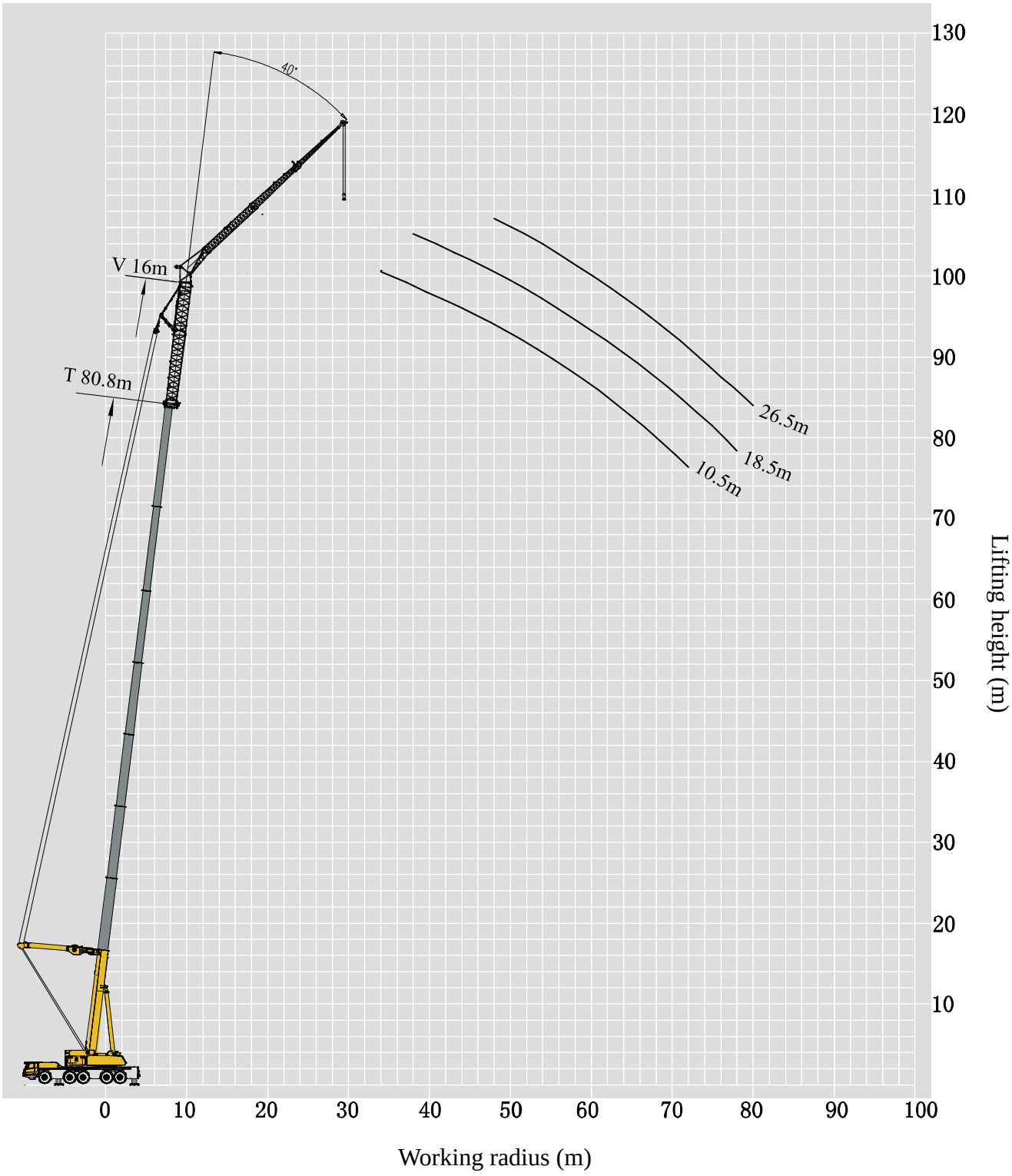


| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| 24 | 3.6 | | | | | | | | 24 |
| 26 | 3.5 | 3.6 | | | | | | | 26 |
| 28 | 3.3 | 3.5 | 3.5 | | | | | | 28 |
| 30 | 3.2 | 3.3 | 3.4 | 3.4 | 3.4 | | | | 30 |
| 32 | 3.1 | 3.1 | 3.2 | 3.3 | 3.3 | 3.4 | | | 32 |
| 34 | 2.9 | 3.0 | 3.0 | 3.2 | 3.2 | 3.3 | | | 34 |
| 36 | 2.7 | 2.9 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | | 36 |
| 38 | 2.7 | 2.8 | 2.8 | 3.0 | 3.0 | 3.0 | 3.0 | | 38 |
| 40 | 2.6 | 2.7 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 40 |
| 42 | 2.6 | 2.6 | 2.7 | 2.8 | 2.8 | 2.8 | 3.0 | 3.1 | 42 |
| 44 | 2.4 | 2.6 | 2.6 | 2.6 | 2.7 | 2.8 | 2.8 | 2.9 | 44 |
| 46 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.7 | 2.7 | 2.9 | 46 |
| 48 | 2.3 | 2.4 | 2.5 | 2.5 | 2.7 | 2.7 | 2.7 | 2.8 | 48 |
| 50 | 2.3 | 2.3 | 2.5 | 2.5 | 2.5 | 2.7 | 2.6 | 2.7 | 50 |
| 52 | 2.3 | 2.3 | 2.4 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 52 |
| 54 | 2.1 | 2.3 | 2.3 | 2.3 | 2.5 | 2.5 | 2.5 | 2.6 | 54 |
| 56 | 2.1 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.4 | 2.6 | 56 |
| 58 | 2.0 | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 58 |
| 60 | 2.0 | 2.0 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 2.5 | 60 |
| 62 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.4 | 62 |
| 64 | 1.8 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.3 | 64 |
| 66 | 1.8 | 1.8 | 2.0 | 1.9 | 2.1 | 2.1 | 2.2 | 2.2 | 66 |
| 68 | 1.6 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 68 |
| 70 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 70 |
| 72 | | 1.6 | 1.8 | 1.7 | 1.9 | 1.9 | 1.9 | 1.9 | 72 |
| 74 | | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 1.9 | 1.9 | 74 |
| 76 | | 1.6 | 1.7 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 76 |
| 78 | | | 1.7 | 1.6 | 1.8 | 1.8 | 1.8 | 1.9 | 78 |
| 80 | | | | 1.6 | | | 1.6 | 1.7 | 80 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

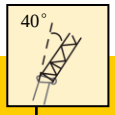
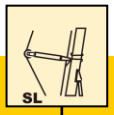
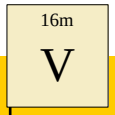
| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 18 | 4.9 | | | | | | | | 18 |
| 20 | 4.7 | 4.8 | | | | | | | 20 |
| 22 | 4.5 | 4.6 | 4.7 | | | | | | 22 |
| 24 | 4.3 | 4.3 | 4.4 | 4.5 | | | | | 24 |
| 26 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 | | | | 26 |
| 28 | 3.9 | 4.0 | 4.1 | 4.2 | 4.2 | 4.4 | | | 28 |
| 30 | 3.8 | 3.8 | 4.0 | 4.1 | 4.1 | 4.2 | 4.3 | | 30 |
| 32 | 3.6 | 3.7 | 3.9 | 3.9 | 4.0 | 4.0 | 4.1 | | 32 |
| 34 | 3.5 | 3.6 | 3.8 | 3.8 | 3.8 | 3.9 | 4.0 | 4.2 | 34 |
| 36 | 3.4 | 3.5 | 3.6 | 3.7 | 3.7 | 3.8 | 3.9 | 4.0 | 36 |
| 38 | 3.3 | 3.4 | 3.5 | 3.6 | 3.6 | 3.7 | 3.8 | 3.8 | 38 |
| 40 | 3.1 | 3.3 | 3.4 | 3.5 | 3.5 | 3.6 | 3.7 | 3.7 | 40 |
| 42 | 3.0 | 3.1 | 3.3 | 3.4 | 3.4 | 3.5 | 3.6 | 3.6 | 42 |
| 44 | 2.9 | 3.0 | 3.2 | 3.3 | 3.3 | 3.4 | 3.5 | 3.5 | 44 |
| 46 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.3 | 3.5 | 46 |
| 48 | 2.9 | 2.9 | 2.9 | 3.0 | 3.2 | 3.3 | 3.3 | 3.4 | 48 |
| 50 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | 3.3 | 50 |
| 52 | 2.7 | 2.8 | 2.8 | 3.0 | 2.9 | 3.1 | 3.1 | 3.3 | 52 |
| 54 | 2.7 | 2.7 | 2.8 | 2.9 | 2.9 | 3.0 | 3.1 | 3.1 | 54 |
| 56 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.0 | 56 |
| 58 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 58 |
| 60 | 2.4 | 2.4 | 2.4 | 2.6 | 2.6 | 2.7 | 2.7 | 2.8 | 60 |
| 62 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.7 | 2.8 | 62 |
| 64 | 2.2 | 2.3 | 2.4 | 2.5 | 2.5 | 2.6 | 2.7 | 2.8 | 64 |
| 66 | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.5 | 2.5 | 2.5 | 66 |
| 68 | 2.1 | 2.1 | 2.1 | 2.3 | 2.3 | 2.4 | 2.5 | 2.5 | 68 |
| 70 | 2.0 | 2.1 | 2.1 | 2.2 | 2.3 | 2.4 | 2.4 | 2.5 | 70 |
| 72 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 2.5 | 72 |
| 74 | | 2.1 | 2.1 | 2.0 | 1.9 | 1.9 | 2.0 | 2.2 | 74 |
| 76 | | 2.1 | 1.9 | 1.6 | | | 1.6 | 1.8 | 76 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

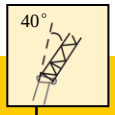
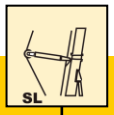
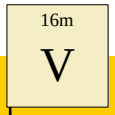
| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| |  |   |   |   |   |   |   |   |   |  |
| 14 | 17.0 | | | | | | | | 14 |
| 16 | 15.9 | 16.1 | | | | | | | 16 |
| 18 | 15.1 | 15.2 | 15.2 | | | | | | 18 |
| 20 | 14.4 | 14.5 | 14.6 | 14.6 | | | | | 20 |
| 22 | 13.7 | 13.8 | 14.0 | 14.0 | 13.8 | | | | 22 |
| 24 | 13.0 | 13.3 | 13.3 | 13.3 | 13.3 | 13.1 | | | 24 |
| 26 | 12.7 | 12.7 | 12.9 | 12.8 | 12.9 | 12.8 | | | 26 |
| 28 | 12.4 | 12.5 | 12.6 | 12.6 | 12.7 | 12.6 | 12.2 | | 28 |
| 30 | 11.7 | 12.0 | 12.2 | 12.4 | 12.3 | 12.2 | 11.8 | | 30 |
| 32 | 11.3 | 11.6 | 11.7 | 11.9 | 12.0 | 11.9 | 11.5 | 9.5 | 32 |
| 34 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.5 | 11.2 | 9.1 | 34 |
| 36 | 10.5 | 10.8 | 11.0 | 11.2 | 11.3 | 11.2 | 11.0 | 8.7 | 36 |
| 38 | 10.1 | 10.4 | 10.7 | 10.7 | 11.0 | 11.0 | 10.7 | 8.3 | 38 |
| 40 | 9.9 | 10.1 | 10.4 | 10.5 | 10.7 | 10.7 | 10.4 | 8.0 | 40 |
| 42 | 9.6 | 9.8 | 10.1 | 10.2 | 10.4 | 10.5 | 10.0 | 7.6 | 42 |
| 44 | 9.3 | 9.5 | 9.8 | 10.0 | 10.1 | 10.2 | 9.7 | 7.3 | 44 |
| 46 | 9.0 | 9.3 | 9.6 | 9.7 | 9.9 | 9.9 | 9.3 | 7.0 | 46 |
| 48 | 8.8 | 9.0 | 9.3 | 9.4 | 9.5 | 9.5 | 8.9 | 6.7 | 48 |
| 50 | 8.5 | 8.5 | 8.7 | 8.4 | 8.2 | 8.3 | 8.6 | 6.5 | 50 |
| 52 | 8.0 | 8.3 | 7.8 | 7.5 | 7.4 | 7.4 | 7.5 | 6.2 | 52 |
| 54 | 7.1 | 7.6 | 7.0 | 6.7 | 6.5 | 6.6 | 6.7 | 5.8 | 54 |
| 56 | 6.4 | 6.8 | 6.2 | 5.9 | 5.8 | 5.8 | 6.0 | 5.5 | 56 |
| 58 | 5.6 | 6.1 | 5.5 | 5.2 | 5.1 | 5.1 | 5.3 | 5.4 | 58 |
| 60 | 4.8 | 5.3 | 4.8 | 4.5 | 4.3 | 4.4 | 4.6 | 4.9 | 60 |
| 62 | 4.2 | 4.7 | 4.2 | 3.9 | 3.7 | 3.8 | 3.9 | 4.2 | 62 |
| 64 | 3.6 | 4.1 | 3.6 | 3.3 | 3.2 | 3.2 | 3.4 | 3.7 | 64 |
| 66 | | 3.6 | 3.1 | 2.8 | 2.7 | 2.7 | 2.9 | 3.1 | 66 |
| 68 | | 3.1 | 2.6 | 2.3 | 2.2 | 2.2 | 2.4 | 2.6 | 68 |
| 70 | | | 2.1 | 1.8 | 1.7 | 1.7 | 1.9 | 2.1 | 70 |
| 72 | | | 1.6 | | | | | 1.7 | 72 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | n |

