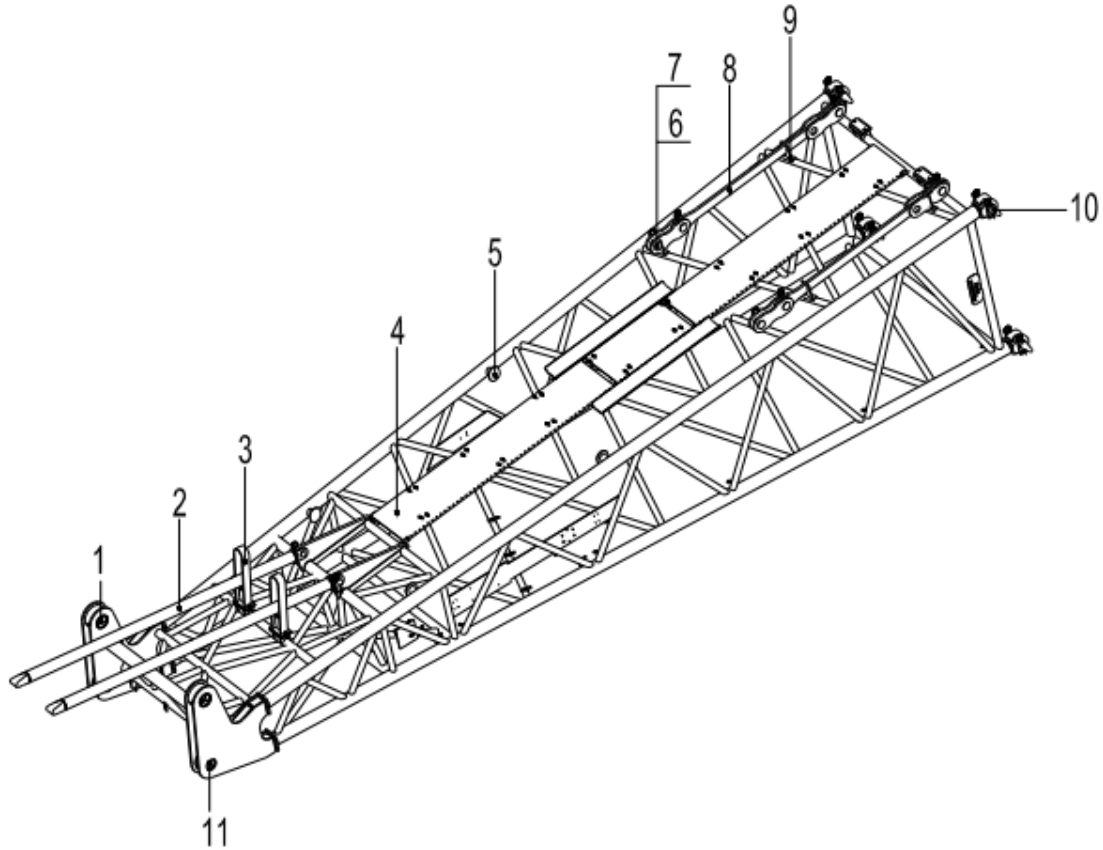


### 3.5 Working condition combination of derricking jib

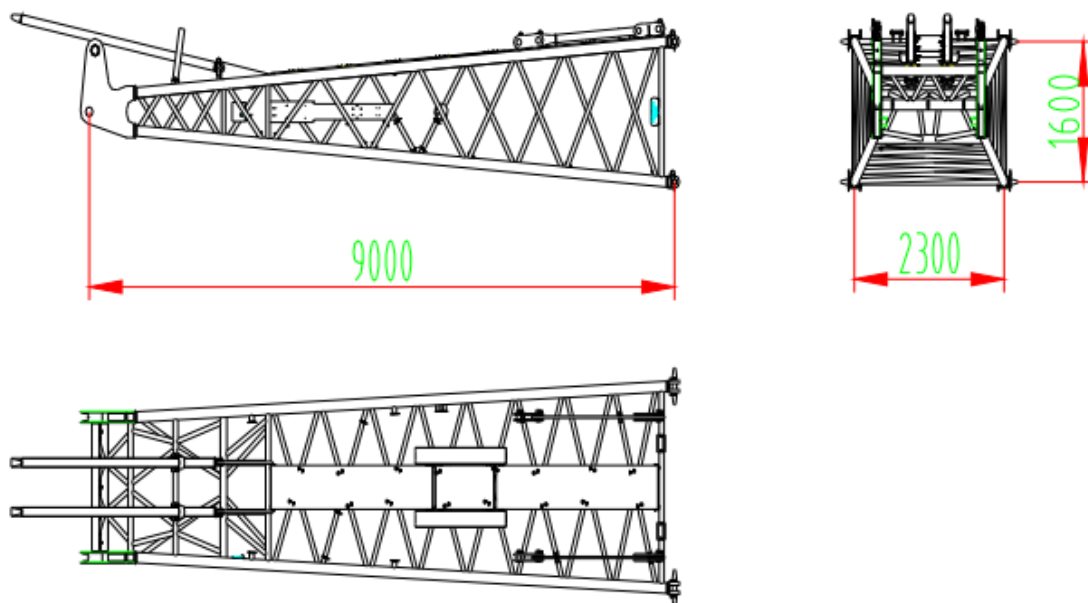
#### 3.5.1 Structural diagram of each section for derricking jib working condition

Lower section of derricking jib 2316A



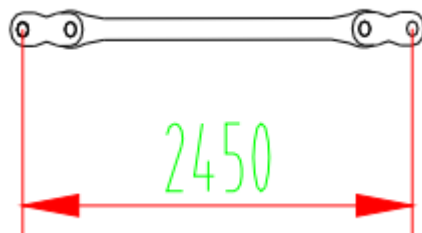
S/N	No.	Name	Qty	S/N	No.	Name	Qty
1		Derricking mast connecting hole	2	7	101	Clip TL021.006.00	4
2		Anti-overturn stay bar	2	8	121	Drawplate	10
3		Anti-overturn support	2	9		Drawplate bracket	2
4		Pedal	-	10		Arm rack coupling pin	4
5		Hoisting base	4	11		Jib & boom connecting hole	
6	100	Pin XZ70×100-A6	6				

### Dimension of lower section of derricking jib 2316A

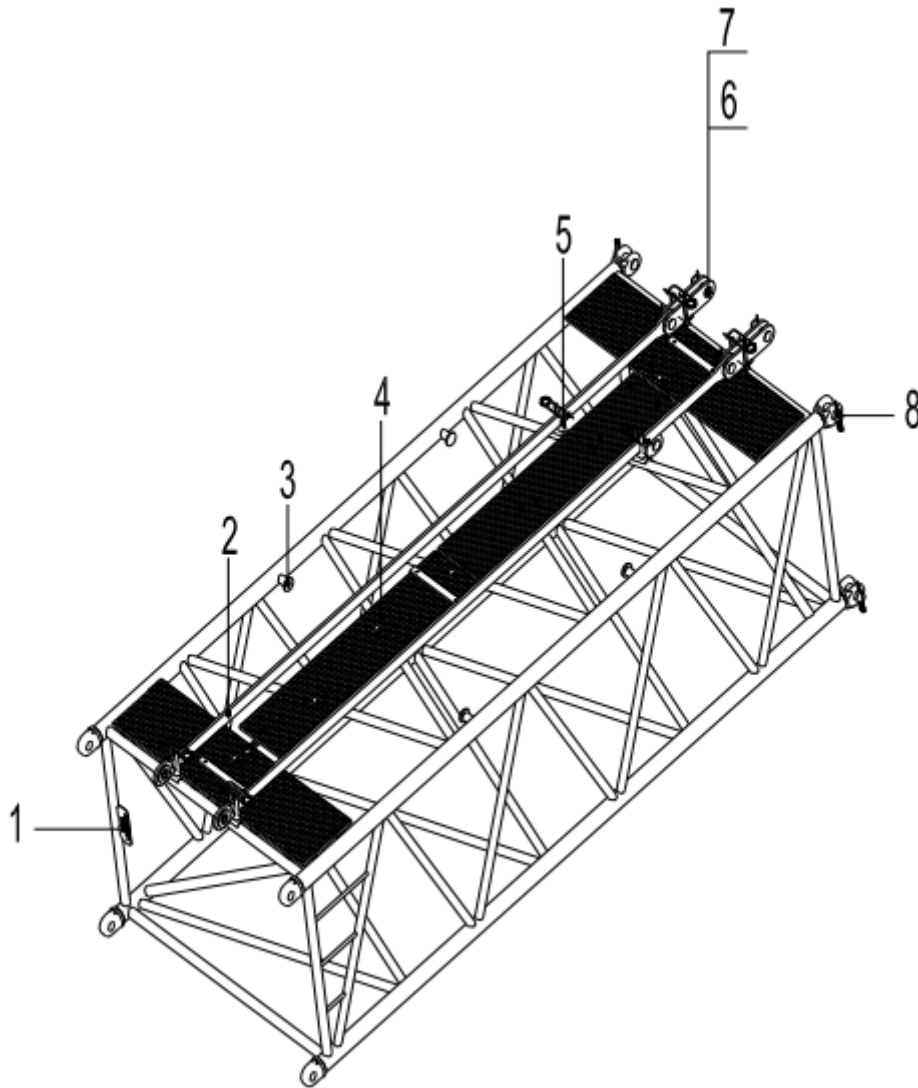


### Dimension of drawplate of lower section of derricking jib

#### Drawplate 121

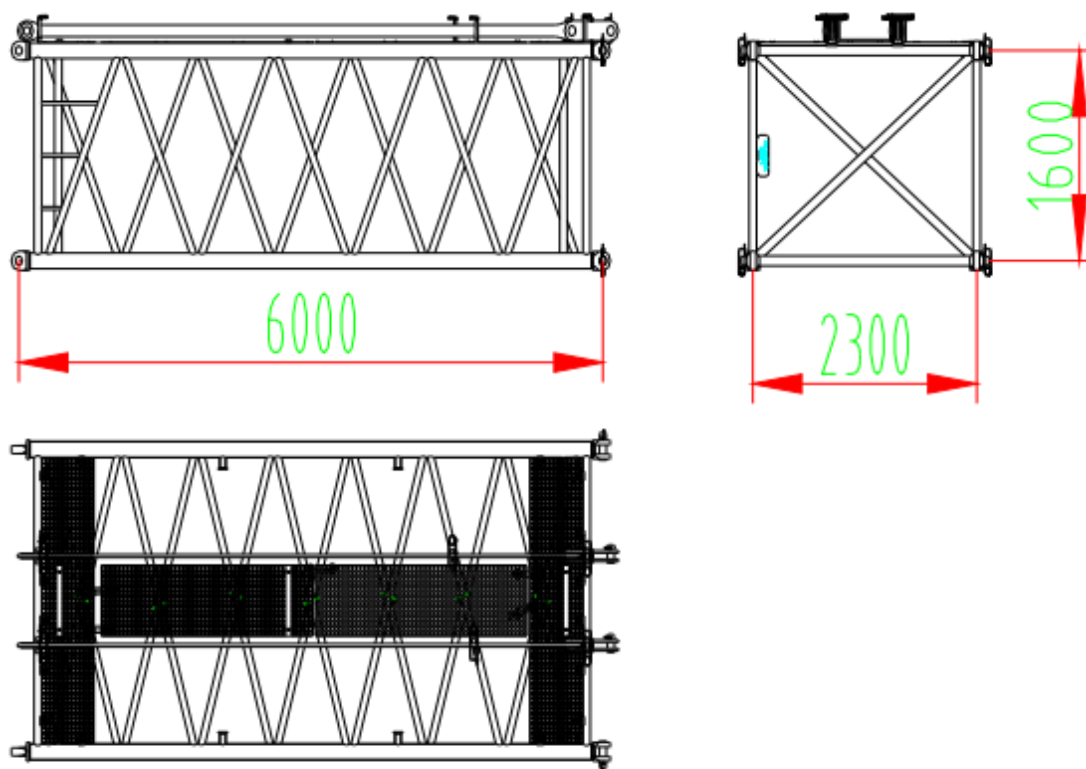


6m intermediate section of derricking jib 2316A



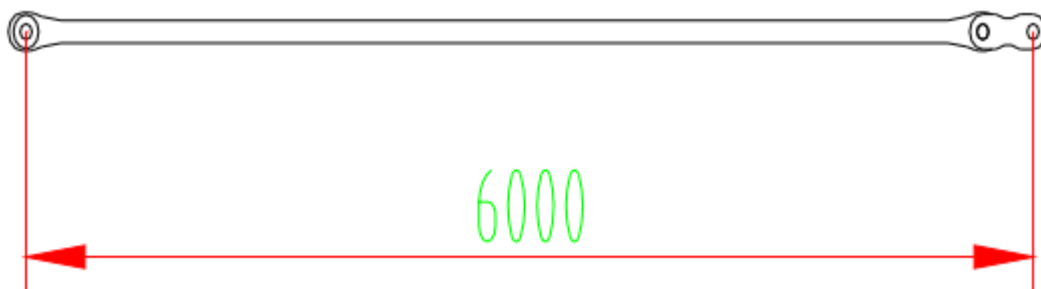
S/N	No.	Name	Qty	S/N	No.	Name	Qty
1		Sign	1	5		Drawplate bracket	6
2	122	Drawplate	2	6	100	Pin XZ70×100-A6	4
3		Hoisting base	4	7	101	Clip TL021.006.00	4
4		Steel grating	-	8		Arm rack coupling pin	4

