

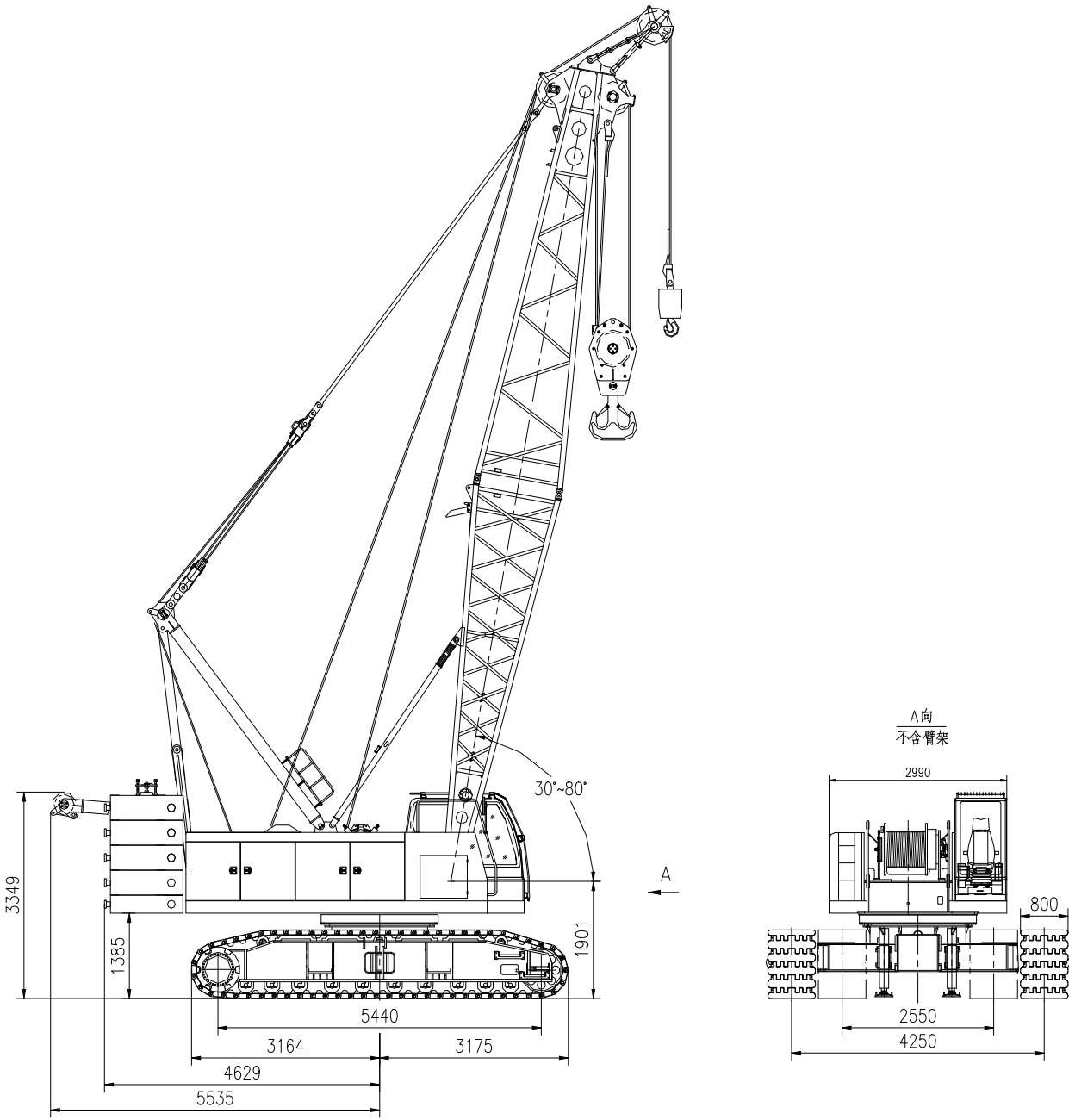
ZOOMLION ZCC100H CRAWLER CRANE

# **TECHNICAL SPECIFICATIONS**

ZCC100H/27Y

1. Overall dimensions and main technical parameters

1.1 Overall dimensions of S boom



## 1.2. Main technical parameters

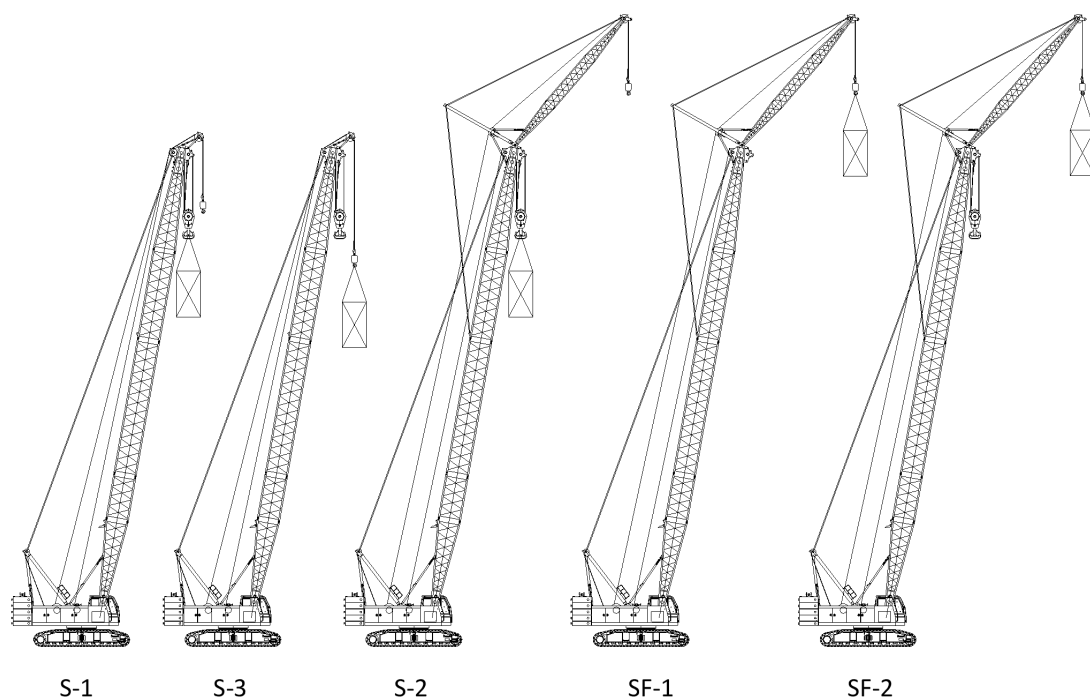
Table – Main technical parameters

| Item   |   | Unit   | Value                 | Remarks                                  |
|--|---|--------|-----------------------|--|
| Max. lifting moment  |   | t×m    | 390                   |  |
| Max. lifting capacity  |   | t      | 100                   |  |
| Max. lifting capacity on fixed jib                                     |   | t      | 12                    |  |
| Main boom length   |   | m      | 13~64                 |  |
| Fixed jib length   |   | m      | 7~19                  |  |
| Max. length of main boom with fixed jib                                |   | m      | 52+19                 |  |
| Main boom angle  |   | °      | 30~80                 |  |
| Fixed jib angle  |   | °      | 15, 30                |  |
| Hoisting winch   |   | m/min  | 141                   |  |
| Derricking winch   |   | m/min  | 109                   |  |
| Slewing speed  |   | rpm    | 0~2.4                 |  |
| Traveling speed  |   | km/h   | 0~1.3                 |  |
| Max. gradeability  |   | %      | 30                    |  |
| Ground pressure  |   | MPa    | 0.097                 |  |
| Deadweight   |   | t      | 86                    | Basic boom with main load hook attached  |
| Crane counterweight  |   | t      | 32.0                  |  |
| Overall dimensions (L × W × H)   |   | mm     | 13300×5050(3380)×3270 | With A-frame and main boom pivot section |
| Engine   | Model   |        | WP7G270E301           |  |
|  | Rated power / rotational speed                          | kW/rpm | 199/2000              |  |
|  | Max. output torque / rotational speed                   | Nm/rpm | 1200/(1200~1500)      |  |
|  | Exhaust emission  | /      | 国三                    |  |
| Distance between track center × crawler contact length × crawler width |   | mm     | 2550×5440×800         | Crawler carrier retracted                |
|  |   | mm     | 4250×5440×800         | Crawler carrier extended                 |
| Noise  | Noise level outside the operator's cab during operation | dB     | ≤107                  |  |
|  | Noise level in the operator's cab during operation      | dB     | ≤85                   |  |

**Note:**

1. The single rope speed of the winch, slewing speed and traveling speed vary with the load.
2. The ground pressure is the average value, and the actual maximum ground pressure should be determined according to the actual lifting conditions.