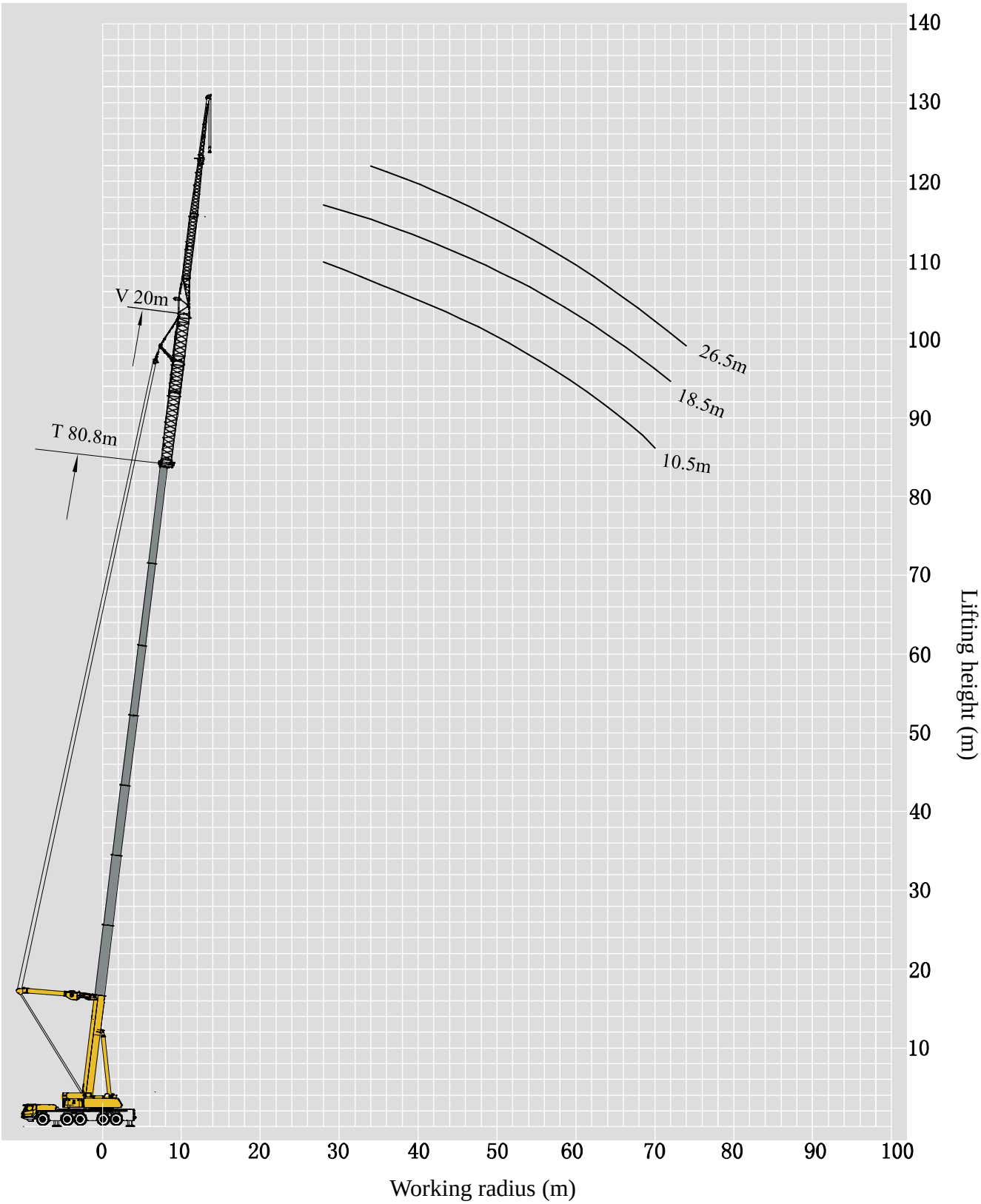
## Working range diagram Boom + super lift + 16m extension + fixed jib 40° offset angle



| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| 30 | 2.2 | | | | | | | | 30 |
| 32 | 2.2 | 2.2 | | | | | | | 32 |
| 34 | 2.2 | 2.2 | 2.2 | | | | | | 34 |
| 36 | 2.1 | 2.1 | 2.2 | 2.2 | | | | | 36 |
| 38 | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | | | | 38 |
| 40 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | | | 40 |
| 42 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.1 | | | 42 |
| 44 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.1 | | 44 |
| 46 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | | 46 |
| 48 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.3 | 48 |
| 50 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.2 | 50 |
| 52 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.2 | 52 |
| 54 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 54 |
| 56 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.1 | 56 |
| 58 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 2.1 | 58 |
| 60 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 60 |
| 62 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 62 |
| 64 | | 1.6 | 1.6 | 1.7 | 1.8 | 1.7 | 1.8 | 1.9 | 64 |
| 66 | | | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.9 | 66 |
| 68 | | | | | 1.6 | 1.6 | 1.7 | 1.8 | 68 |
| 70 | | | | | | 1.6 | 1.6 | 1.8 | 70 |
| 72 | | | | | | 1.6 | 1.6 | 1.6 | 72 |
| 74 | | | | | | 1.6 | 1.6 | 1.6 | 74 |
| 76 | | | | | | | 1.6 | 1.6 | 76 |
| 78 | | | | | | | 1.6 | 1.6 | 78 |
| 80 | | | | | | | | 1.6 | 80 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 24 | 3.0 | | | | | | | | 24 |
| 26 | 2.9 | 2.9 | | | | | | | 26 |
| 28 | 2.8 | 2.8 | 2.8 | 2.8 | | | | | 28 |
| 30 | 2.7 | 2.8 | 2.8 | 2.8 | 2.9 | | | | 30 |
| 32 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | | | 32 |
| 34 | 2.7 | 2.6 | 2.7 | 2.8 | 2.9 | 2.8 | 2.9 | | 34 |
| 36 | 2.6 | 2.6 | 2.6 | 2.6 | 2.7 | 2.8 | 2.8 | | 36 |
| 38 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.8 | 3.0 | 38 |
| 40 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.8 | 40 |
| 42 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.8 | 42 |
| 44 | 2.4 | 2.5 | 2.4 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 44 |
| 46 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 46 |
| 48 | 2.3 | 2.4 | 2.4 | 2.5 | 2.4 | 2.5 | 2.6 | 2.6 | 48 |
| 50 | 2.3 | 2.4 | 2.4 | 2.5 | 2.4 | 2.5 | 2.6 | 2.6 | 50 |
| 52 | 2.3 | 2.3 | 2.4 | 2.5 | 2.4 | 2.5 | 2.4 | 2.6 | 52 |
| 54 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 2.4 | 2.5 | 54 |
| 56 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 2.5 | 2.4 | 2.5 | 56 |
| 58 | 2.2 | 2.2 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 58 |
| 60 | 2.2 | 2.2 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 60 |
| 62 | 2.1 | 2.0 | 2.0 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 62 |
| 64 | | 2.0 | 2.0 | 2.1 | 2.2 | 2.1 | 2.1 | 2.2 | 64 |
| 66 | | | 2.0 | 2.1 | 2.0 | 2.1 | 2.1 | 2.2 | 66 |
| 68 | | | 2.0 | 2.1 | 2.0 | 2.1 | 2.1 | 2.2 | 68 |
| 70 | | | | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 70 |
| 72 | | | | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 72 |
| 74 | | | | | 2.0 | 2.1 | 2.1 | 2.1 | 74 |
| 76 | | | | | 1.8 | 1.9 | 2.0 | 2.1 | 76 |
| 78 | | | | | | | | 1.8 | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+16m | 50.6+16m | 55.6+16m | 60.7+16m | 65.7+16m | 70.7+16m | 75.8+16m | 80.8+16m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 18 | 10.7 | 10.6 | | | | | | | 18 |
| 20 | 10.5 | 10.4 | 10.3 | | | | | | 20 |
| 22 | 10.1 | 10.2 | 10.0 | 9.9 | | | | | 22 |
| 24 | 9.9 | 9.8 | 9.8 | 9.6 | 9.6 | | | | 24 |
| 26 | 9.6 | 9.6 | 9.6 | 9.4 | 9.4 | 9.2 | | | 26 |
| 28 | 9.3 | 9.4 | 9.3 | 9.2 | 9.2 | 9.1 | | | 28 |
| 30 | 9.1 | 9.1 | 9.1 | 9.0 | 9.0 | 8.9 | 8.8 | | 30 |
| 32 | 8.9 | 8.9 | 8.9 | 8.9 | 8.8 | 8.8 | 8.6 | | 32 |
| 34 | 8.6 | 8.7 | 8.7 | 8.6 | 8.7 | 8.7 | 8.4 | 8.1 | 34 |
| 36 | 8.4 | 8.4 | 8.5 | 8.5 | 8.6 | 8.6 | 8.4 | 8.0 | 36 |
| 38 | 8.2 | 8.3 | 8.4 | 8.4 | 8.4 | 8.3 | 8.2 | 7.9 | 38 |
| 40 | 8.1 | 8.1 | 8.2 | 8.2 | 8.3 | 8.3 | 8.1 | 7.5 | 40 |
| 42 | 7.9 | 8.0 | 8.0 | 8.2 | 8.2 | 8.1 | 8.1 | 7.1 | 42 |
| 44 | 7.7 | 7.8 | 8.0 | 7.9 | 8.0 | 8.1 | 7.9 | 6.9 | 44 |
| 46 | 7.6 | 7.7 | 7.8 | 7.8 | 7.9 | 7.9 | 7.8 | 6.5 | 46 |
| 48 | 7.2 | 7.4 | 7.6 | 7.7 | 7.8 | 7.8 | 7.8 | 6.4 | 48 |
| 50 | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 | 7.5 | 7.4 | 6.1 | 50 |
| 52 | 6.9 | 7.0 | 7.2 | 7.2 | 7.3 | 7.4 | 7.3 | 5.9 | 52 |
| 54 | 6.8 | 6.9 | 6.9 | 7.1 | 7.0 | 7.0 | 7.2 | 5.6 | 54 |
| 56 | | 6.8 | 6.4 | 6.3 | 6.2 | 6.3 | 6.4 | 5.3 | 56 |
| 58 | | 6.2 | 5.7 | 5.5 | 5.5 | 5.5 | 5.7 | 5.1 | 58 |
| 60 | | | 5.0 | 4.7 | 4.7 | 4.7 | 5.0 | 4.8 | 60 |
| 62 | | | | 4.1 | 4.0 | 4.1 | 4.3 | 4.6 | 62 |
| 64 | | | | 3.5 | 3.4 | 3.5 | 3.7 | 4.0 | 64 |
| 66 | | | | | 2.9 | 3.0 | 3.1 | 3.5 | 66 |
| 68 | | | | | 2.4 | 2.4 | 2.6 | 2.9 | 68 |
| 70 | | | | | | 2.0 | 2.1 | 2.4 | 70 |
| 72 | | | | | | | 1.7 | 1.9 | 72 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |


