



**Zoomlion Heavy Industry Science & Technology Co.,Ltd.**  
Add: No.677, Lugu Road, Zoomlion Industrial Park, Changsha, Hunan, China, 410205  
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# 1600t crawler crane ZCC18000

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## TECHNICAL HIGHLIGHT

### Excellent lifting performance

- The max. lifting moment is 18000t.m, the max. lifting capacity is 1600t.
- 120m SLDB, its rated lifting load is 351t @ 30m, dedicated for the installation of 4-8MW wind turbine at 100m height, offshore wind power.

### Efficient and convenient operation

- Innovative and first-adopted suspended superlift counterweights technology, greatly improves working efficiency and simplifies the lifting procedure.
- Platform development, modular design, main machine can be self-assembled and disassembled, convenient transportation, easy maintenance.

### Comfortable and intelligent operation

- Remote intelligent management, intelligent fault diagnosis, helps customer manage your crane with ease and high efficiency.
- 2.1m wide panorama operator’s cab, integrated control panel within touch, human-friendly layout design offers comfortable operation.

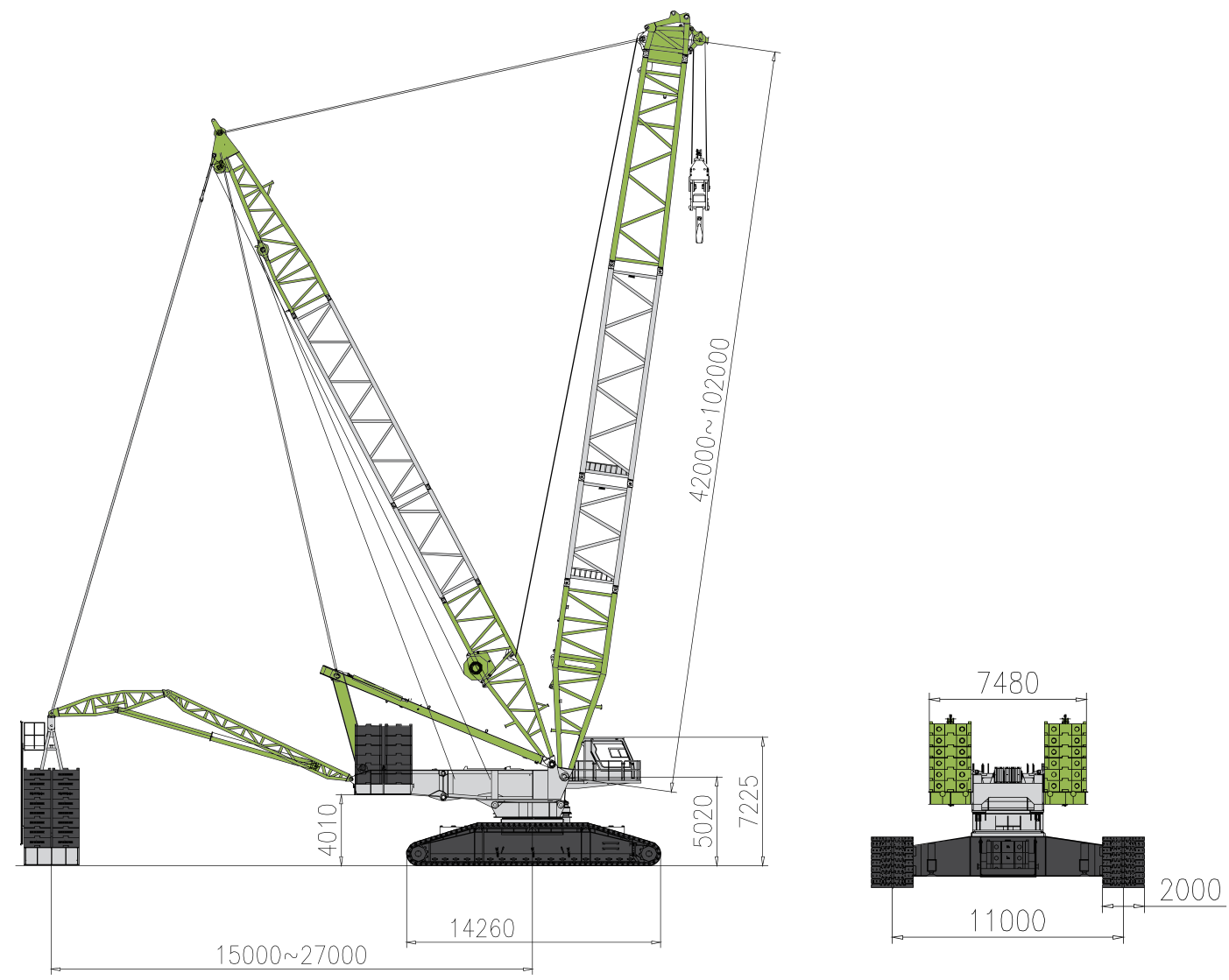
## 2.1 MAIN TECHNICAL PARAMETERS

| Item                            |                                                            | Parameters |            |
|---------------------------------|------------------------------------------------------------|------------|------------|
| Max. lifting moment             | Max. lifting capacity × radius                             | t · m      | 18000      |
| SDB                             | Max. lifting capacity × radius                             | t × m      | 1600 × 10  |
|                                 | Length of heavy boom                                       | m          | 42~102     |
|                                 | Length of light boom                                       | m          | 90~150     |
|                                 |                                                            |            |            |
| SLDB-2                          | Max. lifting capacity × radius                             | t × m      | 604 × 18   |
|                                 | Boom length                                                | m          | 102~144    |
| SLHSDB-1                        | Max. lifting capacity × radius                             | t × m      | 220 × 26   |
|                                 | Boom length combination                                    | m          | 108~159+7  |
| SPHSDB-1(220t)                  | Max. lifting capacity × radius                             | t × m      | 220 × 26   |
|                                 | Boom length combination                                    | m          | 138~174+7  |
| SPHSDB-2(270t)                  | Max. lifting capacity × radius                             | t × m      | 270 × 28   |
|                                 | Boom length combination                                    | m          | 138~159+7  |
| SFvDB<br>(container lifting)    | Max. lifting capacity × radius                             | t × m      | 650/26     |
|                                 | Jib angle                                                  | °          | 12, 20     |
|                                 | Jib length                                                 | m          | 18         |
|                                 | Length of main boom with jib on                            | m          | 60~102     |
| SWDB                            | Max. lifting capacity × radius                             | t × m      | 550 × 20   |
|                                 | Luffing jib length                                         | m          | 30~102     |
|                                 | Length of main boom with jib on                            | m          | 48~90      |
|                                 | Main boom angle                                            | °          | 85, 75, 65 |
| Derrick boom                    | Derrick boom length                                        | m          | 40, 46     |
| Primary hoisting winch I and II | Speed of a single rope of the outermost layer on the winch | m/min      | 133        |
|                                 | Wire rope diameter                                         | mm         | 32         |
|                                 | Single rope tension                                        | KN         | 235        |
| Main boom derricking mechanism  | Speed of a single rope of the outermost layer on the winch | m/min      | 55 × 2     |
|                                 | Wire rope diameter                                         | mm         | 32         |
|                                 | Single rope tension                                        | KN         | 235        |

| Item                                                 |                                                            | Parameters |                                 |
|------------------------------------------------------|------------------------------------------------------------|------------|---------------------------------|
| Superlift derricking mechanism                       | Speed of a single rope of the outermost layer on the winch | m/min      | 127                             |
|                                                      | Diameter of the winch                                      | mm         | 32                              |
|                                                      | Single rope tension                                        | KN         | 235                             |
| Luffing jib derricking mechanism                     | Speed of a single rope of the outermost layer on the winch | m/min      | 120                             |
|                                                      | Diameter of the winch                                      | mm         | 32                              |
|                                                      | Single rope tension                                        | KN         | 226                             |
| Slewing speed                                        |                                                            | rpm        | 0.7                             |
| Traveling speed                                      |                                                            | km/h       | 0.7                             |
| Max. gradeability                                    |                                                            | %          | 15                              |
| Suspended ballast t (radius m)                       |                                                            |            | 500 (18~24/27m)<br>250 (15~27m) |
| Rear counterweight                                   |                                                            | t          | 250, 170                        |
| Central ballast                                      |                                                            | t          | 70                              |
| Engine                                               | Model (emission)                                           |            | QSK23-C860                      |
|                                                      | Rated power/ rotational speed                              | kw/rpm     | 641/2100                        |
|                                                      | Max. torque                                                | Nm         | 3776/1400                       |
| Track gauge × crawler contact length × crawler width |                                                            | mm         | 11000 × 14260 × 2000            |

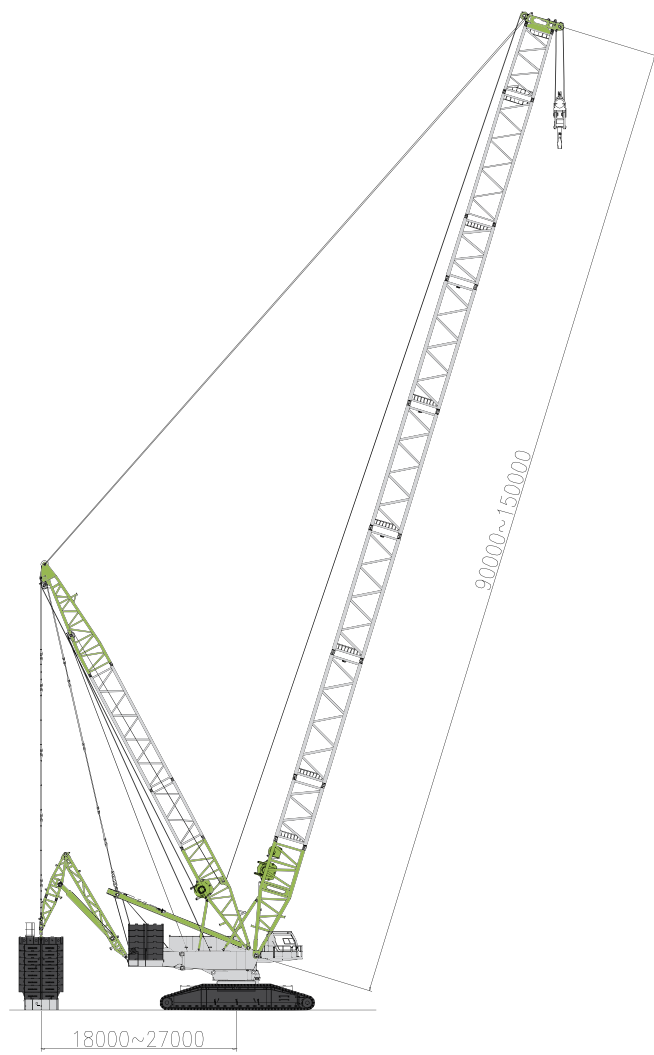
2.2 OVERALL DIMENSIONS

Overall dimensions of SDB mode

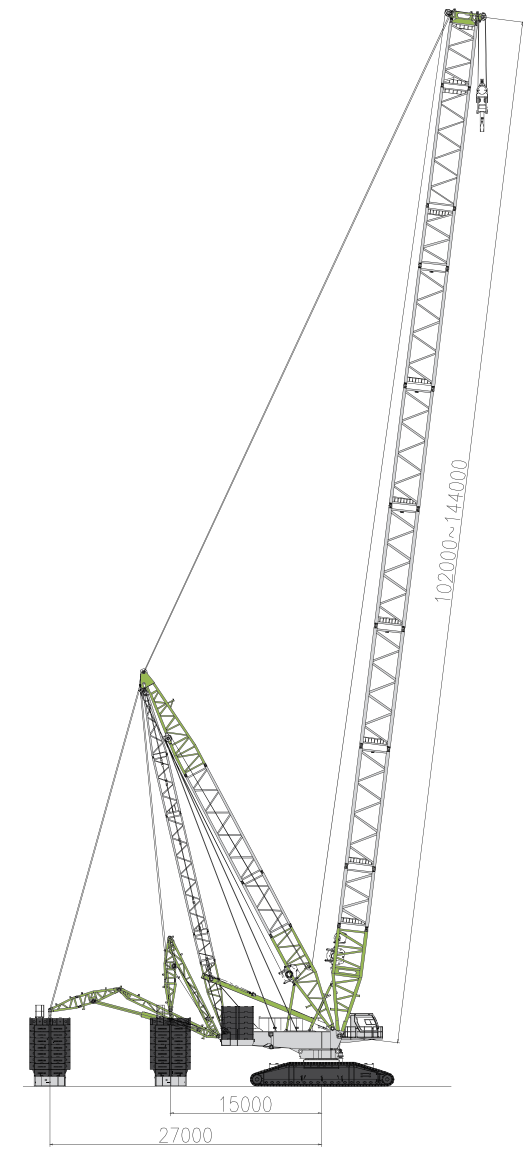


2.2 OVERALL DIMENSIONS

Overall dimensions of SLDB-1 mode



Overall dimensions of SLDB-2 mode





2.3 BOOM / JIB COMBINATION

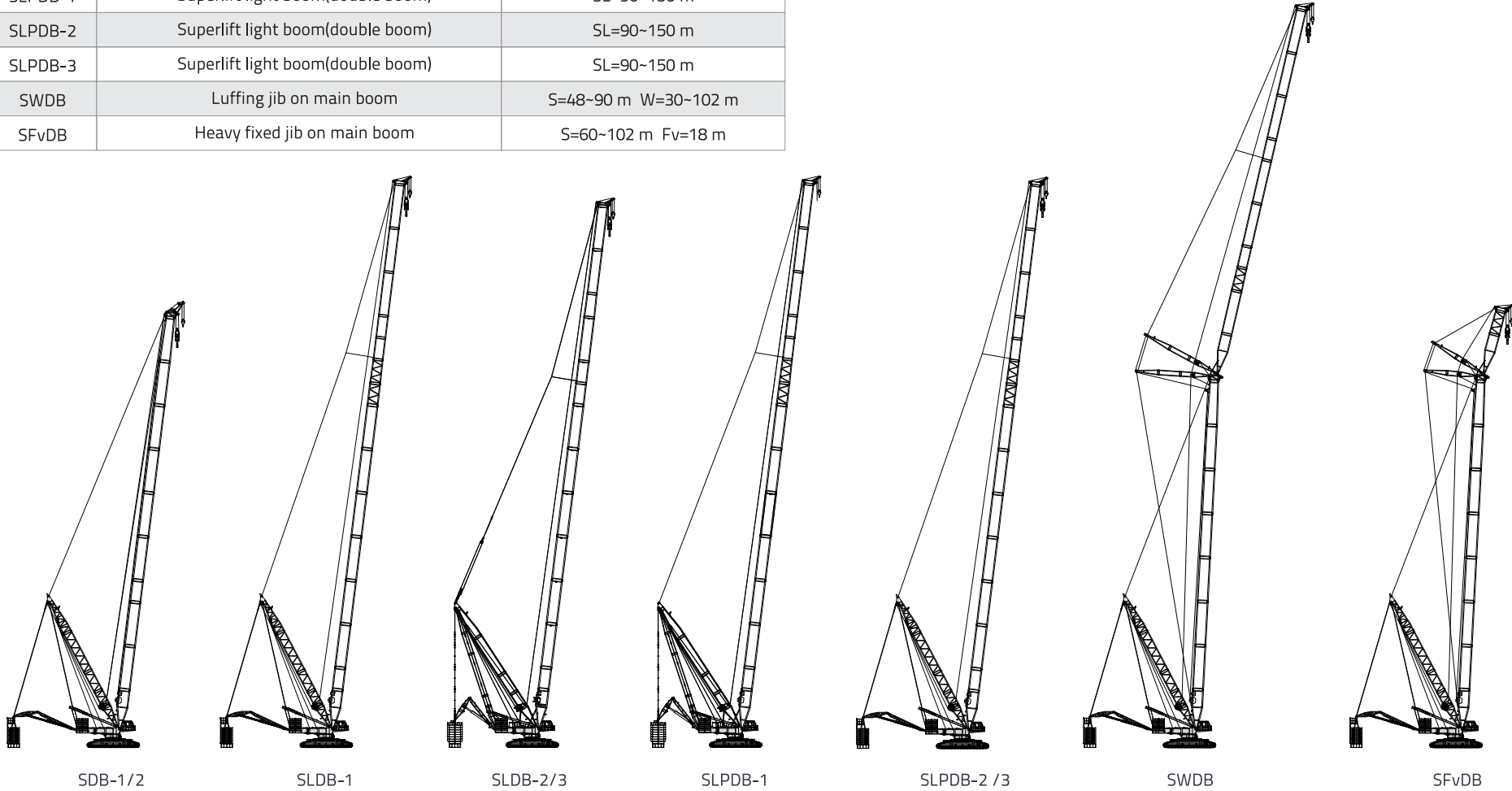
| Code | Operating mode                        | Boom combination        |
|------|---------------------------------------|-------------------------|
| S    | Heavy main boom                       | S=30 ~ 78 m             |
| SL   | Light main boom                       | SL=60 ~ 102 m           |
| SHS  | Jib on heavy main boom for wind plant | S=72 ~ 102 m HS=7m      |
| SW   | Luffing jib on heavy main boom        | S=42 ~ 54 m W=30 ~ 78 m |