### 1.3. Boom configurations



S-1: Main boom S-2: Main boom (with fixed jib) S-3: Aux-jib

SF-1: Fixed jib SF-2: Fixed jib (with main hook)

### 1.4. Main technical features

#### ★ High work efficiency

Series-connected multiple valve-controlled hydraulic system is applied, so that all simultaneous movements can be achieved and no deceleration will occur during the switching of crane movements.

Single rope speed on the outmost layer of hoisting winch 1 is 141 m/min.

To improve lifting efficiency, hoisting winch 1 with free-fall function is available for an option.

#### ★ 运输及拆装优化

##### ★ Optimization of transportation, assembly and dismantling

A-frame can be erected by itself without the help of oil cylinder, thus achieving rapid assembly of the crane.

The weight of single counterweight plate is less than 6.75t, so that the counterweight can be assembled by use of a small-sized auxiliary crane.

The crawler carriers can be extended and retracted, and the maximum transport width of the crane is 3.38m/3.0m.

## 2. Technical instructions

### 2.1. Crane engine

Engine model: Weichai power WP7G270E301

Type: six-cylinder in-line, intercooling turbine diesel engine

Displacement: 7.47L

Rated power: 199kW/2000r/min

Max. torque: 1200N.m/(1200~1500)r/min

Exhaust emission: National Stage III

Fuel tank capacity: 400L

### 2.2 Hydraulic system

The crane adopts a series-connected hydraulic system with hydraulic pilot proportional control. The high-speed hydraulic motor drives the planet reducer to realize the movements of the mechanisms.

The system has the advantages of high efficiency, energy-saving, smooth and safe simultaneous movements.

Oil cooler for hydraulic system: 40 kW

Hydraulic oil tank capacity: 520L

### 2.3. Electrical system

24 Volt DC, negative ground, two batteries of 200AH each

The electrical system of the crane includes power, engine start, engine shutdown, indicator light, warning device, illumination device, fan, wiper, horn, hoisting limiter, hydraulic oil cooling fan, concentrated display panel, load moment limiter, safety devices etc. which not only ensure safe operation of the crane but also provide a good working environment.

The crane is also fitted with GPS/GPRS system.

### 2.4 Hoisting winches

The axial piston variable displacement motor drives hoisting winches 1 and 2 via a built-in planet reducer.

Brake the winch via the spring on the winch motor, which is controlled by balance valve.

The winding drum is a kind of cast drum with LEBUS groove, which can ensure that the multi-layer wire rope will not be wound disorderly.

|  | Hoisting winch 1 | Hoisting winch 2 |
|--|------------------|------------------|
| Rated single rope force                          | 120kN            | 120kN            |
| Wire rope diameter                               | 26mm             | 26mm             |
| Wire rope length                                 | 200m             | 150m             |
| Max. single rope speed on the working rope layer | 141m/min         | 130m/min         |

Hoisting winch 1 with free-fall function is available for an option, and the single rope force on the 3<sup>rd</sup> rope layer can reach 11t.

### 2.5 Derricking system

The axial piston motor drives the derricking winch via a built-in planet reducer.

Brake the winch via the spring on the winch motor.

The winding drum can be locked by the ratchet wheel and ratchet pawl.

|   | <b>Derricking winch</b> |
|---|-------------------------|
| Rated single rope force                     | 71kN                    |
| Wire rope diameter                          | 20mm                    |
| Wire rope length                            | 155m                    |
| Single rope speed on the working rope layer | 109m/min                |

## 2.6.Slewing mechanism

The axial piston constant displacement motor drives the slewing mechanism via a planet reducer. The pinion gear on reducer output shaft rotates around the slewing ring on the undercarriage central section, thus achieving 360° continuous rotation of the slewing table.

Free-swing function can effectively reduce the lateral force of the boom.

### ✧ Slewing ring

Single-row ball, four-point contact, internal geared

### ✧ Slewing brake

The slewing mechanism is braked via the spring on the slewing motor, which is controlled by balance valve.

### ✧ Slewing speed

The maximum slewing speed is 2.4 rpm.

## 2.7.Rear counterweight

Tray-type assembly structure, the counterweight plates stacked up and down, and locked by the chain.

The counterweight is 1.32m wide, which is easy to transport.

The rear counterweight consists of a counterweight base plate and four counterweight plates, and its total weight is 32.0t.

The central counterweight consists of two counterweight plates, and its total weight is 9.0t.

## 2.8.Operator's cab

Spacious and full-closed cab is equipped with safety glass, adjustable seat, intermittent wiper and window water injector.

### ✧ Control boxes

The control boxes on both side of the cab are installed with various electrical switches, emergency stop button, etc. They can be adjusted with the operator's seat.

### ✧ Control levers and travel gear pedals with hand levers

Control levers: control the movements of hoisting winches 1 and 2, slewing mechanism and derricking winch, The crane movement can be performed independently and simultaneously.

### ✧ Air conditioning

Adopt standard heating and cooling air conditioning, and optimize air duct and air outlet.

## 2.9.Crane undercarriage

### ✧ Traveling power

Both left and right crawler carriers are fitted with an independent hydraulic driving system. Each hydraulic driving system has a hydraulic motor, which can drive the drive sprocket via planet reducer.

The operator can use hand levers or travel gear pedals to control the traveling movements, such as traveling straight ahead / backwards, turning with a crawler, differential steering and turning on spot.

#### ✧ Traveling brake

The travel gear can be braked via the spring on the traveling motor, which is controlled by balance valve.

#### ✧ Crawler carrier extending & retracting mechanism

Crawler carriers are extended and retracted via two hydraulic cylinders.

Crawler carrier extended:

Distance between track center: 4250mm

Crawler carrier retracted:

Distance between track center: 2550 mm

#### ✧ Track roller

Maintenance-free, sealed structure

#### ✧ Track pad

High-strength alloy cast steel track pad, its width: 800mm.

#### ✧ Traveling speed

The maximum traveling speed is 1.3 km/h.

## 2.10. Safety devices

Many safety devices, mechanical, electronic or hydraulic, are fitted on the crane to ensure safe operation of crane.

#### ✧ Load moment limiter

The load moment limiter can automatically detect main boom angle and lifting load, and provide feedback of these data to the operator according to the actual lifting situation.

When the normal operating range of the crane is exceeded, the load moment limiter will send out an alarm and limit the current movement.

8.0-inch LCD screen can show the following data: moment ratio, main boom angle, main boom length, working radius, actual load, and permissible lifting load, etc.

#### ✧ Hoisting limiter

Device to prevent any specified upper limitation of the load lifting attachment from being exceeded

If the load hook comes into contact with hoisting limit switch weight during its upward movement, the hoisting limit switch will be triggered and the crane movement "lift the load" will be switched off.