V 20m
T 80.8m
26.5m
18.5m
10.5m
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10.1 | | | | | | | | 16 |
| 18 | 9.4 | 9.4 | | | | | | | 18 |
| 20 | 8.4 | 8.7 | 9.1 | | | | | | 20 |
| 22 | 7.7 | 8.0 | 8.3 | 8.4 | | | | | 22 |
| 24 | 7.0 | 7.4 | 7.6 | 7.8 | 8.2 | | | | 24 |
| 26 | 6.6 | 6.8 | 7.1 | 7.3 | 7.6 | | | | 26 |
| 28 | 6.1 | 6.3 | 6.7 | 6.8 | 7.1 | 7.2 | 5.8 | | 28 |
| 30 | 5.6 | 5.9 | 6.2 | 6.4 | 6.7 | 6.7 | 5.8 | | 30 |
| 32 | 5.3 | 5.5 | 5.8 | 6.0 | 6.2 | 6.3 | 5.8 | 5.0 | 32 |
| 34 | 5.0 | 5.2 | 5.5 | 5.7 | 5.9 | 6.1 | 5.8 | 5.0 | 34 |
| 36 | 4.8 | 5.0 | 5.2 | 5.4 | 5.6 | 5.7 | 5.8 | 5.0 | 36 |
| 38 | 4.4 | 4.7 | 5.0 | 5.1 | 5.3 | 5.5 | 5.6 | 5.0 | 38 |
| 40 | 4.2 | 4.5 | 4.7 | 4.9 | 5.2 | 5.3 | 5.3 | 5.0 | 40 |
| 42 | 4.1 | 4.3 | 4.5 | 4.6 | 4.9 | 5.1 | 4.9 | 5.0 | 42 |
| 44 | 3.9 | 4.1 | 4.3 | 4.5 | 4.7 | 4.8 | 4.8 | 4.7 | 44 |
| 46 | 3.7 | 3.9 | 4.1 | 4.2 | 4.4 | 4.6 | 4.7 | 4.5 | 46 |
| 48 | 3.5 | 3.7 | 3.9 | 4.1 | 4.3 | 4.5 | 4.5 | 4.0 | 48 |
| 50 | 3.4 | 3.5 | 3.8 | 3.9 | 4.1 | 4.3 | 4.4 | 3.8 | 50 |
| 52 | 3.3 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.2 | 3.6 | 52 |
| 54 | 3.1 | 3.3 | 3.4 | 3.6 | 3.8 | 3.9 | 4.0 | 3.5 | 54 |
| 56 | 2.9 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 3.3 | 56 |
| 58 | 2.9 | 3.0 | 3.2 | 3.4 | 3.5 | 3.7 | 3.7 | 3.2 | 58 |
| 60 | 2.7 | 2.8 | 3.0 | 3.3 | 3.4 | 3.6 | 3.6 | 3.1 | 60 |
| 62 | 2.5 | 2.6 | 2.7 | 3.0 | 3.1 | 3.3 | 3.3 | 2.9 | 62 |
| 64 | 2.4 | 2.5 | 2.7 | 2.8 | 3.0 | 3.2 | 3.2 | 2.8 | 64 |
| 66 | 2.2 | 2.4 | 2.6 | 2.7 | 2.9 | 2.9 | 3.0 | 2.7 | 66 |
| 68 | 2.2 | 2.3 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 2.7 | 68 |
| 70 | 2.1 | 2.3 | 2.5 | 2.4 | 2.5 | 2.6 | 2.6 | 2.6 | 70 |
| 72 | 2.1 | 2.2 | 2.3 | 2.3 | 2.2 | 2.1 | 2.2 | 2.2 | 72 |
| 74 | 2.0 | 2.1 | 2.2 | 2.1 | 1.9 | 1.8 | 1.8 | 1.9 | 74 |
| 76 | 2.0 | 2.0 | 2.1 | 1.7 | | | | | 76 |
| 78 | 1.9 | 2.0 | 1.8 | | | | | | 78 |
| 80 | 1.8 | 1.9 | | | | | | | 80 |
| 82 | | 1.8 | | | | | | | 82 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| | | 45.5-80.8m T | 18.5m | 0° | SL | 9.3m×8.3m | 360° | 100t | 20m V | |
| 14 | 12.4 | | | | | | | | 14 |
| 16 | 12.1 | 12.1 | | | | | | | 16 |
| 18 | 11.0 | 11.5 | 11.8 | | | | | | 18 |
| 20 | 9.9 | 10.4 | 11.0 | 11.3 | | | | | 20 |
| 22 | 8.9 | 9.5 | 10.0 | 10.3 | 10.8 | | | | 22 |
| 24 | 8.2 | 8.6 | 9.2 | 9.5 | 9.9 | 10.1 | | | 24 |
| 26 | 7.6 | 8.0 | 8.4 | 8.8 | 9.1 | 9.4 | 8.8 | | 26 |
| 28 | 7.0 | 7.5 | 7.8 | 8.2 | 8.5 | 8.8 | 8.8 | 6.9 | 28 |
| 30 | 6.5 | 6.9 | 7.4 | 7.6 | 8.0 | 8.2 | 8.3 | 6.9 | 30 |
| 32 | 6.1 | 6.4 | 6.9 | 7.1 | 7.5 | 7.7 | 7.8 | 6.9 | 32 |
| 34 | 5.8 | 6.1 | 6.5 | 6.7 | 7.1 | 7.2 | 7.3 | 6.9 | 34 |
| 36 | 5.5 | 5.8 | 6.1 | 6.4 | 6.7 | 6.9 | 7.0 | 6.9 | 36 |
| 38 | 5.2 | 5.5 | 5.8 | 6.0 | 6.3 | 6.6 | 6.7 | 6.3 | 38 |
| 40 | 4.9 | 5.2 | 5.5 | 5.7 | 6.0 | 6.2 | 6.4 | 6.0 | 40 |
| 42 | 4.7 | 5.0 | 5.2 | 5.4 | 5.8 | 5.9 | 6.1 | 5.8 | 42 |
| 44 | 4.4 | 4.7 | 5.0 | 5.3 | 5.5 | 5.7 | 5.9 | 5.5 | 44 |
| 46 | 4.3 | 4.6 | 4.8 | 5.0 | 5.3 | 5.5 | 5.7 | 5.4 | 46 |
| 48 | 4.0 | 4.3 | 4.6 | 4.8 | 5.1 | 5.3 | 5.4 | 5.4 | 48 |
| 50 | 3.9 | 4.1 | 4.3 | 4.7 | 4.9 | 5.1 | 5.3 | 5.2 | 50 |
| 52 | 3.8 | 4.0 | 4.2 | 4.4 | 4.6 | 4.9 | 5.1 | 5.1 | 52 |
| 54 | 3.5 | 3.8 | 4.1 | 4.2 | 4.5 | 4.7 | 4.8 | 4.9 | 54 |
| 56 | 3.4 | 3.6 | 3.9 | 4.1 | 4.4 | 4.6 | 4.6 | 4.6 | 56 |
| 58 | 3.3 | 3.5 | 3.8 | 4.0 | 4.2 | 4.4 | 4.5 | 4.5 | 58 |
| 60 | 3.2 | 3.4 | 3.4 | 3.6 | 3.9 | 4.1 | 4.1 | 4.2 | 60 |
| 62 | 2.9 | 3.1 | 3.3 | 3.5 | 3.8 | 3.9 | 4.0 | 3.8 | 62 |
| 64 | 2.8 | 3.0 | 3.2 | 3.4 | 3.6 | 3.5 | 3.5 | 3.7 | 64 |
| 66 | 2.7 | 2.8 | 3.1 | 3.3 | 3.1 | 3.0 | 3.0 | 3.2 | 66 |
| 68 | 2.6 | 2.8 | 2.9 | 2.8 | 2.6 | 2.5 | 2.6 | 2.7 | 68 |
| 70 | 2.6 | 2.7 | 2.8 | 2.4 | 2.2 | 2.1 | 2.1 | 2.3 | 70 |
| 72 | 2.5 | 2.6 | 2.3 | 2.0 | 1.7 | 1.7 | 1.7 | 1.9 | 72 |
| 74 | 2.3 | 2.5 | 2.0 | | | | | | 74 |
| 76 | 1.9 | 2.2 | | | | | | | 76 |
| 78 | | 1.9 | | | | | | | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| | | 45.5-80.8m T | 10.5m | 0° | SL | 9.3m×8.3m | 360° | 100t | 20m V | |
| 12 | 26.3 | | | | | | | | 12 |
| 14 | 26.3 | 26.3 | | | | | | | 14 |
| 16 | 24.7 | 24.9 | 25.1 | | | | | | 16 |
| 18 | 22.9 | 23.2 | 23.8 | 23.9 | | | | | 18 |
| 20 | 21.3 | 21.7 | 22.3 | 22.5 | 23.3 | | | | 20 |
| 22 | 19.9 | 20.3 | 20.9 | 21.3 | 22.2 | 18.9 | | | 22 |
| 24 | 18.4 | 19.0 | 19.8 | 20.1 | 21.1 | 18.9 | | | 24 |
| 26 | 17.5 | 18.0 | 18.6 | 19.1 | 20.0 | 17.9 | 13.6 | | 26 |
| 28 | 16.5 | 17.1 | 17.7 | 18.1 | 19.0 | 17.0 | 13.6 | 8.4 | 28 |
| 30 | 15.6 | 16.1 | 16.7 | 17.3 | 18.1 | 16.2 | 12.5 | 8.4 | 30 |
| 32 | 14.6 | 15.3 | 16.0 | 16.5 | 17.3 | 15.4 | 11.8 | 8.4 | 32 |
| 34 | 13.9 | 14.6 | 15.3 | 15.7 | 16.6 | 14.6 | 11.3 | 8.2 | 34 |
| 36 | 13.2 | 13.9 | 14.6 | 15.2 | 15.2 | 13.9 | 10.8 | 7.7 | 36 |
| 38 | 12.8 | 13.3 | 13.9 | 14.3 | 14.3 | 12.7 | 10.3 | 7.4 | 38 |
| 40 | 12.5 | 12.9 | 13.3 | 13.3 | 13.7 | 11.9 | 9.8 | 7.0 | 40 |
| 42 | 12.0 | 12.6 | 12.4 | 12.4 | 11.8 | 11.4 | 9.4 | 6.8 | 42 |
| 44 | 11.5 | 12.1 | 11.4 | 10.8 | 10.6 | 10.5 | 8.9 | 6.8 | 44 |
| 46 | 10.4 | 10.8 | 10.1 | 9.7 | 9.5 | 9.5 | 8.5 | 6.1 | 46 |
| 48 | 9.4 | 9.8 | 9.1 | 8.7 | 8.5 | 8.5 | 8.1 | 6.0 | 48 |
| 50 | 8.5 | 8.9 | 8.2 | 7.8 | 7.6 | 7.6 | 7.7 | 5.6 | 50 |
| 52 | 7.6 | 8.0 | 7.3 | 6.9 | 6.8 | 6.7 | 6.8 | 5.4 | 52 |
| 54 | 6.9 | 7.2 | 6.6 | 6.2 | 6.0 | 6.0 | 6.1 | 5.3 | 54 |
| 56 | 6.1 | 6.5 | 5.8 | 5.5 | 5.3 | 5.3 | 5.4 | 4.8 | 56 |
| 58 | 5.5 | 5.8 | 5.2 | 4.8 | 4.6 | 4.6 | 4.7 | 4.6 | 58 |
| 60 | 4.8 | 5.2 | 4.6 | 4.2 | 4.0 | 4.0 | 4.1 | 4.3 | 60 |
| 62 | 4.2 | 4.6 | 4.0 | 3.6 | 3.4 | 3.4 | 3.5 | 3.7 | 62 |
| 64 | 3.6 | 4.0 | 3.4 | 3.1 | 2.9 | 2.9 | 3.0 | 3.2 | 64 |
| 66 | 3.1 | 3.5 | 2.9 | 2.5 | 2.4 | 2.4 | 2.5 | 2.7 | 66 |
| 68 | 2.7 | 3.0 | 2.4 | 2.0 | 1.9 | 1.8 | 2.0 | 2.2 | 68 |
| 70 | 2.2 | 2.6 | 2.0 | | | | | 1.7 | 70 |
| 72 | | 2.2 | | | | | | | 72 |
| 74 | | 1.8 | | | | | | | 74 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
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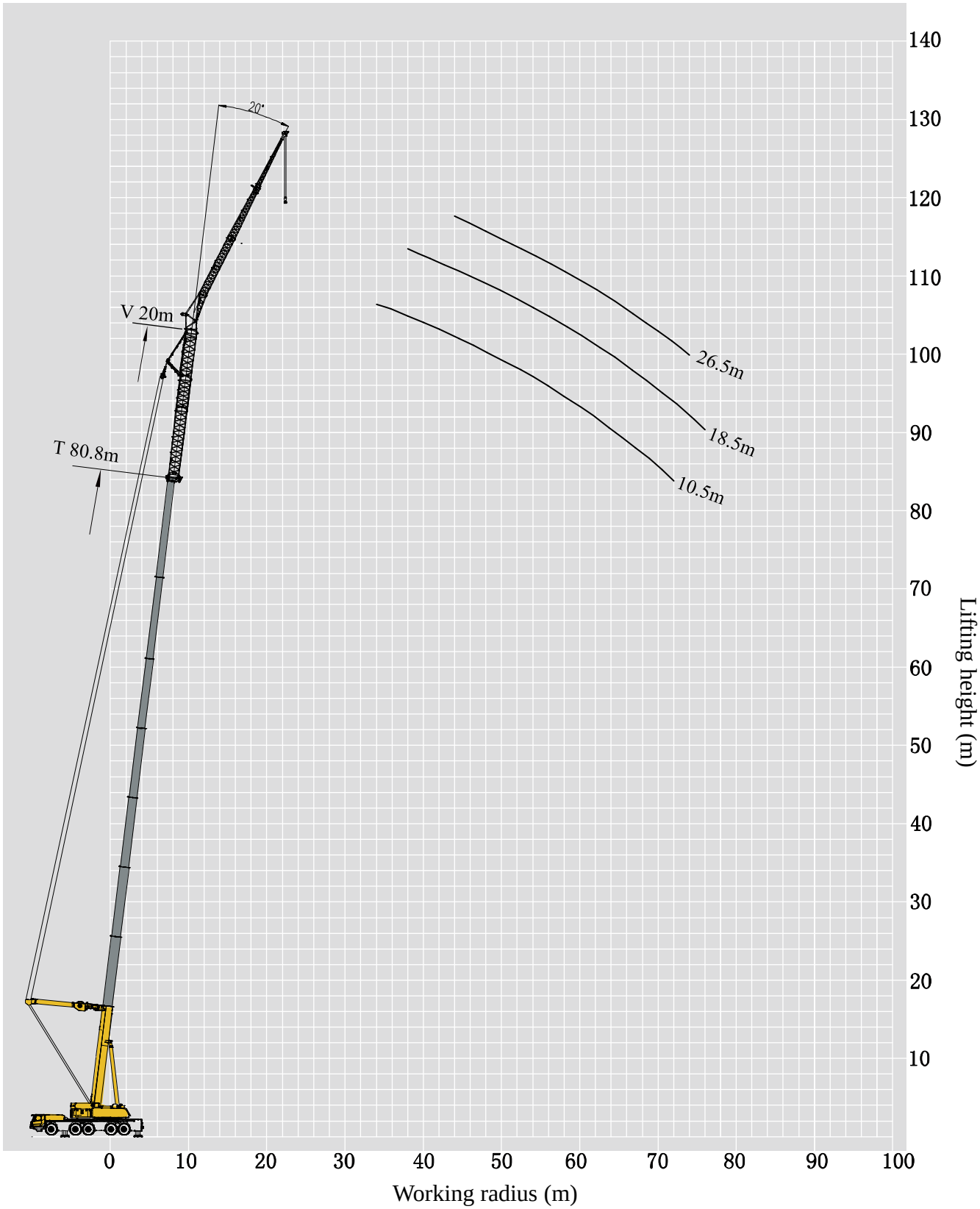
20°
V 20m
T 80.8m
26.5m
18.5m
10.5m
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
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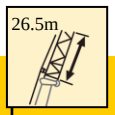
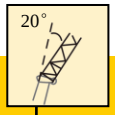
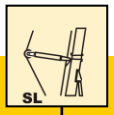
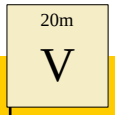
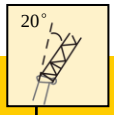
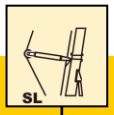
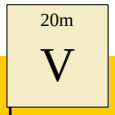
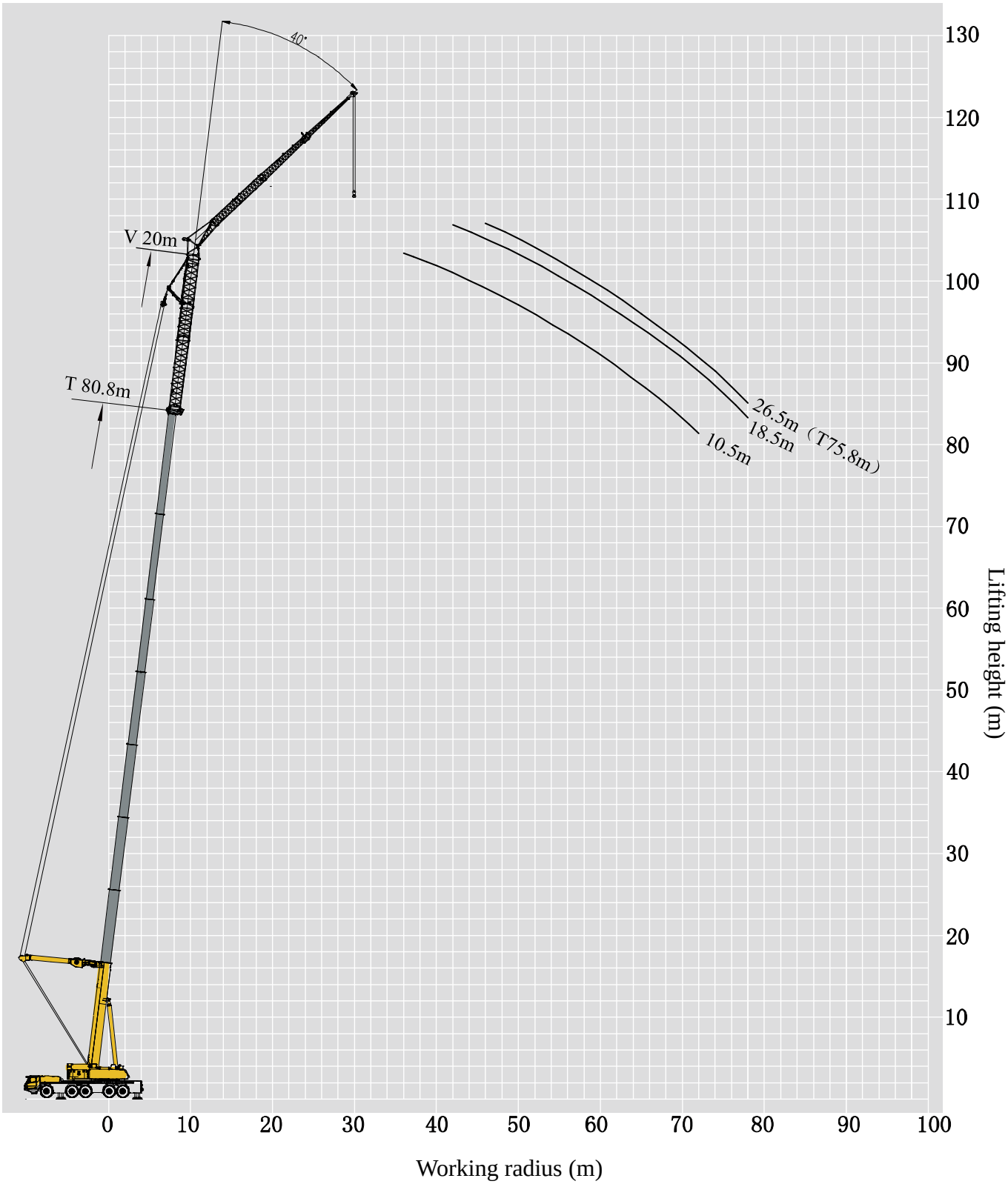
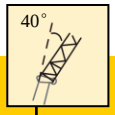
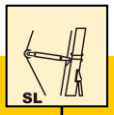
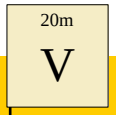
| | |  |  |  |  |  |  |  |  | |
| 24 | 3.8 | | | | | | | | 24 |
| 26 | 3.5 | 3.6 | | | | | | | 26 |
| 28 | 3.4 | 3.5 | 3.5 | | | | | | 28 |
| 30 | 3.3 | 3.4 | 3.3 | 3.4 | | | | | 30 |
| 32 | 3.1 | 3.3 | 3.2 | 3.3 | 3.4 | | | | 32 |
| 34 | 2.9 | 3.1 | 3.1 | 3.2 | 3.3 | | | | 34 |
| 36 | 2.9 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | | | 36 |
| 38 | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 3.2 | | 38 |
| 40 | 2.7 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | | 40 |
| 42 | 2.6 | 2.7 | 2.8 | 2.8 | 2.8 | 3.0 | 3.2 | | 42 |
| 44 | 2.6 | 2.6 | 2.6 | 2.7 | 2.8 | 2.8 | 2.9 | 3.2 | 44 |
| 46 | 2.4 | 2.6 | 2.6 | 2.7 | 2.6 | 2.8 | 2.8 | 3.1 | 46 |
| 48 | 2.4 | 2.6 | 2.5 | 2.7 | 2.6 | 2.6 | 2.7 | 2.9 | 48 |
| 50 | 2.3 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 2.7 | 2.9 | 50 |
| 52 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 52 |
| 54 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.5 | 2.6 | 2.8 | 54 |
| 56 | 2.1 | 2.2 | 2.3 | 2.3 | 2.5 | 2.5 | 2.5 | 2.8 | 56 |
| 58 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.5 | 2.5 | 2.6 | 58 |
| 60 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 2.6 | 60 |
| 62 | 2.0 | 2.1 | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.6 | 62 |
| 64 | 2.0 | 2.0 | 2.0 | 2.2 | 2.2 | 2.3 | 2.3 | 2.5 | 64 |
| 66 | 1.9 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.5 | 66 |
| 68 | 1.9 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 68 |
| 70 | 1.7 | 1.9 | 1.8 | 2.0 | 1.9 | 2.1 | 2.1 | 2.4 | 70 |
| 72 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 2.1 | 2.2 | 72 |
| 74 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.1 | 2.1 | 74 |
| 76 | 1.6 | 1.8 | 1.8 | 1.9 | 1.8 | 1.9 | 2.0 | | 76 |
| 78 | 1.6 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | | 78 |
| 80 | | 1.7 | 1.6 | 1.7 | | | | | 80 |
| 82 | | 1.6 | 1.6 | | | | | | 82 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