Dimension of 6m intermediate section of derricking jib 2316A

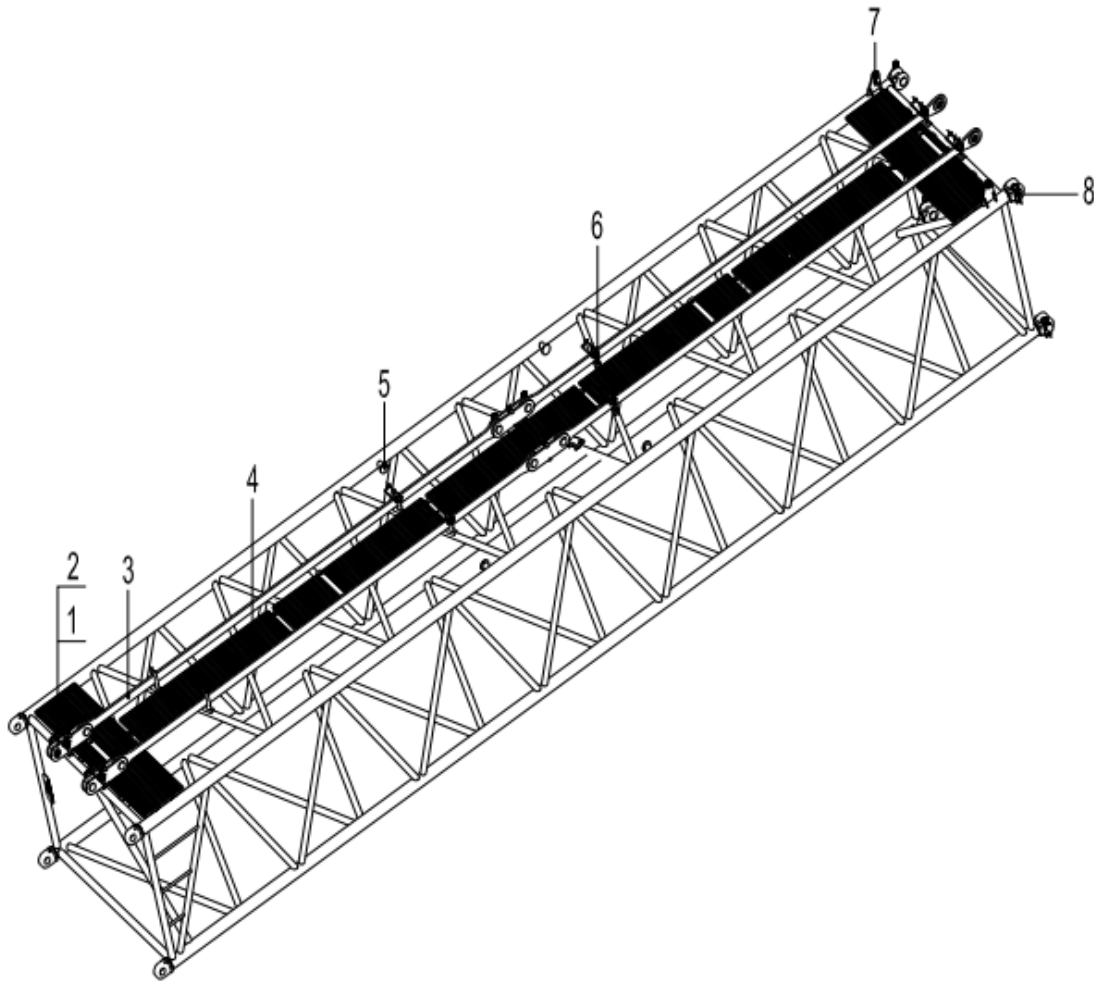


Dimension of drawplate of 6m intermediate section of derricking jib

Drawplate 122

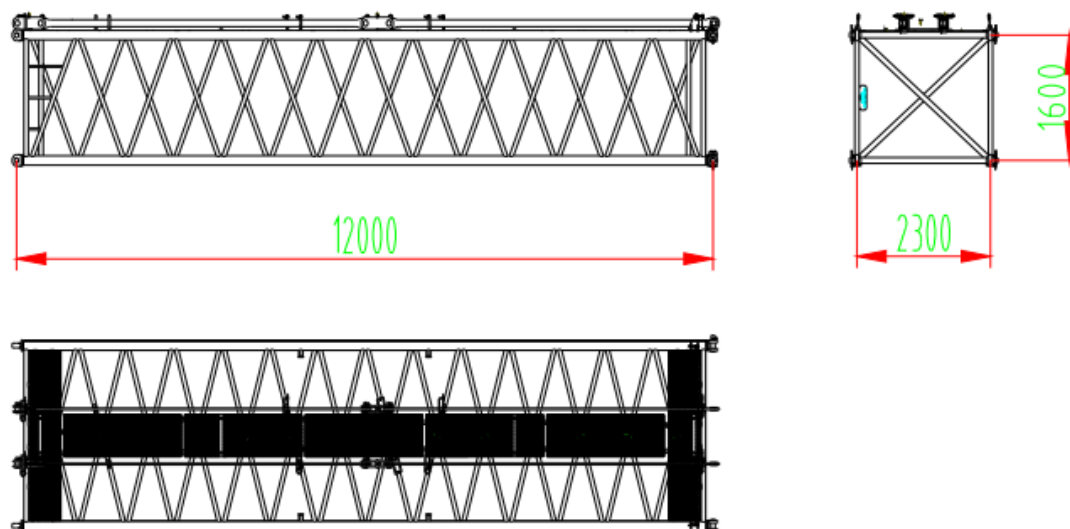


### 12m intermediate section of derricking jib 2316A



S/N	No.	Name	Qty	S/N	No.	Name	Qty
1	100	Pin XZ70×100-A6	4	5		Hoisting base	4
2	101	Clip TL021.006.00	4	6		Drawplate bracket	10
3	123	Drawplate	2	7		Waist rope connecting seat	2
4		Steel grating	-	8		Arm rack coupling pin	4

Dimension of 12m intermediate section of derricking jib 2316A

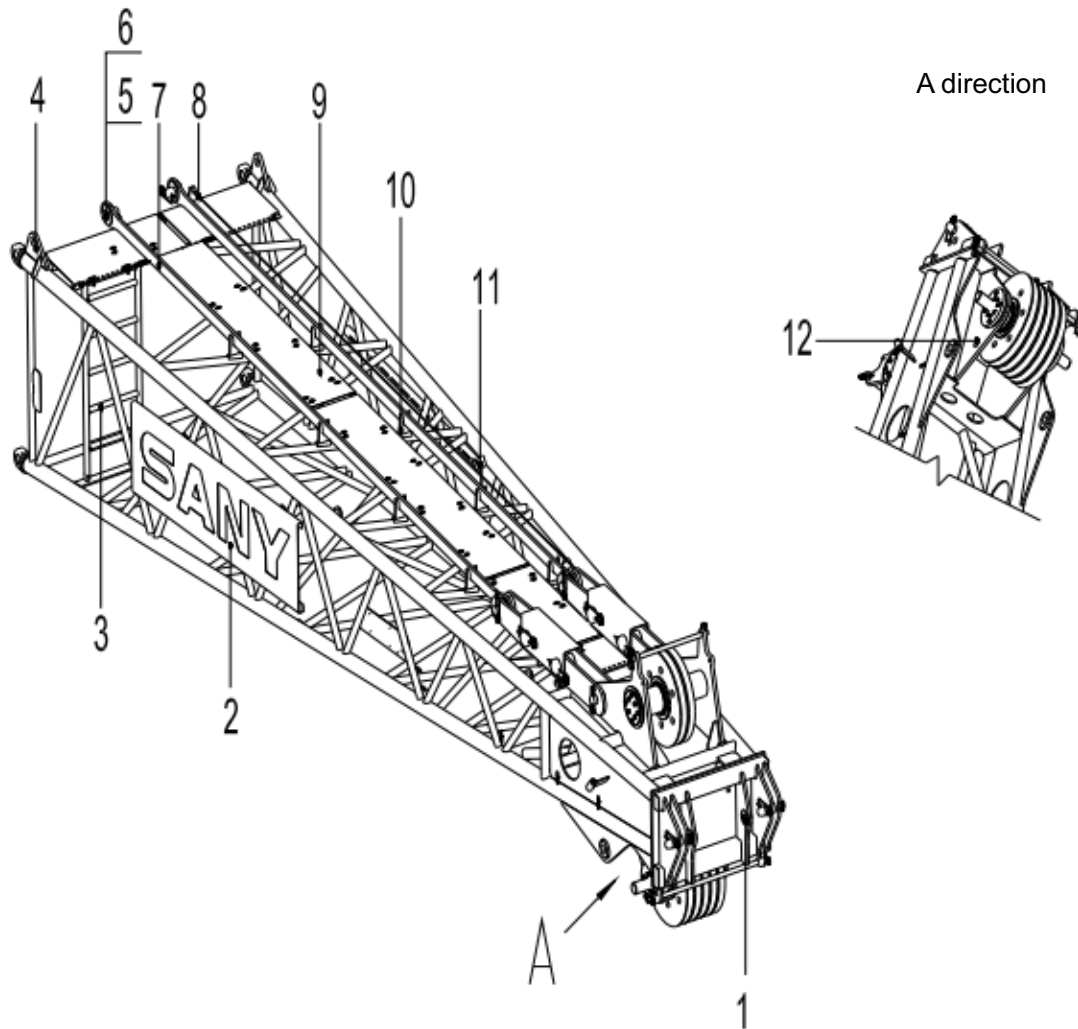


Dimension of drawplate of 12m intermediate section of derricking jib

Drawplate 123

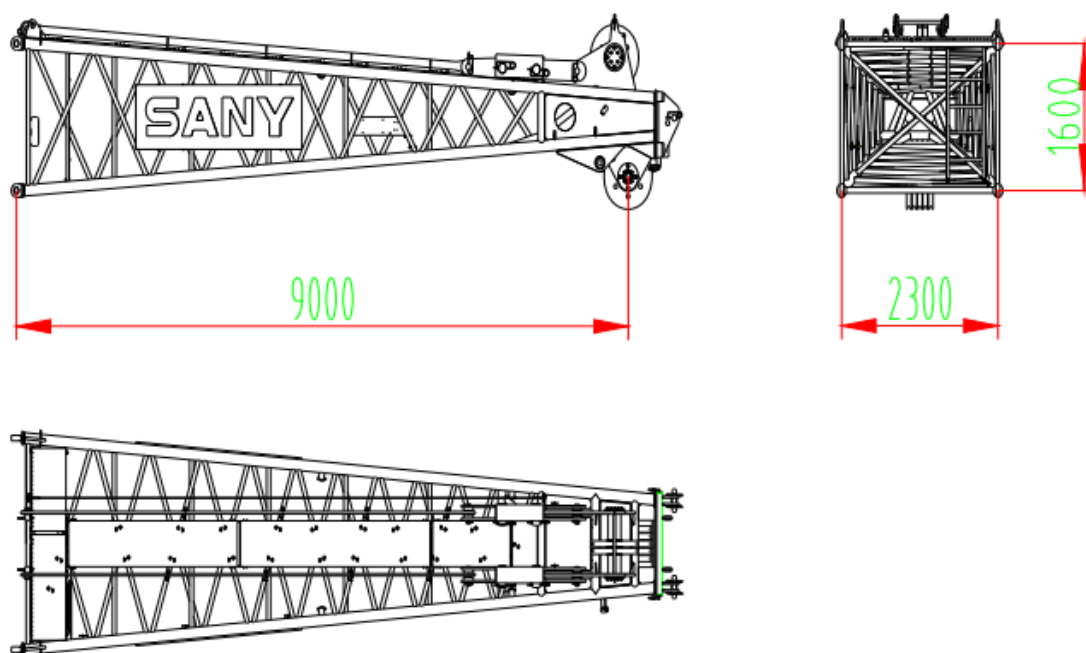


### Upper section of derricking jib 2316A



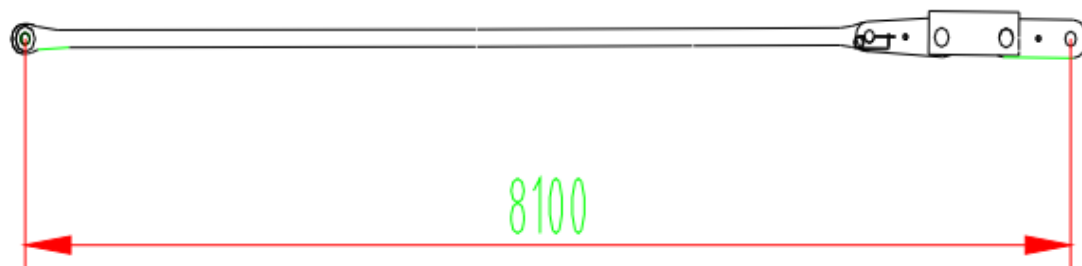
S/N	No.	Name	Qty	S/N	No.	Name	Qty
1		Extension connecting seat boom	2	7	124	Drawplate	2
2		Sign	2	8		Steel rope	1
3		Ladder	1	9		Pedal	-
4		Jib tensioning steel rope connecting seat	2	10		Drawplate bracket	8
5	100	Pin XZ70×100-A6	2	11		Hoisting base	4
6	101	Clip TL021.006.00	2	12		Hook steel rope connecting seat	2

# Dimension of upper section of derricking jib 2316A



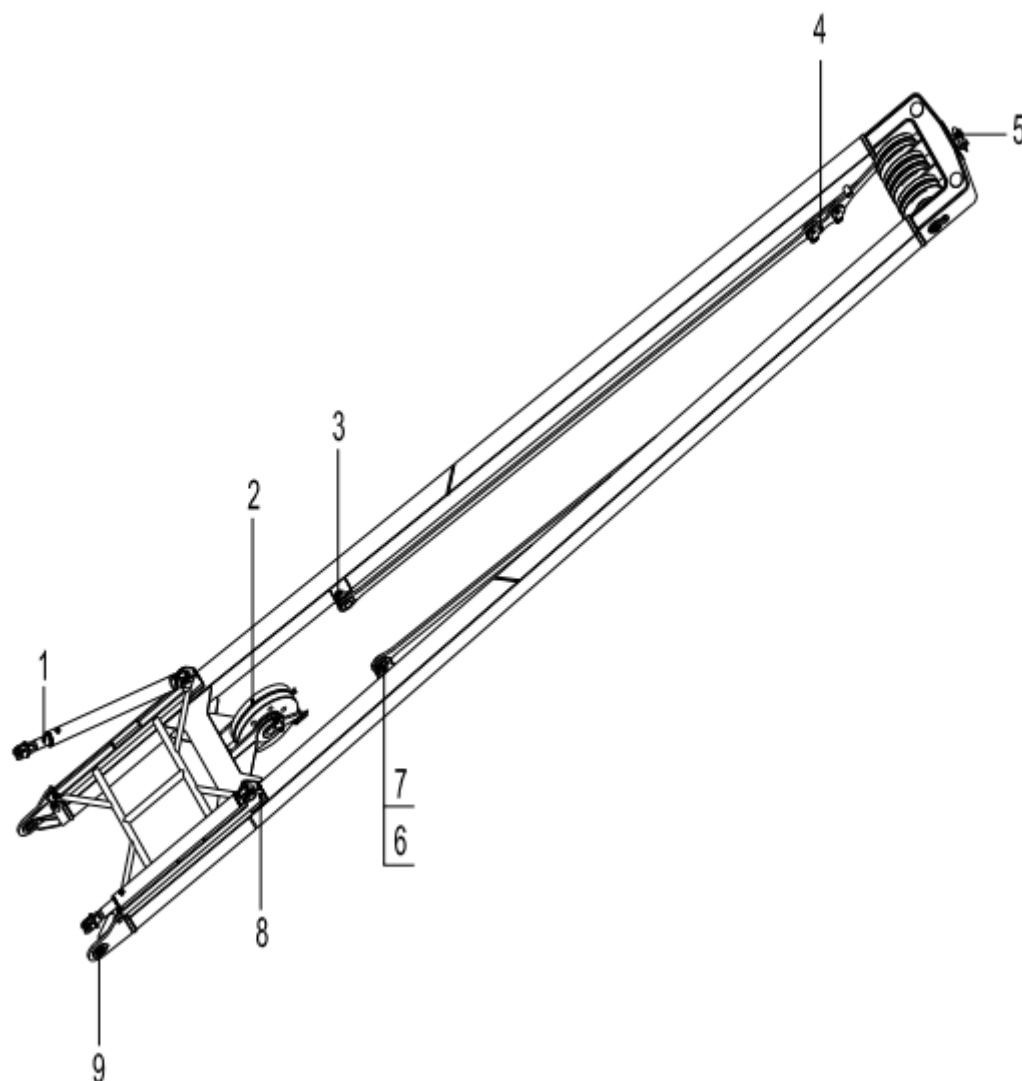
## Dimension of drawplate of upper section of derricking jib