#### ✧ Derricking limiter

When main boom is raised to 80° position, the limit switch on the pivot section will be triggered, the buzzer will sound, the warning light on the screen will flash, and the crane movement "raise main boom" will be switched off.



#### ✧ Lowering limiter

When there are only three windings of wire rope left on the drum, the lowering limit switch will be triggered, the buzzer will sound, the warning light on the screen will flash and the crane movement “reel off winch” will be switched off.

#### ✧ Boom tilting-back support

The tilting-back support consists of inner pipe, outer pipe and spring. The inner pipe is set in the outer pipe. The tilting-back support is designed to prevent the boom from tilting backward.

#### ✧ Slewing locking device

Adopt both electrical and mechanical locking, generally used to fix the relative position between crane superstructure and undercarriage during transportation so as to avoid accidental operation.

#### ✧ Safety catch

Device to protect the lifted load from jumping out from the hook

#### ✧ Anemometer

An electronic wind speed sensor to indicate the actual wind speed at boom/jib head to the crane operator

#### ✧ Aviation warning light

Installed on the boom head, and used for high altitude warning

#### ✧ Angle indicator

It is fitted at the lower end of main boom pivot section. The operator can clearly see the boom angle from the cab.

#### ✧ Rear-view mirror

Located in the left front of the cab, and near the handrail in the right hood

#### ✧ Overflow valves in hydraulic system

The overflow valve fitted in hydraulic system can restrain the pressure in the oil circuit from rising irregularly, thus protecting such hydraulic elements as hydraulic oil pump and hydraulic motor against damage and preventing the hydraulic system from being overloaded.

#### ✧ Ratchet wheel mechanism for derricking winch

Device to lock the derricking winch when the crane is not used

#### ✧ Emergency stop button

Allow the engine to shut down and all movements to be stopped in an emergency situation.

#### ✧ Tricolor warning light

The warning light, by showing red, yellow and green colors, can indicate loading status.

Green color – the load ratio is less than 90%

Yellow color – the load ratio is between 90% and 100%

Red color – the load ratio has exceeded 100% and the crane is overloaded.

#### ✧ Slewing alarm (optional)

An acoustic alarm will be sent out during slewing movements.

#### ✧ Traveling alarm (optional)

An acoustic alarm will be sent out during traveling movements.

#### ✧ Video monitoring system (optional)

Camera and video display are available for options. They respectively monitor the working condition of crane hoisting winches and the blind spots behind the crane.

## 2.11. Boom system

### ✧ Main boom

Main boom length: 13m – 64m;

Consisting of 6.5m main boom pivot section, 6.5m main boom head, and main boom intermediate sections of 3m, 6m and 9m as well as tip boom.

Fixed jib

Fixed jib length: 7m – 19m; Consisting of 3.5m fixed jib pivot section, 3.5m fixed jib head and 4m fixed jib intermediate sections. Fixed jib mode with main boom length :31m～52m.

## 2.12. Load hook

Five kinds of load hook are available.

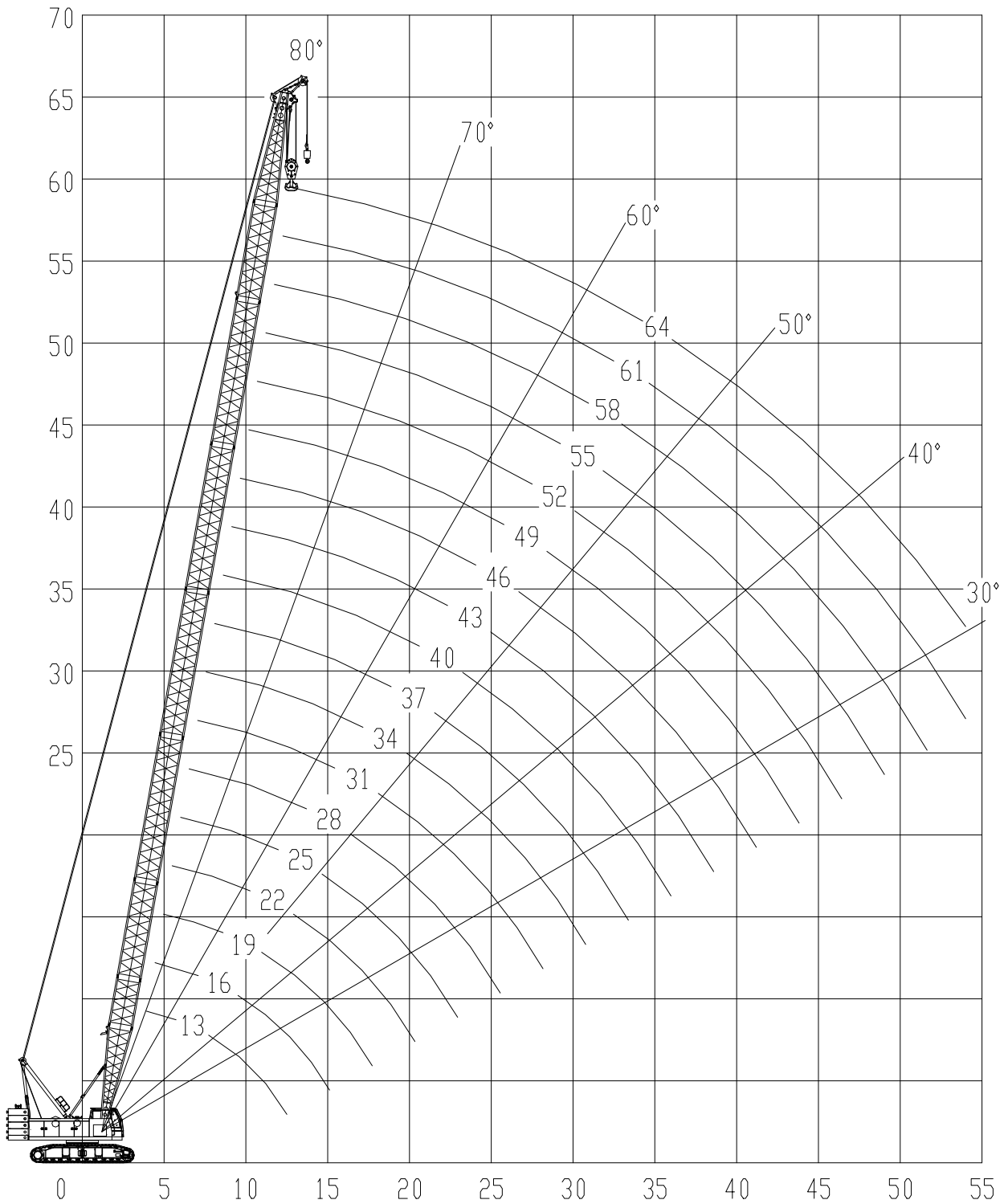
| Specification of load hook | Weight (kg) | Number of rope pulleys |
|----------------------------|-------------|------------------------|
| 100 t                      | 1630        | 5                      |
| 80 t                       | 1250        | 4                      |
| 50 t                       | 1360        | 2                      |
| 30 t                       | 763         | 1                      |
| 12t                        | 470         | 0                      |