S—heavy main boom; L—light boom; W—luffing jib; D—derrick boom;  
B—suspended ballast; Fv—heavy fixed jib; HS—wind plant jib



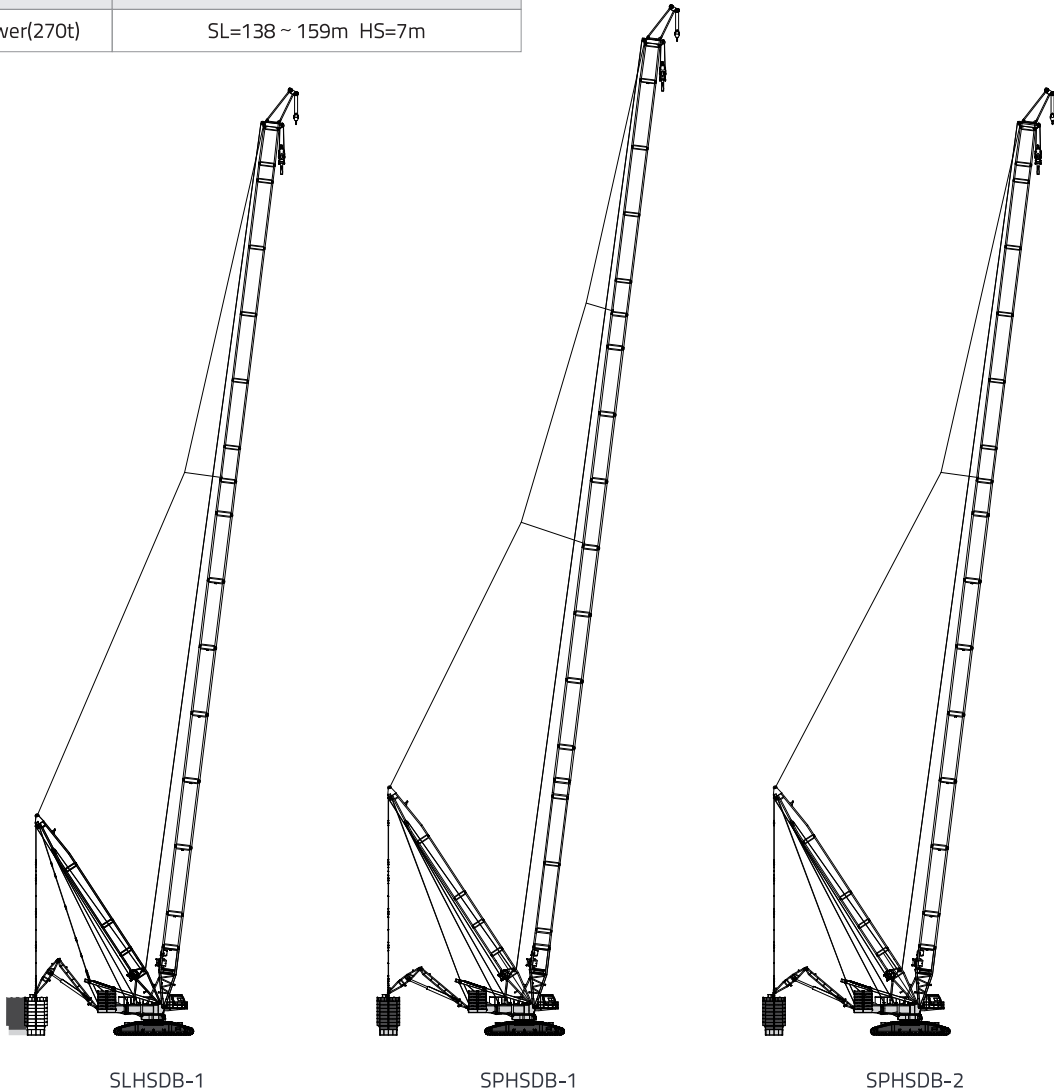
2.3 BOOM / JIB COMBINATION

| Code    | Operating mode                                  | Boom combination     |
|---------|-------------------------------------------------|----------------------|
| SDB-1/2 | Super lift heavy main boom                      | S=42~102 m           |
| SLDB-1  | Super lift light main boom                      | SL=90~150 m          |
| SLDB-2  | Super lift light main boom(offshore wind power) | SL=102~144 m         |
| SLDB-3  | Super lift light main boom                      | SL=90~150 m          |
| SLPDB-1 | Superlift light boom(double boom)               | SL=90~150 m          |
| SLPDB-2 | Superlift light boom(double boom)               | SL=90~150 m          |
| SLPDB-3 | Superlift light boom(double boom)               | SL=90~150 m          |
| SWDB    | Luffing jib on main boom                        | S=48-90 m W=30~102 m |
| SFvDB   | Heavy fixed jib on main boom                    | S=60~102 m Fv=18 m   |



2.3 BOOM / JIB COMBINATION

| Code     | Operating mode                             | Boom combination    |
|----------|--------------------------------------------|---------------------|
| SLHSDB-1 | Super lift for wind power                  | SL=108 ~ 159m HS=7m |
| SPHSDB-1 | Super lift double jib for wind power(220t) | SL=138 ~ 174m HS=7m |
| SPHSDB-2 | Super lift double jib for wind power(270t) | SL=138 ~ 159m HS=7m |



2.4 TECHNICAL DESCRIPTION

Engine

The engine is a Cummins electronic fuel injection diesel engine with CAN bus interface, imported with original packaging.  
Rated output power: 641kw, 2100r/min  
Max. output torque: 3776Nm, 1400r/min  
Emission standard: U.S. EPA Tier 3 and EU Stage III  
The 1600L fuel oil tank ensure long enough working hours of the engine.

Hydraulic system

The hydraulic system is composed of such parts as main pump, hydraulic motor, auxiliary valve, hydraulic oil tank, cooler, etc.  
The major hydraulic system is a closed pump-controlled system, which is efficient, energy-saving, reliable and maneuverable. Stable starting, braking and reversing with no impact; quick response, low calorific value, and long service life. Electric proportional control elements help to realize accurate and intelligent control. Various kinds of alarms for pressure and filter element clogging largely improve the security and reliability of the hydraulic system.

Hoisting mechanism

The hoisting mechanism, consisting of a variable displacement axial piston hydraulic motor, a reducer, a normally-closed brake and wire rope, can be controlled independently.  
The wire rope is a special type of anti-twist wire rope.  
The speed of a single rope of the outermost layer on hoisting winch I and II is 133m/min.  
A synchronous controller is used when hoisting winch I and II are working together.  
The speed of a single rope of the outermost layer on the tip boom hoisting winch III is 133m/min.

Derricking mechanism

Derricking mechanisms consist of a variable displacement axial piston hydraulic motor, a reducer, a normally-closed brake and wire rope.  
A new type of wire rope specialized for derricking.  
The speed of a single rope of the outermost layer on the main boom derricking winch is 55x2m/min.  
The speed of a single rope of the outermost layer on the luffing jib derricking winch is 120m/min.  
The speed of a single rope of the outermost layer on super lift derricking winch is 127m/min.

Slewing mechanism

The triple-driven slewing mechanism consists of a constant displacement hydraulic motor, a gear reducer, a brake, a small gear and a slewing bearing.  
The slewing mechanism is equipped with controllable sliding control to reduce the impact and make it more stable when starting the brake.  
A three-row roller-type external gearing slewing bearing and a slewing reducer are used to guarantee its strong load bearing capacity, high precision and stable and precise slewing movement.  
Slewing speed: 0 to 0.7r/min.

Crawler

It adopts the four drive and controls the two crawlers respectively by the control handle or foot pedal, so as to achieve the actions of straight-line walking, unilateral steering, differential steering, in-situ steering, loaded driving, etc., which has high mobility and flexibility.  
Traveling speed: 0~0.7 km/h.  
Max. gradeability: 15%  
Crawler tension: Tensioning cylinder is controlled by an independent pump, which is convenient and reliable.

A-frame erecting mechanism

The A-frame erecting mechanism is composed of three parts, A-frame, A-frame erecting cylinder, and auxiliary hydraulic system. This mechanism is used for self-assembly and dismantling (or during transferring). Erect A-frame from the horizontal position to over 90° for the convenience of connecting anchoring rods and assembling boom sections and tracks.

Outrigger erecting and track self-assembling and dismantling mechanism

The mechanism consists of such parts as undercarriage outrigger, outrigger cylinder, outrigger valve, track bolting pin, etc. The cylinder erecting mechanism is the main bearing part for track self-assembling and dismantling. The crawler self-assembling and dismantling mechanism lifts track assy. through A-frame and A-frame erecting mechanism and connects the chassis with the track assy. through bolting pins. The track assy. can be assembled or disassembled automatically through this mechanism without the help of other auxiliary lifting equipment so as to improve working efficiency, reduce labor intensity and avoid risk of manual operation.

Operator's cab

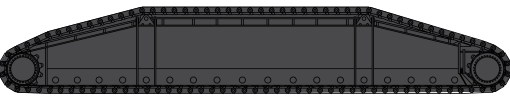
It is an all-steel structured cab with tempered glass around with laminated glasses on the top and front windows. The cab is equipped with sun visors, an adjustable seat, a wiper, electronic joysticks, a load moment limiter, a digital display, a warm/cold air conditioner, a head lamp, a fire extinguisher, etc. The operator's cab has a broad vision and a capacious and comfortable inner space.

Hook

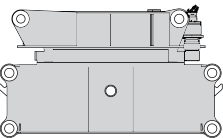
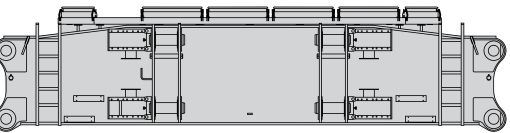
All rotatable load hooks are equipped with a mousing. Optional load hooks are as follows:  
Load hook of 1250t: It can be used as load hooks of 750t, 650t, 400t or 350t through different reeving plans. (2x17 pulleys)  
Load hook of 500t: 2x8 pulleys  
Load hook of 300t: 2x4 pulleys  
Load hook of 200t: 5 pulleys  
Load hook of 80t: 3 pulleys



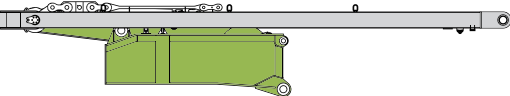
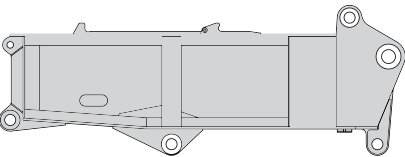
3. TRANSPORT DIMENSIONS AND WEIGHTS



Track carrier and track pads are transported separately,(Track carrier 44t; track pads 40t)



Including slewing table, slewing ring, slewing reducer and chassis frame.



Including rear end of slewing table, A-frame, main boom derricking winch, main boom derricking rope, etc.

|                    |          |
|--------------------|----------|
| Track carrier assy | × 2      |
| Length (L)         | 14260 mm |
| Width (W)          | 2000 mm  |
| Height (H)         | 2400 mm  |
| Weight             | 84t      |

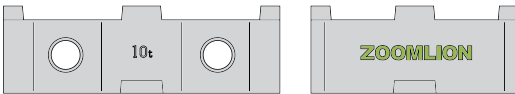
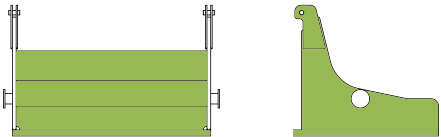
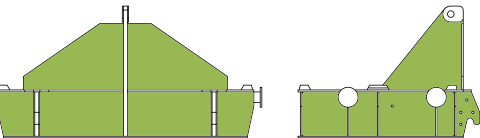
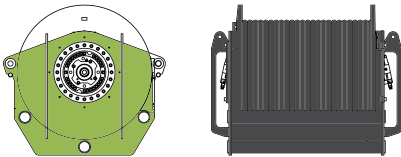
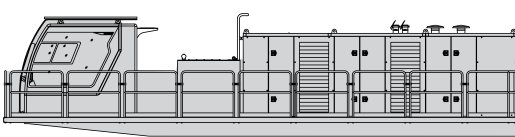
|                            |          |
|----------------------------|----------|
| Cross-shaped frame support | × 2      |
| Length(L)                  | 10010 mm |
| Width (W)                  | 1845 mm  |
| Height (H)                 | 2300 mm  |
| Weight                     | 26 t     |

|                                  |         |
|----------------------------------|---------|
| Slewing center and chassis frame | × 1     |
| Length(L)                        | 5215 mm |
| Width (W)                        | 3600 mm |
| Height (H)                       | 3117 mm |
| Weight                           | 53 t    |

|                            |         |
|----------------------------|---------|
| Front end of slewing table | × 1     |
| Length(L)                  | 7300 mm |
| Width (W)                  | 3450 mm |
| Height (H)                 | 2715 mm |
| Weight                     | 35.8 t  |

|                           |          |
|---------------------------|----------|
| Rear end of slewing table | × 1      |
| Length(L)                 | 14220 mm |
| Width (W)                 | 3300 mm  |
| Height (H)                | 2655 mm  |
| Weight                    | 31 t     |

3. TRANSPORT DIMENSIONS AND WEIGHTS



|                |          |
|----------------|----------|
| Power platform | × 1      |
| Length (L)     | 12300 mm |
| Width (W)      | 3420 mm  |
| Height (H)     | 2970 mm  |
| Weight         | 18.1 t   |

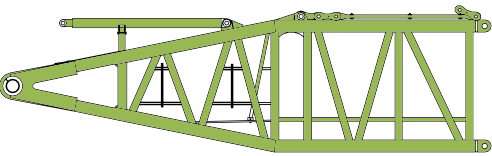
|                        |         |
|------------------------|---------|
| Primary hoisting winch | × 2     |
| Length(L)              | 2175 mm |
| Width (W)              | 1850 mm |
| Height (H)             | 1720 mm |
| Weight                 | 13.1 t  |

|                     |         |
|---------------------|---------|
| Counterweight frame | × 2     |
| Length(L)           | 3400 mm |
| Width (W)           | 2265 mm |
| Height (H)          | 1650 mm |
| Weight              | 5.2 t   |

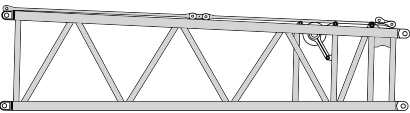
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| Central ballast support | × 2     |
| Length(L)               | 1950 mm |
| Width (W)               | 2900 mm |
| Height (H)              | 1760 mm |
| Weight                  | 5.2 t   |

|                     |         |
|---------------------|---------|
| Counterweight plate | × 78    |
| Length(L)           | 2000 mm |
| Width (W)           | 1500 mm |
| Height (H)          | 630 mm  |
| Weight              | 10 t    |