### Drawplate 124



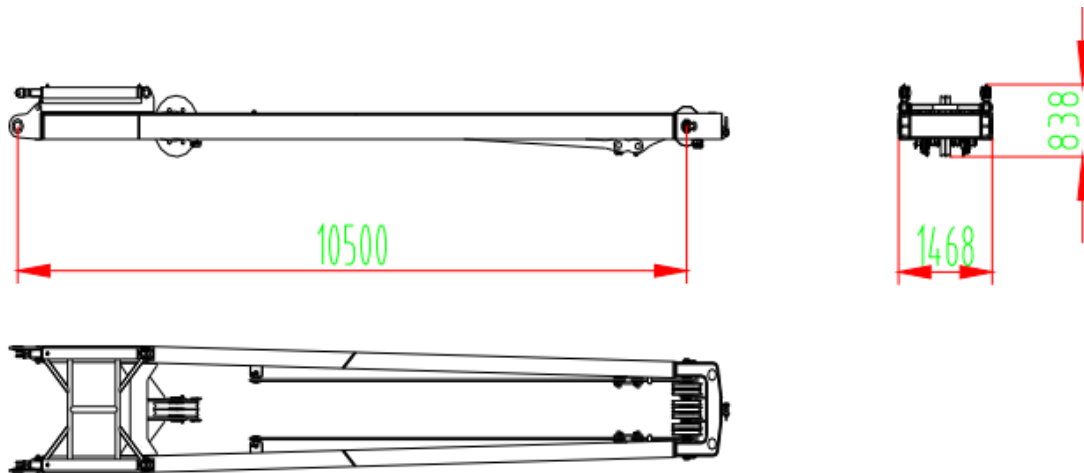


# Front mast of derricking jib



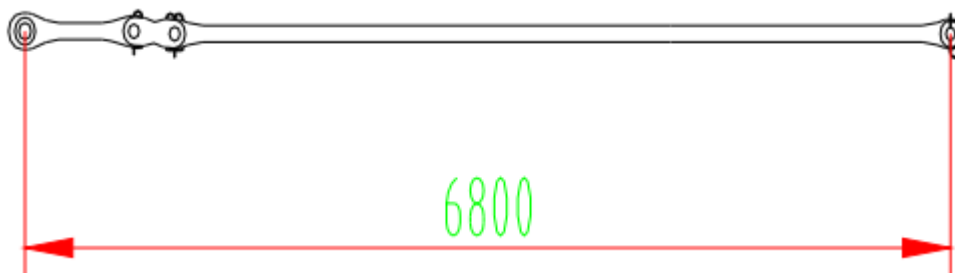
S/N	No.	Name	Qty		S/N	No.	Name	Qty
1		Anti-overturn cylinder	2		6	100	Pin XZ70×100-A6	3
2		Steel rope guide pulley	2		7	101	Clip TL021.006.00	3
3		Drawplate fixing seat	2		8		Rocker bracket	1
4	125	Drawplate	2		9		Front mast & jib connecting lug panel	2
5		Buckle	1					

### Dimension of front mast of derricking jib

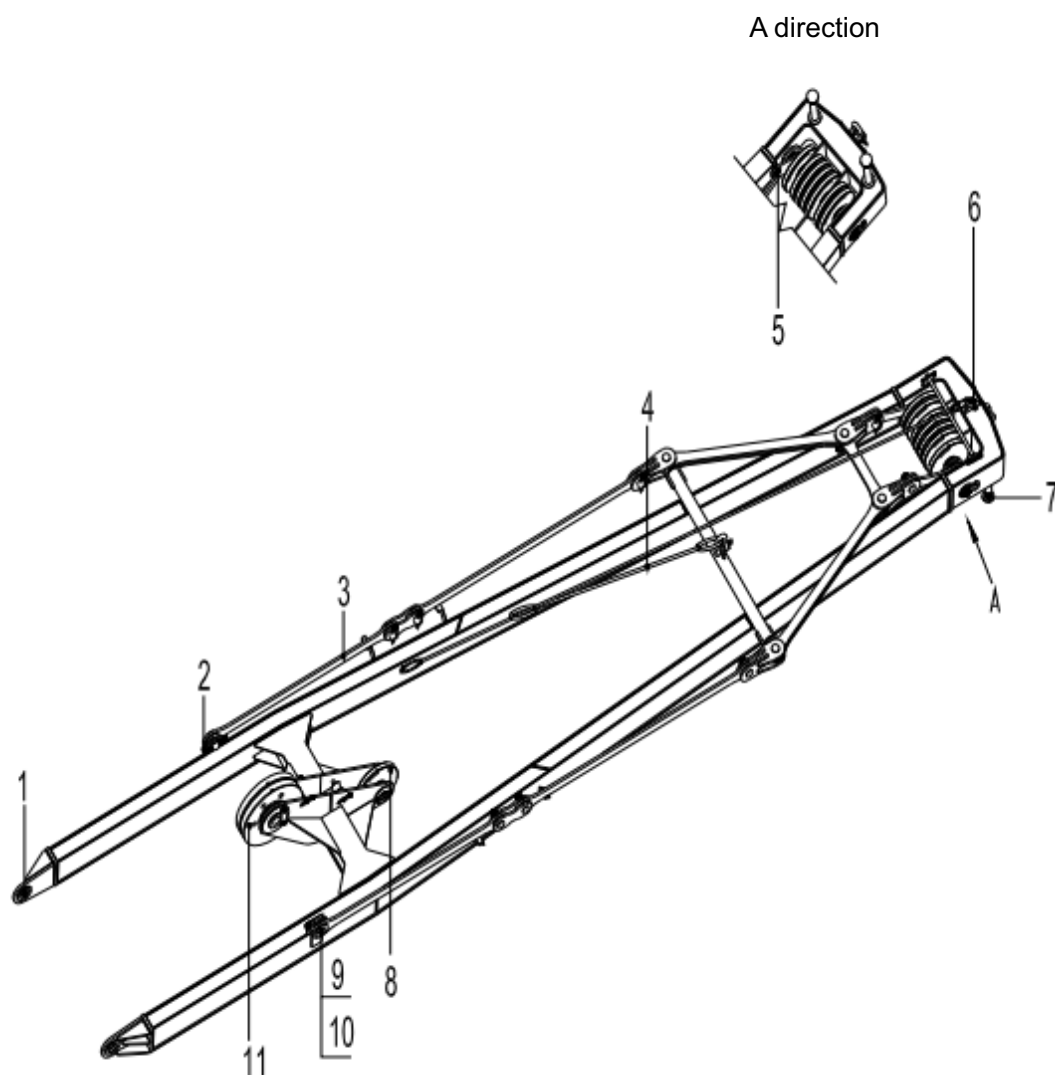


### Dimension of drawplate of front mast of derricking jib

#### Drawplate 125

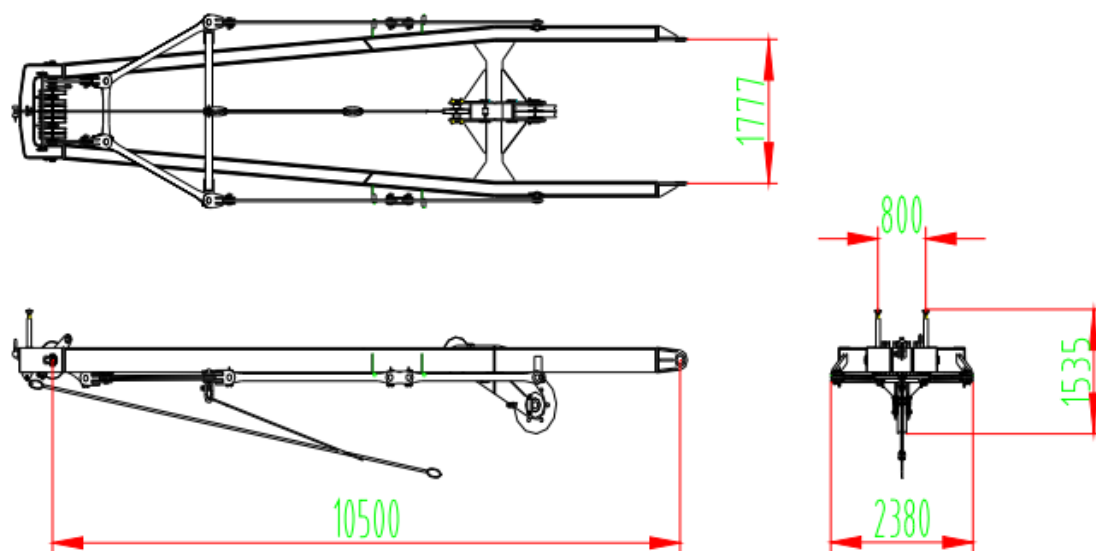


## Rear mast of derricking jib



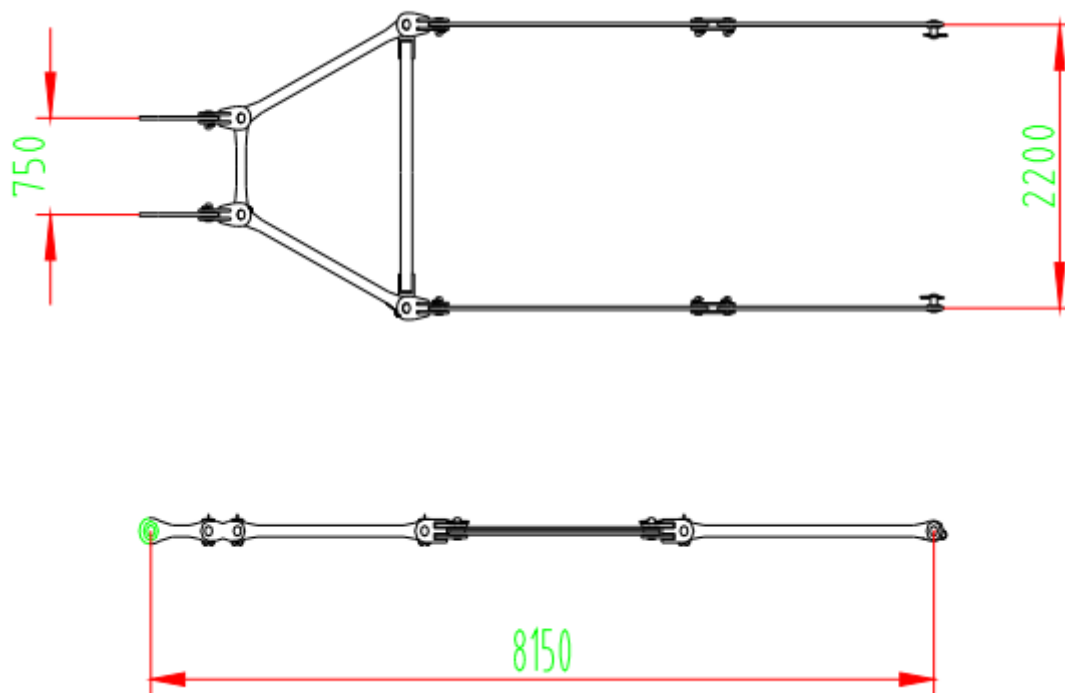
S/N	No.	Name	Qty	S/N	No.	Name	Qty
1		Front mast & jib connecting lug panel	2	7		Outrigger	2
2		Drawplate fixing seat	2	8		Derricking steel rope guide pulley block	1
3	126	Drawplate	2	9	100	Pin XZ70×100-A6	14
4		Steel rope	2	10	101	Clip TL021.006.00	14
5		Derricking steel rope connecting lug panel	2	11		Hoisting steel rope guide pulley block	1
6		Buckle	3	12			

### Dimension of rear mast of derricking jib

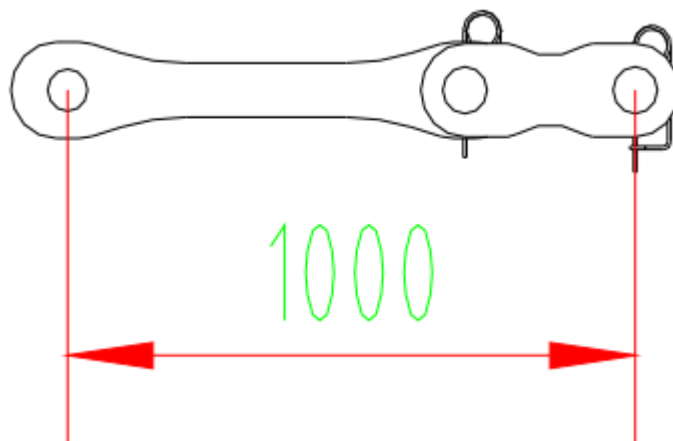


### Dimension of drawplate of rear mast of derricking jib

#### Drawplate 126

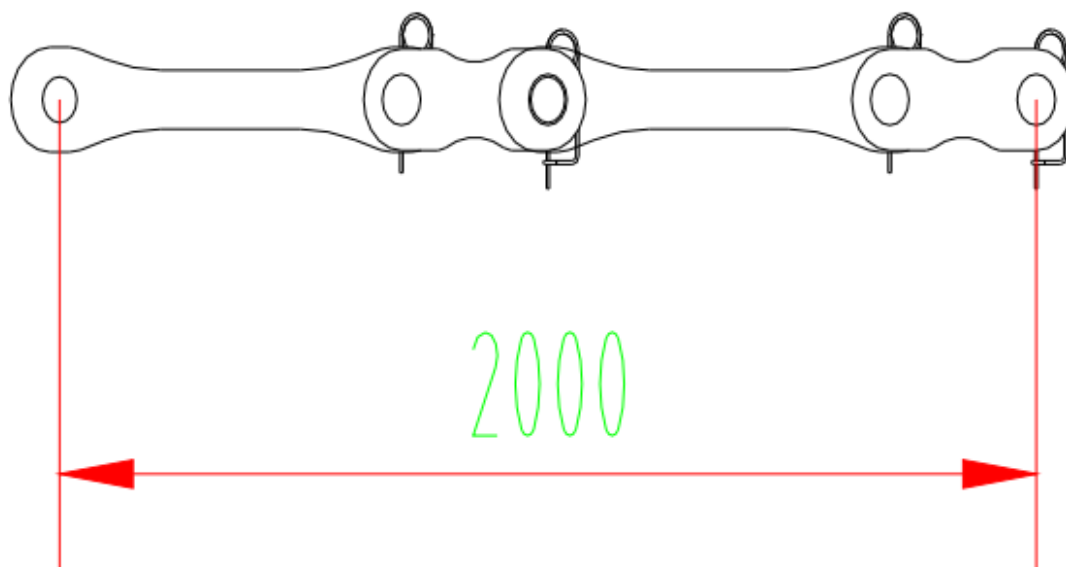


Dimension of additional drawplate of derricking jib, 1000mm (No. 127)