3. Lifting performance

3.1 Main boom configuration

Lifting height on S-1/S-2 boom

Unit:m



## Lifting capacity on main boom(S-1,1/2)

Unit:t

| Radius | 13   | 16   | 19   | 22   | 25   | 28   | 31   | 34   | 37   |
|--------|------|------|------|------|------|------|------|------|------|
| 3.9    | 100  |      |      |      |      |      |      |      |      |
| 4      | 95   |      |      |      |      |      |      |      |      |
| 4.5    | 84.5 | 83.2 |      |      |      |      |      |      |      |
| 5      | 76   | 74.3 |      |      |      |      |      |      |      |
| 5.5    | 69.1 | 68.5 | 68.1 | 67.6 |      |      |      |      |      |
| 6      | 63.2 | 62.5 | 61.8 | 58.9 |      |      |      |      |      |
| 6.5    | 56.9 | 56.3 | 55.5 | 54.6 | 53.4 | 52.3 |      |      |      |
| 7      | 50.7 | 50.2 | 49.8 | 49.3 | 48.5 | 47   | 45.5 |      |      |
| 8      | 41.6 | 41.6 | 41.4 | 41   | 40.3 | 39.5 | 39   | 38.2 |      |
| 9      | 35.6 | 35.3 | 34.7 | 34.4 | 34.2 | 33.9 | 33.6 | 33.2 | 32.6 |
| 10     | 30.5 | 30.4 | 30.3 | 30.2 | 29.8 | 29.5 | 29.2 | 28.9 | 28.4 |
| 11     | 27   | 26.8 | 26.5 | 26.5 | 26.4 | 26.4 | 26.1 | 25.7 | 25.3 |
| 12     | 24.1 | 23.9 | 23.6 | 23.4 | 23.2 | 23.1 | 23   | 22.8 | 22.6 |
| 14     |      | 19.7 | 19.3 | 19.3 | 19.2 | 19.2 | 19.1 | 18.8 | 18.7 |
| 16     |      |      | 16.4 | 16.3 | 16.2 | 15.9 | 15.8 | 15.7 | 15.6 |
| 18     |      |      |      | 14.1 | 13.8 | 13.7 | 13.6 | 13.5 | 13.4 |
| 20     |      |      |      | 12.3 | 12   | 11.9 | 11.8 | 11.6 | 11.5 |
| 22     |      |      |      |      | 10.6 | 10.5 | 10.3 | 10.3 | 10.2 |
| 24     |      |      |      |      |      | 9.3  | 9.3  | 9.2  | 9    |
| 26     |      |      |      |      |      |      | 8.2  | 8.1  | 8    |
| 28     |      |      |      |      |      |      | 7.4  | 7.3  | 7.2  |
| 30     |      |      |      |      |      |      |      | 6.7  | 6.6  |
| 32     |      |      |      |      |      |      |      |      | 5.9  |

## Lifting capacity on main boom(S-1,2/2)

Unit: t

| Radius | 40   | 43   | 46   | 49   | 52   | 55   | 58   | 61   | 64   |
|--------|------|------|------|------|------|------|------|------|------|
| 9      | 31.9 |      |      |      |      |      |      |      |      |
| 10     | 28   | 27.5 | 25.9 |      |      |      |      |      |      |
| 11     | 24.9 | 24.4 | 24.1 | 23.6 | 20   |      |      |      |      |
| 12     | 22.4 | 22.2 | 22   | 21.3 | 19.3 | 17.6 | 16   |      |      |
| 14     | 18.6 | 18.4 | 18   | 17.8 | 17.5 | 16.5 | 15   | 13.5 | 10.8 |
| 16     | 15.5 | 15.4 | 15.2 | 15   | 14.6 | 14.3 | 14   | 12.6 | 10.1 |
| 18     | 13.3 | 13.2 | 13.1 | 13   | 12.8 | 12.5 | 12.3 | 11.8 | 9.5  |
| 20     | 11.4 | 11.3 | 11.2 | 11.1 | 10.9 | 10.6 | 10.4 | 10.1 | 8.9  |
| 22     | 10.1 | 10   | 9.8  | 9.8  | 9.7  | 9.5  | 9.2  | 9    | 8.2  |
| 24     | 8.9  | 8.8  | 8.7  | 8.6  | 8.5  | 8.4  | 8.2  | 8    | 7.5  |
| 26     | 7.9  | 7.8  | 7.7  | 7.6  | 7.5  | 7.4  | 7.3  | 7.2  | 6.8  |
| 28     | 7.1  | 7    | 6.9  | 6.8  | 6.7  | 6.6  | 6.5  | 6.4  | 6.2  |
| 30     | 6.4  | 6.3  | 6.2  | 6.1  | 6    | 5.9  | 5.8  | 5.7  | 5.6  |
| 32     | 5.8  | 5.7  | 5.6  | 5.5  | 5.4  | 5.3  | 5.2  | 5.1  | 4.9  |
| 34     | 5.3  | 5.2  | 5.1  | 4.9  | 4.8  | 4.7  | 4.6  | 4.5  | 4.4  |
| 36     | 4.8  | 4.7  | 4.6  | 4.4  | 4.3  | 4.2  | 4.1  | 4    | 3.9  |
| 38     |      | 4.3  | 4.1  | 4    | 3.9  | 3.8  | 3.7  | 3.6  | 3.4  |
| 40     |      |      | 3.8  | 3.7  | 3.6  | 3.4  | 3.3  | 3.2  | 3.1  |
| 42     |      |      |      | 3.4  | 3.3  | 3.1  | 3    | 2.9  | 2.8  |
| 44     |      |      |      |      | 2.9  | 2.8  | 2.7  | 2.6  | 2.4  |
| 46     |      |      |      |      | 2.6  | 2.5  | 2.4  | 2.3  | 2.2  |
| 48     |      |      |      |      |      | 2.3  | 2.1  | 2    | 1.9  |
| 50     |      |      |      |      |      |      | 1.9  | 1.8  | 1.7  |
| 52     |      |      |      |      |      |      |      | 1.6  | 1.5  |
| 54     |      |      |      |      |      |      |      | 1.4  | 1.2  |

Note:

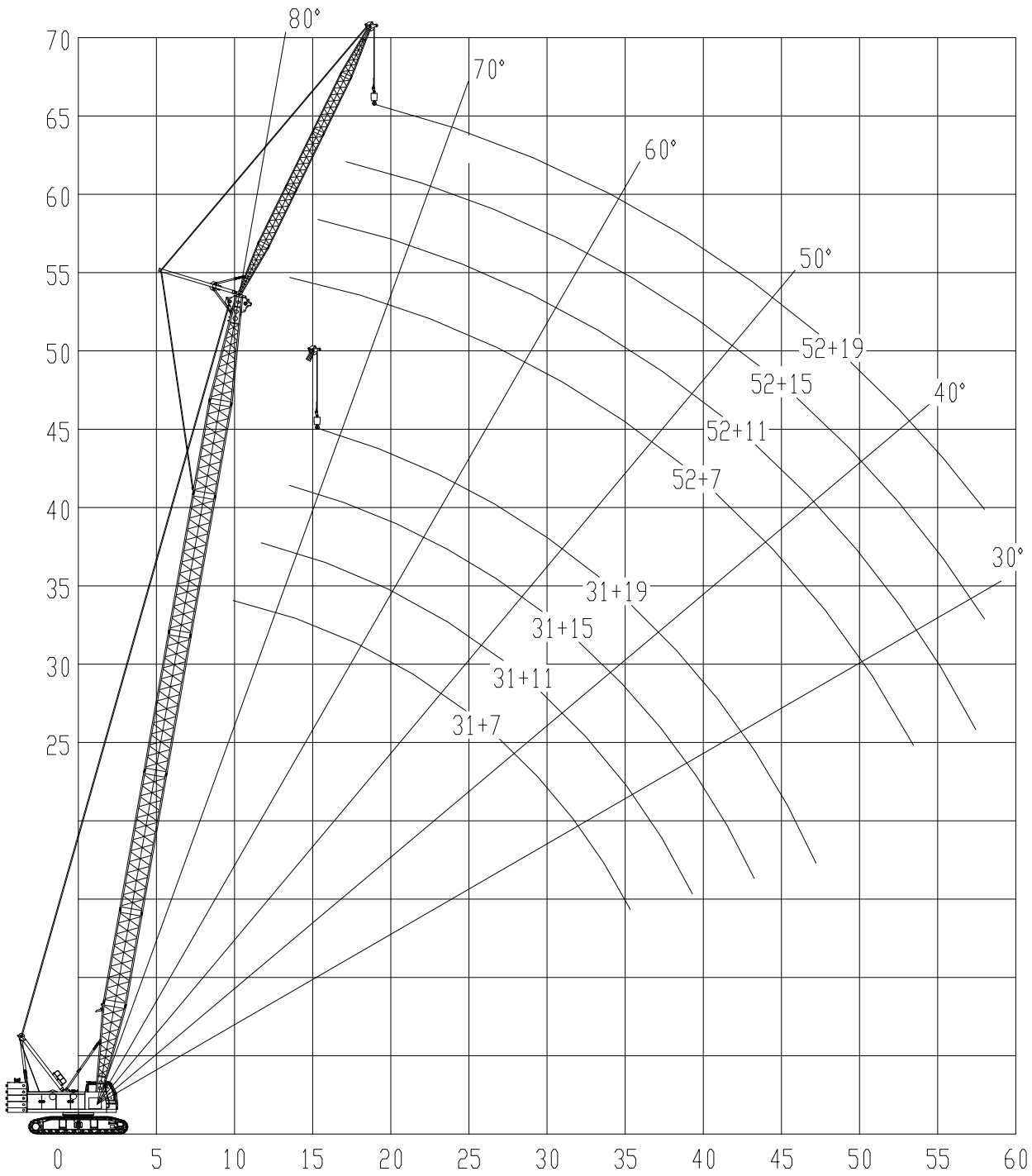
In S-1 boom configuration, main boom can be fitted with tip boom, whose rated load is the same as that on main boom. But the maximum lifting capacity on tip boom cannot exceed 11.0t;