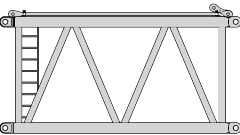
3. TRANSPORT DIMENSIONS AND WEIGHTS



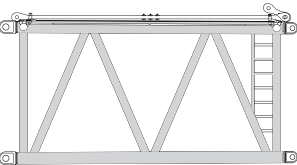
|                                         |          |
|-----------------------------------------|----------|
| Main boom pivot section (without winch) | × 1      |
| Length (L)                              | 11300 mm |
| Width (W)                               | 3500 mm  |
| Height (H)                              | 3355 mm  |
| Weight                                  | 24.5 t   |



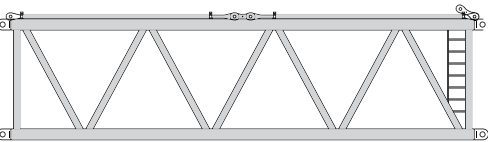
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|------------------------|----------|
| Main boom head section | × 1      |
| Length(L)              | 12295 mm |
| Width (W)              | 3500 mm  |
| Height (H)             | 3185 mm  |
| Weight                 | 14.6 t   |



|                                     |         |
|-------------------------------------|---------|
| Main boom intermediate section (6m) | × 1     |
| Length(L)                           | 6460 mm |
| Width (W)                           | 3500 mm |
| Height (H)                          | 3350 mm |
| Weight                              | 7.7 t   |

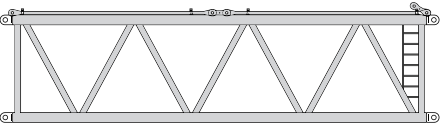


|                                  |         |
|----------------------------------|---------|
| Main boom light reducing section | × 1     |
| Length(L)                        | 6275 mm |
| Width (W)                        | 3500 mm |
| Height (H)                       | 3250 mm |
| Weight                           | 6.1 t   |

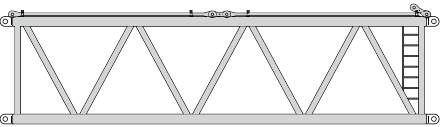


|                                            |          |
|--------------------------------------------|----------|
| Main boom heavy intermediate section (12m) | × 2      |
| Length(L)                                  | 12460 mm |
| Width (W)                                  | 3500 mm  |
| Height (H)                                 | 3380 mm  |
| Weight                                     | 14.7 t   |

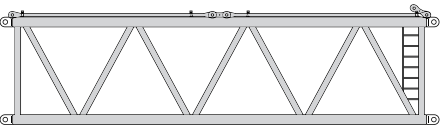
3. TRANSPORT DIMENSIONS AND WEIGHTS



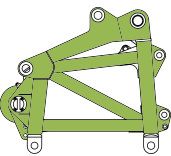
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|----------------------------------------------------------------------|----------|
| Main boom heavy intermediate section with waist line connector (12m) | × 1      |
| Length (L)                                                           | 12460 mm |
| Width (W)                                                            | 3500 mm  |
| Height (H)                                                           | 3380 mm  |
| Weight                                                               | 14.9 t   |



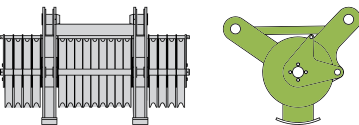
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| Main boom intermediate section (12m) | × 2      |
| Length (L)                           | 12460 mm |
| Width (W)                            | 3500 mm  |
| Height (H)                           | 3380 mm  |
| Weight                               | 13.35 t  |



|                                                                |          |
|----------------------------------------------------------------|----------|
| Main boom intermediate section with waist line connector (12m) | × 1      |
| Length (L)                                                     | 12460 mm |
| Width (W)                                                      | 3500 mm  |
| Height (H)                                                     | 3380 mm  |
| Weight                                                         | 13.79 t  |



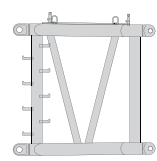
|                |         |
|----------------|---------|
| Main boom head | × 1     |
| Length(L)      | 3220 mm |
| Width (W)      | 3295 mm |
| Height (H)     | 2750 mm |
| Weight         | 9.7 t   |



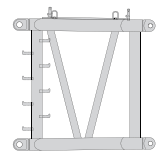
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| Main boom pulley block | × 2     |
| Length(L)              | 1875 mm |
| Width (W)              | 1360 mm |
| Height (H)             | 1165 mm |
| Weight                 | 1.8 t   |



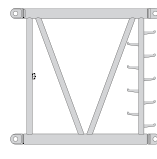
3. TRANSPORT DIMENSIONS AND WEIGHTS



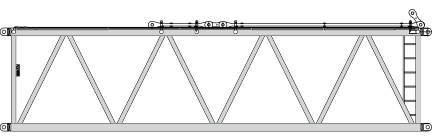
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|-------------------------------|---------|
| Double boom transit section A | × 1     |
| Length(L)                     | 3260 mm |
| Width (W)                     | 7980 mm |
| Height (H)                    | 3290 mm |
| Weight                        | 10.25t  |



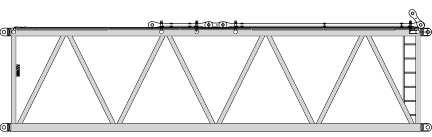
|                               |         |
|-------------------------------|---------|
| Double boom transit section B | × 1     |
| Length(L)                     | 3260 mm |
| Width (W)                     | 7980 mm |
| Height (H)                    | 3290 mm |
| Weight                        | 10.24t  |



|                            |         |
|----------------------------|---------|
| Double boom connector (3m) | × 1     |
| Length(L)                  | 3220 mm |
| Width (W)                  | 7950 mm |
| Height (H)                 | 3150 mm |
| Weight                     | 6.42t   |

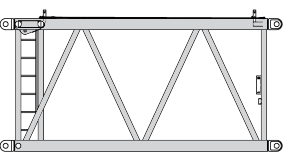


|                                              |          |
|----------------------------------------------|----------|
| Luffing jib intermediate section (wide, 12m) | × 1      |
| Length(L)                                    | 12430 mm |
| Width (W)                                    | 3220 mm  |
| Height (H)                                   | 3450 mm  |
| Weight                                       | 8.4 t    |

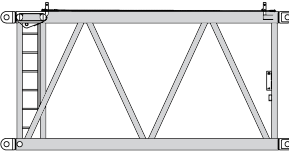


|                                           |          |
|-------------------------------------------|----------|
| Luffing jib wide heavy boom section (12m) | × 1      |
| Length(L)                                 | 12430 mm |
| Width (W)                                 | 3220 mm  |
| Height (H)                                | 3450 mm  |
| Weight                                    | 9.3 t    |

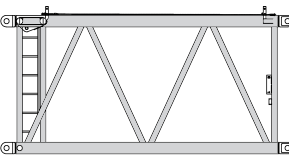
3. TRANSPORT DIMENSIONS AND WEIGHTS



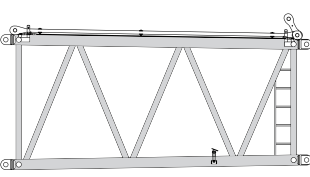
|                                |         |
|--------------------------------|---------|
| Luffing jib section (wide, 6m) | × 1     |
| Length(L)                      | 6250 mm |
| Width (W)                      | 3245 mm |
| Height (H)                     | 3140 mm |
| Weight                         | 4.91 t  |



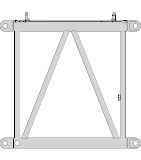
|                                                                    |         |
|--------------------------------------------------------------------|---------|
| Luffing jib wide heavy boom section with waist line connector (6m) | × 1     |
| Length (L)                                                         | 6250 mm |
| Width (W)                                                          | 3245 mm |
| Height (H)                                                         | 3140 mm |
| Weight                                                             | 5.42 t  |



|                                |         |
|--------------------------------|---------|
| Luffing jib section (wide, 6m) | × 1     |
| Length (L)                     | 6250 mm |
| Width (W)                      | 2950 mm |
| Height (H)                     | 2940 mm |
| Weight                         | 4.79 t  |

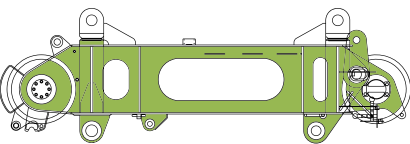


|                              |         |
|------------------------------|---------|
| Luffing jib reducing section | × 1     |
| Length(L)                    | 6930 mm |
| Width (W)                    | 3220 mm |
| Height (H)                   | 3370 mm |
| Weight                       | 4.85 t  |

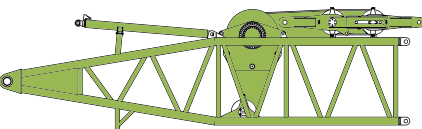


|                               |         |
|-------------------------------|---------|
| Luffing jib boom section (3m) | × 1     |
| Length(L)                     | 3250mm  |
| Width (W)                     | 3250 mm |
| Height (H)                    | 3130 mm |
| Weight                        | 2.82 t  |

3. TRANSPORT DIMENSIONS AND WEIGHTS

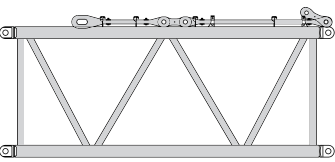


|             |         |
|-------------|---------|
| Head of jib | × 1     |
| Length(L)   | 4170 mm |
| Width (W)   | 3000 mm |
| Height (H)  | 1370 mm |
| Weight      | 6.7 t   |

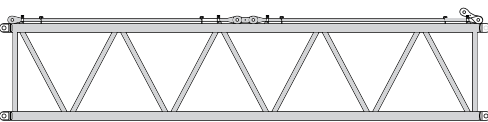


With derrick boom tilting-back support cylinder, derrick boom derricking rope and derrick boom pulley block.

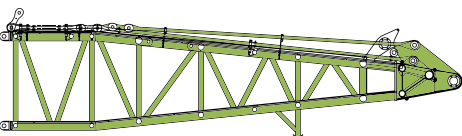
|                            |          |
|----------------------------|----------|
| Derrick boom pivot section | × 1      |
| Length(L)                  | 11850 mm |
| Width (W)                  | 3230 mm  |
| Height (H)                 | 3410 mm  |
| Weight                     | 27.3 t   |



|                                        |         |
|----------------------------------------|---------|
| Derrick boom intermediate section (6m) | × 1     |
| Length (L)                             | 6425 mm |
| Width (W)                              | 2920 mm |
| Height (H)                             | 2780 mm |
| Weight                                 | 4.3 t   |

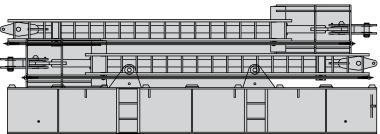


|                                         |          |
|-----------------------------------------|----------|
| Derrick boom intermediate section (12m) | × 1      |
| Length(L)                               | 12280 mm |
| Width (W)                               | 2920 mm  |
| Height (H)                              | 2810 mm  |
| Weight                                  | 10.2 t   |



|                            |          |
|----------------------------|----------|
| Derrick boom pivot section | × 1      |
| Length(L)                  | 11320 mm |
| Width (W)                  | 2920 mm  |
| Height (H)                 | 3145 mm  |
| Weight                     | 16 t     |

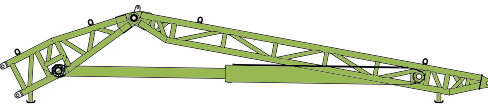
3. TRANSPORT DIMENSIONS AND WEIGHTS



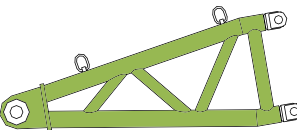
|                         |         |
|-------------------------|---------|
| Suspended ballast frame | × 1     |
| Length(L)               | 7500 mm |
| Width (W)               | 3300 mm |
| Height (H)              | 2300 mm |
| Weight                  | 21.8 t  |



|                                      |         |
|--------------------------------------|---------|
| Detachable base of suspended ballast | × 1     |
| Length(L)                            | 3450 mm |
| Width (W)                            | 2830 mm |
| Height (H)                           | 1000 mm |
| Weight                               | 4.1 t   |



|                                            |          |
|--------------------------------------------|----------|
| Pushing mechanism (rear and central parts) | × 1      |
| Length (L)                                 | 15050 mm |
| Width (W)                                  | 3060 mm  |
| Height (H)                                 | 3100 mm  |
| Weight                                     | 12.9t    |

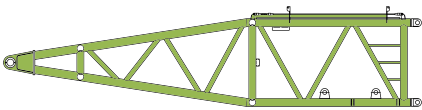


|                                |         |
|--------------------------------|---------|
| Pushing mechanism (front part) | × 1     |
| Length(L)                      | 3300 mm |
| Width (W)                      | 2780 mm |
| Height (H)                     | 1250 mm |
| Weight                         | 2.1t    |

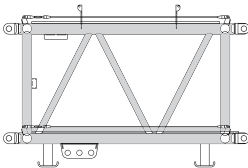


|                                    |         |
|------------------------------------|---------|
| Connect unit of rear counterweight | × 2     |
| Length(L)                          | 2510 mm |
| Width (W)                          | 705 mm  |
| Height (H)                         | 560 mm  |
| Weight                             | 0.75t   |

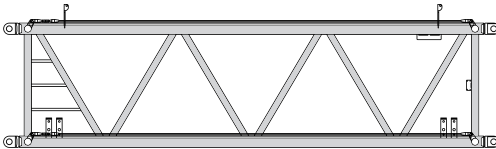
3. TRANSPORT DIMENSIONS AND WEIGHTS



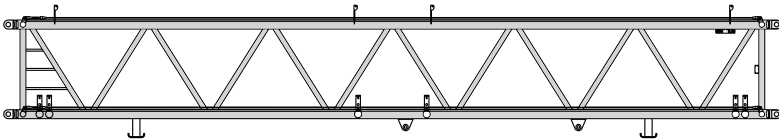
|                               |         |
|-------------------------------|---------|
| Pivot section of support boom | × 2     |
| Length(L)                     | 7340 mm |
| Width (W)                     | 1170 mm |
| Height (H)                    | 1640 mm |
| Weight                        | 1.8 t   |



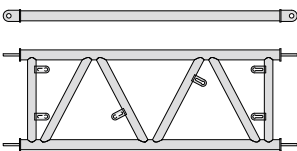
|                         |          |
|-------------------------|----------|
| Connecting section (3m) | × 1      |
| Length(L)               | 3140 mm  |
| Width (W)               | 4950 mm  |
| Height (H)              | 2100 mm  |
| Weight                  | 2.55t mm |



|                    |         |
|--------------------|---------|
| Sport section (6m) | × 1     |
| Length (L)         | 6140 mm |
| Width (W)          | 2900 mm |
| Height (H)         | 1780 mm |
| Weight             | 1.9 t   |

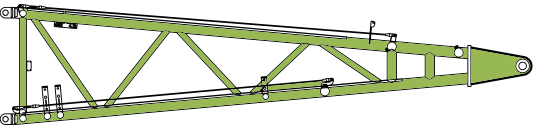


|                        |          |
|------------------------|----------|
| Reducing section (12m) | × 1      |
| Length(L)              | 12140 mm |
| Width (W)              | 2940 mm  |
| Height (H)             | 2100 mm  |
| Weight                 | 3.6t     |

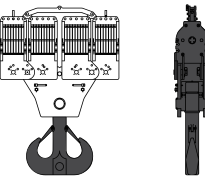


|            |         |
|------------|---------|
| Adaptor    | × 1     |
| Length(L)  | 2620 mm |
| Width (W)  | 110 mm  |
| Height (H) | 910 mm  |
| Weight     | 0.1 t   |

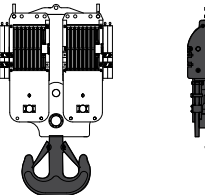
3. TRANSPORT DIMENSIONS AND WEIGHTS



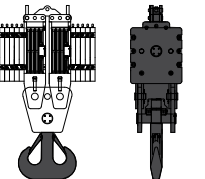
|                              |         |
|------------------------------|---------|
| Head section of support boom | × 1     |
| Length(L)                    | 6995 mm |
| Width (W)                    | 2900 mm |
| Height (H)                   | 1725 mm |
| Weight                       | 2.5 t   |