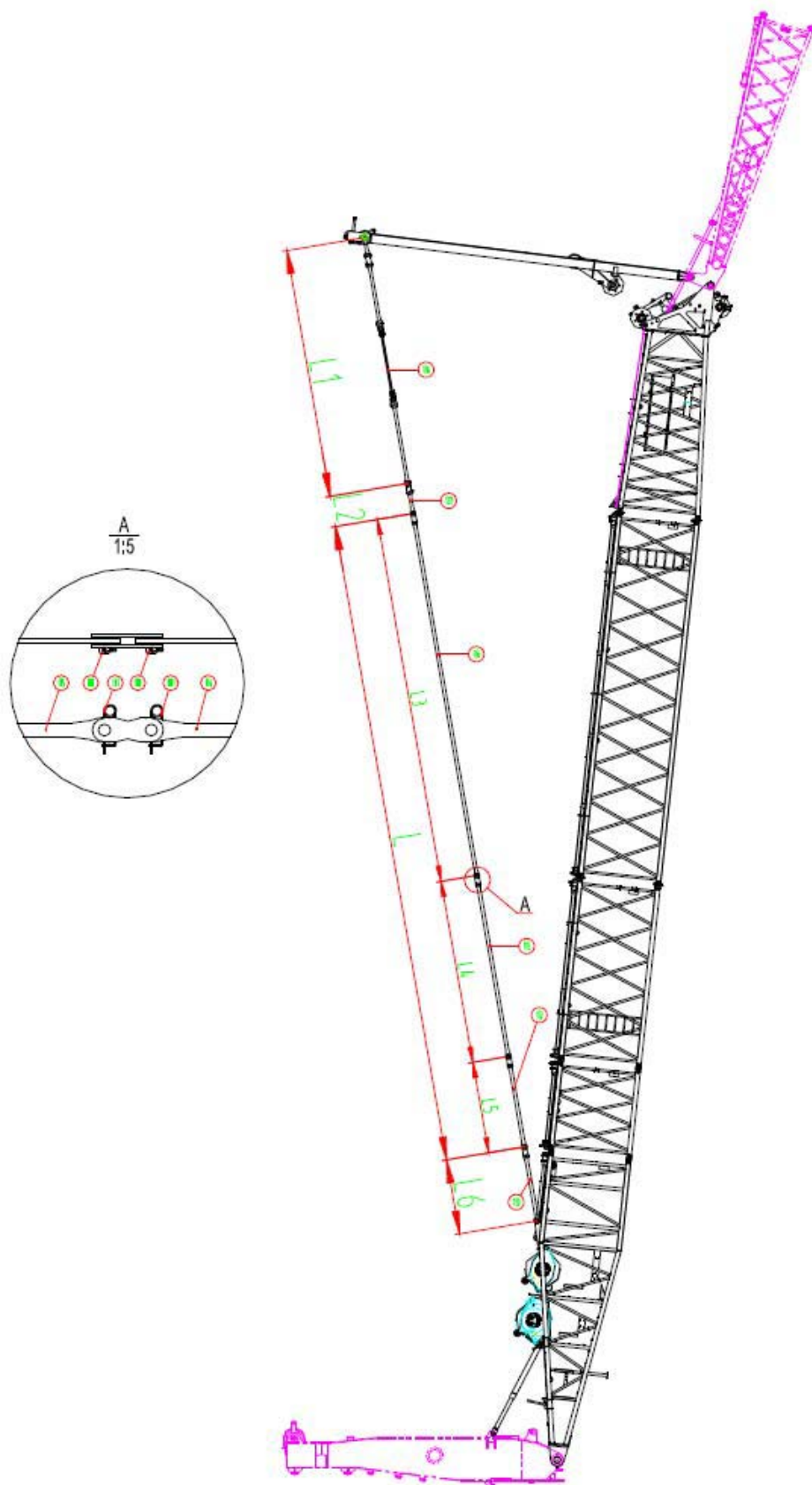


Dimension of additional drawplate of derricking jib, 2000mm

(Note: combined by two 1000mm drawplates)



Configuration diagram of drawplates for derricking jib working condition (I)



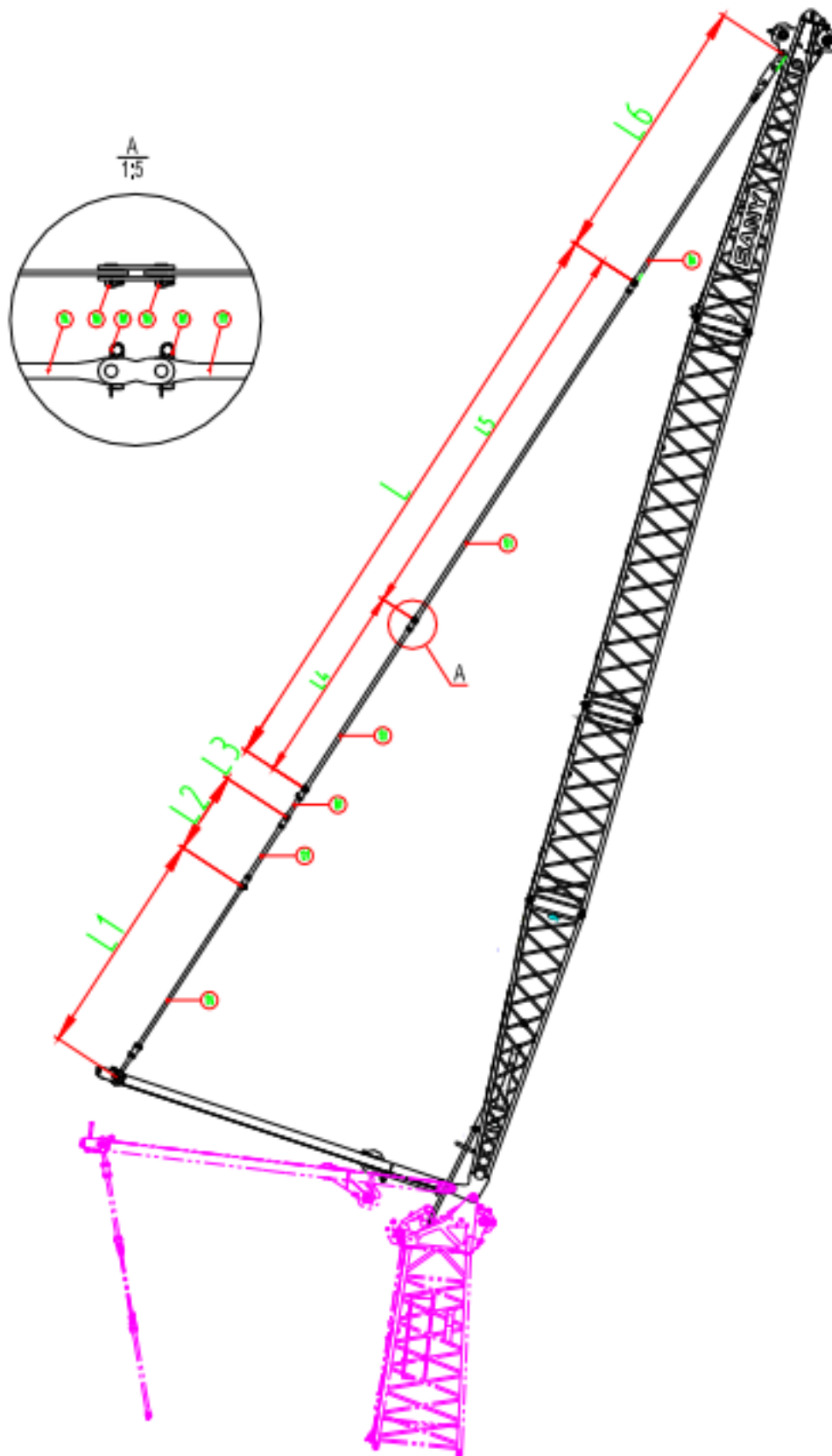


No.	Description		Value
L1	Reducing drawplate on rear mast of derricking jib (No. 126)		8150mm
L2	Additional drawplate on the side of boom for derricking jib working condition (No. 127)		1000mm or 2000mm
L	L3	Drawplate on 3m intermediate section of boom (No. 112)	Total L3 +Total L4 +Total L5
	L4	Drawplate on 6m intermediate section of boom (No. 115)	
	L5	Drawplate on 12m intermediate section of boom (No. 116)	
L6	External drawplate on lower section of boom (No. 110)		2450mm

**Note:**

1. 2000mm additional drawplate is used for the 20m boom;  
The 1000mm additional drawplate is used for the 26m, 32m, 38m and 44m boom.
2. The quantity of drawplates adopted (L3) for 3m intermediate section of boom shall be the same as that of 3m intermediate section adopted for the combination of arm rack.
3. The quantity of drawplates adopted (L4) for 6m intermediate section of boom shall be the same as that of 6m intermediate section adopted for the combination of arm rack.
4. The quantity of drawplates adopted (L5) for 12m intermediate section of boom shall be the same as that of 12m intermediate section adopted for the combination of arm rack.

Configuration diagram of drawplates for derricking jib working condition (II)







No.	Description		Value
L1	Drawplate on front mast of derricking jib (No. 125)		6800mm
L2	Drawplate on lower section of jib (No. 121)		2450mm
L3	Additional drawplate on the side of jib under derricking jib working condition (No. 127)		1000mm or 2000mm
L	L4	Drawplate on 6m intermediate section of jib (No. 122)	Total L4 +Total L5
	L5	Drawplate on 12m intermediate section of jib (No. 123)	
L6	External drawplate on lower section of boom (No. 110)		2450mm

**Note:**

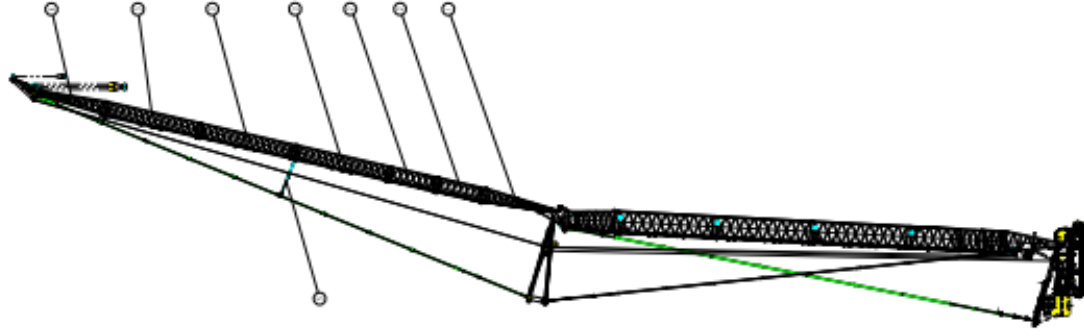
1. The 2000mm additional drawplate is used for the 18m-long jib;  
The 1000mm additional drawplate is used for the 24m, 30m or 36m-long jib.
2. The quantity of drawplates adopted (L4) for 6m intermediate section of jib shall be the same as that of 6m intermediate section adopted for the combination of arm rack.
3. The quantity of drawplates adopted (L5) for 12m intermediate section of jib shall be the same as that of 12m intermediate section adopted for the combination of arm rack.

### 3.5.2 Working condition combination of derricking jib

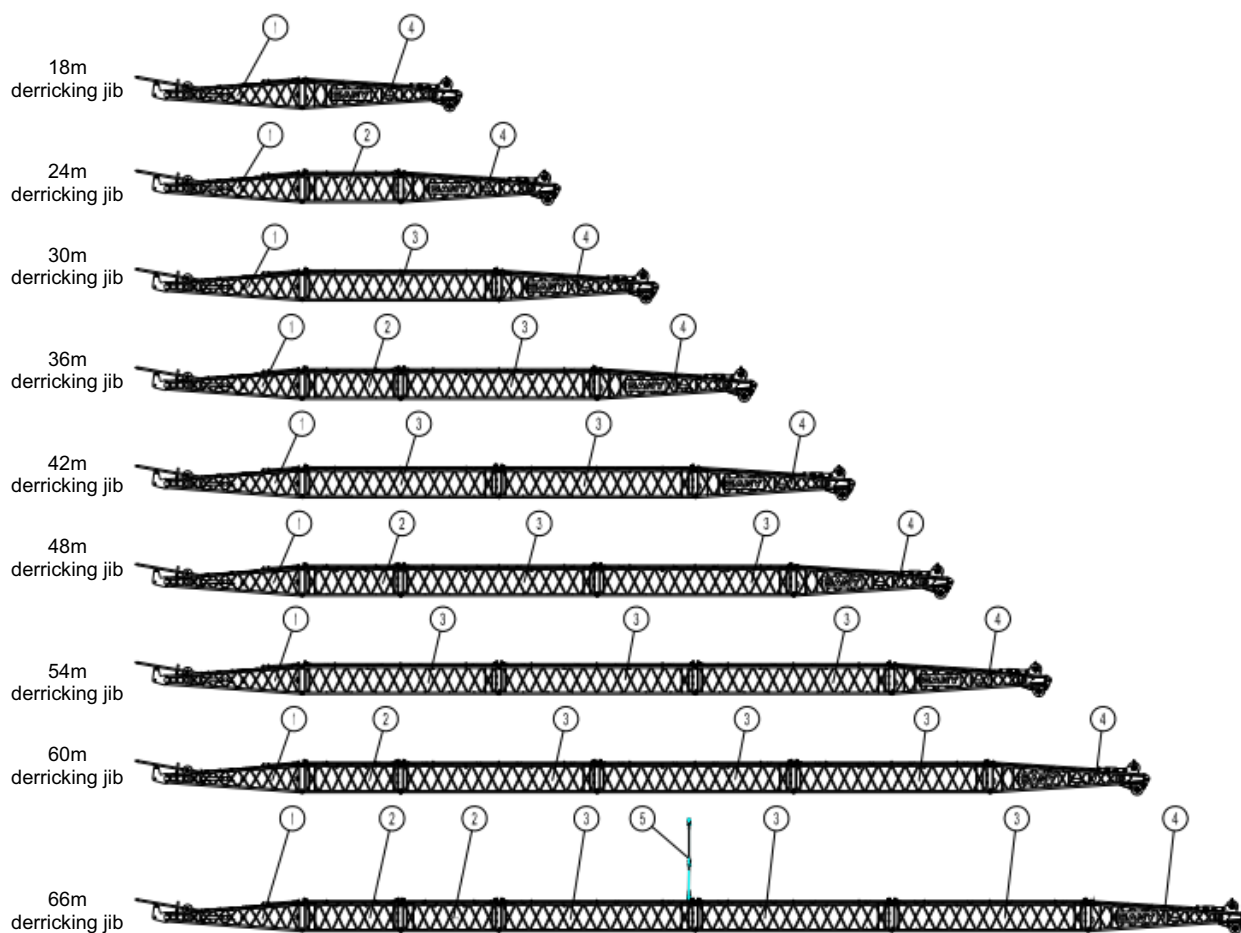
Working condition of derricking jib (LJ)

Under such working condition, the length of boom can be: 20m, 23m, 26m, 29m, 32m, 35m, 38m, 41m, 44m, 47m, 50m, 53m, 56m, 59m, 62m, 65m or 68m. Its combination can refer to the working condition of boom.

S/N	1	2	3	4	5
Code	11502299	11504654	11503921	11504459	11490162
Length of arm rack	Lower section of derricking jib, 9m	Intermediate section of derricking jib, 6m	Intermediate section of derricking jib, 12m	Upper section of derricking jib, 9m	Derricking jib waist rope, 4.825m
18m	1	0	0	1	0
24m	1	1	0	1	0
30m	1	0	1	1	0
36m	1	1	1	1	0
42m	1	0	2	1	0
48m	1	1	2	1	0
54m	1	0	3	1	0
60m	1	1	3	1	0
66m	1	2	3	1	1



Configuration table for derricking jib rack:



### 3.6 LJ Mounting and dismounting of LJ derricking jib



#### NOTICE

When doing all the mounting and dismounting operations, it is required to use the safe scaffold or work platform so as to avoid the accidents.