3.2.Main boom with fixed jib configuration

Lifting height on SF-1/SF-2 boom

(Fixed jib angle =15°)

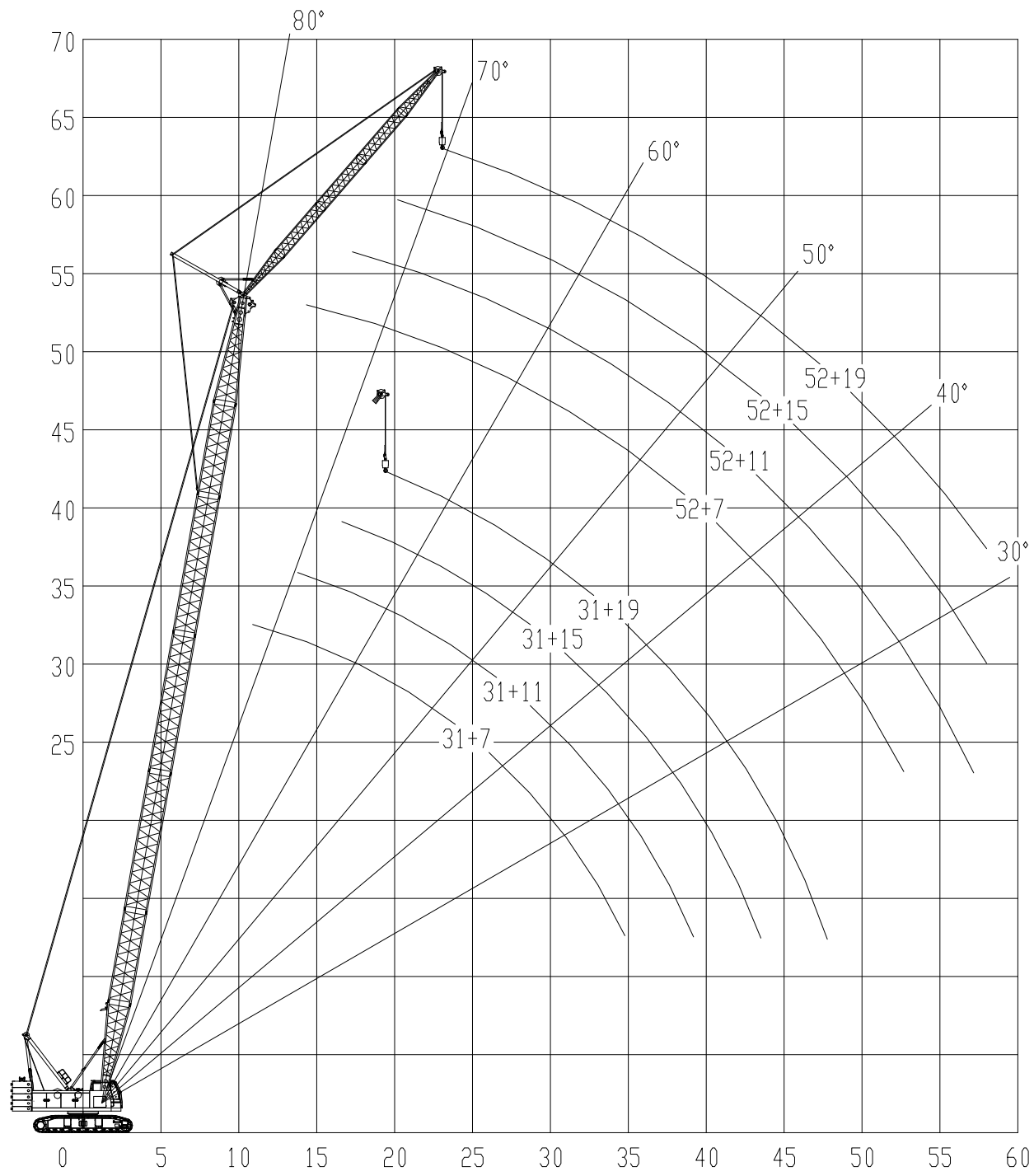
Unit: m



Lifting height on SF-1/SF-2 boom

(Fixed jib angle =30°)

