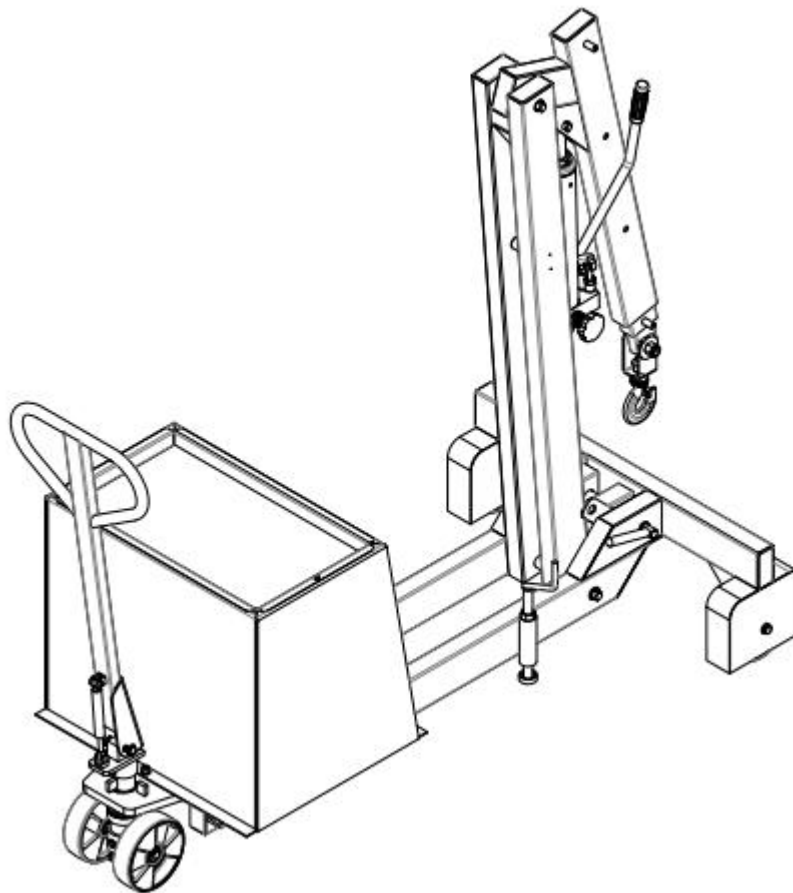


# Manual Balanced Crane

Model: SD55

## Instruction Manual



**Note:** Operator must read this instruction manual before using the product and follow the requirements during operating.

**VERSION ONE 11/2015**

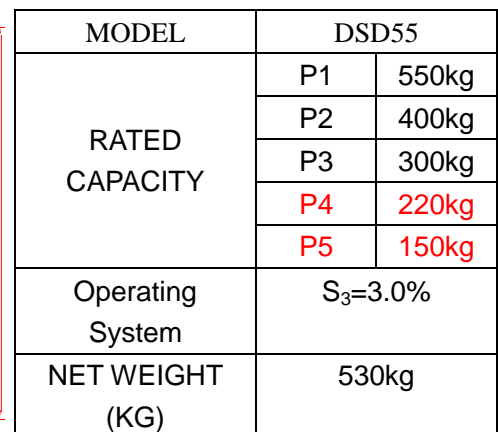
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## 1. Product Main Components



- ## 2、 Specification



### 3、Assembly and Adjustment

3.1 Remove the package carefully, avoiding severe vibration and significant tilt.

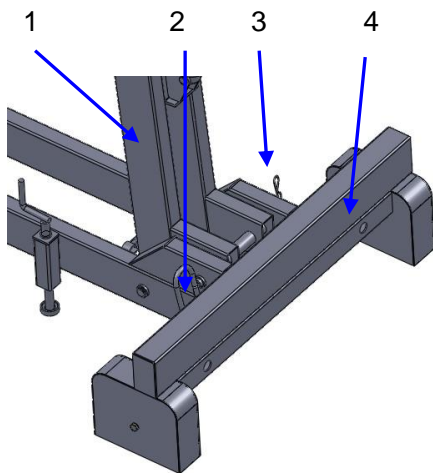
3.2 Turn the stands To the upright position , insert the pin to fix both parts, then lock them with the spring pin(as drawing 3-1);

3.3 Carry the counterbalance case on the base chassis, fix them with 4PCSBolts((in the spare parts bag))(as drawing 3-2).

3.4 Connect the handles and the steering wheels with 2 PCS bolts .Tighten the bolts at both sides firmly.(as drawing 3-3).

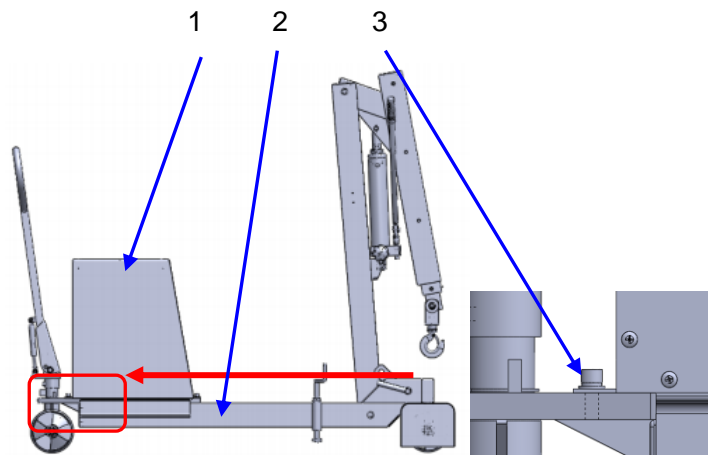
3.5 Check if all fasteners of the parts are tightened firmly.