Never work on the arm rack without protective measures.

It is necessary to support the truss jib by stable materials.

When dismounting the coupling pin, never enter the space under the truss jib.

#### 3.6.1 Summary

Clew: when doing all the mounting operations, it is required to use the safe scaffold or work platform, and it is not allowed to work on the arm rack without protective measures so as to avoid dangerous accident.



#### NOTICE

Prepare the boom as per the arm rack combination list.

Prepare the jib as per the arm rack combination list.

Only the combination stated in the combination list can be adopted.



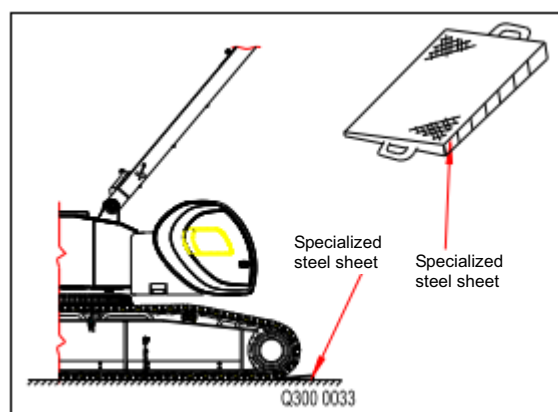
#### DANGER

Check if the arm rack is damaged; never use the arm rack with any defect because the arm rack with defects may be crushed during work, resulting in severe results.

#### Requirements:

- The crane body shall be at horizontal state;
- Applicable auxiliary crane (20t) and scaffolds / working platform used for mounting;
- Set the system safety device according to the load list.
- Withdraw main derricking mast and raise the cylinder before lifting the boom.
- Derricking jib working condition: when the boom is not shorter than 47m, the specialized steel sheet shall be placed in front of crawler (see Fig. Q320 0022).

The above is for the 80t rear counterweight +0t central counterweight.



#### 3.6.2 Lifting of components

The transport of arm racks and sections must be careful so as to avoid damaging the abdomen pipe and

main chord. Each arm section has four lugs which can be used to balance the loads so as to avoid damage during hoisting.



### WARNING

Be cautious of falling of load.

Hoisting lugs on each section of beam can only be used for hoisting this section of beam. No attempt is allowed to use hoisting lugs on one section of beam to hoist two or more adjacent connected sections of beam. Or else, the hoisting lugs might broken and result in the section of beam falling down.

When no hoisting lugs are used:

- Only the main chord, not the abdomen pipe can be used as support during lifting.
- Use the nylon sling. If the steel cable or chain cable is used, a protective layer (such as rubber gasket) shall be laid between the sling and chord pipe.

### 3.6.3 Mounting of derricking jib.



### NOTICE

The mounting of boom under the derricking jib working condition is completely the same as that under boom working condition mentioned above.



### NOTICE

During mounting and dismounting, it is needed to unwind the steel rope of the winch sometimes and in this case, the steel wire tension is quite low or even is zero so it is needed to monitor the winch carefully to prevent the steel rope from disorder. In order to avoid disordered steel rope, some person or traction winch shall be appointed to assist the unwinding of steel rope sometimes. The disordered steel rope of winch is quite difficult to make ordered.

The steel rope of winch shall be unwound under following cases that should be paid attention to:

- The steel rope of auxiliary winch should be unwound when the rear mast of derricking jib is lift up and the hook to be winded;
- The auxiliary derricking steel rope should be unwound when connecting the derricking jib drawplate on the side of boom;
- The auxiliary derricking steel rope should be unwound when winding the derricking steel rope;
- The auxiliary derricking steel rope should be unwound when connecting the derricking jib on the side of jib;
- The auxiliary derricking steel rope should be unwound when lifting up the boom and dropping the derricking jib.

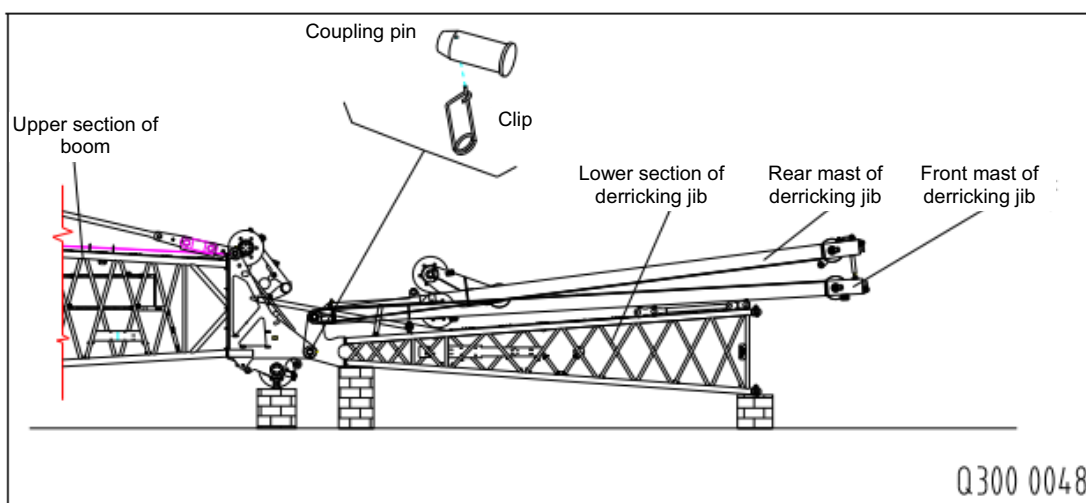
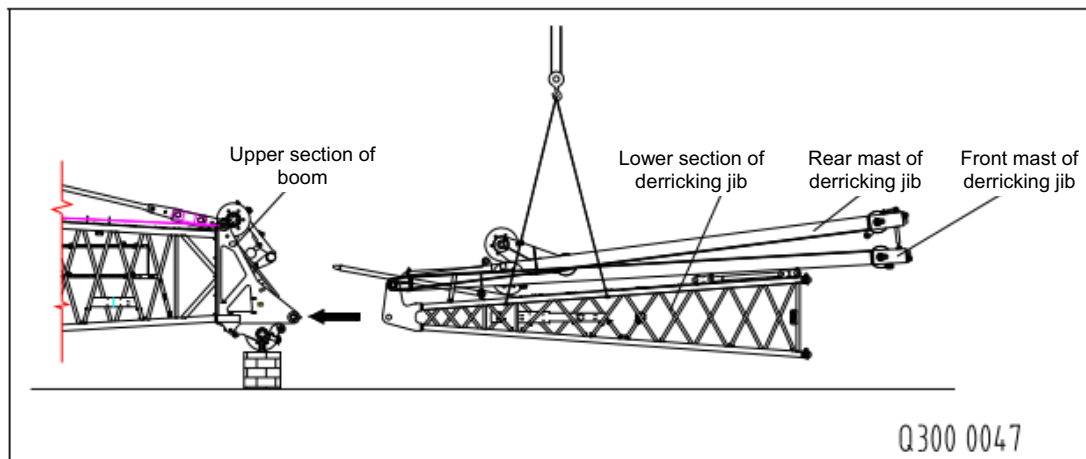
Mounting procedure:

The tower-type boom head assembly consists of the front and rear masts and lower section of derricking jib.

1. Move the tower-type boom head by auxiliary crane to the place on the upper section of boom that can be connected by pins

① Lift up the tower-type boom head assembly (with a weight of about 8,600kg) by auxiliary crane, align the holes, insert the pins from outside, install the assembly on the upper section head of boom, and then fix it by clips (see Fig. Q300 0047 and Q300 0048).

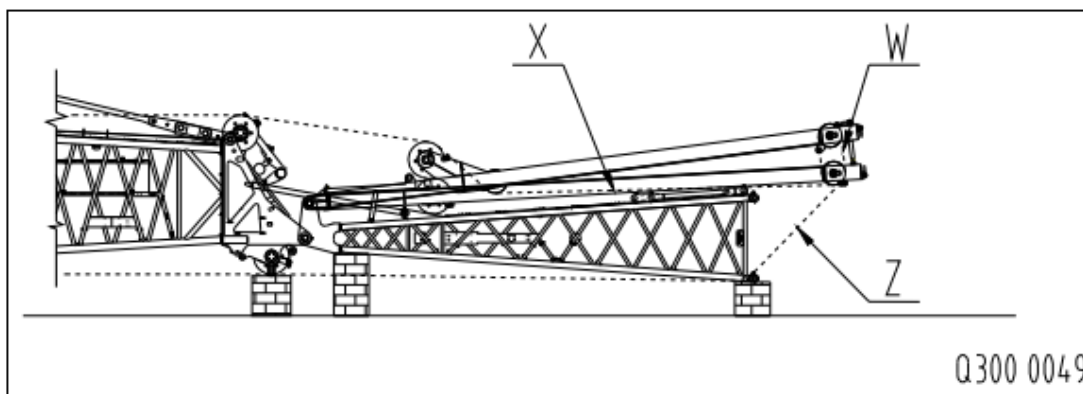
② Drop the assembly onto the ground, and support the bottom of lower section of derricking jib stably (see Fig. Q300 0048).



## 2. Thread the derricking steel rope between the front and rear masts of derricking jib

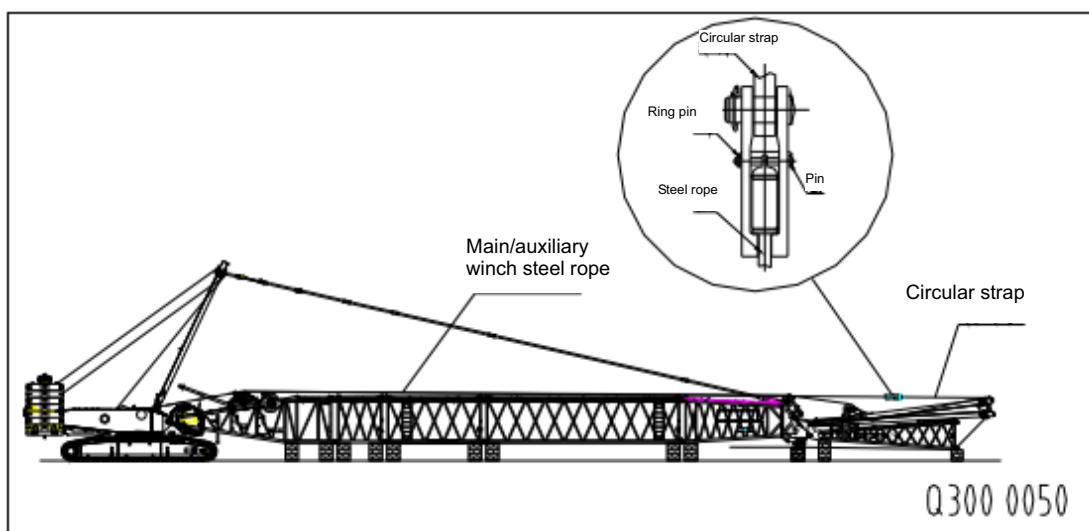
① Thread the small auxiliary steel rope W with a diameter of 6mm between the pulley blocks of rear and front masts of derricking jib. This steel rope is threaded after the auxiliary derricking steel rope is removed and used as the guide for the mounting of auxiliary derricking steel rope.

② Unwind the auxiliary steel rope (Z) on the traction winch, lead it to the joint of derricking jib front mast through the pulley on the upper section of boom, use the threaded small auxiliary steel rope (W, used as guide) to connect the derricking steel rope (X) with the auxiliary steel rope (Z) (see Fig. Q300 0049), and then wind it up by small auxiliary winch; meanwhile, unwind the steel rope of auxiliary derricking winch, draw out the steel rope towards the front mast of derricking jib till the auxiliary derricking steel rope is drawn out from the pulley block completely; next dismount the auxiliary derricking steel rope and the auxiliary steel rope, connect the former with the pull rope coupling lug panel on the rear mast (see Fig. Q300 0049). This method can save labors; however, the more the mounting workers are, the higher the efficiency drawing the auxiliary derricking steel rope manually is.



### 3. Connect the steel rope of main or auxiliary winch

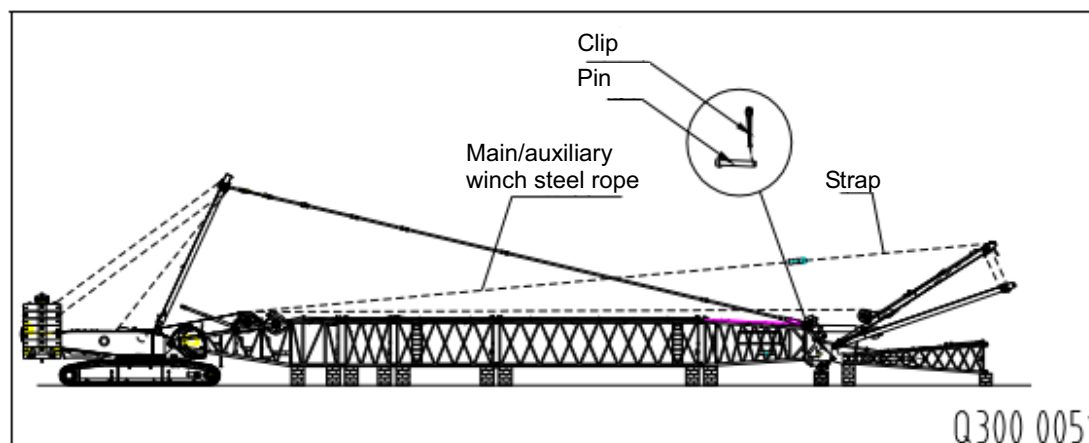
Connect the steel rope on the main winch W1 or auxiliary winch W2 with the mounting strap on the rear mast of derricking jib, tension the steel rope of main or auxiliary winch, lift up the mast slowly and also slowly unwind the derricking steel rope (see Fig. Q300 0050).



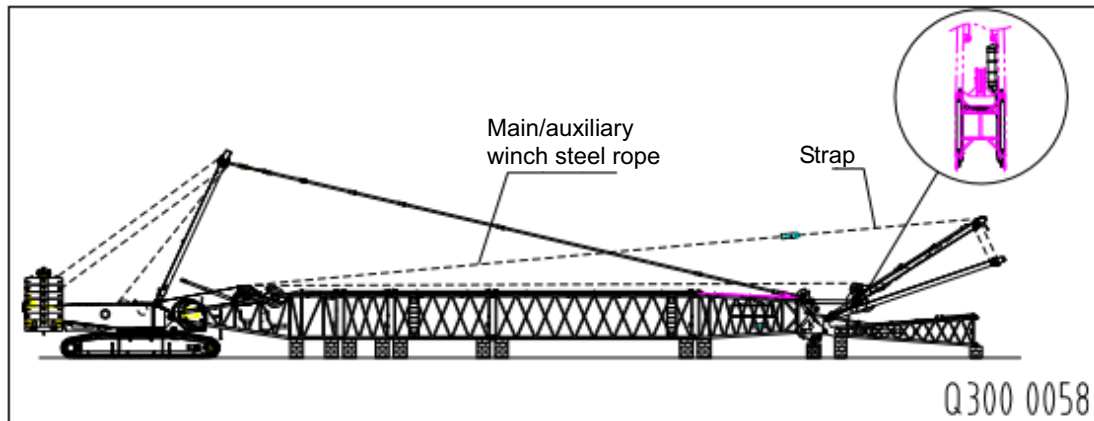
### 4. Install the anti-overturn stay bar and connect the derricking jib pull rod on the side of boom

① Wind up the steel rope on the main winch W1 or auxiliary winch W2, lift up the mast till the anti-overturn stay bar oil/gas cylinder of front mast of derricking jib can be connected with the hole on the upper section head of boom by clips.