Unit:m



## Lifting capacity on fixed jib (SF-1,1/2)

Unit: t

| Main boom        | 34   |      |      |      |      |      |      |     | 40   |      |      |      |      |      |      |     |
|------------------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|
| Fixed jib        | 7    |      | 11   |      | 15   |      | 19   |     | 7    |      | 11   |      | 15   |      | 19   |     |
| Radius/<br>angle | 15°  | 30°  | 15°  | 30°  | 15°  | 30°  | 15°  | 30° | 15°  | 30°  | 15°  | 30°  | 15°  | 30°  | 15°  | 30° |
| 11               | 12   |      |      |      |      |      |      |     |      |      |      |      |      |      |      |     |
| 12               | 12   | 12   | 12   |      |      |      |      |     | 12   |      |      |      |      |      |      |     |
| 14               | 12   | 12   | 12   |      | 12   |      |      |     | 12   | 12   | 12   |      |      |      |      |     |
| 16               | 12   | 12   | 12   | 12   | 12   |      | 11.8 |     | 12   | 12   | 12   | 12   | 12   |      |      |     |
| 18               | 12   | 12   | 12   | 12   | 12   | 10.5 | 11.1 |     | 12   | 12   | 12   | 12   | 12   | 10.4 | 11.2 |     |
| 20               | 11.6 | 11.7 | 11.7 | 11.9 | 11.9 | 10   | 10.4 | 8.5 | 11.3 | 11.3 | 11.6 | 11.7 | 11.4 | 10.1 | 10.6 |     |
| 22               | 10.1 | 10.2 | 10.2 | 10.5 | 10.5 | 9.6  | 9.8  | 8.1 | 9.8  | 10   | 10.1 | 10.2 | 10.2 | 9.7  | 10   | 8.1 |
| 24               | 8.9  | 8.9  | 9.2  | 9.2  | 9.2  | 9.2  | 9.3  | 7.8 | 8.8  | 8.8  | 8.9  | 8.9  | 8.9  | 9.3  | 8.9  | 7.8 |
| 26               | 7.8  | 7.8  | 8.1  | 8.1  | 8.2  | 8.3  | 8.3  | 7.5 | 7.7  | 7.7  | 7.8  | 8.1  | 8.1  | 8.2  | 8.1  | 7.6 |
| 28               | 7    | 7    | 7.3  | 7.3  | 7.4  | 7.4  | 7.4  | 7.2 | 6.9  | 6.7  | 7    | 7    | 7.2  | 7.3  | 7.3  | 7.3 |
| 30               | 6.3  | 6.3  | 6.5  | 6.6  | 6.6  | 6.7  | 6.7  | 6.9 | 6.1  | 6.1  | 6.3  | 6.3  | 6.3  | 6.6  | 6.5  | 6.7 |
| 32               | 5.7  | 5.7  | 5.9  | 5.9  | 5.9  | 6.1  | 6.1  | 6.2 | 5.5  | 5.5  | 5.7  | 5.7  | 5.7  | 5.9  | 5.9  | 6.1 |
| 34               | 5.2  | 5    | 5.3  | 5.3  | 5.4  | 5.5  | 5.5  | 5.7 | 5    | 4.8  | 5.1  | 5.2  | 5.3  | 5.3  | 5.3  | 5.5 |
| 36               | 4.7  | 4.6  | 4.8  | 4.7  | 4.8  | 5    | 5    | 5.2 | 4.5  | 4.3  | 4.6  | 4.6  | 4.7  | 4.7  | 4.8  | 4.9 |
| 38               |      |      | 4.3  | 4.3  | 4.5  | 4.5  | 4.6  | 4.6 | 4.1  | 3.9  | 4.2  | 4.2  | 4.3  | 4.3  | 4.3  | 4.5 |
| 40               |      |      | 3.9  | 3.9  | 4.1  | 4.1  | 4.2  | 4.2 | 3.7  | 3.5  | 3.8  | 3.8  | 3.9  | 3.9  | 3.9  | 4.1 |
| 42               |      |      |      |      | 3.8  | 3.7  | 3.8  | 3.8 | 3.2  | 3.1  | 3.4  | 3.3  | 3.5  | 3.5  | 3.5  | 3.7 |
| 44               |      |      |      |      | 3.4  | 3.3  | 3.5  | 3.5 |      |      | 3.1  | 3    | 3.2  | 3.1  | 3.2  | 3.2 |
| 46               |      |      |      |      |      |      | 3.2  | 3.1 |      |      |      | 2.7  | 2.8  | 2.8  | 3    | 3   |
| 48               |      |      |      |      |      |      | 2.8  | 2.8 |      |      |      |      | 2.6  | 2.6  | 2.7  | 2.7 |
| 50               |      |      |      |      |      |      |      |     |      |      |      |      |      | 2.3  | 2.4  | 2.4 |
| 52               |      |      |      |      |      |      |      |     |      |      |      |      |      |      | 2.2  | 2.2 |
| 54               |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      | 1.9 |



Lifting capacity on fixed jib (SF-1,2/2)

Unit: t

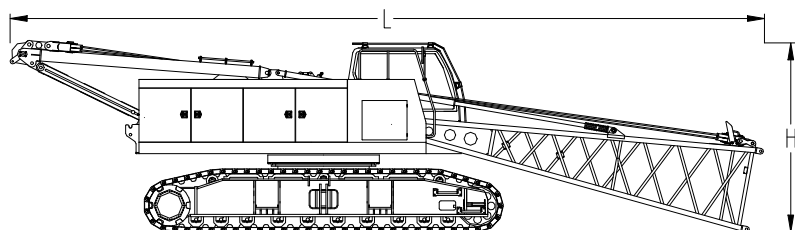
| Main boom    | 46   |      |      |      |      |     |      |     | 52   |      |      |      |     |     |     |     |
|--------------|------|------|------|------|------|-----|------|-----|------|------|------|------|-----|-----|-----|-----|
| Fixed jib    | 7    |      | 11   |      | 15   |     | 19   |     | 7    |      | 11   |      | 15  |     | 19  |     |
| Radius/angle | 15°  | 30°  | 15°  | 30°  | 15°  | 30° | 15°  | 30° | 15°  | 30°  | 15°  | 30°  | 15° | 30° | 15° | 30° |
| 14           | 12   | 12   | 12   |      |      |     |      |     | 11.5 |      |      |      |     |     |     |     |
| 16           | 12   | 12   | 12   |      | 12   |     |      |     | 11   | 11.1 | 10.7 |      |     |     |     |     |
| 18           | 12   | 12   | 12   | 12   | 12   |     | 10.7 |     | 10.4 | 10.6 | 10.2 | 10.3 | 10  |     |     |     |
| 20           | 10.9 | 11.2 | 10.9 | 11.3 | 10.9 | 9.7 | 10   |     | 9.9  | 10.1 | 9.8  | 10   | 9.6 |     | 9.2 |     |
| 22           | 9.6  | 9.8  | 9.6  | 9.8  | 9.6  | 9.4 | 9.1  | 8   | 9.2  | 9.2  | 9.2  | 9.6  | 9.2 | 8.6 | 8.4 |     |
| 24           | 8.5  | 8.5  | 8.5  | 8.9  | 8.8  | 8.9 | 8.5  | 7.8 | 8.1  | 8.1  | 8.1  | 8.3  | 8   | 8.4 | 7.8 | 7.1 |
| 26           | 7.4  | 7.4  | 7.7  | 7.8  | 7.8  | 8.1 | 7.6  | 7.5 | 7.3  | 7.3  | 7.3  | 7.4  | 7.3 | 7.7 | 7.2 | 6.9 |
| 28           | 6.6  | 6.6  | 6.7  | 6.9  | 7    | 7.2 | 7    | 7.3 | 6.3  | 6.3  | 6.5  | 6.6  | 6.6 | 6.7 | 6.4 | 6.7 |
| 30           | 5.9  | 5.9  | 6.1  | 6.1  | 6.1  | 6.3 | 6.3  | 6.6 | 5.7  | 5.7  | 5.8  | 5.9  | 5.9 | 6.1 | 5.9 | 6.2 |
| 32           | 5.3  | 5.3  | 5.4  | 5.5  | 5.5  | 5.7 | 5.7  | 5.9 | 5    | 5    | 5.3  | 5.3  | 5.3 | 5.5 | 5.3 | 5.5 |
| 34           | 4.7  | 4.6  | 4.8  | 4.8  | 5    | 5.2 | 5    | 5.3 | 4.5  | 4.5  | 4.6  | 4.7  | 4.7 | 4.8 | 4.8 | 5   |
| 36           | 4.2  | 4.2  | 4.3  | 4.3  | 4.5  | 4.6 | 4.6  | 4.7 | 4.1  | 3.9  | 4.2  | 4.2  | 4.3 | 4.3 | 4.3 | 4.6 |
| 38           | 3.8  | 3.8  | 3.9  | 3.9  | 4.1  | 4.1 | 4.2  | 4.3 | 3.5  | 3.5  | 3.8  | 3.8  | 3.8 | 3.9 | 3.9 | 4.1 |
| 40           | 3.4  | 3.2  | 3.5  | 3.5  | 3.7  | 3.7 | 3.8  | 3.9 | 3.2  | 3.1  | 3.2  | 3.2  | 3.4 | 3.5 | 3.5 | 3.7 |
| 42           | 3.1  | 3    | 3.2  | 3.1  | 3.2  | 3.2 | 3.3  | 3.4 | 2.8  | 2.7  | 3    | 2.9  | 3.1 | 3.1 | 3.1 | 3.2 |
| 44           | 2.8  | 2.6  | 2.8  | 2.8  | 3    | 3   | 3    | 3.1 | 2.5  | 2.4  | 2.7  | 2.6  | 2.7 | 2.8 | 2.8 | 2.9 |
| 46           | 2.4  | 2.3  | 2.6  | 2.4  | 2.7  | 2.7 | 2.7  | 2.8 | 2.3  | 2.1  | 2.3  | 2.3  | 2.4 | 2.4 | 2.5 | 2.6 |
| 48           |      |      | 2.3  | 2.2  | 2.4  | 2.3 | 2.4  | 2.4 | 2    | 1.8  | 2    | 2    | 2.2 | 2.2 | 2.2 | 2.3 |
| 50           |      |      | 2    | 1.9  | 2.2  | 2.1 | 2.2  | 2.2 | 1.8  | 1.6  | 1.8  | 1.8  | 1.9 | 1.9 | 2   | 2   |
| 52           |      |      |      |      | 1.9  | 1.8 | 1.9  | 1.9 | 1.5  | 1.3  | 1.6  | 1.5  | 1.7 | 1.7 | 1.8 | 1.8 |
| 54           |      |      |      |      | 1.7  | 1.6 | 1.8  | 1.8 |      |      | 1.3  | 1.2  | 1.5 | 1.4 | 1.5 | 1.5 |
| 56           |      |      |      |      |      |     | 1.5  | 1.5 |      |      | 1.2  | 1.1  | 1.2 | 1.2 | 1.3 | 1.3 |
| 58           |      |      |      |      |      |     | 1.3  | 1.2 |      |      |      |      | 1.1 | 1   | 1.1 | 1.1 |