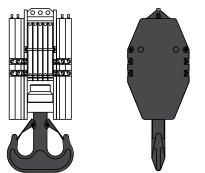
|            |         |
|------------|---------|
| Main hook  | × 1     |
| Length(L)  | 3800 mm |
| Width (W)  | 1170 mm |
| Height (H) | 5365 mm |
| Weight     | 31 t    |



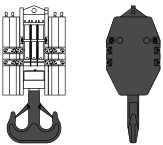
|                   |         |
|-------------------|---------|
| Load hook of 500T | × 1     |
| Length (L)        | 2360 mm |
| Width (W)         | 1040 mm |
| Height (H)        | 4005 mm |
| Weight            | 15 t    |



|                   |         |
|-------------------|---------|
| Load hook of 300T | × 1     |
| Length(L)         | 1955 mm |
| Width (W)         | 1050 mm |
| Height (H)        | 3566 mm |
| Weight            | 15 t    |



|                   |         |
|-------------------|---------|
| Load hook of 200T | × 1     |
| Length(L)         | 1120 mm |
| Width (W)         | 1040 mm |
| Height (H)        | 2770 mm |
| Weight            | 8.8 t   |

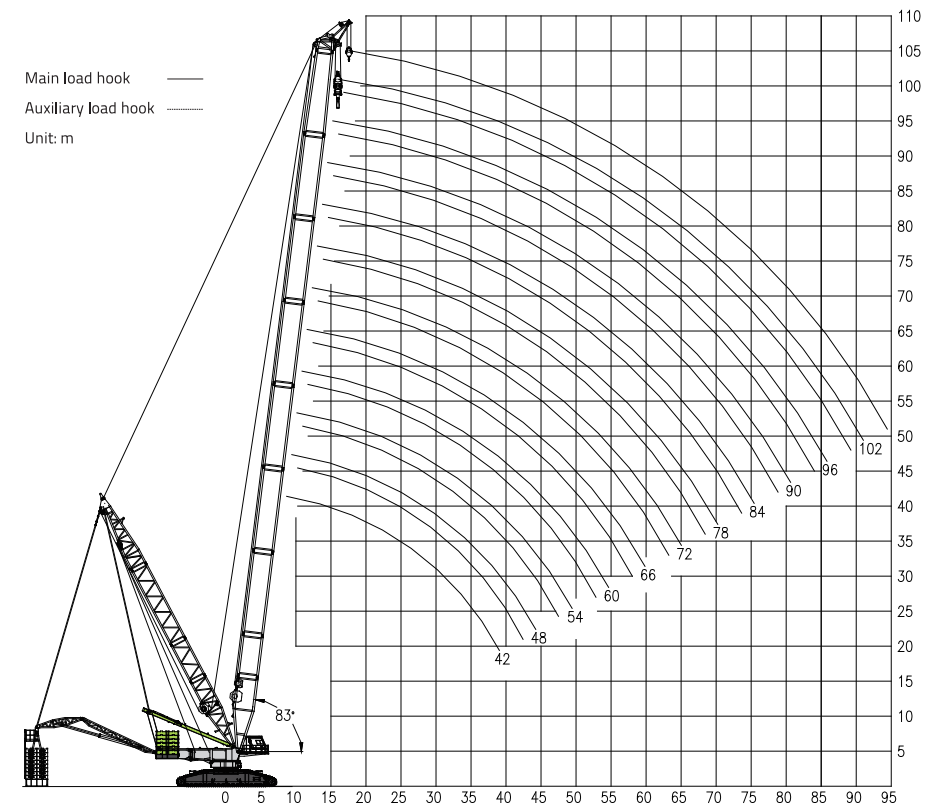


|                  |         |
|------------------|---------|
| Load hook of 80T | × 1     |
| Length(L)        | 935 mm  |
| Width (W)        | 800 mm  |
| Height (H)       | 2045 mm |
| Weight           | 4.3 t   |



## 4. LIFTING PERFORMANCE

#### 4.1 Hoisting height curves and lifting capacity charts of SDB-1/2

[illegible]

## 4. LIFTING PERFORMANCE

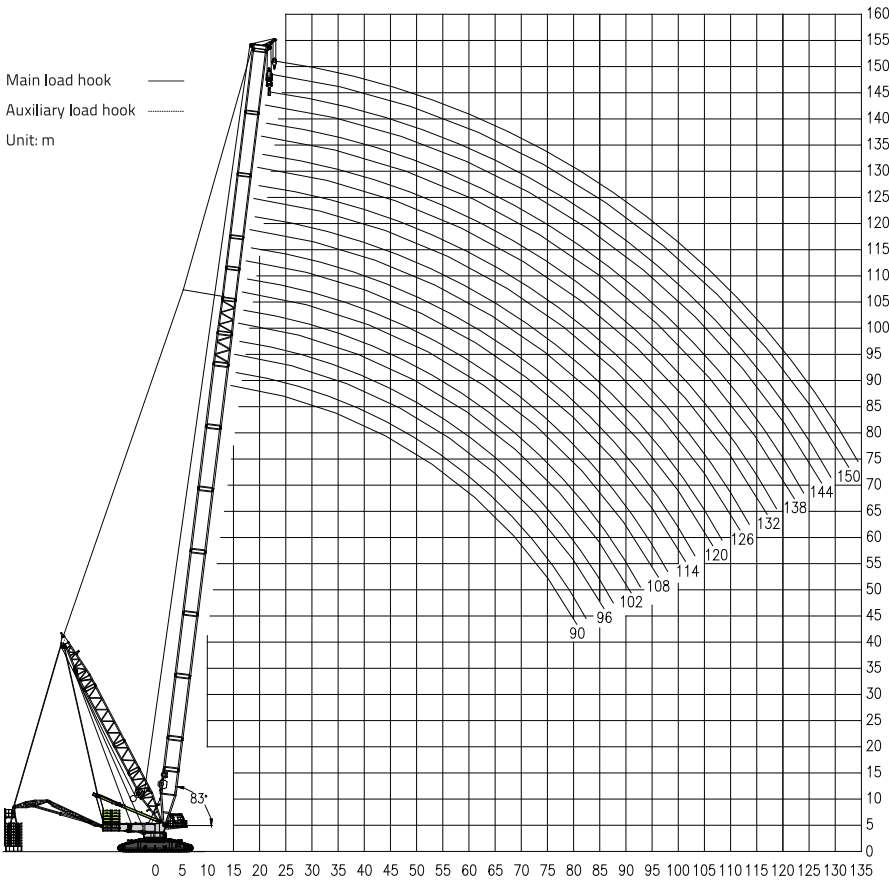
#### 4.1 Hoisting height curves and lifting capacity charts of SDB-2

[illegible]

SDB (with main boom head of 1600t) is a customized operating mode so that a specialized main boom head section and a main boom head need to be added.

4. LIFTING PERFORMANCE

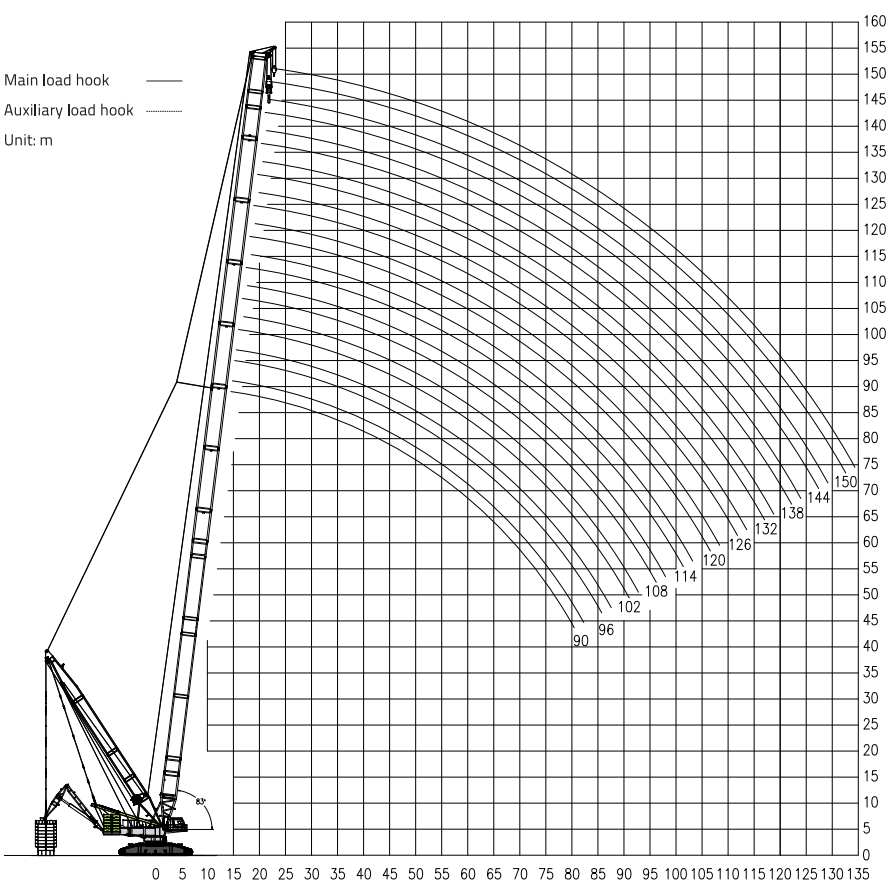
4.2 Hoisting height curves and lifting capacity charts of SLDB-1



| Lifting capacity chart of SLDB-1                                                                                                                                                      |     |     |     |     |     |     |     |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Superlift mast: 40m, superlift mast radius: 21m, superlift counterweight: 500t, slewing radius of suspended ballast: 27m, rear counterweight: 250t, central counterweight: 70t Unit:t |     |     |     |     |     |     |     |      |      |      |      |
| Radius(m)                                                                                                                                                                             | 90  | 96  | 102 | 108 | 114 | 120 | 126 | 132  | 138  | 144  | 150  |
| 16                                                                                                                                                                                    | 650 | 644 |     |     |     |     |     |      |      |      |      |
| 18                                                                                                                                                                                    | 650 | 644 | 604 | 551 | 490 |     |     |      |      |      |      |
| 20                                                                                                                                                                                    | 650 | 644 | 604 | 551 | 490 | 435 | 390 | 355  |      |      |      |
| 22                                                                                                                                                                                    | 650 | 644 | 604 | 545 | 490 | 434 | 389 | 354  | 318  | 285  | 250  |
| 24                                                                                                                                                                                    | 650 | 644 | 604 | 538 | 490 | 433 | 388 | 353  | 318  | 285  | 250  |
| 26                                                                                                                                                                                    | 639 | 636 | 597 | 531 | 490 | 433 | 388 | 351  | 318  | 284  | 249  |
| 28                                                                                                                                                                                    | 591 | 589 | 586 | 525 | 490 | 430 | 388 | 349  | 317  | 284  | 249  |
| 30                                                                                                                                                                                    | 550 | 547 | 547 | 518 | 490 | 431 | 388 | 349  | 317  | 284  | 248  |
| 32                                                                                                                                                                                    | 514 | 510 | 508 | 508 | 489 | 430 | 386 | 349  | 316  | 283  | 248  |
| 34                                                                                                                                                                                    | 481 | 479 | 477 | 474 | 474 | 430 | 386 | 348  | 315  | 281  | 246  |
| 36                                                                                                                                                                                    | 452 | 450 | 447 | 447 | 447 | 427 | 386 | 345  | 315  | 276  | 242  |
| 38                                                                                                                                                                                    | 426 | 424 | 421 | 421 | 421 | 419 | 382 | 345  | 314  | 275  | 242  |
| 40                                                                                                                                                                                    | 402 | 402 | 398 | 396 | 396 | 395 | 382 | 343  | 313  | 274  | 240  |
| 44                                                                                                                                                                                    | 362 | 360 | 359 | 357 | 357 | 355 | 355 | 339  | 312  | 271  | 232  |
| 48                                                                                                                                                                                    | 329 | 326 | 324 | 323 | 323 | 321 | 321 | 319  | 306  | 258  | 219  |
| 52                                                                                                                                                                                    | 300 | 298 | 296 | 295 | 293 | 293 | 293 | 291  | 290  | 245  | 210  |
| 56                                                                                                                                                                                    | 276 | 274 | 271 | 269 | 269 | 267 | 267 | 267  | 265  | 263  | 230  |
| 60                                                                                                                                                                                    | 254 | 251 | 250 | 248 | 248 | 246 | 246 | 245  | 244  | 243  | 218  |
| 64                                                                                                                                                                                    | 236 | 233 | 231 | 229 | 229 | 228 | 228 | 226  | 226  | 224  | 223  |
| 68                                                                                                                                                                                    | 219 | 217 | 214 | 213 | 212 | 211 | 211 | 210  | 209  | 207  | 206  |
| 72                                                                                                                                                                                    | 204 | 201 | 199 | 198 | 198 | 196 | 196 | 195  | 194  | 193  | 191  |
| 76                                                                                                                                                                                    | 191 | 189 | 186 | 184 | 184 | 183 | 183 | 181  | 181  | 179  | 178  |
| 80                                                                                                                                                                                    | 179 | 177 | 175 | 173 | 173 | 171 | 171 | 169  | 169  | 167  | 165  |
| 84                                                                                                                                                                                    |     | 165 | 163 | 162 | 162 | 160 | 161 | 159  | 158  | 157  | 155  |
| 88                                                                                                                                                                                    |     |     | 152 | 151 | 151 | 150 | 150 | 149  | 148  | 146  | 145  |
| 92                                                                                                                                                                                    |     |     |     | 142 | 141 | 140 | 140 | 139  | 138  | 137  | 135  |
| 96                                                                                                                                                                                    |     |     |     | 133 | 133 | 131 | 131 | 130  | 129  | 128  | 127  |
| 100                                                                                                                                                                                   |     |     |     |     | 124 | 123 | 123 | 122  | 121  | 120  | 118  |
| 104                                                                                                                                                                                   |     |     |     |     |     | 116 | 116 | 114  | 114  | 112  | 111  |
| 108                                                                                                                                                                                   |     |     |     |     |     |     | 109 | 108  | 107  | 105  | 104  |
| 112                                                                                                                                                                                   |     |     |     |     |     |     |     | 101  | 101  | 99   | 97.7 |
| 116                                                                                                                                                                                   |     |     |     |     |     |     |     | 95.2 | 94.7 | 93.1 | 91.7 |
| 120                                                                                                                                                                                   |     |     |     |     |     |     |     |      | 89.1 | 87.5 | 86.2 |
| 124                                                                                                                                                                                   |     |     |     |     |     |     |     |      |      | 82.4 | 81.1 |
| 128                                                                                                                                                                                   |     |     |     |     |     |     |     |      |      |      | 76.2 |