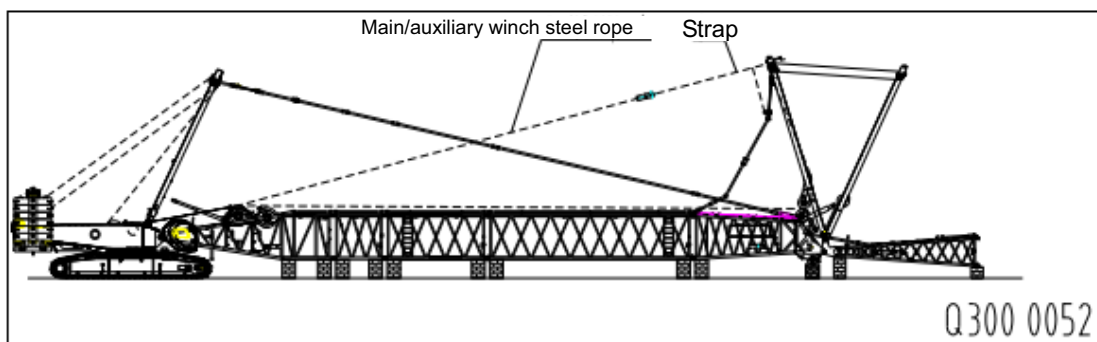
② Connect the anti-overturn stay bar oil/gas cylinder with the upper section of boom by pins, and fix them by clips (see Fig. Q300 0051).



- ③ Connect the oil inlet and outlet of anti-overturn stay bar cylinder with the small oil tank on the rear mast by quick connectors (see Fig. Q300 0058).

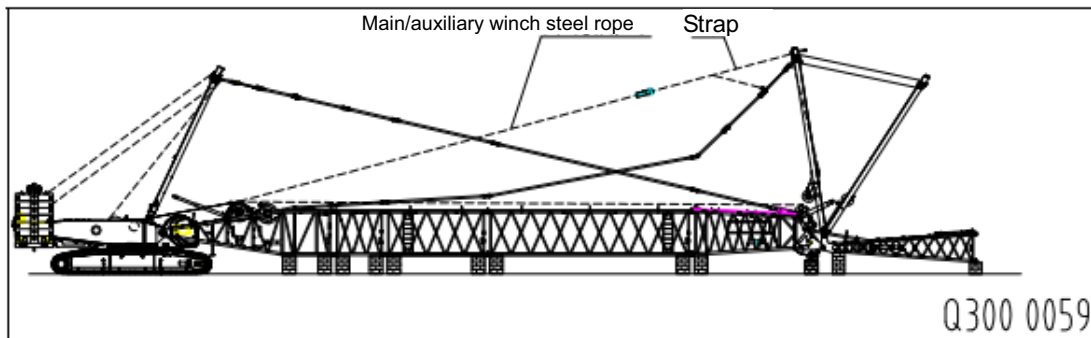


- ④ Keep on winding up the steel rope by main or auxiliary winch (notice to keep the steel rope tension so as to avoid disorder), draw back the rear mast of derricking jib, and unwind the steel rope of auxiliary derricking winch till the drawplate on the rear mast of derricking jib can be connected with the derricking jib pull rod on the side of boom by pins, then insert the coupling pin and clip (see Fig. Q300 0052).



- ⑤ Unwind the steel rope of main or auxiliary winch (notice to keep the tension of auxiliary derricking steel rope), and adjust the position of anti-overturn cylinder of front mast of derricking jib till the pull rod has some tension but is not tensioned completely (see Fig. Q300 0059).





- ⑥ Open the ball valve on the anti-overturn stay bar cylinder oil line and ensure the supply of oil in the large cavity of cylinder is sufficient.

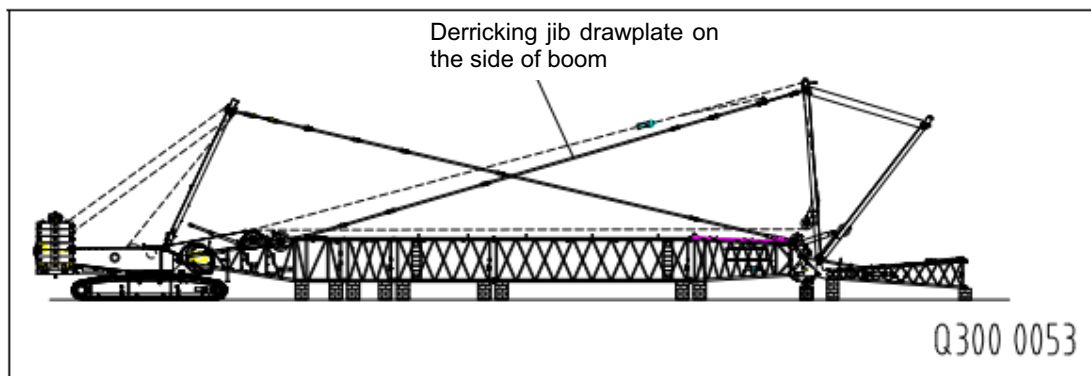


### NOTICE

All the pins on the drawplate shall be inserted from inside and fixed by clips outside.

#### 5. Remove the mounting strap

- ① Unwind the steel rope of the main winch (W1) or auxiliary winch (W2), and wind up the steel rope of auxiliary derricking winch (W4) (keep a distance between the front mast and lower section of derricking jib). At this moment, the rear mast of derricking jib pulled forward to tension the auxiliary derricking steel rope. When the derricking jib drawplate on the side of boom is tensioned, stop the auxiliary derricking winch (W4) (see Fig. Q300 0053).



- ② Keep on unwinding the steel rope of main or auxiliary winch till the mounting strap can be removed.

#### 6. Install the derricking jib and connect the derricking jib drawplate on the side of jib

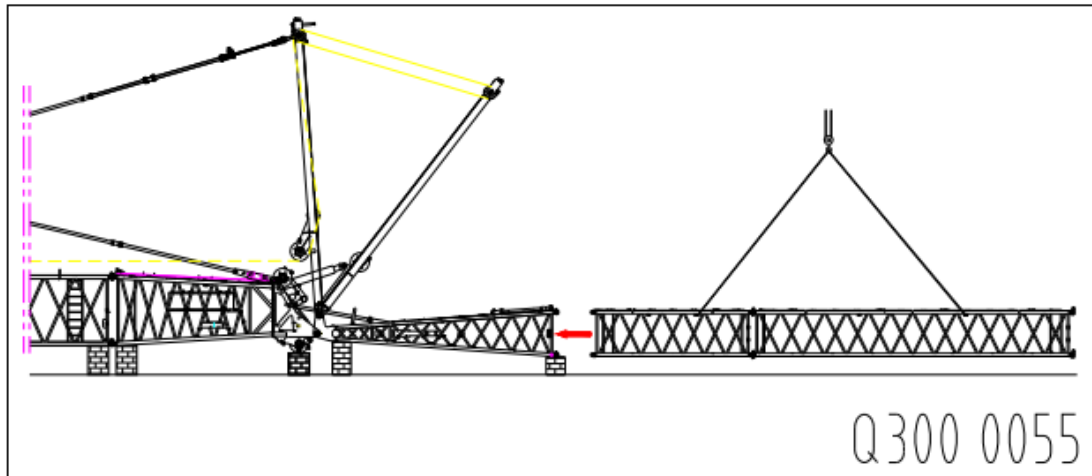


### NOTICE

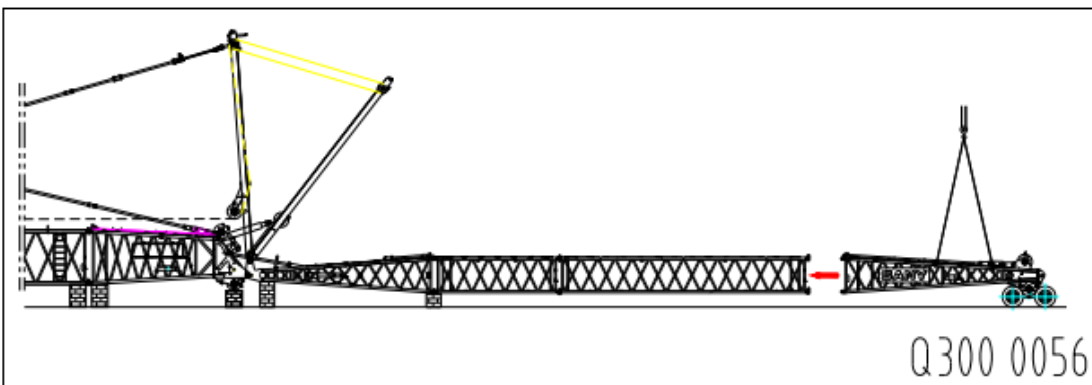
When assembling the derricking jib, never stand or work under or inside it.

- ① Mount the derricking jib to the needed length, connect and fix it by pins and clips; install the lifting trolley on the upper section head of derricking jib; assembly the needed derricking jib in accordance with the combination table of derricking jib and its pull rod (refer to the 2.5 LJ working condition for the combination table). If the derricking jib is longer, it can be divided to several parts and then assembled together. Both ends and the center of the derricking jib shall be supported by wood blocks.

- Lift up the intermediate section of derricking jib, and connect it to the lower section of derricking jib (see Fig. Q320 0055).



- Lift up the upper section of derricking jib, and connect it with the intermediate section of derricking jib (see Fig. Q300 0056).



#### NOTICE

Tyre inflation pressure of trolley: 7bar

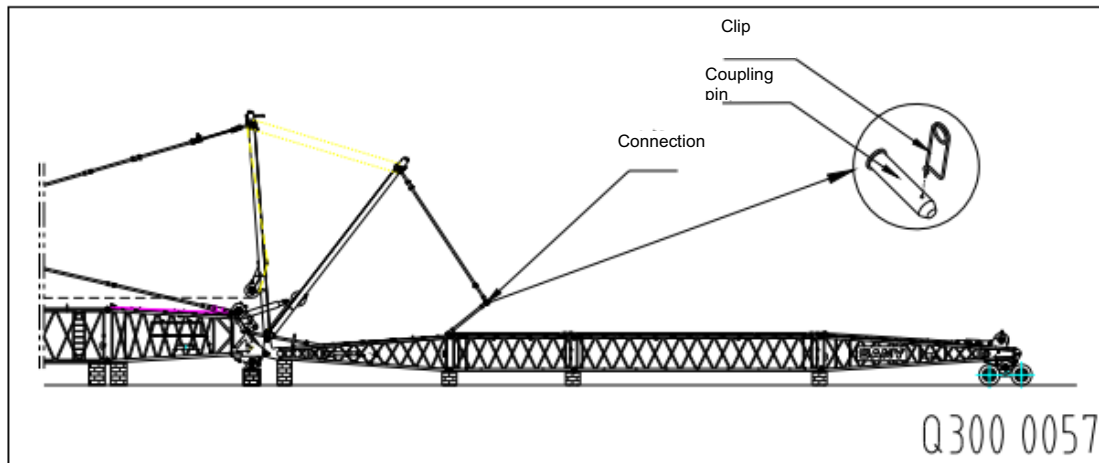


#### NOTICE

Select the arm rack and drawplate strictly in accordance with the "Arm Rack and Drawplate Configuration Table".

② Install the derricking jib drawplate on the side of jib.

Adjust the steel rope of auxiliary derricking winch, change the angle of front mast of derricking jib till the derricking jib pull rod on the side of jib can be connected, then insert the pin and clip, and connect the drawplate in accordance with the length of derricking jib (see Fig. Q300 0057).



③ Seen from the crane, the drawplate pin shall be inserted from inside; otherwise, the pin may scrape the steel rope. The drawplate shall be checked regularly.

#### 7. Lift up the derricking mast of jib

- ① Connect the limit switch and pressure sensor on the anti-overturn oil/gas cylinder electrically.
- ② Wind up the steel rope of auxiliary derricking winch (W4) till the limit switch on the anti-overturn oil/gas cylinder works.



#### NOTICE

Before lifting, the limit switch of anti-overturn oil/gas cylinder shall be connected electrically.

Before lifting, connect the limit switch on the anti-overturn oil/gas cylinder manually. The winding action of winch must stop. The indicator lamp shall be light up.

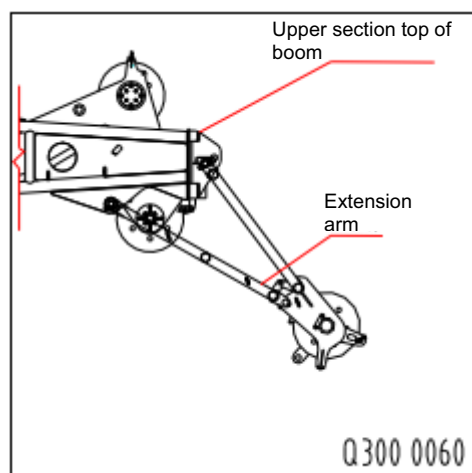
### 3.6.4 Mounting and dismounting of extension arm

#### 3.6.4.1 Summary

Note: if the extension arm is installed, the lifting limit of arm rack may hinder its action. For the use of extension arm, please refer to the Load List for Derricking Jib Working Conditions.