注：

- ①起重性能表中的数据包含了吊具及钢丝绳的重量，实际吊重物的净重应小于该值；
- ②起重性能表中的数据基于地面坚实平整等作业条件，并且视载荷自由悬挂。

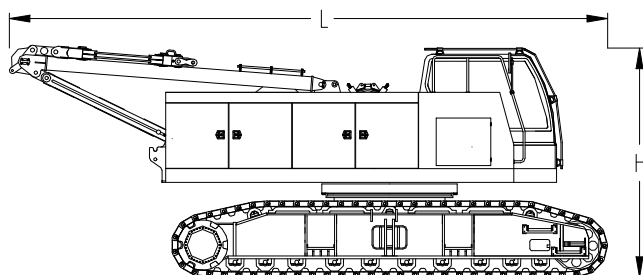
#### 4.1.Transport dimensions and weight of main components

Basic machine (with main boom pivot section)



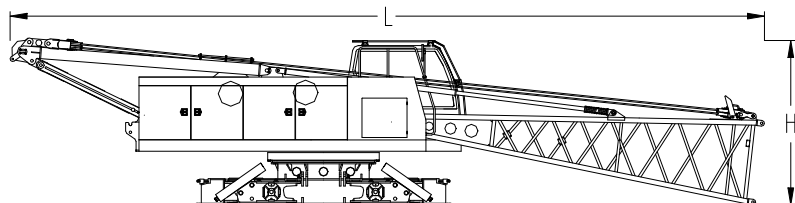
|           |       |
|-----------|-------|
| Qty       | 1     |
| Length mm | 13330 |
| Width mm  | 3380  |
| Height mm | 3340  |
| Weight kg | 41300 |

Basic machine (without main boom pivot section)



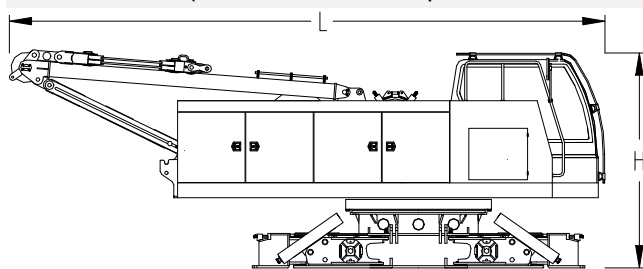
|           |       |
|-----------|-------|
| Qty       | 1     |
| Length mm | 8590  |
| Width mm  | 3380  |
| Height mm | 3340  |
| Weight kg | 40230 |

Basic machine (with main boom pivot section,without crawlers)



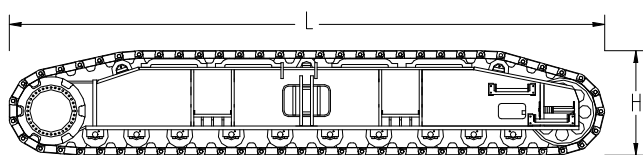
|           |       |
|-----------|-------|
| Qty       | 1     |
| Length mm | 8710  |
| Width mm  | 3000  |
| Height mm | 2900  |
| Weight kg | 24200 |

Basic machine (without main boom pivot section and crawlers)

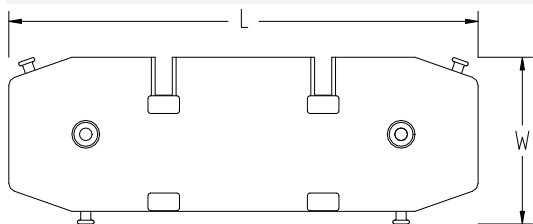


|           |       |
|-----------|-------|
| Qty       | 1     |
| Length mm | 8060  |
| Width mm  | 3000  |
| Height mm | 2900  |
| Weight kg | 23130 |

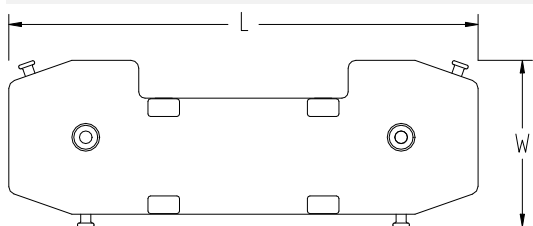
Crawler carrier assembly



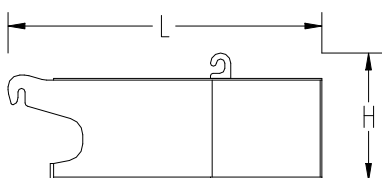
|           |      |
|-----------|------|
| Qty       | 2    |
| Length mm | 6340 |
| Width mm  | 1090 |
| Height mm | 1130 |
| Weight kg | 8560 |

**Counterweight base plate**

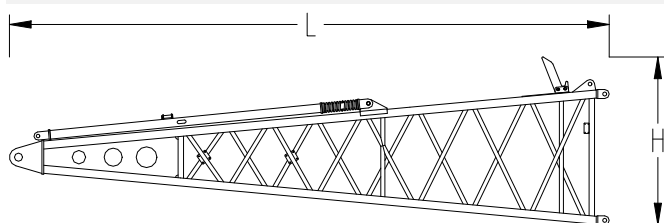
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 3720 |
| Width mm  | 1320 |
| Height mm | 550  |
| Weight kg | 5000 |

**Counterweight plate**

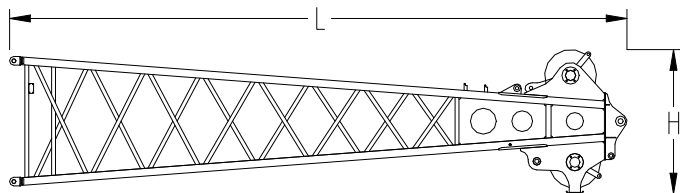
|           |      |
|-----------|------|
| Qty       | 4    |
| Length mm | 3720 |
| Width mm  | 1320 |
| Height mm | 450  |
| Weight kg | 6750 |