4. LIFTING PERFORMANCE

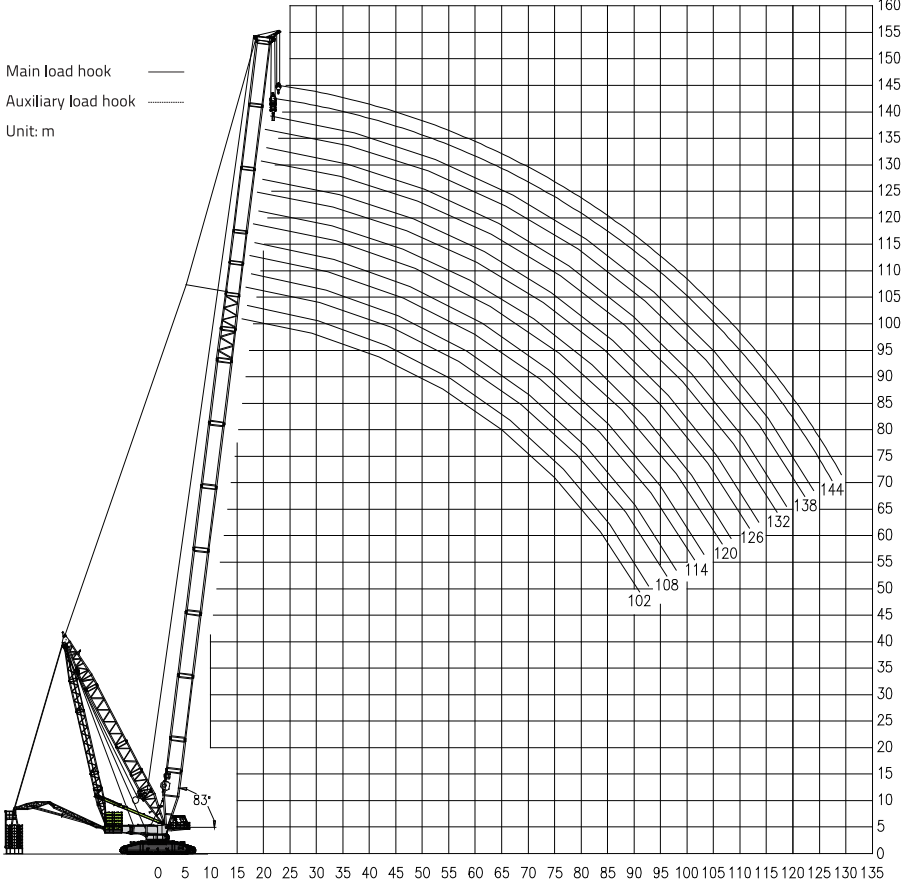
4.3 Hoisting height curves and lifting capacity charts of SLPDB-1



| Lifting capacity chart of SLPDB-1                                                                                                                                                     |     |     |     |     |     |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Superlift mast: 40m, superlift mast radius: 21m, superlift counterweight: 500t, slewing radius of suspended ballast: 27m, rear counterweight: 250t, central counterweight: 70t Unit:t |     |     |     |     |     |     |      |      |      |      |      |
| Radius (m)                                                                                                                                                                            | 90  | 96  | 102 | 108 | 114 | 120 | 126  | 132  | 138  | 144  | 150  |
| 16                                                                                                                                                                                    | 650 | 644 |     |     |     |     |      |      |      |      |      |
| 18                                                                                                                                                                                    | 650 | 644 | 604 | 563 | 522 |     |      |      |      |      |      |
| 20                                                                                                                                                                                    | 650 | 644 | 604 | 561 | 522 | 522 | 474  | 438  |      |      |      |
| 22                                                                                                                                                                                    | 650 | 644 | 604 | 561 | 520 | 519 | 473  | 435  | 402  | 382  | 350  |
| 24                                                                                                                                                                                    | 650 | 644 | 604 | 560 | 519 | 516 | 471  | 432  | 399  | 381  | 347  |
| 26                                                                                                                                                                                    | 631 | 628 | 604 | 560 | 517 | 514 | 468  | 431  | 396  | 380  | 344  |
| 28                                                                                                                                                                                    | 583 | 581 | 576 | 559 | 512 | 511 | 465  | 428  | 394  | 379  | 341  |
| 30                                                                                                                                                                                    | 541 | 538 | 538 | 524 | 512 | 507 | 462  | 426  | 391  | 378  | 340  |
| 32                                                                                                                                                                                    | 505 | 502 | 500 | 493 | 490 | 484 | 460  | 423  | 388  | 377  | 337  |
| 34                                                                                                                                                                                    | 472 | 471 | 469 | 465 | 462 | 456 | 441  | 420  | 385  | 377  | 334  |
| 36                                                                                                                                                                                    | 443 | 441 | 440 | 438 | 435 | 432 | 417  | 410  | 382  | 374  | 331  |
| 38                                                                                                                                                                                    | 418 | 416 | 414 | 410 | 409 | 407 | 396  | 389  | 379  | 371  | 328  |
| 40                                                                                                                                                                                    | 393 | 393 | 390 | 388 | 385 | 385 | 376  | 370  | 360  | 357  | 326  |
| 44                                                                                                                                                                                    | 354 | 352 | 350 | 346 | 345 | 343 | 341  | 336  | 327  | 324  | 312  |
| 48                                                                                                                                                                                    | 321 | 319 | 315 | 314 | 310 | 310 | 307  | 306  | 299  | 296  | 285  |
| 52                                                                                                                                                                                    | 292 | 290 | 288 | 285 | 283 | 281 | 278  | 276  | 274  | 271  | 262  |
| 56                                                                                                                                                                                    | 267 | 265 | 262 | 260 | 257 | 257 | 254  | 252  | 250  | 248  | 241  |
| 60                                                                                                                                                                                    | 245 | 243 | 241 | 239 | 236 | 234 | 232  | 231  | 228  | 226  | 223  |
| 64                                                                                                                                                                                    | 226 | 224 | 223 | 221 | 217 | 215 | 213  | 212  | 209  | 207  | 205  |
| 68                                                                                                                                                                                    | 210 | 208 | 206 | 204 | 200 | 199 | 197  | 195  | 193  | 191  | 188  |
| 72                                                                                                                                                                                    | 195 | 193 | 191 | 189 | 186 | 184 | 182  | 180  | 178  | 176  | 173  |
| 76                                                                                                                                                                                    | 181 | 179 | 177 | 175 | 173 | 172 | 169  | 167  | 164  | 163  | 159  |
| 80                                                                                                                                                                                    | 162 | 167 | 165 | 163 | 161 | 160 | 157  | 155  | 152  | 150  | 147  |
| 84                                                                                                                                                                                    |     | 153 | 155 | 152 | 150 | 148 | 146  | 144  | 141  | 139  | 135  |
| 88                                                                                                                                                                                    |     |     | 143 | 142 | 140 | 138 | 136  | 134  | 131  | 128  | 125  |
| 92                                                                                                                                                                                    |     |     |     | 132 | 130 | 129 | 126  | 124  | 121  | 119  | 115  |
| 96                                                                                                                                                                                    |     |     |     | 120 | 121 | 120 | 117  | 115  | 112  | 110  | 106  |
| 100                                                                                                                                                                                   |     |     |     |     | 109 | 112 | 109  | 107  | 104  | 102  | 98   |
| 104                                                                                                                                                                                   |     |     |     |     |     | 101 | 102  | 99.5 | 96.2 | 93.9 | 90.4 |
| 108                                                                                                                                                                                   |     |     |     |     |     |     | 93.7 | 92.4 | 89.2 | 86.9 | 83.4 |
| 112                                                                                                                                                                                   |     |     |     |     |     |     |      | 85.9 | 82.6 | 80.4 | 76.9 |
| 116                                                                                                                                                                                   |     |     |     |     |     |     |      |      | 77.8 | 76.5 | 74.3 |
| 120                                                                                                                                                                                   |     |     |     |     |     |     |      |      |      | 70.7 | 68.5 |
| 124                                                                                                                                                                                   |     |     |     |     |     |     |      |      |      |      | 63.2 |
| 128                                                                                                                                                                                   |     |     |     |     |     |     |      |      |      |      | 54.7 |
| 132                                                                                                                                                                                   |     |     |     |     |     |     |      |      |      |      | 49.9 |

4. LIFTING PERFORMANCE

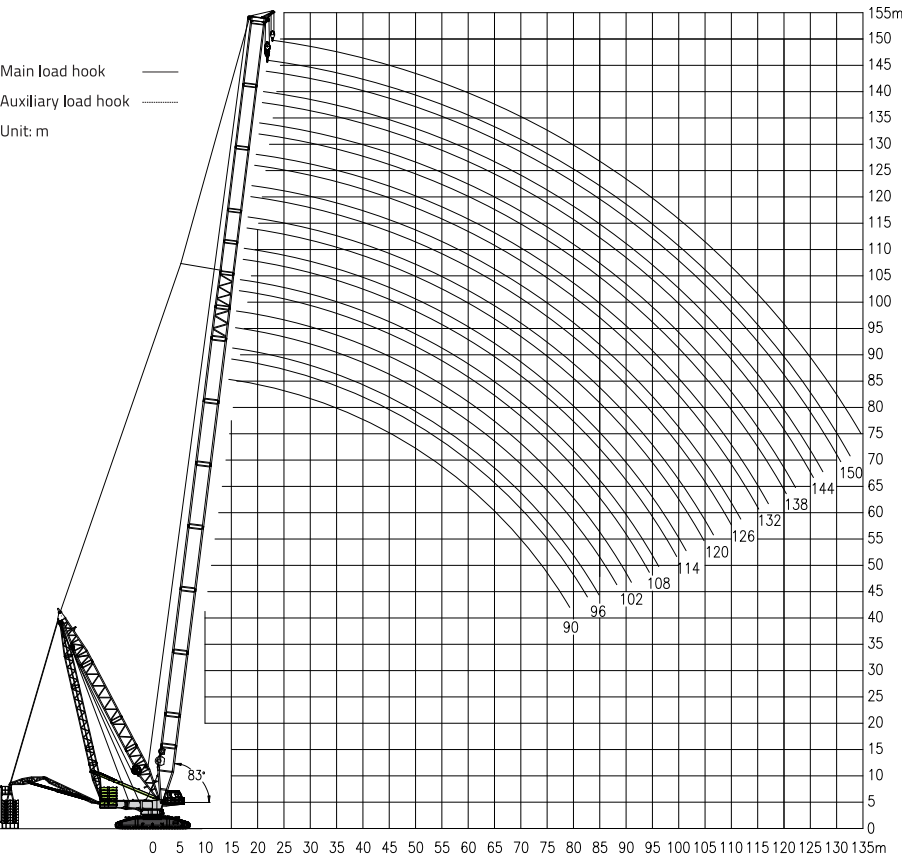
4.4 Hoisting height curves and lifting capacity charts of offshore wind power SLDB-2



| Lifting capacity chart of SLDB-2 (off-shore wind power lifting)<br>Superlift mast: 40m, superlift mast radius: 18m, superlift counterweight: 250t,<br>slewing radius of suspended ballast: 27m, rear counterweight: 170t, central counterweight: 70t  Unit:t<br>Main boom length (m) |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| Radius (m)                                                                                                                                                                                                                                                                           | 102  | 108  | 114  | 120  | 126  | 132  | 138  | 144  |
| 18                                                                                                                                                                                                                                                                                   | 604  | 551  | 494  |      |      |      |      |      |
| 20                                                                                                                                                                                                                                                                                   | 560  | 551  | 493  | 435  | 395  | 355  |      |      |
| 22                                                                                                                                                                                                                                                                                   | 505  | 500  | 490  | 434  | 394  | 354  | 320  | 285  |
| 24                                                                                                                                                                                                                                                                                   | 459  | 454  | 451  | 433  | 393  | 353  | 318  | 285  |
| 26                                                                                                                                                                                                                                                                                   | 424  | 416  | 413  | 408  | 390  | 353  | 318  | 284  |
| 28                                                                                                                                                                                                                                                                                   | 391  | 388  | 382  | 376  | 374  | 352  | 317  | 284  |
| 30                                                                                                                                                                                                                                                                                   | 360  | 357  | 357  | 351  | 346  | 342  | 317  | 284  |
| 32                                                                                                                                                                                                                                                                                   | 334  | 332  | 331  | 329  | 321  | 317  | 315  | 283  |
| 34                                                                                                                                                                                                                                                                                   | 310  | 310  | 307  | 307  | 299  | 295  | 293  | 281  |
| 36                                                                                                                                                                                                                                                                                   | 290  | 287  | 287  | 286  | 279  | 279  | 274  | 270  |
| 38                                                                                                                                                                                                                                                                                   | 272  | 270  | 269  | 267  | 262  | 262  | 256  | 253  |
| 40                                                                                                                                                                                                                                                                                   | 255  | 253  | 253  | 250  | 249  | 245  | 240  | 237  |
| 44                                                                                                                                                                                                                                                                                   | 225  | 222  | 221  | 218  | 218  | 215  | 213  | 210  |
| 48                                                                                                                                                                                                                                                                                   | 201  | 199  | 198  | 195  | 194  | 192  | 190  | 187  |
| 52                                                                                                                                                                                                                                                                                   | 181  | 179  | 178  | 175  | 175  | 172  | 171  | 168  |
| 56                                                                                                                                                                                                                                                                                   | 164  | 161  | 161  | 158  | 158  | 155  | 154  | 151  |
| 60                                                                                                                                                                                                                                                                                   | 149  | 146  | 146  | 143  | 143  | 140  | 139  | 137  |
| 64                                                                                                                                                                                                                                                                                   | 135  | 133  | 132  | 130  | 130  | 127  | 126  | 124  |
| 68                                                                                                                                                                                                                                                                                   | 124  | 121  | 121  | 119  | 118  | 116  | 115  | 113  |
| 72                                                                                                                                                                                                                                                                                   | 113  | 111  | 111  | 108  | 108  | 106  | 105  | 102  |
| 76                                                                                                                                                                                                                                                                                   | 104  | 102  | 101  | 99.3 | 99.2 | 96.9 | 95.9 | 93.5 |
| 80                                                                                                                                                                                                                                                                                   | 95.3 | 93.6 | 93.1 | 90.9 | 90.9 | 88.6 | 87.6 | 85.3 |
| 84                                                                                                                                                                                                                                                                                   | 87.6 | 85.9 | 85.5 | 83.3 | 83.4 | 81.1 | 80.1 | 77.8 |
| 88                                                                                                                                                                                                                                                                                   | 80.6 | 78.9 | 78.6 | 76.4 | 76.5 | 74.3 | 73.3 | 71   |
| 92                                                                                                                                                                                                                                                                                   |      | 72.5 | 72.2 | 70.1 | 70.2 | 68   | 67.1 | 64.8 |
| 96                                                                                                                                                                                                                                                                                   |      | 66.6 | 66.3 | 64.3 | 64.4 | 62.2 | 61.3 | 59.1 |
| 100                                                                                                                                                                                                                                                                                  |      |      | 60.9 | 58.9 | 59   | 56.9 | 56   | 53.8 |
| 104                                                                                                                                                                                                                                                                                  |      |      |      | 53.9 | 54.1 | 51.9 | 51.1 | 48.9 |
| 108                                                                                                                                                                                                                                                                                  |      |      |      |      | 49.5 | 47.3 | 46.5 | 44.3 |
| 112                                                                                                                                                                                                                                                                                  |      |      |      |      |      | 43   | 42.2 | 40.1 |
| 116                                                                                                                                                                                                                                                                                  |      |      |      |      |      | 39   | 38.2 | 36.1 |
| 120                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      | 34.5 | 32.4 |
| 124                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |      | 28.9 |