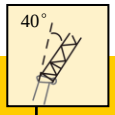
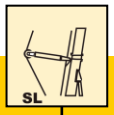
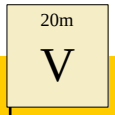
| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 20 | 4.7 | | | | | | | | 20 |
| 22 | 4.5 | 4.6 | | | | | | | 22 |
| 24 | 4.3 | 4.4 | 4.6 | | | | | | 24 |
| 26 | 4.2 | 4.2 | 4.3 | 4.4 | | | | | 26 |
| 28 | 4.0 | 4.1 | 4.2 | 4.2 | 4.4 | | | | 28 |
| 30 | 3.8 | 4.0 | 4.0 | 4.1 | 4.1 | 4.2 | | | 30 |
| 32 | 3.7 | 3.9 | 3.9 | 4.0 | 4.0 | 4.1 | | | 32 |
| 34 | 3.6 | 3.7 | 3.8 | 3.8 | 3.9 | 4.0 | 4.1 | | 34 |
| 36 | 3.5 | 3.6 | 3.7 | 3.7 | 3.8 | 3.9 | 4.0 | | 36 |
| 38 | 3.4 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.9 | 4.1 | 38 |
| 40 | 3.3 | 3.4 | 3.4 | 3.5 | 3.6 | 3.6 | 3.8 | 3.9 | 40 |
| 42 | 3.1 | 3.3 | 3.3 | 3.4 | 3.4 | 3.5 | 3.6 | 3.8 | 42 |
| 44 | 3.0 | 3.2 | 3.2 | 3.3 | 3.4 | 3.4 | 3.5 | 3.7 | 44 |
| 46 | 2.9 | 3.1 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.6 | 46 |
| 48 | 2.8 | 2.9 | 3.0 | 3.2 | 3.2 | 3.3 | 3.3 | 3.5 | 48 |
| 50 | 2.8 | 2.9 | 3.0 | 3.1 | 3.1 | 3.2 | 3.3 | 3.4 | 50 |
| 52 | 2.7 | 2.7 | 3.0 | 2.9 | 3.1 | 3.2 | 3.2 | 3.3 | 52 |
| 54 | 2.6 | 2.7 | 2.9 | 2.9 | 3.0 | 3.0 | 3.2 | 3.3 | 54 |
| 56 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 56 |
| 58 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 58 |
| 60 | 2.4 | 2.4 | 2.6 | 2.6 | 2.9 | 3.0 | 3.0 | 3.0 | 60 |
| 62 | 2.3 | 2.4 | 2.4 | 2.6 | 2.6 | 2.7 | 2.8 | 3.0 | 62 |
| 64 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.7 | 2.9 | 64 |
| 66 | 2.3 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.7 | 2.9 | 66 |
| 68 | 2.2 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 68 |
| 70 | 2.2 | 2.2 | 2.4 | 2.4 | 2.4 | 2.5 | 2.6 | 2.8 | 70 |
| 72 | 2.1 | 2.1 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.5 | 72 |
| 74 | 2.0 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | 2.2 | 74 |
| 76 | 2.0 | 2.0 | 2.0 | 1.7 | | | 1.6 | 1.8 | 76 |
| 78 | | 2.0 | 1.6 | | | | | | 78 |
| 80 | | 1.7 | | | | | | | 80 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