#### Mounting position

Upper section of derricking jib- top (Fig. Q300 0060)



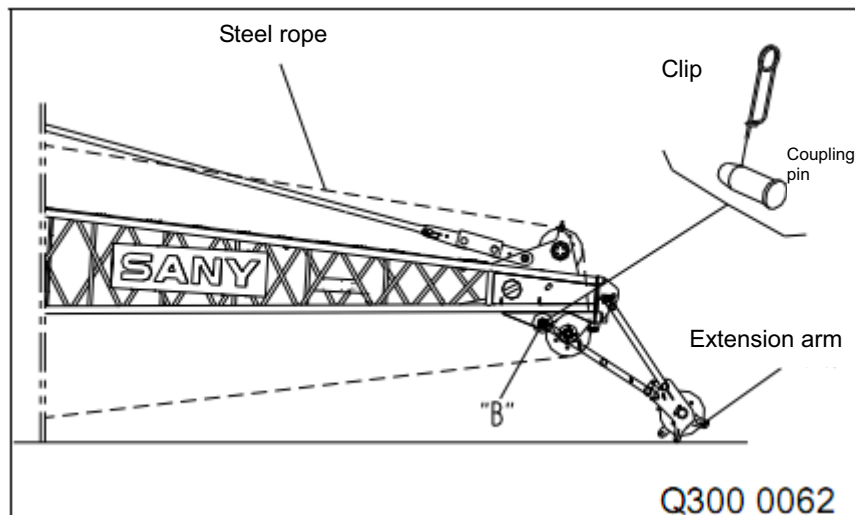
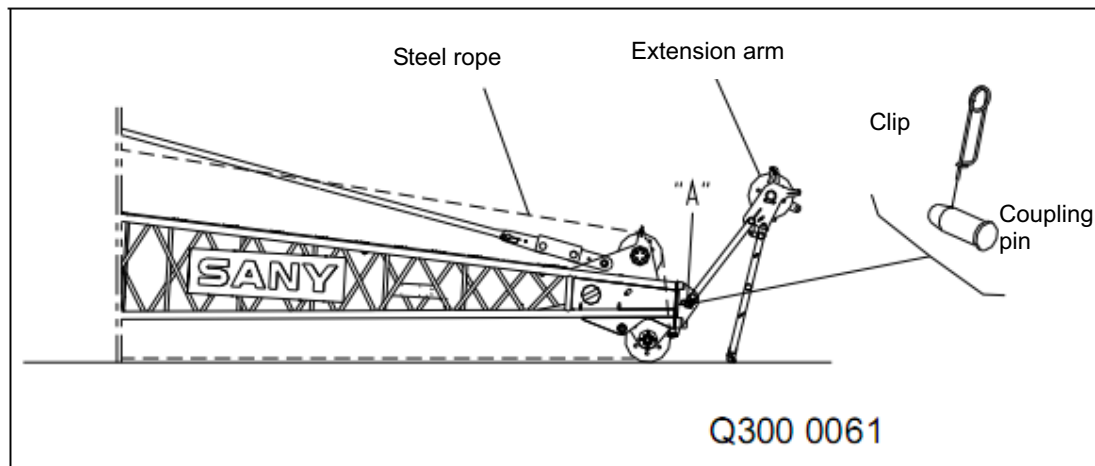
#### Compositions:

1. Extension arm, with a weight of about 614kg.

2. Pin  $\Phi 60 \times 100 \text{mm}$
3. Clip  $\Phi 4 \text{mm}$
4. Hoisting limit switch
5. Pulley shaft

#### 3.6.4.2 Mounting of extension arm

1. Drop the upper section of derricking jib onto the ground, lift up the extension arm by auxiliary crane, connect the extension arm with the derricking jib head "A" by pins, and then fasten it by clips (see Fig. Q300 0061).
2. Drop the extension arm onto the ground, release the auxiliary crane, pull the steel rope from the guide pulley on the derricking jib head to the pulley on the extension arm of derricking jib, change the derricking jib angle, and lift up the derricking jib head till the extension arm can be connected with the lower part "B" of the boom head by pins, and then fix it by pins and clips (see Fig. Q300 0062).
3. Connect the hoisting limit switch.



#### NOTICE

When lifting up, observe the steel rope line on the extension arm of derricking jib to ensure that the steel rope cannot hook the derricking jib top.

#### 3.6.4.3 Dismounting of extension arm

The dismounting sequence of extension arm is opposite to its mounting sequence.



### DANGER

Before the extension arm tip touches the ground, do dismount the pin under the boom head (B); otherwise, the boom weight may damage the extension arm.

#### 3.6.4.4 Operation of extension arm

1. Connect the extension arm by the steel rope of auxiliary hoisting winch, and then lift up the hammer of lifting stopper to check and confirm that the lifting stopper is normal.



### DANGER

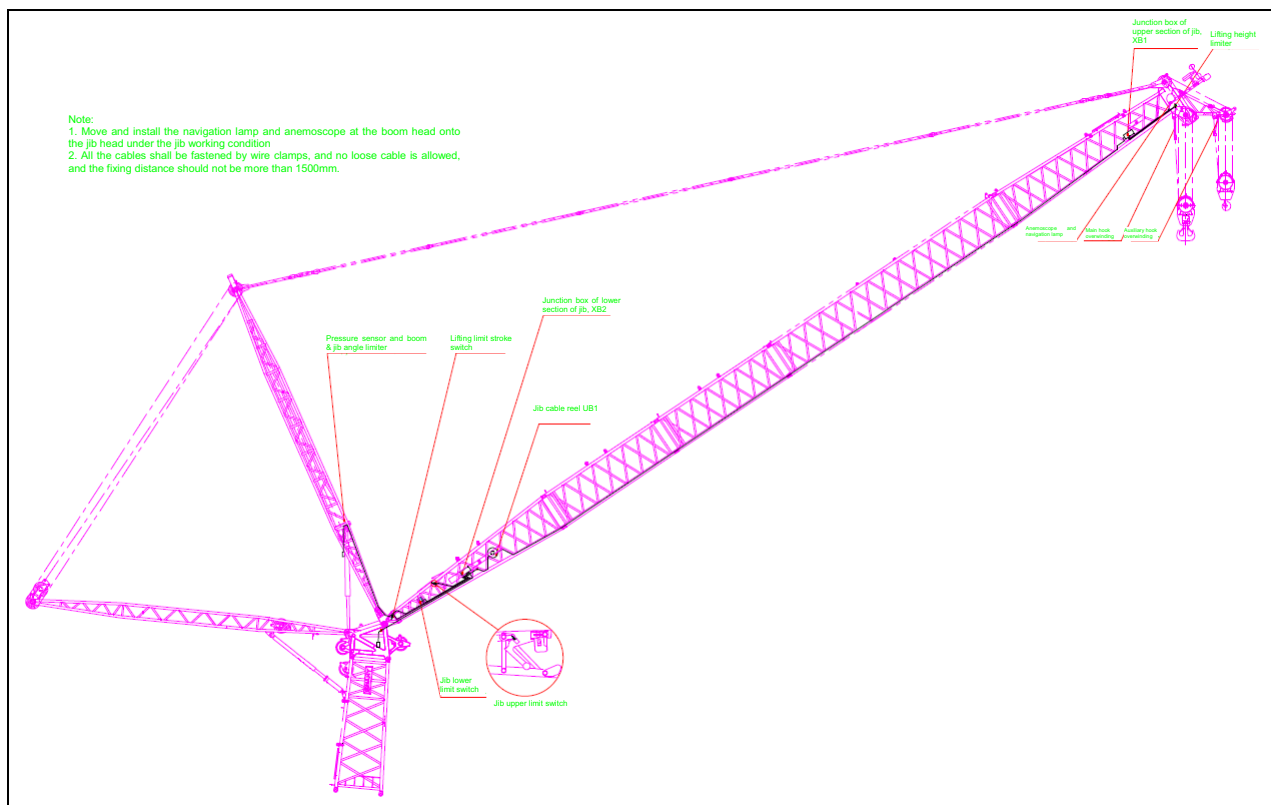
At most the steel rope of 2 magnifications can be installed; otherwise, the extension arm may be overloaded.

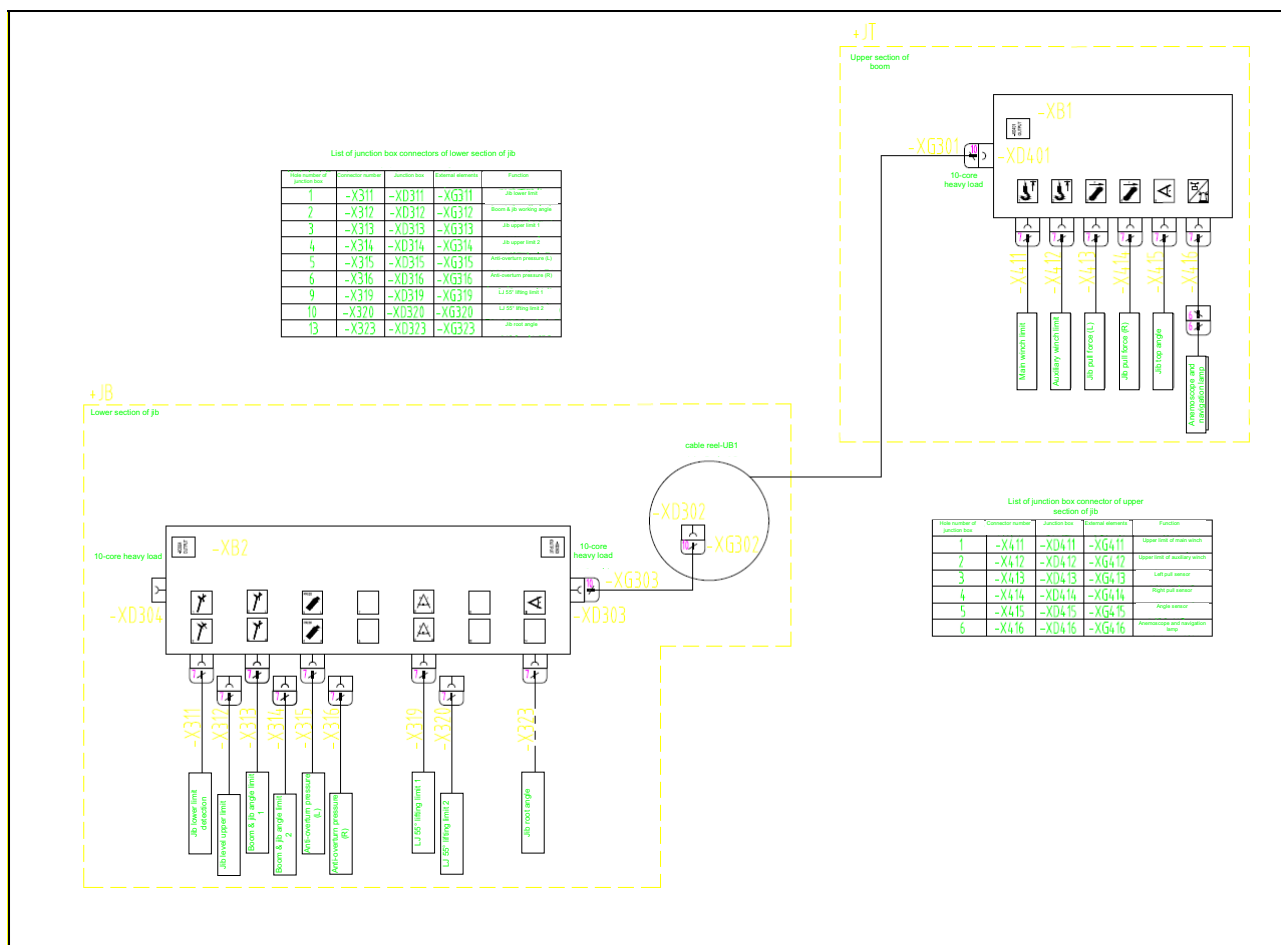
2. The machine with extension arm shall be operated in accordance with the followings:

- The hooks on the derricking jib and the extension arm must not work together.
- Must connect the hoisting limit switch with the hook steel rope of extension arm.
- Never lift the heavy loads from the ground through derricking the boom.

#### 3.6.5 Connecting cable

Electrical wire connecting diagram under LJ condition





### 3.6.6 Mounting of torque limiter

For the instructions of installation, adjustment and calibration of torque limiter, see drawing “Torque limiter assemblies” and relevant sections in the “Torque limiter manual”.

### 3.6.7 Mounting of hoisting steel rope

For the correct winding way and method for steel rope, please refer to Section 4 “Winding of Steel Rope” in this chapter.

Note: for the requirements of booms of different length on the extension arm of derricking jib, please refer to the Load List for Boom Working Condition.

### 3.6.8 Lifting of derricking jib

#### 1. Check before lifting

Before lifting the derricking jib, the following shall be checked and the irregularity, if any, should be corrected:

- The crane shall be on the solid and horizontal ground.
- All connecting pins have been mounted and correctly fixed.
- Each intermediate section of boom has been installed as per the correct sequence in accordance with the working condition combination and the pull rod configuration table in Section 2.2.
- Each drawplate of boom and derricking jib has been installed as per the correct sequence in accordance with the working condition combination and the pull rod configuration table in Section 2.2.
- Connecting pins for all intermediate sections of boom and drawplates of boom have been installed and been well fixed.

- The steel rope is winded correctly.
- All padding blocks, tools and other things have been removed from the boom.
- The lifting cylinder of main derricking mast is retracted completely.
- The electronic boom angle display has been installed correctly and adjusted properly (refer to the Adjustment of Boom Angle Display in the operation manual).
- The overwinding prevention device has been correctly installed and can operate normally.
- The upper limit approach switch of boom angle has been installed correctly, and it must be adjusted after the boom is lift up.
- The torque limiter and the combined instrument have been installed correctly and can operate normally.
- The mode changeover switch is at the working position.
- The site around the arm rack is guarded and separated.
- The cranes and accessories are lubricated properly.
- The wind speed is within the allowable working range.
- Derricking boom working condition: when the boom is not shorter than 47m, the specialized steel sheet shall be placed in front of crawler (see Fig. Q300 0033).

## 2. Lifting sequence

1. Wind the hook by steel rope in accordance with the winding diagram, and install the hammer of hoisting limit switch. When the winding magnification is even number, fix the rope end on the boom head; when the winding magnification is odd number, fix the rope end on the hook. The hammer of limit switch must be installed the steel rope connected with the boom head or hook (namely the dead end).



### NOTICE

If the hoisting steel rope is not fixed, it will fall down under the effect of its deadweight when it is lift up. No rotating is allowed when it is lift up.

2. Operate the handle to change the boom angle, and meanwhile, unwind the auxiliary derricking winch steel rope to keep the derricking jib head with trolley on the ground, and drop the derricking jib pull rod on the side of jib a little.



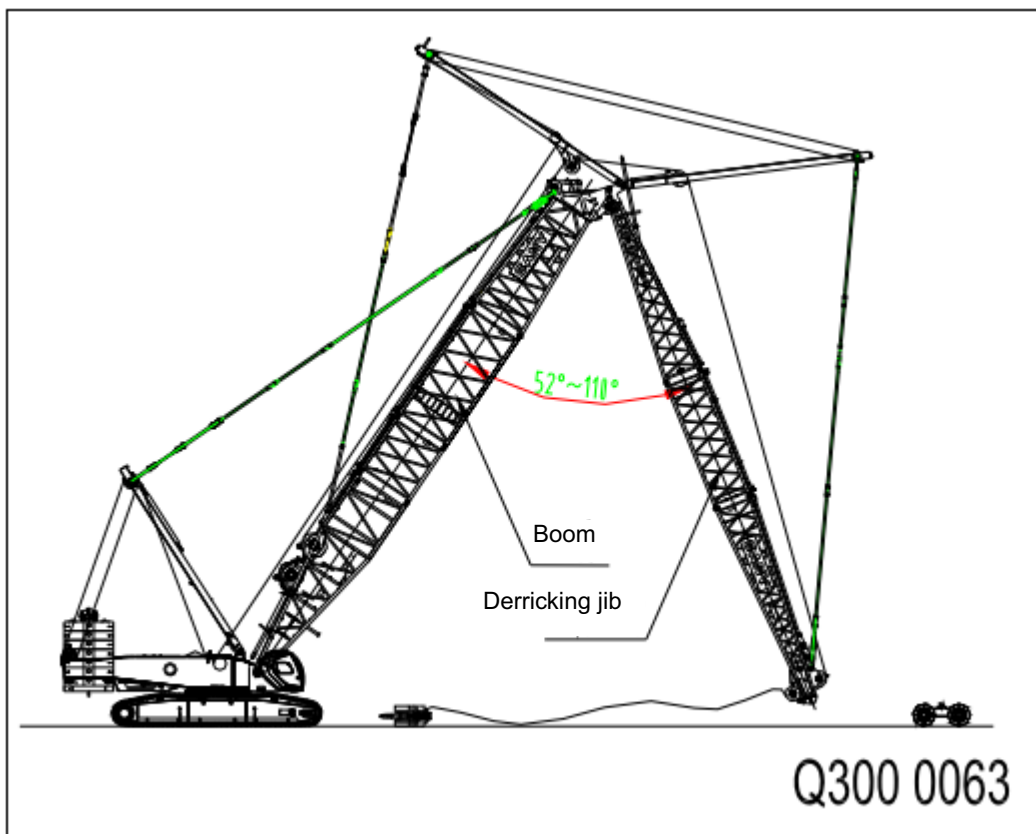
### NOTICE

Make the total weight of derricking jib on the ground. The breach of this requirement may overload or turn over the crane.