4. LIFTING PERFORMANCE

4.5 Lifting capacity charts of SLDB-3 /SLPDB-2/3



| Lifting capacity chart of SLDB-3<br>Superlift mast: 40m, superlift mast radius: 18m, superlift counterweight: 500t,<br>slewing radius of suspended ballast: 24m, rear counterweight: 170t, central counterweight: 70t  Unit:t<br>Main boom (m) |     |     |     |     |     |      |      |      |      |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Radius (m)                                                                                                                                                                                                                                     | 90  | 96  | 102 | 108 | 114 | 120  | 126  | 132  | 138  | 144  | 150  |
| 16                                                                                                                                                                                                                                             | 650 | 644 |     |     |     |      |      |      |      |      |      |
| 18                                                                                                                                                                                                                                             | 650 | 644 | 604 | 551 | 488 |      |      |      |      |      |      |
| 20                                                                                                                                                                                                                                             | 650 | 644 | 604 | 551 | 488 | 435  | 390  | 355  |      |      |      |
| 22                                                                                                                                                                                                                                             | 650 | 644 | 602 | 550 | 488 | 434  | 389  | 353  | 318  | 285  | 250  |
| 24                                                                                                                                                                                                                                             | 622 | 619 | 601 | 548 | 488 | 433  | 388  | 353  | 316  | 283  | 249  |
| 26                                                                                                                                                                                                                                             | 572 | 569 | 567 | 547 | 488 | 433  | 388  | 353  | 316  | 283  | 248  |
| 28                                                                                                                                                                                                                                             | 528 | 524 | 524 | 516 | 487 | 432  | 388  | 352  | 316  | 280  | 247  |
| 30                                                                                                                                                                                                                                             | 490 | 488 | 486 | 483 | 472 | 431  | 388  | 349  | 315  | 279  | 244  |
| 32                                                                                                                                                                                                                                             | 457 | 455 | 452 | 452 | 447 | 430  | 386  | 348  | 315  | 278  | 243  |
| 34                                                                                                                                                                                                                                             | 427 | 426 | 424 | 421 | 421 | 421  | 386  | 345  | 315  | 276  | 242  |
| 36                                                                                                                                                                                                                                             | 402 | 401 | 396 | 396 | 396 | 393  | 386  | 345  | 315  | 276  | 242  |
| 38                                                                                                                                                                                                                                             | 377 | 377 | 374 | 373 | 373 | 371  | 371  | 343  | 314  | 274  | 241  |
| 40                                                                                                                                                                                                                                             | 357 | 355 | 352 | 352 | 352 | 350  | 350  | 340  | 313  | 274  | 240  |
| 44                                                                                                                                                                                                                                             | 321 | 319 | 315 | 315 | 315 | 312  | 314  | 312  | 310  | 272  | 237  |
| 48                                                                                                                                                                                                                                             | 290 | 288 | 287 | 285 | 285 | 283  | 283  | 281  | 281  | 267  | 233  |
| 52                                                                                                                                                                                                                                             | 264 | 262 | 260 | 259 | 259 | 257  | 257  | 256  | 255  | 254  | 230  |
| 56                                                                                                                                                                                                                                             | 242 | 240 | 238 | 236 | 236 | 234  | 234  | 233  | 232  | 231  | 229  |
| 60                                                                                                                                                                                                                                             | 223 | 221 | 219 | 217 | 217 | 215  | 215  | 214  | 213  | 211  | 210  |
| 64                                                                                                                                                                                                                                             | 206 | 204 | 202 | 200 | 199 | 198  | 198  | 197  | 196  | 195  | 193  |
| 68                                                                                                                                                                                                                                             | 190 | 188 | 186 | 184 | 184 | 183  | 183  | 181  | 181  | 179  | 178  |
| 72                                                                                                                                                                                                                                             | 175 | 174 | 171 | 170 | 170 | 169  | 169  | 167  | 167  | 165  | 164  |
| 76                                                                                                                                                                                                                                             | 162 | 161 | 158 | 157 | 157 | 156  | 157  | 155  | 155  | 153  | 152  |
| 80                                                                                                                                                                                                                                             | 151 | 149 | 147 | 146 | 146 | 144  | 145  | 143  | 143  | 141  | 140  |
| 84                                                                                                                                                                                                                                             |     | 139 | 136 | 135 | 135 | 134  | 134  | 133  | 132  | 131  | 130  |
| 88                                                                                                                                                                                                                                             |     |     | 127 | 126 | 126 | 124  | 125  | 123  | 123  | 121  | 120  |
| 92                                                                                                                                                                                                                                             |     |     |     | 117 | 117 | 116  | 116  | 115  | 114  | 113  | 112  |
| 96                                                                                                                                                                                                                                             |     |     |     | 109 | 109 | 108  | 108  | 107  | 106  | 105  | 104  |
| 100                                                                                                                                                                                                                                            |     |     |     |     | 102 | 101  | 101  | 99.6 | 99.1 | 97.5 | 96.4 |
| 104                                                                                                                                                                                                                                            |     |     |     |     |     | 93.9 | 94.4 | 93   | 92.4 | 90.8 | 89.7 |
| 108                                                                                                                                                                                                                                            |     |     |     |     |     |      | 88.2 | 86.8 | 86.3 | 84.7 | 83.6 |
| 112                                                                                                                                                                                                                                            |     |     |     |     |     |      |      | 81.1 | 80.6 | 79   | 77.9 |
| 116                                                                                                                                                                                                                                            |     |     |     |     |     |      |      | 75.8 | 75.2 | 73.7 | 72.6 |
| 120                                                                                                                                                                                                                                            |     |     |     |     |     |      |      |      | 70.3 | 68.7 | 67.7 |
| 124                                                                                                                                                                                                                                            |     |     |     |     |     |      |      |      |      | 64.1 | 63   |
| 128                                                                                                                                                                                                                                            |     |     |     |     |     |      |      |      |      |      | 58.7 |



4. LIFTING PERFORMANCE

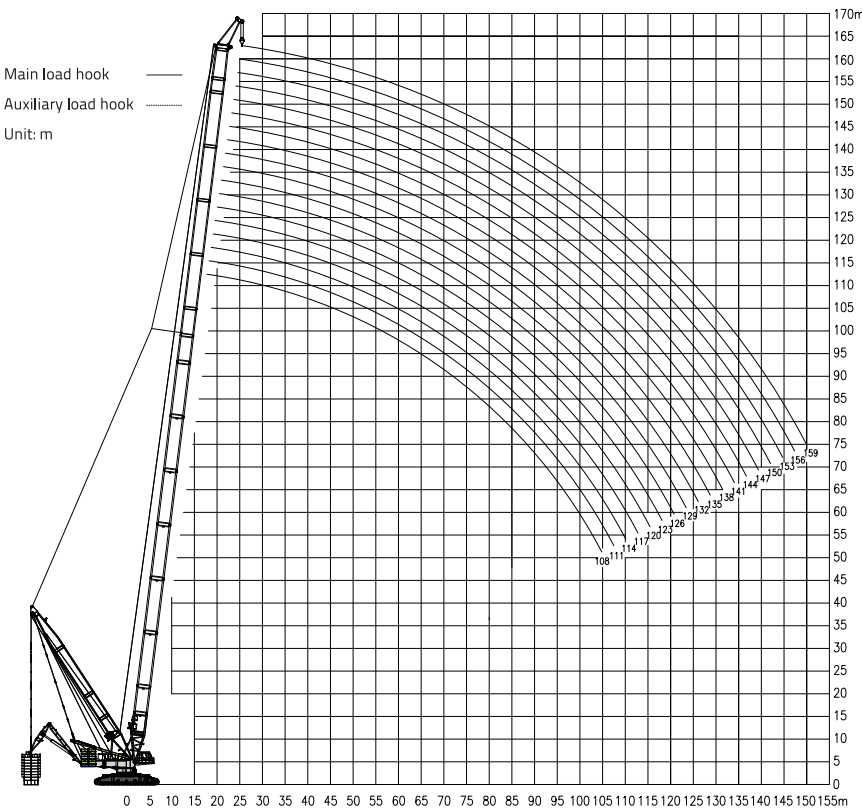
4.5 Lifting capacity charts of SLDB-3 /SLPDB-2/3

| Lifting capacity of SLPDB-2                                                                                                                                                           |     |     |      |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|------|------|------|------|------|------|------|------|
| Superlift mast: 40m, superlift mast radius: 18m, superlift counterweight: 350t, slewing radius of suspended ballast: 27m, rear counterweight: 170t, central counterweight: 70t Unit:t |     |     |      |      |      |      |      |      |      |      |      |
| Main boom length(m)                                                                                                                                                                   |     |     |      |      |      |      |      |      |      |      |      |
| Radius (m)                                                                                                                                                                            | 90  | 96  | 102  | 108  | 114  | 120  | 126  | 132  | 138  | 144  | 150  |
| 16                                                                                                                                                                                    | 650 | 643 |      |      |      |      |      |      |      |      |      |
| 18                                                                                                                                                                                    | 650 | 643 | 604  | 563  | 522  |      |      |      |      |      |      |
| 20                                                                                                                                                                                    | 650 | 643 | 604  | 561  | 522  | 522  | 474  | 438  |      |      |      |
| 22                                                                                                                                                                                    | 591 | 591 | 586  | 561  | 520  | 519  | 473  | 435  | 402  | 382  | 350  |
| 24                                                                                                                                                                                    | 541 | 538 | 536  | 533  | 519  | 516  | 471  | 432  | 399  | 381  | 347  |
| 26                                                                                                                                                                                    | 496 | 491 | 491  | 488  | 486  | 482  | 468  | 431  | 396  | 380  | 344  |
| 28                                                                                                                                                                                    | 457 | 455 | 452  | 449  | 446  | 446  | 443  | 428  | 394  | 379  | 341  |
| 30                                                                                                                                                                                    | 424 | 421 | 419  | 415  | 413  | 413  | 410  | 407  | 391  | 378  | 340  |
| 32                                                                                                                                                                                    | 393 | 391 | 388  | 388  | 384  | 382  | 379  | 379  | 373  | 367  | 337  |
| 34                                                                                                                                                                                    | 368 | 365 | 362  | 362  | 359  | 357  | 355  | 351  | 348  | 343  | 334  |
| 36                                                                                                                                                                                    | 345 | 343 | 341  | 338  | 334  | 334  | 331  | 329  | 326  | 321  | 316  |
| 38                                                                                                                                                                                    | 324 | 320 | 318  | 317  | 315  | 312  | 310  | 309  | 307  | 302  | 297  |
| 40                                                                                                                                                                                    | 303 | 301 | 300  | 298  | 296  | 295  | 292  | 290  | 287  | 284  | 279  |
| 44                                                                                                                                                                                    | 270 | 269 | 267  | 265  | 262  | 260  | 259  | 257  | 253  | 252  | 248  |
| 48                                                                                                                                                                                    | 240 | 238 | 237  | 235  | 233  | 232  | 229  | 228  | 226  | 224  | 220  |
| 52                                                                                                                                                                                    | 214 | 213 | 211  | 209  | 207  | 206  | 203  | 202  | 200  | 198  | 196  |
| 56                                                                                                                                                                                    | 192 | 191 | 189  | 187  | 185  | 184  | 181  | 180  | 178  | 176  | 174  |
| 60                                                                                                                                                                                    | 174 | 172 | 170  | 169  | 166  | 165  | 163  | 161  | 159  | 158  | 155  |
| 64                                                                                                                                                                                    | 158 | 156 | 154  | 152  | 150  | 149  | 147  | 145  | 143  | 141  | 139  |
| 68                                                                                                                                                                                    | 144 | 142 | 140  | 138  | 136  | 135  | 132  | 131  | 129  | 127  | 125  |
| 72                                                                                                                                                                                    | 132 | 130 | 128  | 126  | 124  | 123  | 120  | 119  | 116  | 115  | 112  |
| 76                                                                                                                                                                                    | 121 | 119 | 117  | 115  | 113  | 112  | 109  | 108  | 105  | 104  | 101  |
| 80                                                                                                                                                                                    | 111 | 109 | 107  | 105  | 103  | 102  | 99.4 | 98.1 | 95.7 | 94.1 | 91.5 |
| 84                                                                                                                                                                                    |     | 100 | 98.4 | 96.5 | 94.2 | 93   | 90.5 | 89.2 | 86.8 | 85.2 | 82.6 |
| 88                                                                                                                                                                                    |     |     | 90.3 | 88.5 | 86.2 | 85   | 82.5 | 81.2 | 78.7 | 77.2 | 74.6 |
| 92                                                                                                                                                                                    |     |     |      | 81.2 | 78.9 | 77.7 | 75.2 | 73.9 | 71.4 | 69.9 | 67.3 |
| 96                                                                                                                                                                                    |     |     |      | 74.5 | 72.2 | 71.1 | 68.5 | 67.2 | 64.8 | 63.2 | 60.6 |
| 100                                                                                                                                                                                   |     |     |      |      | 66.1 | 64.9 | 62.4 | 61.1 | 58.7 | 57.1 | 54.5 |
| 104                                                                                                                                                                                   |     |     |      |      |      | 59.3 | 56.8 | 55.4 | 53   | 51.5 | 48.8 |
| 108                                                                                                                                                                                   |     |     |      |      |      |      | 51.6 | 50.2 | 47.8 | 46.3 | 43.6 |
| 112                                                                                                                                                                                   |     |     |      |      |      |      |      | 45.4 | 43   | 41.4 | 38.8 |
| 116                                                                                                                                                                                   |     |     |      |      |      |      |      | 40.9 | 38.5 | 37   | 34.3 |
| 120                                                                                                                                                                                   |     |     |      |      |      |      |      |      | 34.3 | 32.8 | 30.1 |
| 124                                                                                                                                                                                   |     |     |      |      |      |      |      |      |      | 28.8 | 26.2 |
| 128                                                                                                                                                                                   |     |     |      |      |      |      |      |      |      |      | 22.4 |
| 132                                                                                                                                                                                   |     |     |      |      |      |      |      |      |      |      | 18.5 |

| Lifting capacity of SLPDB-3                                                                                                                                                           |     |     |     |     |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Superlift mast: 40m, superlift mast radius: 18m, superlift counterweight: 500t, slewing radius of suspended ballast: 24m, rear counterweight: 170t, central counterweight: 70t Unit:t |     |     |     |     |      |      |      |      |      |      |      |
| Main boom length(m)                                                                                                                                                                   |     |     |     |     |      |      |      |      |      |      |      |
| Radius(m)                                                                                                                                                                             | 90  | 96  | 102 | 108 | 114  | 120  | 126  | 132  | 138  | 144  | 150  |
| 16                                                                                                                                                                                    | 650 | 643 |     |     |      |      |      |      |      |      |      |
| 18                                                                                                                                                                                    | 650 | 643 | 604 | 563 | 522  |      |      |      |      |      |      |
| 20                                                                                                                                                                                    | 650 | 643 | 604 | 561 | 522  | 522  | 474  | 438  |      |      |      |
| 22                                                                                                                                                                                    | 650 | 643 | 604 | 561 | 520  | 519  | 473  | 435  | 402  | 382  | 350  |
| 24                                                                                                                                                                                    | 614 | 610 | 604 | 560 | 519  | 516  | 471  | 432  | 399  | 381  | 347  |
| 26                                                                                                                                                                                    | 563 | 560 | 560 | 558 | 517  | 514  | 468  | 431  | 396  | 380  | 344  |
| 28                                                                                                                                                                                    | 519 | 519 | 515 | 513 | 510  | 510  | 465  | 428  | 394  | 379  | 341  |
| 30                                                                                                                                                                                    | 482 | 479 | 479 | 477 | 474  | 472  | 460  | 426  | 391  | 378  | 340  |
| 32                                                                                                                                                                                    | 449 | 446 | 446 | 443 | 441  | 438  | 435  | 423  | 388  | 377  | 337  |
| 34                                                                                                                                                                                    | 421 | 419 | 415 | 413 | 410  | 410  | 407  | 403  | 385  | 377  | 334  |
| 36                                                                                                                                                                                    | 393 | 393 | 391 | 388 | 384  | 384  | 381  | 379  | 370  | 367  | 331  |
| 38                                                                                                                                                                                    | 371 | 368 | 365 | 365 | 362  | 360  | 357  | 357  | 352  | 349  | 328  |
| 40                                                                                                                                                                                    | 350 | 348 | 346 | 343 | 341  | 340  | 338  | 334  | 332  | 331  | 317  |
| 44                                                                                                                                                                                    | 314 | 312 | 310 | 307 | 303  | 303  | 300  | 298  | 296  | 295  | 290  |
| 48                                                                                                                                                                                    | 282 | 281 | 279 | 276 | 274  | 272  | 270  | 267  | 265  | 264  | 261  |
| 52                                                                                                                                                                                    | 257 | 255 | 253 | 250 | 248  | 246  | 244  | 243  | 239  | 237  | 234  |
| 56                                                                                                                                                                                    | 234 | 233 | 231 | 229 | 226  | 224  | 222  | 220  | 217  | 215  | 213  |
| 60                                                                                                                                                                                    | 215 | 214 | 211 | 209 | 206  | 205  | 202  | 201  | 198  | 197  | 193  |
| 64                                                                                                                                                                                    | 198 | 197 | 194 | 191 | 189  | 187  | 185  | 184  | 181  | 179  | 177  |
| 68                                                                                                                                                                                    | 183 | 181 | 179 | 177 | 174  | 172  | 170  | 169  | 166  | 165  | 162  |
| 72                                                                                                                                                                                    | 168 | 167 | 165 | 163 | 160  | 159  | 156  | 155  | 152  | 151  | 148  |
| 76                                                                                                                                                                                    | 155 | 154 | 152 | 150 | 148  | 146  | 144  | 143  | 140  | 138  | 136  |
| 80                                                                                                                                                                                    | 144 | 142 | 140 | 138 | 136  | 135  | 132  | 131  | 128  | 127  | 124  |
| 84                                                                                                                                                                                    |     | 132 | 129 | 128 | 125  | 124  | 122  | 120  | 118  | 116  | 114  |
| 88                                                                                                                                                                                    |     |     | 120 | 118 | 116  | 115  | 112  | 111  | 108  | 107  | 104  |
| 92                                                                                                                                                                                    |     |     |     | 109 | 107  | 106  | 103  | 102  | 99.9 | 98.3 | 95.7 |
| 96                                                                                                                                                                                    |     |     |     | 101 | 99.4 | 98.2 | 95.7 | 94.4 | 91.9 | 90.4 | 87.8 |
| 100                                                                                                                                                                                   |     |     |     |     | 92.1 | 90.9 | 88.4 | 87.1 | 84.7 | 83.1 | 80.5 |
| 104                                                                                                                                                                                   |     |     |     |     |      | 84.2 | 81.7 | 80.4 | 78   | 76.4 | 73.8 |
| 108                                                                                                                                                                                   |     |     |     |     |      |      | 75.5 | 74.2 | 71.8 | 70.3 | 67.6 |
| 112                                                                                                                                                                                   |     |     |     |     |      |      |      | 68.5 | 66.1 | 64.5 | 61.9 |
| 116                                                                                                                                                                                   |     |     |     |     |      |      |      |      | 63.1 | 60.7 | 59.2 |
| 120                                                                                                                                                                                   |     |     |     |     |      |      |      |      |      | 55.7 | 54.2 |
| 124                                                                                                                                                                                   |     |     |     |     |      |      |      |      |      |      | 49.6 |
| 128                                                                                                                                                                                   |     |     |     |     |      |      |      |      |      |      | 42.6 |
| 132                                                                                                                                                                                   |     |     |     |     |      |      |      |      |      |      | 38.4 |