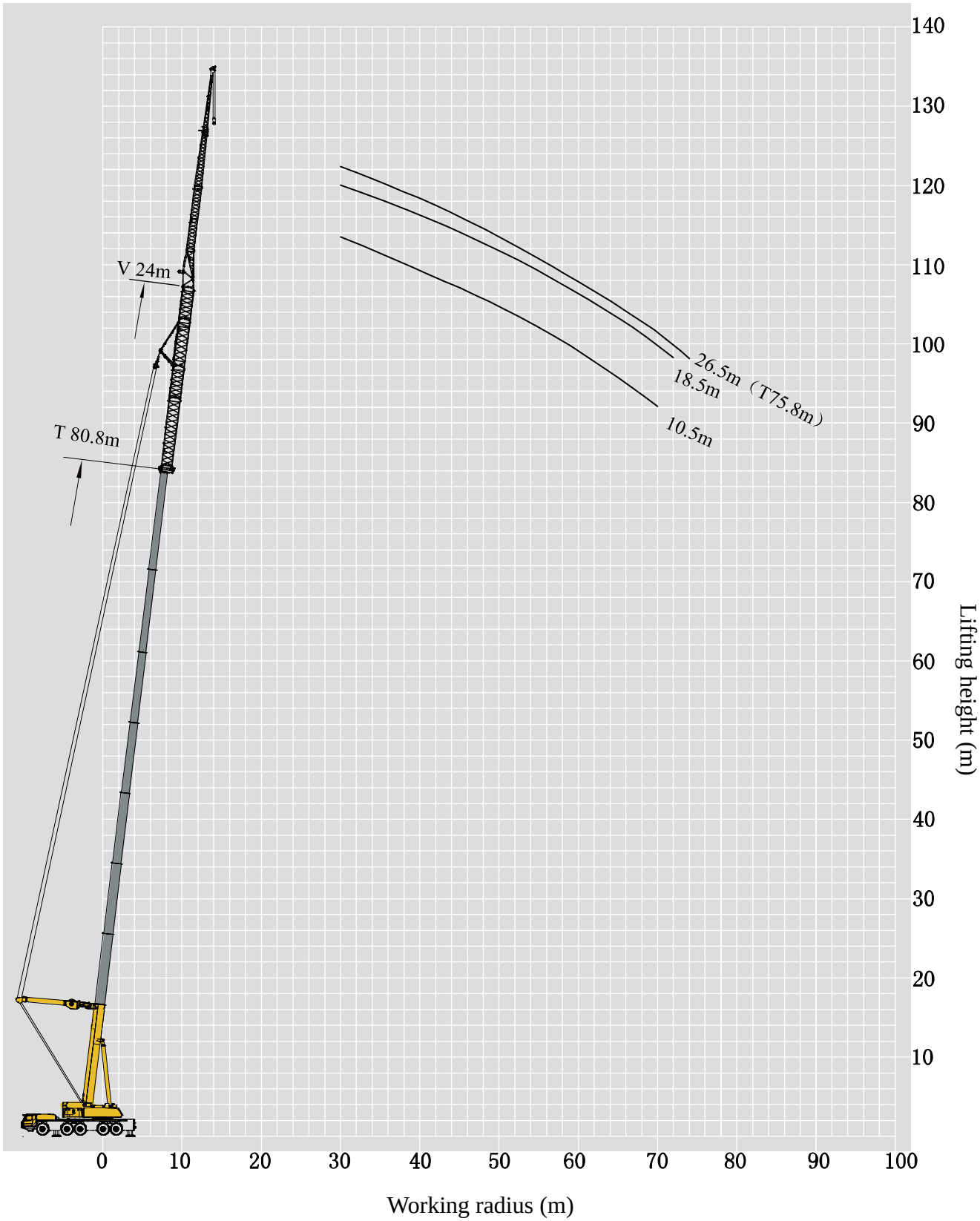
| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| | | 45.5-80.8m T | 10.5m | 20° | SL | 9.3m×8.3m | 360° | 100t | 20m V | |
| 16 | 16.0 | | | | | | | | 16 |
| 18 | 15.1 | 15.3 | | | | | | | 18 |
| 20 | 14.5 | 14.6 | 14.6 | | | | | | 20 |
| 22 | 13.8 | 13.9 | 13.9 | 13.7 | | | | | 22 |
| 24 | 13.3 | 13.4 | 13.3 | 13.3 | 13.3 | | | | 24 |
| 26 | 12.7 | 13.0 | 12.9 | 12.9 | 12.9 | 12.7 | | | 26 |
| 28 | 12.5 | 12.6 | 12.6 | 12.7 | 12.7 | 12.4 | | | 28 |
| 30 | 12.0 | 12.1 | 12.2 | 12.3 | 12.2 | 12.0 | 10.9 | | 30 |
| 32 | 11.6 | 11.7 | 11.9 | 11.8 | 12.0 | 11.7 | 10.5 | | 32 |
| 34 | 11.1 | 11.3 | 11.5 | 11.5 | 11.6 | 11.4 | 10.1 | 7.3 | 34 |
| 36 | 10.8 | 10.9 | 11.1 | 11.1 | 11.3 | 11.2 | 9.7 | 7.1 | 36 |
| 38 | 10.4 | 10.6 | 10.8 | 10.8 | 11.1 | 10.9 | 9.3 | 6.8 | 38 |
| 40 | 10.1 | 10.2 | 10.5 | 10.6 | 10.7 | 10.6 | 8.9 | 6.5 | 40 |
| 42 | 9.8 | 10.0 | 10.1 | 10.3 | 10.4 | 10.4 | 8.6 | 6.1 | 42 |
| 44 | 9.5 | 9.7 | 9.8 | 10.1 | 10.2 | 10.2 | 8.2 | 6.0 | 44 |
| 46 | 9.2 | 9.4 | 9.6 | 9.8 | 9.9 | 9.9 | 7.9 | 5.7 | 46 |
| 48 | 8.9 | 9.2 | 9.4 | 9.5 | 9.5 | 9.5 | 7.5 | 5.6 | 48 |
| 50 | 8.7 | 8.9 | 9.1 | 8.5 | 8.4 | 8.6 | 7.3 | 5.2 | 50 |
| 52 | 8.4 | 8.7 | 8.0 | 7.6 | 7.5 | 7.5 | 7.0 | 5.2 | 52 |
| 54 | 7.4 | 7.8 | 7.2 | 6.8 | 6.7 | 6.7 | 6.7 | 4.9 | 54 |
| 56 | 6.6 | 7.0 | 6.4 | 6.0 | 5.9 | 5.9 | 6.0 | 4.4 | 56 |
| 58 | 5.9 | 6.3 | 5.7 | 5.3 | 5.2 | 5.2 | 5.3 | 4.3 | 58 |
| 60 | 5.2 | 5.6 | 5.0 | 4.7 | 4.5 | 4.5 | 4.7 | 4.3 | 60 |
| 62 | 4.5 | 4.9 | 4.3 | 4.0 | 3.8 | 3.9 | 4.0 | 3.9 | 62 |
| 64 | 3.9 | 4.3 | 3.8 | 3.4 | 3.3 | 3.3 | 3.4 | 3.6 | 64 |
| 66 | 3.4 | 3.8 | 3.2 | 2.9 | 2.8 | 2.8 | 2.9 | 3.1 | 66 |
| 68 | 2.8 | 3.3 | 2.7 | 2.4 | 2.3 | 2.3 | 2.4 | 2.6 | 68 |
| 70 | | 2.8 | 2.3 | 1.9 | 1.8 | 1.8 | 1.9 | 2.1 | 70 |
| 72 | | 2.3 | 1.8 | | | | | 1.7 | 72 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | n |

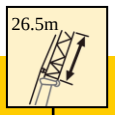

40°
V 20m
T 80.8m
26.5m（T75.8m）
18.5m
10.5m
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

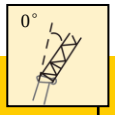
| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | |
|---|---|---|---|---|---|---|---|---|
| 32 | 2.2 | | | | | | | 32 |
| 34 | 2.2 | 2.3 | | | | | | 34 |
| 36 | 2.1 | 2.3 | 2.3 | | | | | 36 |
| 38 | 2.1 | 2.1 | 2.2 | 2.2 | | | | 38 |
| 40 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | | | 40 |
| 42 | 2.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.3 | | 42 |
| 44 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.2 | | 44 |
| 46 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 46 |
| 48 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 48 |
| 50 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 50 |
| 52 | 1.9 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 52 |
| 54 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 54 |
| 56 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 56 |
| 58 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 58 |
| 60 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 60 |
| 62 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 62 |
| 64 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 64 |
| 66 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 66 |
| 68 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 68 |
| 70 | | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 70 |
| 72 | | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 72 |
| 74 | | | | | 1.6 | 1.6 | 1.8 | 74 |
| 76 | | | | | | 1.6 | 1.7 | 76 |
| 78 | | | | | | 1.6 | 1.7 | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

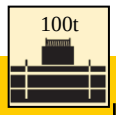
| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| | |  |  |  |  |  |  |  |  | |
| 24 | 3.0 | | | | | | | | 24 |
| 26 | 2.9 | 3.1 | | | | | | | 26 |
| 28 | 2.9 | 2.9 | 2.9 | | | | | | 28 |
| 30 | 2.9 | 2.8 | 2.8 | 2.9 | | | | | 30 |
| 32 | 2.7 | 2.8 | 2.8 | 2.9 | 2.8 | | | | 32 |
| 34 | 2.6 | 2.7 | 2.7 | 2.9 | 2.8 | 2.9 | | | 34 |
| 36 | 2.6 | 2.6 | 2.7 | 2.7 | 2.8 | 2.9 | | | 36 |
| 38 | 2.6 | 2.6 | 2.6 | 2.6 | 2.8 | 2.8 | 2.9 | | 38 |
| 40 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.7 | 2.8 | | 40 |
| 42 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.7 | 2.9 | 42 |
| 44 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.9 | 44 |
| 46 | 2.4 | 2.4 | 2.4 | 2.5 | 2.6 | 2.6 | 2.6 | 2.8 | 46 |
| 48 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.6 | 2.6 | 2.8 | 48 |
| 50 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.6 | 2.6 | 2.8 | 50 |
| 52 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.6 | 2.7 | 52 |
| 54 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.6 | 2.6 | 54 |
| 56 | 2.2 | 2.1 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.6 | 56 |
| 58 | 2.2 | 2.1 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 58 |
| 60 | 2.0 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 60 |
| 62 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 62 |
| 64 | 2.0 | 2.0 | 2.0 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 64 |
| 66 | | 2.0 | 2.0 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 66 |
| 68 | | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 68 |
| 70 | | | 2.0 | 2.1 | 2.1 | 2.0 | 2.2 | 2.3 | 70 |
| 72 | | | 2.0 | 2.1 | 2.1 | 2.0 | 2.2 | 2.2 | 72 |
| 74 | | | | 2.1 | 2.1 | 2.0 | 2.1 | 2.2 | 74 |
| 76 | | | | 2.0 | 1.9 | 1.9 | 2.0 | 2.2 | 76 |
| 78 | | | | | | | 1.6 | 1.8 | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

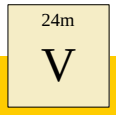
| | 45.5+20m | 50.6+20m | 55.6+20m | 60.7+20m | 65.7+20m | 70.7+20m | 75.8+20m | 80.8+20m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 18 | 10.7 | | | | | | | | 18 |
| 20 | 10.4 | 10.3 | | | | | | | 20 |
| 22 | 10.2 | 10.1 | 10.0 | | | | | | 22 |
| 24 | 9.9 | 9.9 | 9.7 | 9.5 | | | | | 24 |
| 26 | 9.6 | 9.6 | 9.5 | 9.4 | 9.3 | | | | 26 |
| 28 | 9.4 | 9.4 | 9.3 | 9.2 | 9.2 | 9.1 | | | 28 |
| 30 | 9.1 | 9.2 | 9.0 | 9.0 | 9.0 | 8.9 | | | 30 |
| 32 | 8.9 | 8.9 | 8.9 | 8.8 | 8.9 | 8.8 | 8.5 | | 32 |
| 34 | 8.7 | 8.7 | 8.7 | 8.7 | 8.8 | 8.6 | 8.3 | | 34 |
| 36 | 8.4 | 8.5 | 8.5 | 8.5 | 8.6 | 8.5 | 8.2 | 6.5 | 36 |
| 38 | 8.3 | 8.3 | 8.4 | 8.4 | 8.5 | 8.4 | 8.1 | 6.5 | 38 |
| 40 | 8.1 | 8.2 | 8.3 | 8.3 | 8.3 | 8.2 | 8.0 | 5.9 | 40 |
| 42 | 8.1 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 7.9 | 5.8 | 42 |
| 44 | 7.8 | 8.0 | 8.0 | 8.0 | 8.1 | 8.0 | 7.6 | 5.6 | 44 |
| 46 | 7.7 | 7.8 | 7.9 | 7.9 | 7.9 | 7.9 | 7.3 | 5.5 | 46 |
| 48 | 7.6 | 7.6 | 7.7 | 7.8 | 7.9 | 7.9 | 7.1 | 5.1 | 48 |
| 50 | 7.5 | 7.5 | 7.6 | 7.6 | 7.8 | 7.8 | 6.9 | 5.0 | 50 |
| 52 | 7.0 | 7.0 | 7.5 | 7.5 | 7.7 | 7.7 | 6.6 | 4.8 | 52 |
| 54 | 6.9 | 7.0 | 7.1 | 7.1 | 7.0 | 7.0 | 6.4 | 4.8 | 54 |
| 56 | 6.7 | 6.9 | 6.6 | 6.3 | 6.2 | 6.2 | 6.1 | 4.4 | 56 |
| 58 | | 6.4 | 5.9 | 5.6 | 5.5 | 5.5 | 5.6 | 4.2 | 58 |
| 60 | | 5.7 | 5.2 | 4.9 | 4.8 | 4.8 | 5.0 | 3.8 | 60 |
| 62 | | | 4.6 | 4.3 | 4.2 | 4.2 | 4.3 | 3.7 | 62 |
| 64 | | | 4.0 | 3.7 | 3.6 | 3.6 | 3.8 | 3.6 | 64 |
| 66 | | | | 3.1 | 3.0 | 3.1 | 3.2 | 3.4 | 66 |
| 68 | | | | 2.6 | 2.5 | 2.5 | 2.7 | 2.9 | 68 |
| 70 | | | | | 2.0 | 2.1 | 2.2 | 2.4 | 70 |
| 72 | | | | | | | 1.7 | 2.0 | 72 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |


V 24m
T 80.8m
26.5m（T75.8m）
18.5m
10.5m
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80
90
100
Lifting height (m)
Working radius (m)

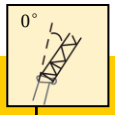
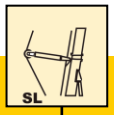
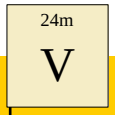