**Carbody counterweight**

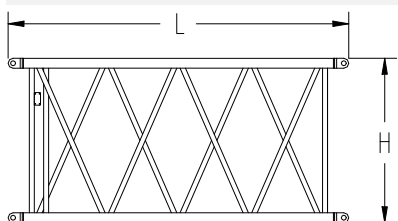
|           |      |
|-----------|------|
| Qty       | 2    |
| Length mm | 1860 |
| Width mm  | 1330 |
| Height mm | 755  |
| Weight kg | 4500 |

**Main boom pivot section**

|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 6650 |
| Width mm  | 1690 |
| Height mm | 1860 |
| Weight kg | 1070 |

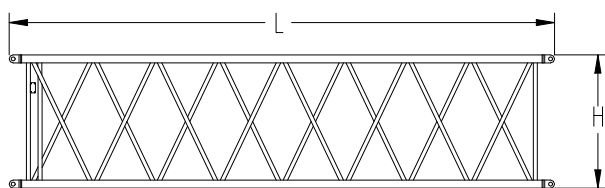
**Main boom head**

|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 7130 |
| Width mm  | 1690 |
| Height mm | 1675 |
| Weight kg | 1250 |

**3m main boom intermediate section**

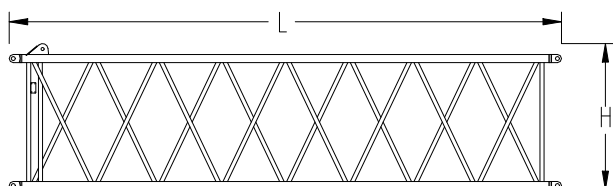
|           |      |
|-----------|------|
| Qty       | 2    |
| Length mm | 3090 |
| Width mm  | 1690 |
| Height mm | 1500 |
| Weight kg | 265  |

## 6m main boom intermediate section



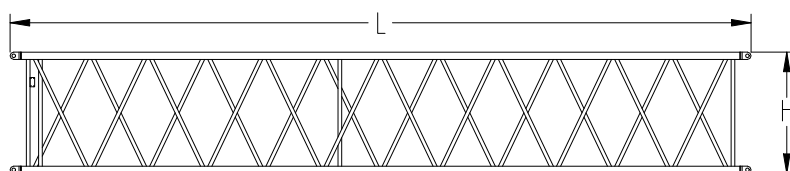
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 6090 |
| Width mm  | 1690 |
| Height mm | 1500 |
| Weight kg | 455  |

## 9m main boom intermediate section A



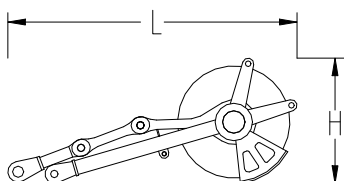
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 6090 |
| Width mm  | 1690 |
| Height mm | 1610 |
| Weight kg | 545  |

## 9m main boom intermediate section



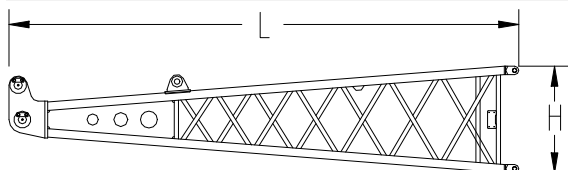
|           |      |
|-----------|------|
| Qty       | 4    |
| Length mm | 9090 |
| Width mm  | 1690 |
| Height mm | 1500 |
| Weight kg | 645  |

## Tip boom



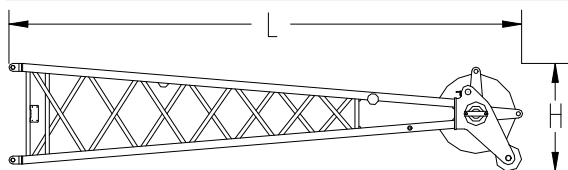
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 1550 |
| Width mm  | 590  |
| Height mm | 670  |
| Weight kg | 120  |

## Fixed jib pivot section



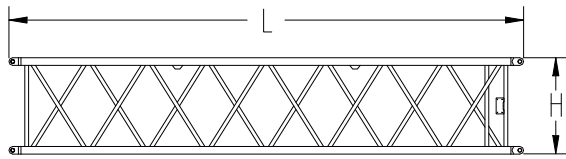
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 3630 |
| Width mm  | 960  |
| Height mm | 760  |
| Weight kg | 190  |

## Fixed jib head



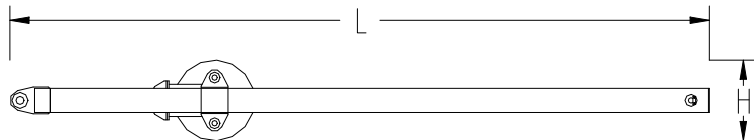
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 3875 |
| Width mm  | 960  |
| Height mm | 760  |
| Weight kg | 280  |

## 4m fixed jib intermediate section



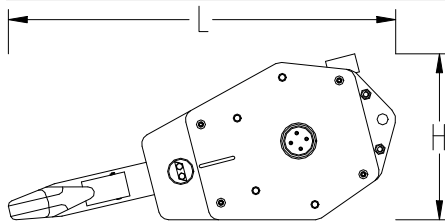
|           |      |
|-----------|------|
| Qty       | 3    |
| Length mm | 4060 |
| Width mm  | 960  |
| Height mm | 760  |
| Weight kg | 165  |

## FA-frame



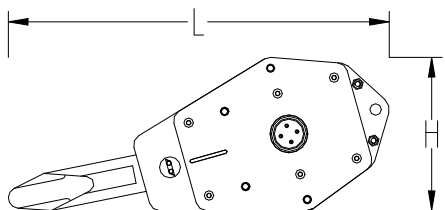
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 5210 |
| Width mm  | 640  |
| Height mm | 600  |
| Weight kg | 445  |

## 100t load hook



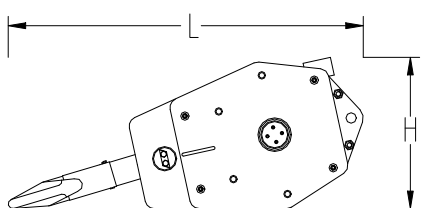
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 1925 |
| Width mm  | 845  |
| Height mm | 820  |
| Weight kg | 1630 |

## 80t load hook



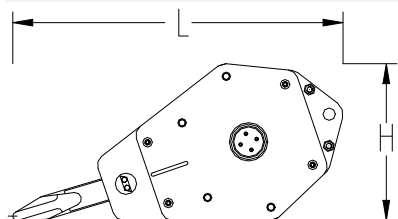
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 1820 |
| Width mm  | 725  |
| Height mm | 730  |
| Weight kg | 1250 |

## 50t load hook



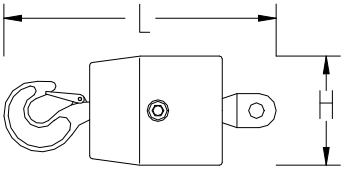
|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 1910 |
| Width mm  | 675  |
| Height mm | 810  |
| Weight kg | 1360 |

## 30t load hook



|           |      |
|-----------|------|
| Qty       | 1    |
| Length mm | 1550 |
| Width mm  | 550  |
| Height mm | 740  |
| Weight kg | 763  |

12t load hook



|           |     |
|-----------|-----|
| Qty       | 1   |
| Length mm | 965 |
| Width mm  | 385 |
| Height mm | 385 |
| Weight kg | 470 |

Note:

1. The components above are only schematic, and they are not drawn according to a fixed scale. The length dimension is overall dimension.
2. The weight listed in above table does not include the weight of package. The actual weight of component may be different from the weight listed in above table due to manufacturing error.
3. The components above may be improved, which will result in changes in dimensions and weight. Therefore, the actual weight and dimension should be subject to factory products.