4. LIFTING PERFORMANCE

4.6 Hoisting height curves and lifting capacity charts of SLHSDB-1

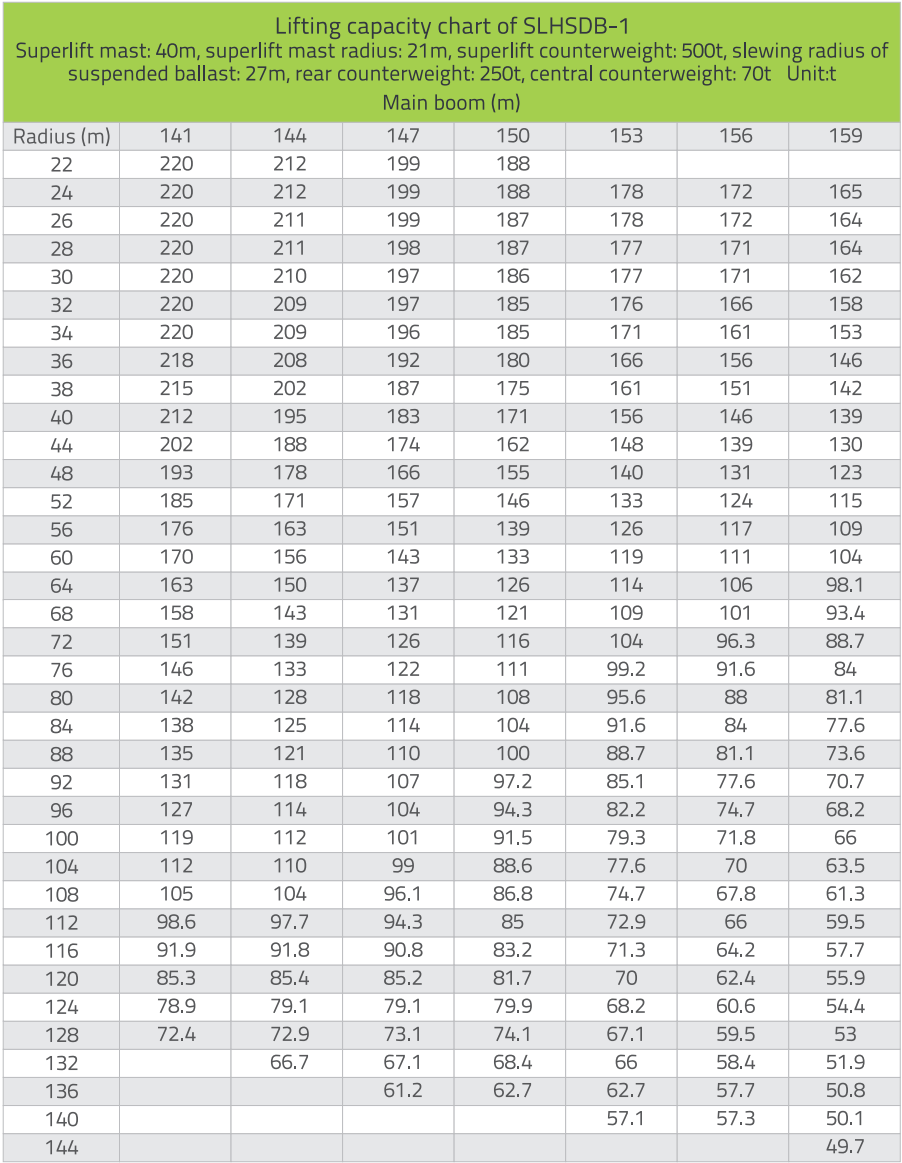


| Lifting capacity chart of SLHSDB-1                                                                                                                                                    |     |     |     |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|
| Superlift mast: 40m, superlift mast radius: 21m, superlift counterweight: 500t, slewing radius of suspended ballast: 27m, rear counterweight: 250t, central counterweight: 70t Unit:t |     |     |     |      |      |      |      |      |      |      |      |
| Main boom (m)                                                                                                                                                                         |     |     |     |      |      |      |      |      |      |      |      |
| Radius (m)                                                                                                                                                                            | 108 | 111 | 114 | 117  | 120  | 123  | 126  | 129  | 132  | 135  | 138  |
| 18                                                                                                                                                                                    | 220 | 220 |     |      |      |      |      |      |      |      |      |
| 19                                                                                                                                                                                    | 220 | 220 | 220 | 220  | 220  | 220  |      |      |      |      |      |
| 20                                                                                                                                                                                    | 220 | 220 | 220 | 220  | 220  | 220  | 220  | 220  | 220  |      |      |
| 22                                                                                                                                                                                    | 220 | 220 | 220 | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  |
| 24                                                                                                                                                                                    | 220 | 220 | 220 | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  |
| 26                                                                                                                                                                                    | 220 | 220 | 220 | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  |
| 28                                                                                                                                                                                    | 219 | 220 | 220 | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  |
| 30                                                                                                                                                                                    | 216 | 217 | 218 | 219  | 220  | 220  | 220  | 220  | 220  | 220  | 220  |
| 32                                                                                                                                                                                    | 213 | 214 | 215 | 216  | 217  | 218  | 219  | 220  | 220  | 220  | 220  |
| 34                                                                                                                                                                                    | 211 | 212 | 213 | 214  | 215  | 215  | 216  | 217  | 218  | 219  | 219  |
| 36                                                                                                                                                                                    | 208 | 209 | 210 | 211  | 212  | 213  | 214  | 215  | 215  | 216  | 217  |
| 38                                                                                                                                                                                    | 206 | 207 | 208 | 209  | 210  | 210  | 211  | 212  | 213  | 214  | 215  |
| 40                                                                                                                                                                                    | 203 | 204 | 205 | 206  | 207  | 208  | 209  | 210  | 211  | 212  | 212  |
| 44                                                                                                                                                                                    | 199 | 200 | 201 | 202  | 203  | 204  | 205  | 206  | 206  | 207  | 208  |
| 48                                                                                                                                                                                    | 195 | 196 | 197 | 198  | 199  | 200  | 201  | 202  | 203  | 203  | 204  |
| 52                                                                                                                                                                                    | 191 | 192 | 193 | 194  | 195  | 196  | 197  | 198  | 199  | 200  | 200  |
| 56                                                                                                                                                                                    | 188 | 189 | 190 | 191  | 192  | 193  | 194  | 195  | 195  | 196  | 193  |
| 60                                                                                                                                                                                    | 185 | 186 | 187 | 188  | 189  | 190  | 190  | 191  | 192  | 191  | 185  |
| 64                                                                                                                                                                                    | 182 | 183 | 184 | 185  | 186  | 187  | 188  | 189  | 189  | 183  | 179  |
| 68                                                                                                                                                                                    | 180 | 180 | 181 | 182  | 183  | 184  | 185  | 186  | 187  | 177  | 173  |
| 72                                                                                                                                                                                    | 178 | 178 | 179 | 180  | 181  | 182  | 183  | 184  | 184  | 171  | 166  |
| 76                                                                                                                                                                                    | 176 | 177 | 177 | 178  | 179  | 180  | 181  | 180  | 179  | 166  | 162  |
| 80                                                                                                                                                                                    | 172 | 172 | 173 | 171  | 170  | 169  | 170  | 169  | 168  | 162  | 158  |
| 84                                                                                                                                                                                    | 160 | 160 | 161 | 159  | 158  | 158  | 158  | 158  | 157  | 156  | 153  |
| 88                                                                                                                                                                                    | 149 | 149 | 151 | 148  | 148  | 147  | 148  | 148  | 147  | 146  | 146  |
| 92                                                                                                                                                                                    | 137 | 138 | 140 | 137  | 137  | 137  | 138  | 139  | 138  | 137  | 137  |
| 96                                                                                                                                                                                    | 127 | 128 | 130 | 127  | 127  | 127  | 128  | 130  | 129  | 128  | 128  |
| 100                                                                                                                                                                                   | 116 | 117 | 120 | 117  | 118  | 118  | 119  | 121  | 121  | 120  | 120  |
| 104                                                                                                                                                                                   |     | 107 | 111 | 108  | 109  | 109  | 111  | 113  | 113  | 113  | 113  |
| 108                                                                                                                                                                                   |     |     |     | 98.5 | 99.8 | 101  | 102  | 105  | 106  | 105  | 106  |
| 112                                                                                                                                                                                   |     |     |     |      | 90.9 | 92.1 | 94.1 | 97.6 | 98   | 97.8 | 99.1 |
| 116                                                                                                                                                                                   |     |     |     |      |      |      | 86   | 89.9 | 90.6 | 90.7 | 92.2 |
| 120                                                                                                                                                                                   |     |     |     |      |      |      |      | 82.3 | 83.3 | 83.6 | 85.4 |
| 124                                                                                                                                                                                   |     |     |     |      |      |      |      |      |      | 76.6 | 78.7 |
| 128                                                                                                                                                                                   |     |     |     |      |      |      |      |      |      |      | 72   |



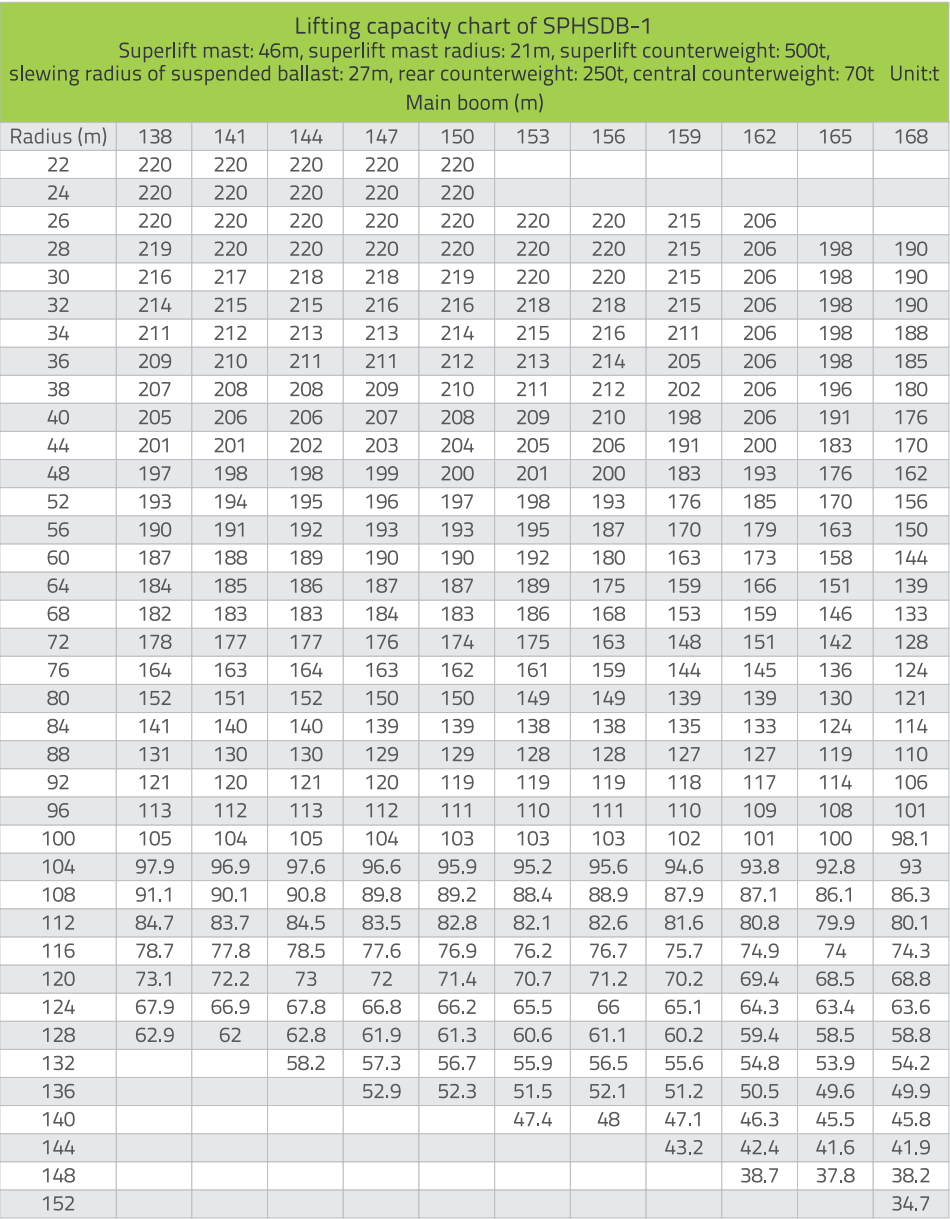
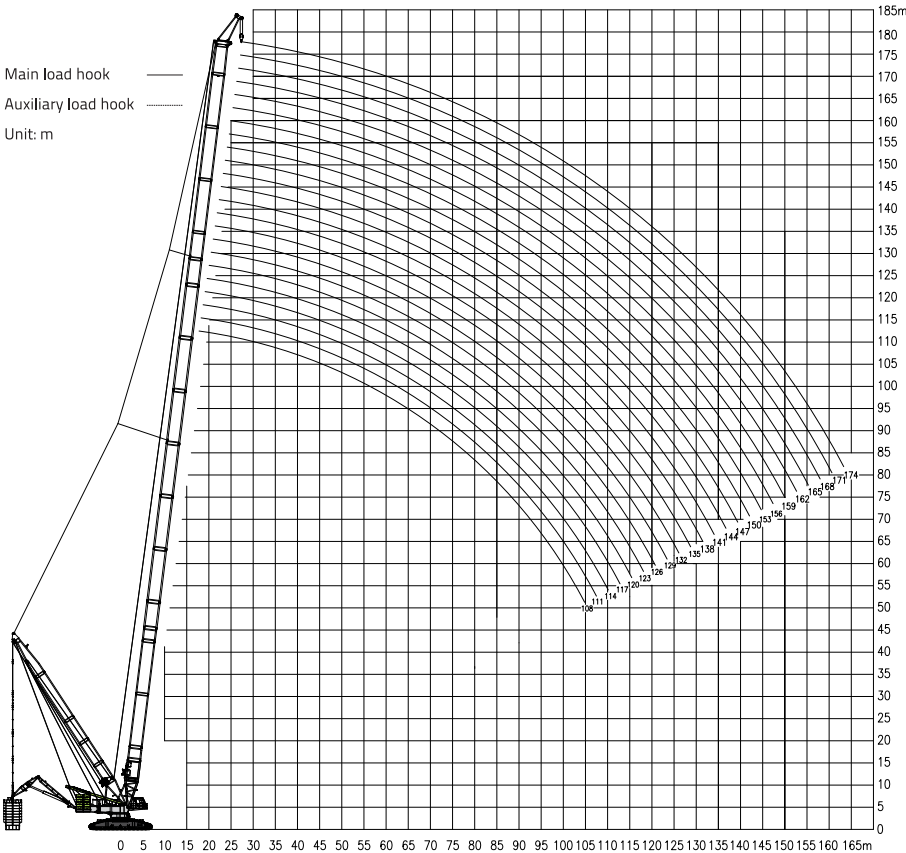
4. LIFTING PERFORMANCE