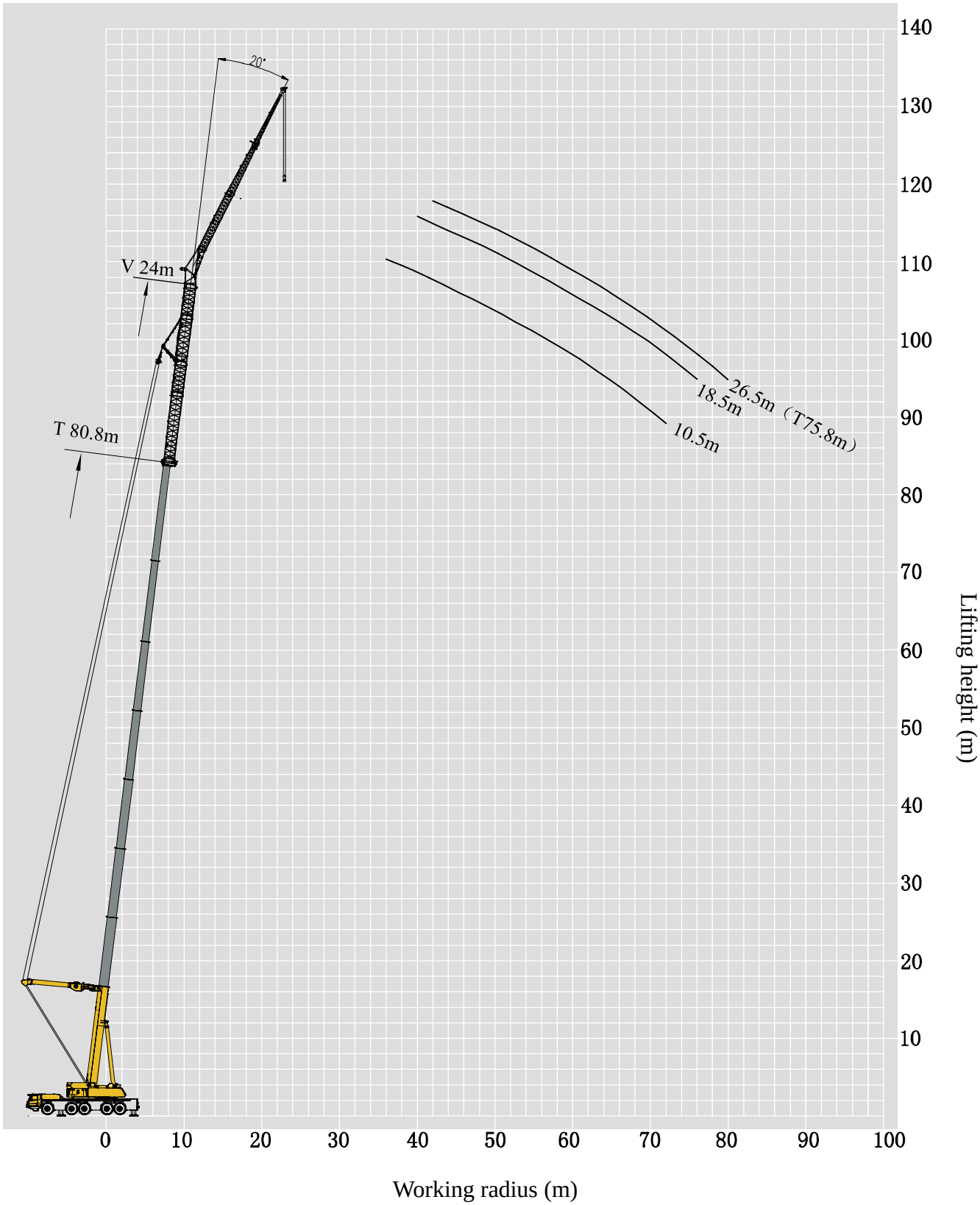


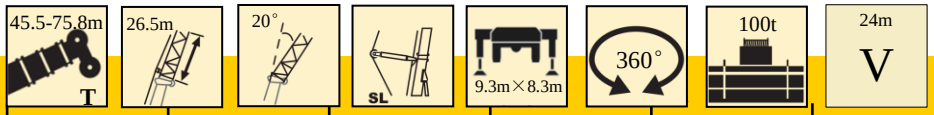

| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | |
|---|---|---|---|---|---|---|---|---|
| 18 | 8.9 | | | | | | | 18 |
| 20 | 8.5 | 8.8 | | | | | | 20 |
| 22 | 7.9 | 8.1 | 8.1 | | | | | 22 |
| 24 | 7.2 | 7.4 | 7.8 | 7.4 | | | | 24 |
| 26 | 6.7 | 6.9 | 7.2 | 7.2 | 7.6 | | | 26 |
| 28 | 6.2 | 6.5 | 6.7 | 6.9 | 7.2 | | | 28 |
| 30 | 5.9 | 6.0 | 6.2 | 6.4 | 6.7 | 5.8 | 4.0 | 30 |
| 32 | 5.5 | 5.7 | 5.9 | 6.1 | 6.3 | 5.8 | 4.0 | 32 |
| 34 | 5.2 | 5.3 | 5.6 | 5.8 | 6.0 | 5.8 | 4.0 | 34 |
| 36 | 4.9 | 5.1 | 5.4 | 5.5 | 5.7 | 5.8 | 4.0 | 36 |
| 38 | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 | 5.4 | 4.0 | 38 |
| 40 | 4.4 | 4.7 | 4.7 | 5.0 | 5.2 | 5.0 | 4.0 | 40 |
| 42 | 4.2 | 4.4 | 4.6 | 4.7 | 5.0 | 5.0 | 4.0 | 42 |
| 44 | 4.0 | 4.2 | 4.4 | 4.6 | 4.7 | 4.9 | 4.0 | 44 |
| 46 | 3.8 | 4.0 | 4.2 | 4.3 | 4.6 | 4.6 | 4.0 | 46 |
| 48 | 3.6 | 3.9 | 4.0 | 4.1 | 4.4 | 4.5 | 4.0 | 48 |
| 50 | 3.5 | 3.6 | 3.9 | 4.0 | 4.1 | 4.3 | 4.0 | 50 |
| 52 | 3.3 | 3.5 | 3.7 | 3.9 | 4.0 | 4.2 | 4.0 | 52 |
| 54 | 3.2 | 3.4 | 3.6 | 3.8 | 3.9 | 4.0 | 4.0 | 54 |
| 56 | 3.1 | 3.3 | 3.4 | 3.6 | 3.8 | 3.8 | 3.9 | 56 |
| 58 | 2.9 | 3.1 | 3.3 | 3.4 | 3.7 | 3.7 | 3.8 | 58 |
| 60 | 2.8 | 2.9 | 3.2 | 3.3 | 3.5 | 3.6 | 3.7 | 60 |
| 62 | 2.7 | 2.9 | 3.1 | 3.2 | 3.4 | 3.5 | 3.5 | 62 |
| 64 | 2.6 | 2.7 | 2.9 | 3.0 | 3.2 | 3.2 | 3.3 | 64 |
| 66 | 2.5 | 2.7 | 2.8 | 2.8 | 3.1 | 3.1 | 3.2 | 66 |
| 68 | 2.4 | 2.5 | 2.7 | 2.7 | 2.9 | 3.0 | 3.2 | 68 |
| 70 | 2.2 | 2.4 | 2.6 | 2.7 | 2.7 | 2.6 | 2.6 | 70 |
| 72 | 2.2 | 2.3 | 2.5 | 2.5 | 2.3 | 2.2 | 2.2 | 72 |
| 74 | 2.1 | 2.2 | 2.4 | 2.2 | 1.9 | 1.8 | 1.8 | 74 |
| 76 | 2.0 | 2.2 | 2.3 | 1.8 | | | | 76 |
| 78 | 2.0 | 2.2 | 1.9 | | | | | 78 |
| 80 | 1.8 | 2.0 | | | | | | 80 |
| 82 | 1.7 | 1.8 | | | | | | 82 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | 80.8+24m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 16 | 11.7 | | | | | | | | 16 |
| 18 | 11.3 | 11.4 | | | | | | | 18 |
| 20 | 10.1 | 10.5 | 10.9 | | | | | | 20 |
| 22 | 9.2 | 9.6 | 10.1 | 10.3 | | | | | 22 |
| 24 | 8.4 | 8.8 | 9.3 | 9.5 | 10.0 | | | | 24 |
| 26 | 7.8 | 8.1 | 8.6 | 8.9 | 9.3 | | | | 26 |
| 28 | 7.3 | 7.6 | 8.0 | 8.2 | 8.7 | 8.8 | 6.7 | | 28 |
| 30 | 6.7 | 7.2 | 7.4 | 7.7 | 8.1 | 8.3 | 6.7 | 4.5 | 30 |
| 32 | 6.3 | 6.7 | 7.0 | 7.3 | 7.7 | 7.7 | 6.7 | 4.5 | 32 |
| 34 | 5.9 | 6.2 | 6.5 | 6.8 | 7.2 | 7.3 | 6.7 | 4.5 | 34 |
| 36 | 5.6 | 5.9 | 6.2 | 6.5 | 6.8 | 7.0 | 6.7 | 4.5 | 36 |
| 38 | 5.3 | 5.6 | 5.9 | 6.1 | 6.5 | 6.7 | 6.7 | 4.5 | 38 |
| 40 | 5.2 | 5.4 | 5.6 | 5.8 | 6.2 | 6.2 | 6.4 | 4.5 | 40 |
| 42 | 4.9 | 5.1 | 5.3 | 5.6 | 5.8 | 6.1 | 6.2 | 4.5 | 42 |
| 44 | 4.6 | 4.9 | 5.1 | 5.4 | 5.7 | 5.8 | 6.0 | 4.5 | 44 |
| 46 | 4.4 | 4.7 | 4.9 | 5.1 | 5.4 | 5.6 | 5.7 | 4.4 | 46 |
| 48 | 4.3 | 4.5 | 4.7 | 5.0 | 5.2 | 5.3 | 5.5 | 4.1 | 48 |
| 50 | 4.0 | 4.3 | 4.6 | 4.8 | 4.9 | 5.2 | 5.3 | 4.0 | 50 |
| 52 | 3.9 | 4.1 | 4.4 | 4.5 | 4.8 | 5.0 | 5.1 | 3.8 | 52 |
| 54 | 3.8 | 3.9 | 4.1 | 4.4 | 4.6 | 4.9 | 5.0 | 3.6 | 54 |
| 56 | 3.6 | 3.8 | 4.0 | 4.3 | 4.5 | 4.7 | 4.8 | 3.6 | 56 |
| 58 | 3.5 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 4.7 | 3.5 | 58 |
| 60 | 3.4 | 3.6 | 3.8 | 4.0 | 4.2 | 4.2 | 4.3 | 3.4 | 60 |
| 62 | 3.2 | 3.4 | 3.6 | 3.9 | 3.9 | 4.1 | 4.2 | 3.3 | 62 |
| 64 | 3.0 | 3.3 | 3.3 | 3.6 | 3.7 | 3.6 | 3.6 | 3.2 | 64 |
| 66 | 3.0 | 3.2 | 3.2 | 3.4 | 3.2 | 3.1 | 3.1 | 3.1 | 66 |
| 68 | 2.7 | 2.9 | 3.1 | 2.9 | 2.7 | 2.6 | 2.6 | 2.8 | 68 |
| 70 | 2.6 | 2.8 | 3.0 | 2.5 | 2.3 | 2.2 | 2.2 | 2.3 | 70 |
| 72 | 2.5 | 2.6 | 2.5 | 2.1 | 1.8 | 1.8 | 1.8 | 1.9 | 72 |
| 74 | 2.3 | 2.5 | 2.1 | 1.7 | | | | | 74 |
| 76 | 2.1 | 2.3 | 1.7 | | | | | | 76 |
| 78 | 1.8 | 2.0 | | | | | | | 78 |
| 80 | | 1.7 | | | | | | | 80 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