When the derricking jib is to leave the ground, ensure that the derricking jib pull rod on the side of jib is tensioned; otherwise, if the tension on the steel rope of auxiliary derricking jib is too low, the steel rope on auxiliary derricking jib will become loose. The loose steel rope is quite difficult to make ordered.

3. When the angle between boom and derricking jib is  $52^\circ$ , the crane will show the clew on the display, and stop the unwinding of auxiliary winch and the winding of main winch. At this moment, lift up the derricking jib by the winding action of auxiliary derricking winch, increase the angle between the boom and the derricking jib to more than  $52^\circ$  till the clew on the display disappears. Wind up the main derricking steel rope, lift up the boom, and wind up the auxiliary derricking steel rope after the boom reaches the preset angle so as to make the derricking jib reach the preset angle and finish the arm lifting action. If the derricking jib is shorter and the boom is longer, the main derricking steel rope can be wound to lift the boom and make the derricking jib leave the ground by retracting the auxiliary derricking steel rope when the main and derricking jib angle is less than  $52^\circ$  under the condition that the auxiliary derricking steel rope is tensioned (see Fig. Q300 0063).





4. Move away the lifting trolley of derricking jib head, place the hook on the ground, and thread the main (auxiliary) hoisting steel rope as per the selected magnification.
5. Lift up the boom to the maximum angle of 87°, and meanwhile unwind the hoisting steel rope and keep the hook on the ground.
6. Lift up the derricking jib to the work angle, and meanwhile unwind the hoisting steel rope, and keep the hook on the ground.
7. Lift up the hoisting steel rope and the hook.

### 3.6.9 Dropping of derricking jib

1. Keep the boom at the maximum working angle of 87°, and operate the handle to decrease the derricking jib to the minimum working angle, i.e. the angle with the horizontal surface is 15°. At this moment, the display in the cab will give warning information, and the action of derricking jib be stopped.
2. Rotate the forced release button to keep on dropping the jib, and at the same moment, unwind the steel rope of hoisting winch to ensure that the hook does not impact the pulley block on the derricking jib head; never drag the hook along the ground.
3. Drop the boom till the derricking jib head touches the ground, and then dismount the hammer of hoisting limiter.
4. Install the lifting trolley on the derricking jib head, drop the boom again to press the derricking jib head trolley on the ground, and meanwhile, unwind the hoisting steel rope to prevent the hoisting steel rope from damage due to tension.



**DANGER**

When disassembling the hoisting steel rope, no person should be within the dangerous range!



**NOTICE**



When dropping the derricking jib, When dropping the fixing jib, the hoisting winch must also unwind the steel rope so as to prevent the hook from impacting the jib head pulley.

### 3.6.10 Dismounting of derricking jib rack system



#### NOTICE

The dismounting of drawplate and the dropping of front and rear masts of derricking jib shall be opposite to the assembly sequence strictly.

1. Drop the front and rear masts of derricking jib.

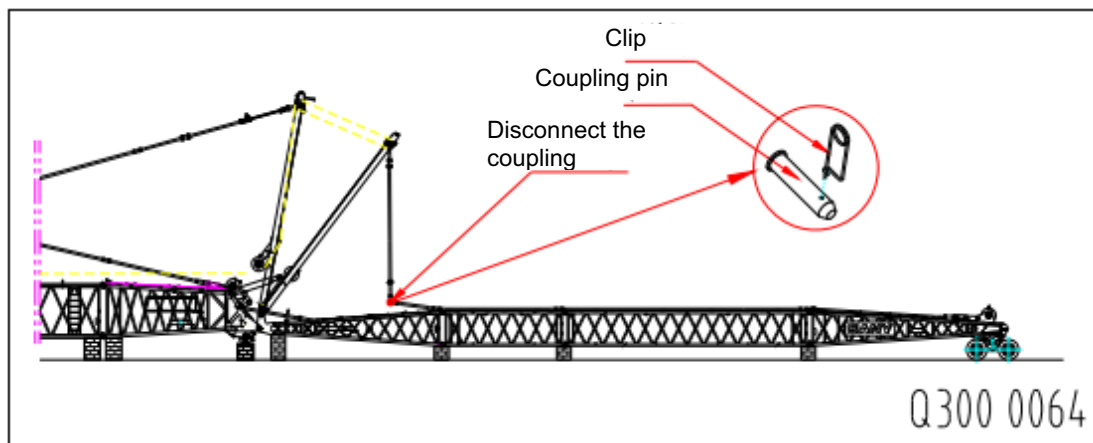
1. Wind up the steel rope of main or auxiliary winch till the end of this steel rope reaches the upper section of boom.



#### NOTICE

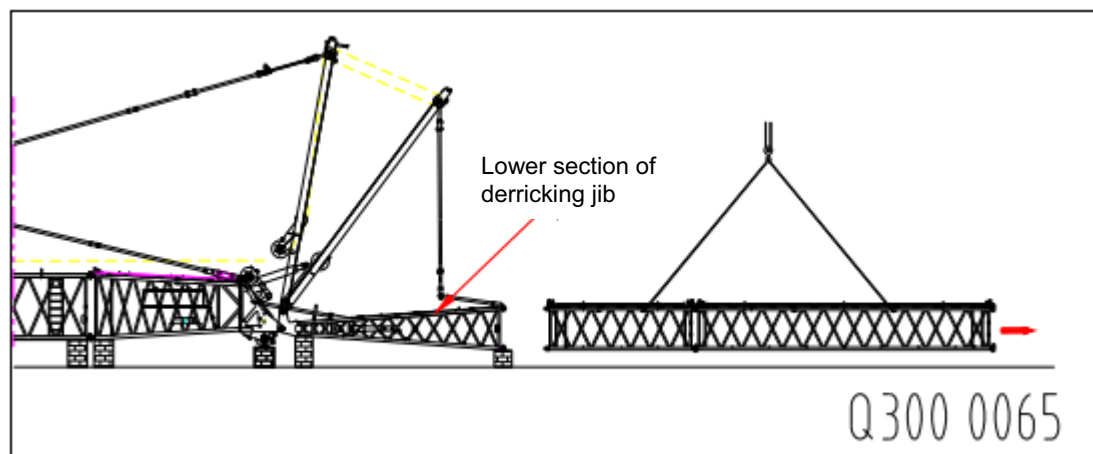
Be careful when winding up the steel rope of main or auxiliary winch, keep the steel rope under some tension so as to prevent the winch from disordered rope. The disordered steel rope is quite difficult to make ordered.

2. Unwind the steel rope of auxiliary derricking winch (W4), and drop the front mast of derricking jib forward till the derricking jib drawplate on the side of jib can be dismounted (see Fig. Q300 0064).



3. Dismount the drawplate on the derricking jib on the side of jib and fix it on the corresponding section of derricking jib.

4. Dismount the all the sections of derricking jib other than the lower section. (see Fig. Q300 0065).



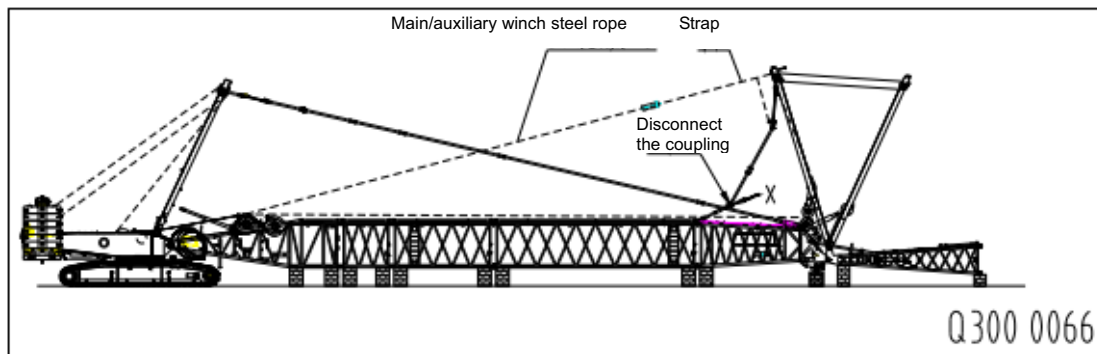


## NOTICE

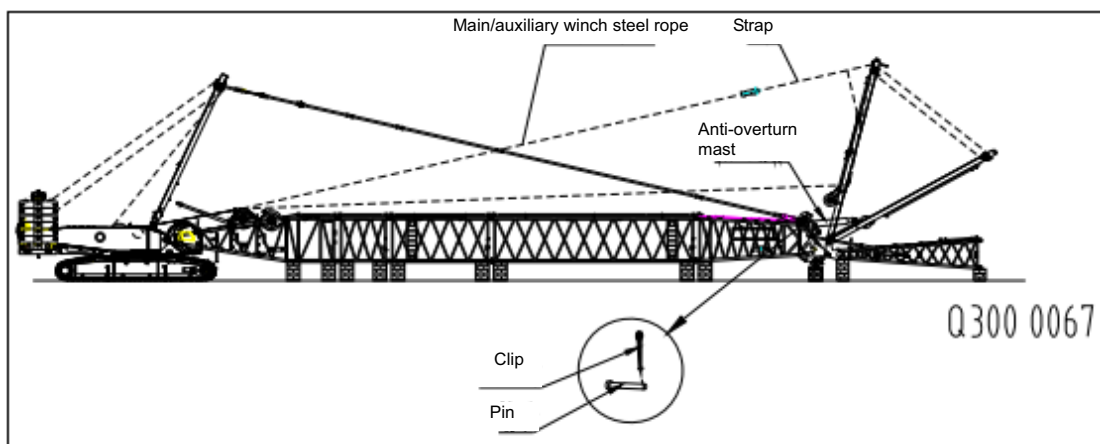
When dismantling the coupling pins, the lower coupling pin shall be dismantled before the upper one.

When dismantling the coupling pin, never enter the space under the arm rack.

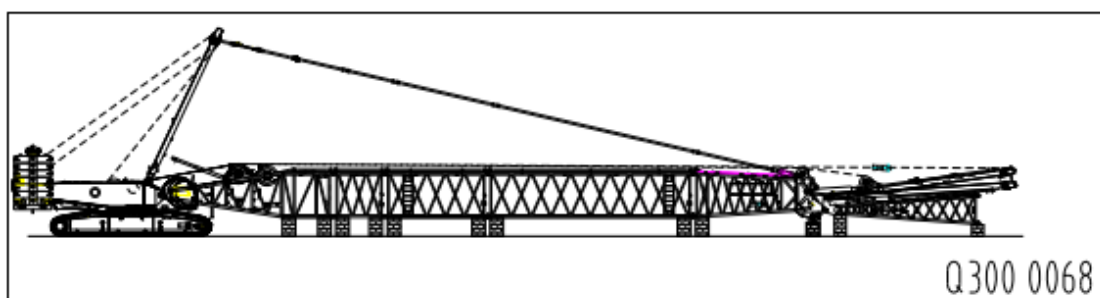
1. Connect the steel rope of the main winch (W1) or auxiliary winch (W2) with the mounting strap on the rear mast of derricking jib, wind up the steel rope of main winch (W1) or auxiliary winch (W2), and meanwhile unwind the steel rope of auxiliary derricking winch (W4) till the rear mast of derricking jib tilts backward to an angle, and make it possible to disconnect the derricking jib drawplate on the side of boom at position "X", then dismantle the drawplate and fasten it on the corresponding section (see Fig. Q300 0066).



2. Unwind the steel rope of main winch (W1) or auxiliary winch (W2) to make the angle between the derricking jib rear mast and the boom more than  $100^\circ$ , and meanwhile wind up the auxiliary derricking winch (W4), open the ball valve on the anti-overturn cylinder oil line of front mast of derricking jib, and remove the pins and clips on the anti-overturn cylinder and connecting it with the boom (see Fig. Q300 0067).



3. Unwind the steel rope on the main winch (W1) or auxiliary winch (W2), and meanwhile wind up the steel rope of derricking jib winch (W4), place the front and rear masts on the derricking jib with the rear mast also on the front mast (see Fig. Q300 0068).

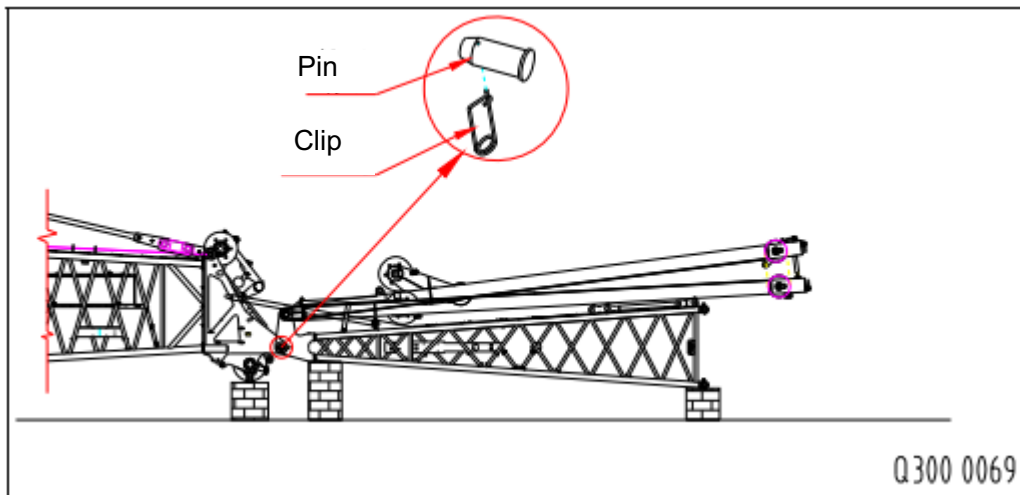


7. Untie the connection between the mounting strap and the hoisting steel rope.
  8. Connect one end of the auxiliary steel rope (W) with the auxiliary derricking steel rope, wind up the steel rope of auxiliary derricking winch (W4), and finally wind the auxiliary steel rope on the auxiliary derricking pulley block for the next installation.
2. Dismount the tower-type boom head assembly
    1. Disconnect the quick connector on the anti-overturn stay bar oil line of rear mast of derricking jib, and place the anti-overturn stay bar on the rear mast.
    2. Fix the tower-type boom assembly by the binding belt.
    3. Disconnect the tower-type boom head assembly from the upper section of boom, and lift it out by the auxiliary crane.



### NOTICE

The weight of the whole assembly is about 7,500kg.



### DANGER

Before removing the arm rack clip, it is needed to lift up the tower-type boom assembly by the auxiliary crane, and confirm that the front and rear masts and lower section of derricking jib have been fixed firmly by binding belt. Otherwise, the front and rear masts of derricking jib may move and result in dangers during dismounting.



### NOTICE

In this course, no person is allowed to stand under the assembly.