Products could be used only if finishing all above mentioned inspections without abnormal.



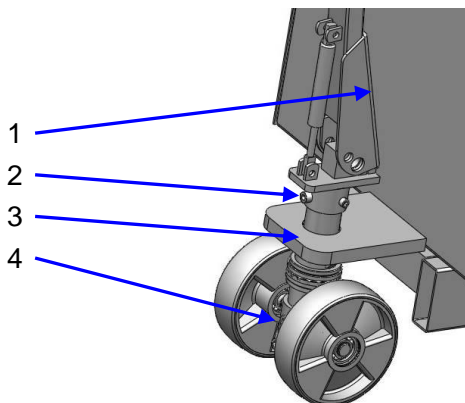
Drawing 3-1

- 1、stands 2、 pin、 3. Spring pin
- 4、 base chassis



drawing 3-2

- 1、 .weight box
- 2、 base chassis 3、 bolt



drawing 3-3

- 1、 handle2、 bolt 3、 supporting seat
- 4、 steering wheels

## 4、 Safe Operation

### 4.1 The Operator Requirements

The lifter must be operated by professionals who can demonstrate the product lifting operation to users and can instruct vividly how to operate.

Operator must be trained and fully understand the operation of product lifting and self-propelling, as well as all safety requirements.

### 4.2 Forbidden Use by Unauthorized Person

During operations, the operator has responsibility to prevent unauthorized person using the product. The product is strictly forbidden to carry or lift people.

### 4.3 Failure and Fault

In case of any failure or fault (e.g. wheel worn-out or brake fault and etc.), please stop using the product immediately.

### 4.4 Repair

Without professional training and specific authorization, the operator is forbidden to repair or replace any spare parts of the product. Any change of installation position of switches and safety devices is strictly forbidden.

All spare parts from original manufacturer are strictly inspected and completely qualified. They are safe and reliable for product operation. The replaced parts including oil must be disposed according to local related environmental protection regulations.

### 4.5 The product will bring potential dangerous to people or the area during lifting and lowering, unauthorized person should be away from the danger area.

### 4.6 Working in Hazardous Environments

When the product be used in high risk area, it should be added protective device.

### 4.7 Safety Warning Signs

The safety warning signs and precautions mentioned in the manual are very important.

### 4.8 Keep Distance

During operating the product, unauthorized person should keep an appropriate distance away from it.

### 4.9 Ground Checking

Carefully check whether the ground is flat and solid enough for moving before using the product.

### 4.10 Loads Requirement

In case the load has to be removed, lower the load and jib extension to the lowest possible point before moving. **Caution:moving should be slowly and steadily**

### 4.11 Do not load the crane beyond the rated capacity for each specified lift arm position as indicated in the label.

### 4.12 Before operating the crane ensure the lift arm is securely positioned by the pin.The load hook is provided with a latching mechanism. Ensure it works properly.

### 4.13 To lift the load in a well balanced and stable way make sure the center of gravity remains always inside the crane base

### 4.14 Screw on the brake(NO. 7 ),before operating.

### 4.15 Do not allow the load to swing or drop violently when moving.



## **5.Warning**

- 5.1 DO NOT overload;
- 5.2 When moving with load, the hook should be at the lowest position.
- 5.3 U-turning or lifting loads is prohibited on a slope.
- 5.4 DO NOT load people;
- 5.5 DO NOT operation under the extension arm.
- 5.6 STOP operation immediately once the cargo is unstable.
- 5.7 STOP operation when the hydraulic oil temperature is too high.
- 5.8 DO NOT adjust the safety valves in the power pack.
- 5.9 Reducing the balancing weight is prohibited.

## **6. Use and operation**

- 6.1 Before using the crane, it is necessary to purge air from the valve system of the hydraulic unit.
- 6.2 This can be done by releasing the valve, then pumping the hydraulic jack several times.
- 6.3 Closing the valve, the crane is now ready to be used, pump the hydraulic unit to raise the load,.
- 6.4 Lowering the load, release the valve. Counterclockwise slowly, the load can be lowered smoothly. Quick-releasing is strictly prohibited.

## **7. Daily Inspections**

- 7.1 Lubricate all moving parts at regular intervals.
- 7.2 Always keep the crane clean and protected from aggressive conditions.
- 7.3 Check the oil level of the hydraulic unit with the piston fully retracted. Top up if necessary.

**IMPORTANT** : An excess of oil will render the crane inoperative.

- 7. 4 Use only hydraulic oil, HL or HM types, with an ISO grade of cinematic viscosity of 30 cst at 40 °C or an Engler viscosity of 3 at 50° C.

**VERY IMPORTANT** : never use brake fluid.

- 7.5 When ordering spare parts, please state the series number and the capacity of the crane.