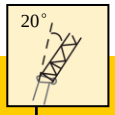
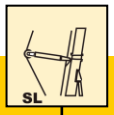
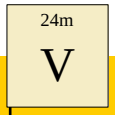
| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | 80.8+24m | |
|---|---|---|---|---|---|---|---|---|---|
| | | 45.5-80.8m T | 10.5m | 0° | SL | 9.3m×8.3m | 360° | 100t | 24m V | |
| 14 | 23.2 | | | | | | | | 14 |
| 16 | 22.1 | 21.4 | | | | | | | 16 |
| 18 | 21.1 | 20.5 | 20.0 | | | | | | 18 |
| 20 | 19.9 | 19.5 | 19.2 | 18.9 | | | | | 20 |
| 22 | 19.0 | 18.6 | 18.4 | 18.3 | | | | | 22 |
| 24 | 17.9 | 17.7 | 17.5 | 17.5 | 17.3 | | | | 24 |
| 26 | 17.0 | 16.8 | 16.7 | 16.6 | 16.6 | 16.1 | | | 26 |
| 28 | 16.1 | 15.9 | 16.0 | 16.1 | 16.0 | 15.3 | 10.8 | | 28 |
| 30 | 15.2 | 15.1 | 15.3 | 15.2 | 15.5 | 14.4 | 10.8 | 6.9 | 30 |
| 32 | 14.5 | 14.5 | 14.6 | 14.6 | 14.9 | 13.7 | 10.8 | 6.9 | 32 |
| 34 | 13.8 | 13.9 | 14.0 | 14.1 | 14.3 | 13.1 | 10.3 | 6.9 | 34 |
| 36 | 13.2 | 13.2 | 13.4 | 13.5 | 13.8 | 12.1 | 9.8 | 6.9 | 36 |
| 38 | 12.8 | 12.8 | 12.9 | 13.0 | 13.2 | 11.6 | 9.4 | 6.6 | 38 |
| 40 | 12.4 | 12.5 | 12.6 | 12.8 | 12.8 | 11.0 | 9.0 | 6.4 | 40 |
| 42 | 11.9 | 12.0 | 12.3 | 12.4 | 12.7 | 10.6 | 8.5 | 6.1 | 42 |
| 44 | 11.5 | 11.6 | 11.4 | 11.0 | 10.8 | 10.2 | 8.1 | 5.8 | 44 |
| 46 | 11.0 | 11.1 | 10.5 | 9.9 | 9.7 | 9.7 | 7.8 | 5.6 | 46 |
| 48 | 9.7 | 10.0 | 9.5 | 8.9 | 8.7 | 8.6 | 7.3 | 5.3 | 48 |
| 50 | 8.8 | 9.1 | 8.4 | 8.0 | 7.8 | 7.7 | 7.0 | 5.0 | 50 |
| 52 | 7.9 | 8.2 | 7.5 | 7.1 | 6.9 | 6.9 | 6.7 | 4.7 | 52 |
| 54 | 7.1 | 7.4 | 6.8 | 6.4 | 6.1 | 6.1 | 6.2 | 4.6 | 54 |
| 56 | 6.4 | 6.7 | 6.0 | 5.6 | 5.4 | 5.4 | 5.5 | 4.4 | 56 |
| 58 | 5.7 | 5.9 | 5.4 | 5.0 | 4.8 | 4.7 | 4.8 | 4.0 | 58 |
| 60 | 5.0 | 5.3 | 4.8 | 4.3 | 4.1 | 4.1 | 4.2 | 4.0 | 60 |
| 62 | 4.4 | 4.7 | 4.1 | 3.7 | 3.5 | 3.5 | 3.5 | 3.9 | 62 |
| 64 | 3.9 | 4.2 | 3.6 | 3.2 | 3.0 | 2.9 | 3.0 | 3.2 | 64 |
| 66 | 3.4 | 3.7 | 3.1 | 2.7 | 2.5 | 2.4 | 2.5 | 2.7 | 66 |
| 68 | 2.9 | 3.2 | 2.6 | 2.2 | 2.0 | 2.0 | 2.0 | 2.2 | 68 |
| 70 | 2.5 | 2.8 | 2.1 | 1.8 | | | 1.6 | 1.8 | 70 |
| 72 | 2.0 | 2.4 | 1.7 | | | | | | 72 |
| 74 | | 2.0 | | | | | | | 74 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | n |

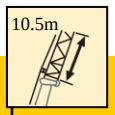
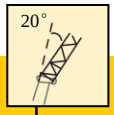
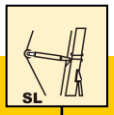
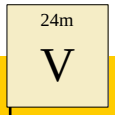
## Working range diagram Boom + super lift + 24m extension + fixed jib 20° offset angle

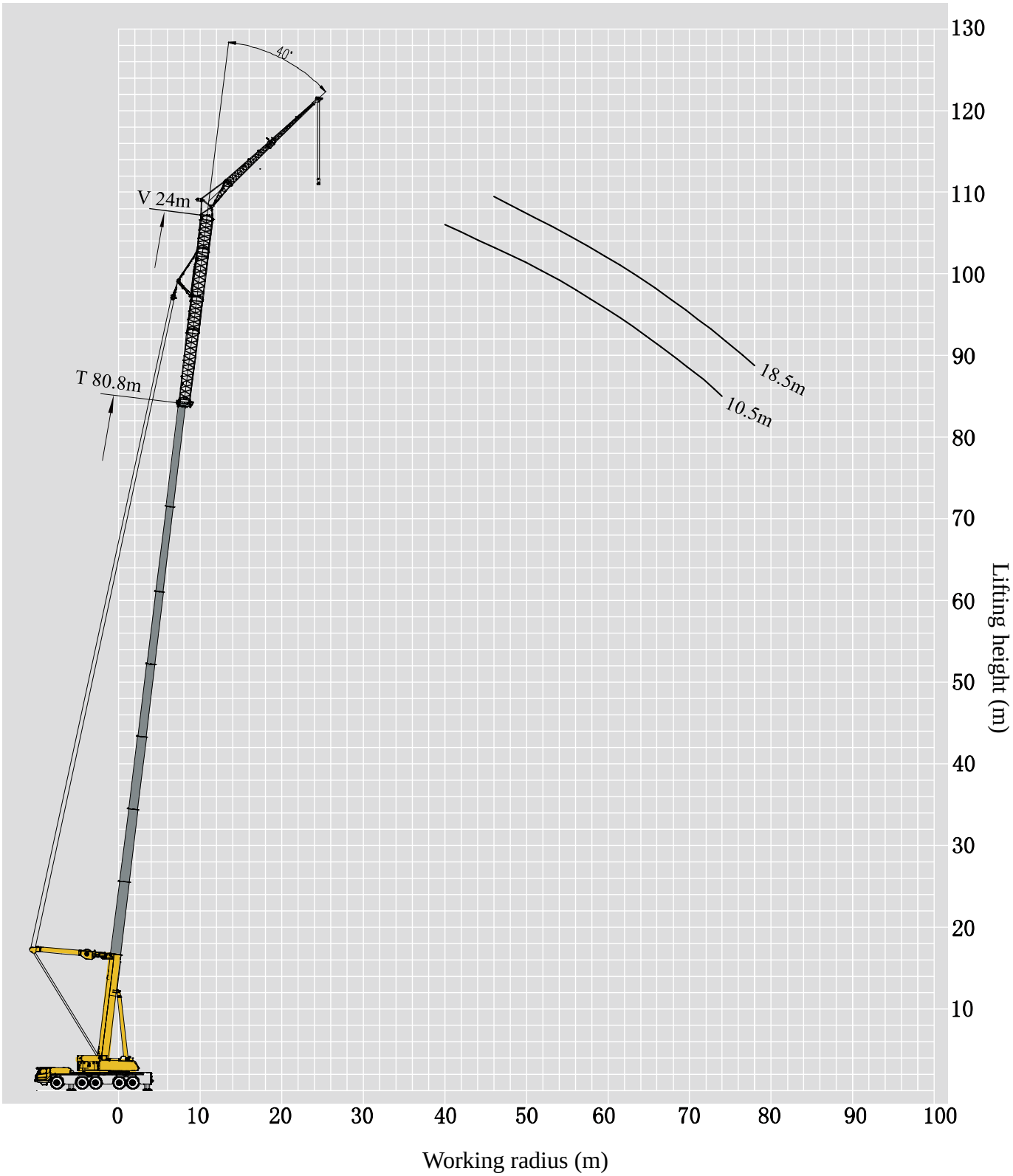


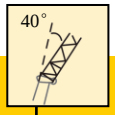
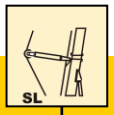
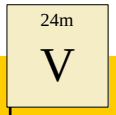



| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | |
|---|---|---|---|---|---|---|---|---|
| 26 | 3.6 | | | | | | | 26 |
| 28 | 3.5 | 3.4 | | | | | | 28 |
| 30 | 3.4 | 3.3 | 3.4 | | | | | 30 |
| 32 | 3.3 | 3.2 | 3.3 | 3.4 | | | | 32 |
| 34 | 3.1 | 3.1 | 3.2 | 3.3 | 3.3 | | | 34 |
| 36 | 2.9 | 3.0 | 3.1 | 3.2 | 3.2 | | | 36 |
| 38 | 2.8 | 2.9 | 2.9 | 3.0 | 3.1 | 3.2 | | 38 |
| 40 | 2.7 | 2.8 | 2.9 | 2.8 | 3.0 | 3.1 | | 40 |
| 42 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 3.0 | 3.3 | 42 |
| 44 | 2.5 | 2.6 | 2.7 | 2.8 | 2.8 | 2.9 | 3.2 | 44 |
| 46 | 2.5 | 2.6 | 2.7 | 2.6 | 2.8 | 2.8 | 3.0 | 46 |
| 48 | 2.4 | 2.4 | 2.7 | 2.6 | 2.7 | 2.8 | 2.9 | 48 |
| 50 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.6 | 2.9 | 50 |
| 52 | 2.4 | 2.3 | 2.4 | 2.5 | 2.6 | 2.6 | 2.7 | 52 |
| 54 | 2.2 | 2.3 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 54 |
| 56 | 2.2 | 2.3 | 2.3 | 2.4 | 2.5 | 2.4 | 2.7 | 56 |
| 58 | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 58 |
| 60 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 2.5 | 60 |
| 62 | 2.1 | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.5 | 62 |
| 64 | 2.0 | 2.1 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 | 64 |
| 66 | 2.0 | 2.1 | 2.0 | 2.2 | 2.1 | 2.3 | 2.3 | 66 |
| 68 | 2.0 | 1.9 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 68 |
| 70 | 1.9 | 1.9 | 2.0 | 1.9 | 2.0 | 2.0 | 2.2 | 70 |
| 72 | 1.9 | 1.9 | 1.8 | 1.9 | 2.0 | 2.0 | 2.2 | 72 |
| 74 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.1 | 74 |
| 76 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 2.1 | 76 |
| 78 | 1.7 | 1.7 | 1.6 | 1.8 | 1.8 | 1.8 | 2.0 | 78 |
| 80 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 80 |
| 82 | | 1.6 | 1.6 | | | | | 82 |
| 84 | | 1.6 | | | | | | 84 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | 80.8+24m | |
|---|---|---|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |  |  |  |
| 24 | 4.5 | | | | | | | | 24 |
| 26 | 4.2 | 4.3 | | | | | | | 26 |
| 28 | 4.1 | 4.1 | 4.3 | | | | | | 28 |
| 30 | 4.0 | 4.0 | 4.1 | 4.1 | 4.3 | | | | 30 |
| 32 | 3.8 | 3.9 | 3.9 | 4.0 | 4.1 | 4.2 | | | 32 |
| 34 | 3.7 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | | | 34 |
| 36 | 3.6 | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | 4.1 | | 36 |
| 38 | 3.5 | 3.5 | 3.6 | 3.7 | 3.7 | 3.8 | 4.0 | | 38 |
| 40 | 3.4 | 3.4 | 3.5 | 3.6 | 3.6 | 3.7 | 3.9 | 4.1 | 40 |
| 42 | 3.3 | 3.3 | 3.4 | 3.4 | 3.5 | 3.6 | 3.7 | 4.0 | 42 |
| 44 | 3.2 | 3.2 | 3.3 | 3.3 | 3.4 | 3.5 | 3.6 | 3.9 | 44 |
| 46 | 3.0 | 3.1 | 3.2 | 3.2 | 3.4 | 3.4 | 3.5 | 3.8 | 46 |
| 48 | 3.0 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.7 | 48 |
| 50 | 2.8 | 3.0 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.6 | 50 |
| 52 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 3.2 | 3.3 | 3.5 | 52 |
| 54 | 2.8 | 2.7 | 3.0 | 3.0 | 3.0 | 3.2 | 3.2 | 3.5 | 54 |
| 56 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 3.4 | 56 |
| 58 | 2.6 | 2.7 | 2.7 | 2.9 | 3.0 | 3.0 | 3.1 | 3.3 | 58 |
| 60 | 2.6 | 2.7 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.3 | 60 |
| 62 | 2.6 | 2.5 | 2.5 | 2.8 | 2.8 | 2.9 | 3.0 | 3.2 | 62 |
| 64 | 2.3 | 2.5 | 2.5 | 2.6 | 2.8 | 2.6 | 2.8 | 2.9 | 64 |
| 66 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.6 | 2.8 | 2.5 | 66 |
| 68 | 2.3 | 2.4 | 2.4 | 2.4 | 2.6 | 2.6 | 2.7 | 2.5 | 68 |
| 70 | 2.3 | 2.2 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.5 | 70 |
| 72 | 2.2 | 2.2 | 2.4 | 2.4 | 2.5 | 2.6 | 2.6 | 2.4 | 72 |
| 74 | 2.2 | 2.2 | 2.3 | 2.3 | 2.1 | 2.1 | 2.1 | 2.2 | 74 |
| 76 | 2.2 | 2.1 | 2.3 | 1.9 | 1.7 | 1.7 | 1.7 | 1.8 | 76 |
| 78 | 2.1 | 2.1 | 1.8 | | | | | | 78 |
| 80 | 1.7 | 2.0 | | | | | | | 80 |
| 82 | | 1.6 | | | | | | | 82 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | 80.8+24m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 22 | 14.9 | | | | | | | | 22 |
| 24 | 14.3 | 14.1 | | | | | | | 24 |
| 26 | 13.8 | 13.6 | 13.4 | | | | | | 26 |
| 28 | 13.2 | 13.0 | 13.0 | 13.1 | 12.9 | | | | 28 |
| 30 | 12.9 | 12.7 | 12.8 | 12.9 | 12.7 | 12.4 | | | 30 |
| 32 | 12.5 | 12.5 | 12.4 | 12.5 | 12.5 | 12.0 | 9.5 | | 32 |
| 34 | 12.1 | 12.0 | 12.0 | 12.0 | 12.1 | 11.6 | 9.2 | | 34 |
| 36 | 11.6 | 11.6 | 11.7 | 11.6 | 11.7 | 11.1 | 8.9 | 6.8 | 36 |
| 38 | 11.2 | 11.2 | 11.3 | 11.3 | 11.4 | 10.7 | 8.5 | 6.4 | 38 |
| 40 | 10.8 | 10.8 | 10.9 | 10.9 | 11.0 | 10.2 | 8.2 | 6.2 | 40 |
| 42 | 10.4 | 10.4 | 10.5 | 10.6 | 10.7 | 9.8 | 7.8 | 5.7 | 42 |
| 44 | 10.1 | 10.1 | 10.2 | 10.3 | 10.4 | 9.5 | 7.6 | 5.6 | 44 |
| 46 | 9.7 | 9.8 | 9.9 | 10.0 | 10.2 | 9.1 | 7.2 | 5.2 | 46 |
| 48 | 9.4 | 9.4 | 9.6 | 9.7 | 9.5 | 8.8 | 7.0 | 5.1 | 48 |
| 50 | 9.1 | 9.1 | 9.3 | 8.7 | 8.5 | 8.5 | 6.6 | 4.8 | 50 |
| 52 | 8.8 | 8.8 | 8.2 | 7.8 | 7.6 | 7.6 | 6.4 | 4.6 | 52 |
| 54 | 7.7 | 8.0 | 7.4 | 7.0 | 6.8 | 6.8 | 6.1 | 4.5 | 54 |
| 56 | 6.9 | 7.2 | 6.6 | 6.2 | 6.1 | 6.0 | 5.9 | 4.0 | 56 |
| 58 | 6.2 | 6.5 | 5.9 | 5.5 | 5.4 | 5.3 | 5.4 | 3.9 | 58 |
| 60 | 5.5 | 5.9 | 5.2 | 4.9 | 4.7 | 4.7 | 4.8 | 3.8 | 60 |
| 62 | 4.9 | 5.2 | 4.6 | 4.3 | 4.1 | 4.1 | 4.2 | 3.7 | 62 |
| 64 | 4.2 | 4.7 | 4.1 | 3.7 | 3.5 | 3.5 | 3.6 | 3.5 | 64 |
| 66 | 3.7 | 4.1 | 3.4 | 3.2 | 3.0 | 3.0 | 3.1 | 3.3 | 66 |
| 68 | 3.2 | 3.5 | 2.9 | 2.6 | 2.5 | 2.5 | 2.6 | 2.7 | 68 |
| 70 | 2.7 | 3.0 | 2.5 | 2.1 | 2.0 | 2.0 | 2.1 | 2.3 | 70 |
| 72 | 2.2 | 2.6 | 2.0 | 1.7 | | | 1.6 | 1.8 | 72 |
| 74 | | 2.2 | 1.6 | | | | | | 74 |
| 76 | | 1.8 | | | | | | | 76 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | n |