4.6 Lifting capacity charts of SLHSDB-1



4. LIFTING PERFORMANCE

4.7 Hoisting height curves and lifting capacity charts of SPHSDB-1 / SPHSDB-2



4. LIFTING PERFORMANCE

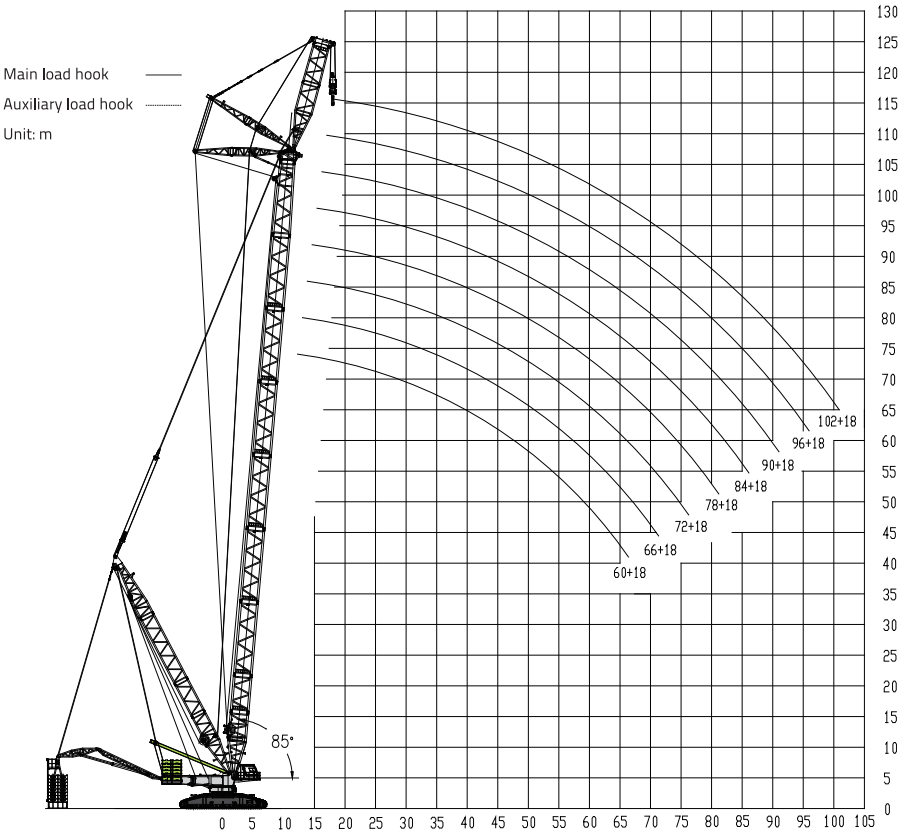
4.7 Lifting capacity charts of SPHSDB-1/ SPHSDB-2

| Lifting capacity chart of SPHSDB-1                                                                                                                                                      |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Superlift mast: 46m, superlift mast radius: 21m, superlift counterweight: 500t, slewing radius of suspended ballast: 27m, rear counterweight: 250t, central counterweight: 70t   Unit:t |      |      |
| Main boom (m)                                                                                                                                                                           |      |      |
| Radius (m)                                                                                                                                                                              | 171  | 174  |
| 28                                                                                                                                                                                      | 182  | 175  |
| 30                                                                                                                                                                                      | 182  | 172  |
| 32                                                                                                                                                                                      | 180  | 168  |
| 34                                                                                                                                                                                      | 176  | 163  |
| 36                                                                                                                                                                                      | 171  | 161  |
| 38                                                                                                                                                                                      | 168  | 156  |
| 40                                                                                                                                                                                      | 163  | 153  |
| 44                                                                                                                                                                                      | 156  | 145  |
| 48                                                                                                                                                                                      | 150  | 139  |
| 52                                                                                                                                                                                      | 144  | 133  |
| 56                                                                                                                                                                                      | 138  | 127  |
| 60                                                                                                                                                                                      | 131  | 121  |
| 64                                                                                                                                                                                      | 127  | 116  |
| 68                                                                                                                                                                                      | 122  | 111  |
| 72                                                                                                                                                                                      | 118  | 107  |
| 76                                                                                                                                                                                      | 113  | 103  |
| 80                                                                                                                                                                                      | 109  | 99.2 |
| 84                                                                                                                                                                                      | 106  | 96.3 |
| 88                                                                                                                                                                                      | 103  | 92.7 |
| 92                                                                                                                                                                                      | 98.1 | 89.8 |
| 96                                                                                                                                                                                      | 94.5 | 86.9 |
| 100                                                                                                                                                                                     | 90.5 | 83.3 |
| 104                                                                                                                                                                                     | 86.9 | 79.3 |
| 108                                                                                                                                                                                     | 83.3 | 76.4 |
| 112                                                                                                                                                                                     | 79   | 73.6 |
| 116                                                                                                                                                                                     | 73.2 | 70.7 |
| 120                                                                                                                                                                                     | 67.7 | 66.9 |
| 124                                                                                                                                                                                     | 62.6 | 61.8 |
| 128                                                                                                                                                                                     | 57.7 | 57   |
| 132                                                                                                                                                                                     | 53.2 | 52.4 |
| 136                                                                                                                                                                                     | 48.9 | 48.1 |
| 140                                                                                                                                                                                     | 44.8 | 44   |
| 144                                                                                                                                                                                     | 40.9 | 40.2 |
| 148                                                                                                                                                                                     | 37.2 | 36.5 |
| 152                                                                                                                                                                                     | 33.7 | 33   |
| 156                                                                                                                                                                                     | 30.3 | 29.6 |

| Lifting capacity chart of SPHSDB-2                                                                                                                                                      |      |      |      |      |      |      |      |      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|--|
| Superlift mast: 46m, superlift mast radius: 21m, superlift counterweight: 500t, slewing radius of suspended ballast: 27m, rear counterweight: 250t, central counterweight: 70t   Unit:t |      |      |      |      |      |      |      |      |  |
| Main boom (m)                                                                                                                                                                           |      |      |      |      |      |      |      |      |  |
| Radius (m)                                                                                                                                                                              | 138  | 141  | 144  | 147  | 150  | 153  | 156  | 159  |  |
| 22                                                                                                                                                                                      | 270  | 270  | 270  | 270  | 270  |      |      |      |  |
| 24                                                                                                                                                                                      | 270  | 270  | 270  | 270  | 270  | 270  | 268  | 253  |  |
| 26                                                                                                                                                                                      | 270  | 270  | 270  | 270  | 270  | 270  | 268  | 253  |  |
| 28                                                                                                                                                                                      | 270  | 270  | 270  | 270  | 270  | 270  | 268  | 253  |  |
| 30                                                                                                                                                                                      | 267  | 267  | 268  | 269  | 270  | 270  | 268  | 253  |  |
| 32                                                                                                                                                                                      | 264  | 264  | 265  | 266  | 267  | 267  | 268  | 253  |  |
| 34                                                                                                                                                                                      | 261  | 261  | 262  | 263  | 264  | 265  | 265  | 253  |  |
| 36                                                                                                                                                                                      | 258  | 259  | 260  | 260  | 261  | 262  | 263  | 253  |  |
| 38                                                                                                                                                                                      | 255  | 256  | 257  | 258  | 258  | 259  | 260  | 253  |  |
| 40                                                                                                                                                                                      | 252  | 253  | 254  | 255  | 256  | 257  | 258  | 252  |  |
| 44                                                                                                                                                                                      | 247  | 248  | 249  | 250  | 251  | 252  | 253  | 250  |  |
| 48                                                                                                                                                                                      | 243  | 244  | 245  | 246  | 246  | 247  | 248  | 243  |  |
| 52                                                                                                                                                                                      | 238  | 239  | 240  | 241  | 242  | 243  | 244  | 233  |  |
| 56                                                                                                                                                                                      | 234  | 235  | 236  | 237  | 238  | 238  | 234  | 221  |  |
| 60                                                                                                                                                                                      | 225  | 223  | 222  | 219  | 218  | 217  | 216  | 210  |  |
| 64                                                                                                                                                                                      | 206  | 204  | 203  | 200  | 199  | 198  | 197  | 196  |  |
| 68                                                                                                                                                                                      | 189  | 187  | 186  | 183  | 182  | 181  | 180  | 180  |  |
| 72                                                                                                                                                                                      | 174  | 172  | 171  | 168  | 167  | 167  | 165  | 165  |  |
| 76                                                                                                                                                                                      | 160  | 158  | 157  | 155  | 154  | 153  | 152  | 151  |  |
| 80                                                                                                                                                                                      | 148  | 146  | 145  | 143  | 142  | 141  | 140  | 139  |  |
| 84                                                                                                                                                                                      | 137  | 135  | 134  | 131  | 131  | 130  | 129  | 128  |  |
| 88                                                                                                                                                                                      | 126  | 125  | 124  | 121  | 120  | 120  | 119  | 118  |  |
| 92                                                                                                                                                                                      | 117  | 115  | 115  | 112  | 111  | 111  | 109  | 109  |  |
| 96                                                                                                                                                                                      | 108  | 107  | 106  | 103  | 103  | 102  | 101  | 100  |  |
| 100                                                                                                                                                                                     | 101  | 99.2 | 98.3 | 95.8 | 94.9 | 94.4 | 93.4 | 92.9 |  |
| 104                                                                                                                                                                                     | 93.4 | 91.8 | 91   | 88.4 | 87.6 | 87.1 | 86.1 | 85.6 |  |
| 108                                                                                                                                                                                     | 86.5 | 85   | 84.2 | 81.6 | 80.8 | 80.3 | 79.3 | 78.8 |  |
| 112                                                                                                                                                                                     | 80.1 | 78.6 | 77.8 | 75.2 | 74.4 | 74   | 73   | 72.5 |  |
| 116                                                                                                                                                                                     | 74.2 | 72.6 | 71.8 | 69.3 | 68.5 | 68   | 67.1 | 66.6 |  |
| 120                                                                                                                                                                                     | 68.5 | 67   | 66.3 | 63.7 | 62.9 | 62.5 | 61.5 | 61.1 |  |
| 124                                                                                                                                                                                     | 63.3 | 61.8 | 61   | 58.5 | 57.7 | 57.3 | 56.3 | 55.9 |  |
| 128                                                                                                                                                                                     | 58.3 | 56.8 | 56   | 53.5 | 52.8 | 52.3 | 51.4 | 51   |  |
| 132                                                                                                                                                                                     |      |      | 51.4 | 48.8 | 48.1 | 47.7 | 46.8 | 46.4 |  |
| 136                                                                                                                                                                                     |      |      |      | 44.4 | 43.7 | 43.3 | 42.4 | 42   |  |
| 140                                                                                                                                                                                     |      |      |      |      |      | 39.1 | 38.2 | 37.8 |  |
| 144                                                                                                                                                                                     |      |      |      |      |      |      |      | 33.9 |  |

4. LIFTING PERFORMANCE

4.8 Hoisting height curves and lifting capacity charts of SFVDB



| Lifting capacity chart of SFVDB 12°                                                                                                              |     |     |     |     |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|------|------|------|------|
| Jib: 18m Counterweight of super lift: 500t Slewing radius of suspended ballast: 27m<br>Rear counterweight: 250t   Central ballast: 70t   Unit: t |     |     |     |     |      |      |      |      |
| Main boom (m)                                                                                                                                    |     |     |     |     |      |      |      |      |
| Radius (m)                                                                                                                                       | 60  | 66  | 72  | 78  | 84   | 90   | 96   | 102  |
| 15                                                                                                                                               | 650 |     |     |     |      |      |      |      |
| 16                                                                                                                                               | 650 | 650 |     |     |      |      |      |      |
| 17                                                                                                                                               | 650 | 650 | 650 | 650 |      |      |      |      |
| 18                                                                                                                                               | 650 | 650 | 650 | 650 | 575  | 518  |      |      |
| 19                                                                                                                                               | 650 | 650 | 650 | 648 | 572  | 516  | 469  | 376  |
| 20                                                                                                                                               | 650 | 650 | 650 | 646 | 570  | 513  | 467  | 375  |
| 21                                                                                                                                               | 650 | 650 | 650 | 643 | 567  | 511  | 464  | 373  |
| 22                                                                                                                                               | 650 | 650 | 650 | 642 | 564  | 509  | 462  | 371  |
| 24                                                                                                                                               | 650 | 650 | 650 | 635 | 556  | 503  | 457  | 368  |
| 26                                                                                                                                               | 650 | 647 | 629 | 609 | 553  | 498  | 451  | 363  |
| 28                                                                                                                                               | 608 | 598 | 583 | 566 | 547  | 492  | 446  | 358  |
| 30                                                                                                                                               | 563 | 555 | 543 | 527 | 511  | 486  | 433  | 353  |
| 32                                                                                                                                               | 523 | 517 | 507 | 493 | 479  | 463  | 429  | 348  |
| 34                                                                                                                                               | 487 | 482 | 474 | 462 | 449  | 435  | 421  | 344  |
| 36                                                                                                                                               | 454 | 451 | 445 | 434 | 423  | 410  | 397  | 337  |
| 38                                                                                                                                               | 425 | 423 | 418 | 409 | 399  | 387  | 375  | 334  |
| 40                                                                                                                                               | 398 | 398 | 394 | 386 | 377  | 366  | 355  | 329  |
| 44                                                                                                                                               | 351 | 352 | 351 | 345 | 338  | 329  | 319  | 312  |
| 48                                                                                                                                               | 310 | 313 | 314 | 310 | 304  | 296  | 288  | 283  |
| 52                                                                                                                                               | 274 | 279 | 281 | 279 | 275  | 268  | 262  | 257  |
| 56                                                                                                                                               | 243 | 249 | 252 | 251 | 249  | 243  | 238  | 234  |
| 60                                                                                                                                               | 214 | 222 | 226 | 227 | 225  | 221  | 217  | 214  |
| 64                                                                                                                                               | 188 | 197 | 203 | 204 | 204  | 201  | 197  | 196  |
| 68                                                                                                                                               | 163 | 174 | 181 | 184 | 185  | 183  | 180  | 179  |
| 72                                                                                                                                               |     | 152 | 161 | 165 | 167  | 166  | 164  | 163  |
| 76                                                                                                                                               |     | 130 | 141 | 147 | 150  | 150  | 149  | 149  |
| 80                                                                                                                                               |     |     | 123 | 130 | 134  | 135  | 135  | 136  |
| 84                                                                                                                                               |     |     |     | 113 | 119  | 121  | 121  | 123  |
| 88                                                                                                                                               |     |     |     |     | 104  | 107  | 109  | 111  |
| 92                                                                                                                                               |     |     |     |     | 89.4 | 94.2 | 96.7 | 100  |
| 96                                                                                                                                               |     |     |     |     |      | 81   | 84.9 | 89.4 |
| 100                                                                                                                                              |     |     |     |     |      |      | 73.1 | 78.7 |
| 104                                                                                                                                              |     |     |     |     |      |      |      | 68.2 |
| 108                                                                                                                                              |     |     |     |     |      |      |      | 57.6 |



**ZOOMLION**  
**CRAWLER CRANE**