40°
V 24m
T 80.8m
18.5m
10.5m
130
120
110
100
90
80
70
60
50
40
30
20
10
Lifting height (m)
0
10
20
30
40
50
60
70
80
90
100
Working radius (m)

| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | 80.8+24m | |
|---|---|---|---|---|---|---|---|---|---|
| | |   |   |   |   |   |   |   |   | |
| 26 | 3.1 | | | | | | | | 26 |
| 28 | 2.9 | 2.9 | | | | | | | 28 |
| 30 | 2.8 | 2.7 | 2.8 | | | | | | 30 |
| 32 | 2.8 | 2.7 | 2.8 | 2.8 | | | | | 32 |
| 34 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | | | | 34 |
| 36 | 2.6 | 2.7 | 2.7 | 2.8 | 2.8 | | | | 36 |
| 38 | 2.6 | 2.6 | 2.7 | 2.8 | 2.8 | 2.8 | | | 38 |
| 40 | 2.5 | 2.6 | 2.7 | 2.6 | 2.7 | 2.8 | | | 40 |
| 42 | 2.5 | 2.6 | 2.6 | 2.6 | 2.7 | 2.6 | 2.8 | | 42 |
| 44 | 2.5 | 2.5 | 2.6 | 2.6 | 2.7 | 2.6 | 2.8 | | 44 |
| 46 | 2.4 | 2.4 | 2.5 | 2.6 | 2.6 | 2.6 | 2.7 | 2.9 | 46 |
| 48 | 2.4 | 2.4 | 2.5 | 2.4 | 2.6 | 2.6 | 2.7 | 2.9 | 48 |
| 50 | 2.4 | 2.4 | 2.5 | 2.4 | 2.5 | 2.6 | 2.6 | 2.9 | 50 |
| 52 | 2.4 | 2.4 | 2.5 | 2.4 | 2.5 | 2.6 | 2.6 | 2.9 | 52 |
| 54 | 2.3 | 2.4 | 2.5 | 2.4 | 2.5 | 2.5 | 2.6 | 2.9 | 54 |
| 56 | 2.3 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 2.7 | 56 |
| 58 | 2.2 | 2.3 | 2.2 | 2.3 | 2.4 | 2.4 | 2.4 | 2.7 | 58 |
| 60 | 2.2 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 2.6 | 60 |
| 62 | 2.2 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 2.6 | 62 |
| 64 | 2.2 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 2.6 | 64 |
| 66 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 | 2.6 | 66 |
| 68 | 2.1 | 2.0 | 2.1 | 2.2 | 2.3 | 2.1 | 2.3 | 2.6 | 68 |
| 70 | | 2.0 | 2.1 | 2.2 | 2.1 | 2.1 | 2.3 | 2.4 | 70 |
| 72 | | | 2.1 | 2.0 | 2.1 | 2.1 | 2.1 | 2.2 | 72 |
| 74 | | | 2.1 | 2.0 | 2.1 | 2.1 | 2.1 | 2.0 | 74 |
| 76 | | | | 2.0 | 2.1 | 2.1 | 2.1 | 2.0 | 76 |
| 78 | | | | 1.8 | 1.6 | 1.6 | 1.7 | 1.9 | 78 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

| | 45.5+24m | 50.6+24m | 55.6+24m | 60.7+24m | 65.7+24m | 70.7+24m | 75.8+24m | 80.8+24m | |
|---|---|---|---|---|---|---|---|---|---|
| 24 | 11.4 | | | | | | | | 24 |
| 26 | 11.2 | 11.2 | | | | | | | 26 |
| 28 | 11.1 | 11.1 | 10.9 | | | | | | 28 |
| 30 | 10.9 | 10.9 | 10.9 | 10.8 | | | | | 30 |
| 32 | 10.6 | 10.7 | 10.8 | 10.7 | 10.6 | | | | 32 |
| 34 | 10.6 | 10.5 | 10.5 | 10.4 | 10.4 | 10.1 | | | 34 |
| 36 | 10.4 | 10.2 | 10.2 | 10.1 | 10.2 | 9.9 | 7.9 | | 36 |
| 38 | 10.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.7 | 7.7 | | 38 |
| 40 | 9.8 | 9.6 | 9.6 | 9.7 | 9.7 | 9.5 | 7.6 | 5.8 | 40 |
| 42 | 9.5 | 9.4 | 9.4 | 9.4 | 9.4 | 9.2 | 7.4 | 5.4 | 42 |
| 44 | 9.2 | 9.2 | 9.1 | 9.3 | 9.2 | 8.9 | 7.1 | 5.4 | 44 |
| 46 | 8.9 | 8.9 | 9.0 | 9.0 | 9.1 | 8.6 | 6.8 | 5.0 | 46 |
| 48 | 8.7 | 8.6 | 8.7 | 8.9 | 8.9 | 8.3 | 6.6 | 4.9 | 48 |
| 50 | 8.4 | 8.5 | 8.5 | 8.7 | 8.7 | 8.1 | 6.2 | 4.8 | 50 |
| 52 | 7.8 | 7.8 | 8.4 | 8.4 | 8.0 | 7.8 | 6.1 | 4.3 | 52 |
| 54 | 7.7 | 7.6 | 7.6 | 7.3 | 7.1 | 7.5 | 5.9 | 4.2 | 54 |
| 56 | 7.0 | 7.4 | 6.8 | 6.5 | 6.4 | 6.4 | 5.6 | 4.0 | 56 |
| 58 | 6.3 | 6.6 | 6.1 | 5.8 | 5.6 | 5.6 | 5.5 | 4.0 | 58 |
| 60 | 5.6 | 6.0 | 5.4 | 5.1 | 5.0 | 5.0 | 5.3 | 3.6 | 60 |
| 62 | | 5.3 | 4.8 | 4.5 | 4.3 | 4.3 | 4.5 | 3.5 | 62 |
| 64 | | 4.7 | 4.2 | 3.9 | 3.8 | 3.8 | 3.9 | 3.3 | 64 |
| 66 | | | 3.6 | 3.3 | 3.2 | 3.2 | 3.3 | 3.1 | 66 |
| 68 | | | 3.1 | 2.8 | 2.7 | 2.7 | 2.8 | 3.0 | 68 |
| 70 | | | | 2.3 | 2.2 | 2.2 | 2.3 | 2.5 | 70 |
| 72 | | | | | 1.7 | 1.8 | 1.9 | 2.1 | 72 |
| 74 | | | | | | | | 1.6 | 74 |
| Code | 1111110 | 1111111 | 2111111 | 2211111 | 2221111 | 2222111 | 2222211 | 2222221 | Code |
| n | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | n |

## Table of main technical parameters

| Type | Item | | Unit | Parameters | |
|---|---|---|---|---|---|
| Dimensions | Dimensions (L×W×H) | | mm | 18424×3000×4175 | |
| | Wheel base | | mm | 3100+1650+2900+1650 | |
| | Track (front/rear) | | mm | 2540 | |
| | Front overhang/rear overhang | | mm | 2661/2441 | |
| | Front extension/rear extension | | mm | 3128/894 | |
| Weight | Max. permissible total weight | | kg | 99600 | |
| | Axle load | Axle1 | kg | 19800 | |
| | | Axle 2 | kg | 19800 | |
| | | Axle 3 | kg | 20000 | |
| | | Axle 4 | kg | 20000 | |
| | | Axle 5 | kg | 20000 | |
| Power | Engine model | | —— | (Chassis) WP13.550E62 | (Superstructure) WP7G300E473 |
| | Rated power / RPM | | kW (r/min) | 405/1900 | 221/2200 |
| | Max. net power/ RPM | | kW (r/min) | 400/1900 | 221/2200 |
| | Max. output torque / RPM | | N.m (r/min) | 2500/(950~1400) | 1200/(1400~1600) |
| Travel | Max. travel speed | | km/h | 20 | |
| | Min. stable travel speed | | km/h | 3 | |
| | Min. turning diameter | | m | ≤19.4 (all-wheel steering) | |
| | Min. ground clearance | | mm | 359 | |
| | Approach angle | | ° | 19 | |
| | Departure angle | | ° | 12 | |
| | Max. grade ability | | % | 10 | |
| Noise | Exterior noise level when accelerating | | dB(A) | ≤86 | |
| | Noise level at seated position | | dB(A) | ≤90 | |

## Table of main technical parameters

| Type | Item | | | Unit | Parameters |
|---|---|---|---|---|---|
| Main performance | Max. rated lifting capacity | | | t | 350 |
| | Min. rated working radius | | | m | 2.4 |
| | Turning radius at turntable tail | | | mm | 5630 |
| | Max. load moment | Base boom | | kN.m | 8310 |
| | | Fully-extended boom | | kN.m | 3313 |
| | Outrigger span | Longitudinal | | m | 9.3 |
| | | Lateral | | m | 8.3/6.9/5.49 |
| | Lifting height | Base boom | | m | 15 |
| | | Fully-extended boom | | m | 92 |
| | | Fully-extended boom + jib | | m | 126 |
| | Boom length | Base boom | | m | 15.3 |
| | | Fully-extended boom | | m | 92 |
| | | Fully-extended boom + jib | | m | 126.3 |
| Working speed | Time for raising boom | | | s | ≤90 |
| | Time for extending boom fully | | | s | ≤1100 |
| | Max. slewing speed | | | r/min | 1.2 |
| | Time for extending / retracting the outriggers | Outrigger beam | Retracting | s | ≤30 |
| | | | Extending | s | ≤40 |
| | | Outrigger jacks | Retracting | s | ≤50 |
| | | | Extending | s | ≤80 |
| | Hoisting speed (single line, at outermost layer, no load) | Main winch system | | m/min | ≥120 |
| Noise | Exterior noise level | | | dB(A) | ≤108 |
| | Noise level at seated position | | | dB(A) | ≤85 |

## General symbols

| | | | |
|---|---|---|---|
|  | Superstructure |  | Chassis |
|  | Lifting capacity |  | Axle |
|  | Boom length |  | Travel speed |
|  | Working radius |  | Grade ability |
|  | Boom angle |  | Tires |
|  | Lifting height of boom |  | Outrigger |
|  | Fixed jib length |  | Hook block |
|  | Jib offset angle |  | Counterweight |
|  | Jib lifting height |  | Winches |
|  | Independent jib head or wind power jib |  | 360° operation of the boom |
|  | Luffing jib |  | Super lift |
|  | Extension |  | Max. working radius |

# Notes

| | |
|---|---|
| 1. | The manual is intended as reference only. See product manuals for correct operation instructions. |
| 2. | The load capacity values in the tables are stated in t, which are the maximum total load capacity of the crane on a stable and even surface under the current boom length and radius, including the weight of hooks and riggings. The weight of the above devices must be subtracted during lifting operations. |
| 3. | The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground. |
| 4. | 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. |
| 5. | 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 125 N/㎡). |

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