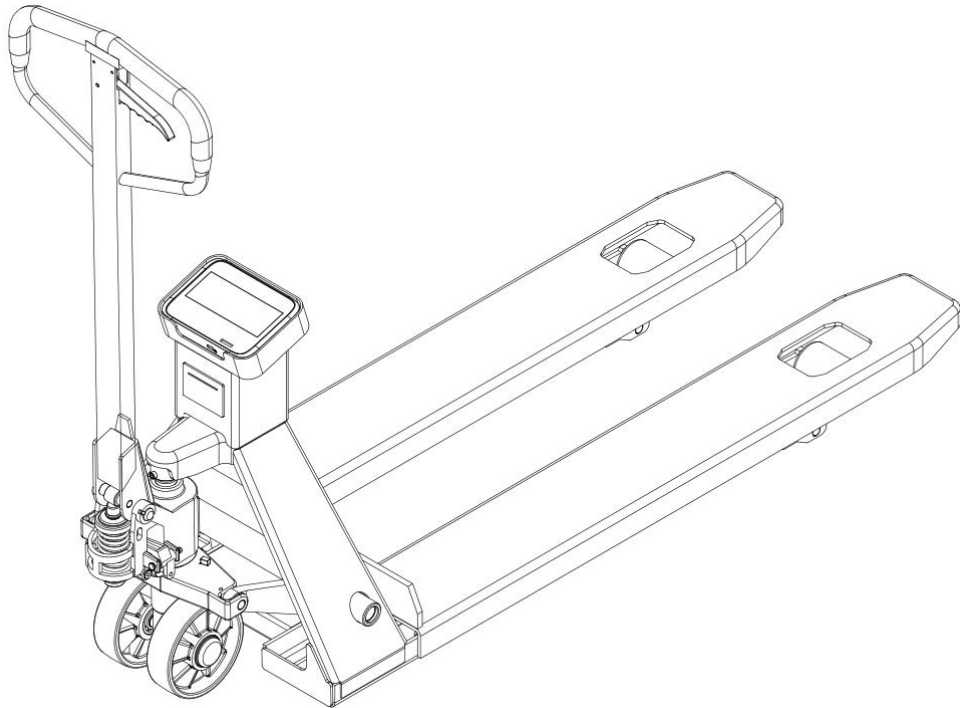


BFC30 Hand Pallet with Scale

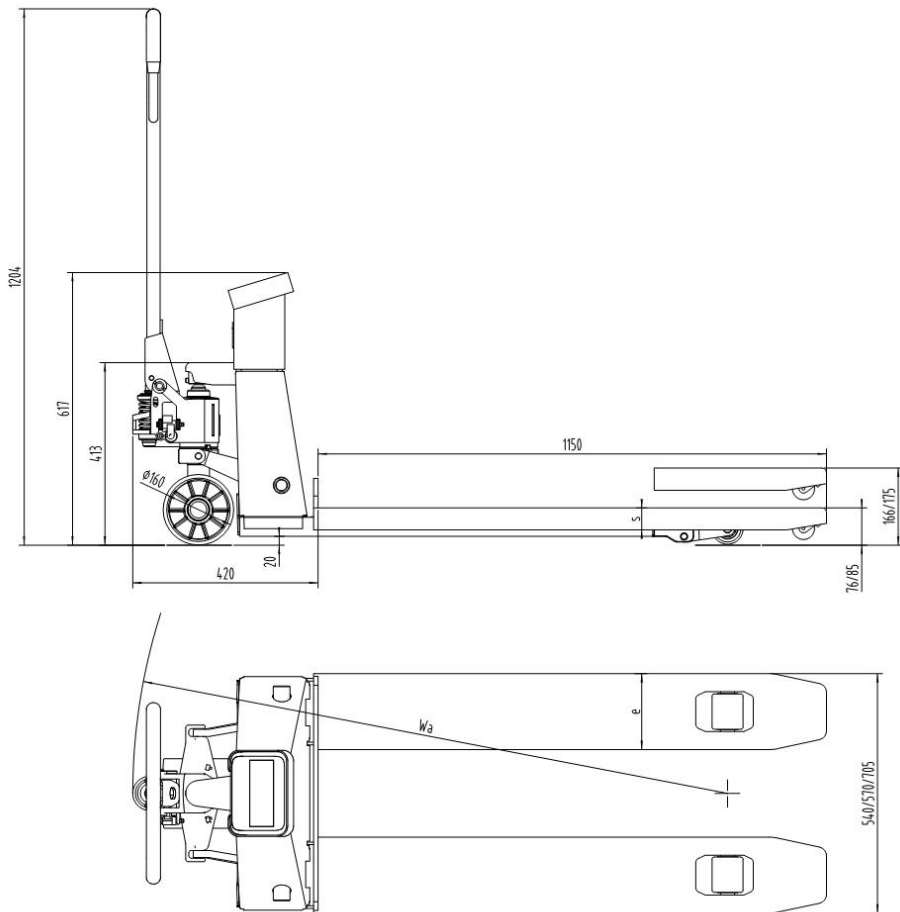
- **Operation manual**
- **Parts book**



Thank you for choosing BFC30 hand pallet truck with scale. Please read this operation manual carefully. This manual will help you use the truck in a better way.

★**Note:** BFC30 hand pallet truck with scale is designed to weigh cargo in the warehouse. It is characterized by its stable lifting and lowering, easy operation and high reliability. The truck can be used as a material handling truck on the hard and flat floor indoor.

1. Technical parameter



Model		BFC25	BFC30
Rated capacity	kg	2000	3000
Lowered fork height	mm	76/85	
Lifting height	mm	90	
Fork length	mm	1150	
Overall length	mm	1570	
Overall width	mm	520/550/685	
Fork overall width	mm	540/570/705	
Wheel diameter	mm	Φ160	
Fork wheel diameter	mm	Φ70	
Power	V/Ah	3.7V/5Ah Lithium battery	
Min. index value	kg	0.5	
Weighing accuracy	kg	0.1%	
Turning radius	mm	1350	
Service weight	kg	95-105	100-115

2. Assembly

2.1 Handle assembly

2.1.1 Shown as Fig.1, remove elastic pin 1 from pin shaft 2, then pull out the pin shaft 2.

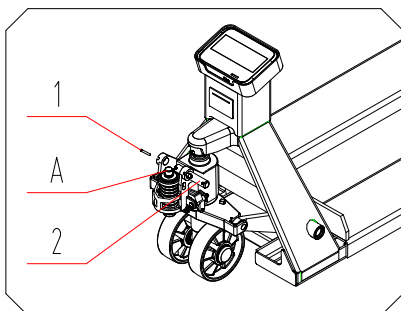


Figure 1

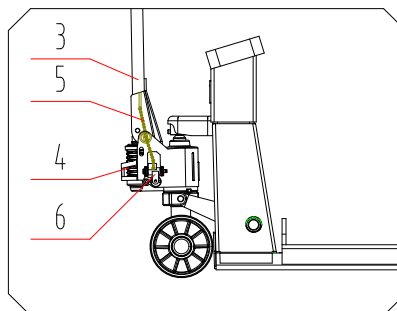


Figure 2

2.1.2 Insert handle 3 into position A, and connect handle 3 and pump body 4 with pin shaft 2. Do not install the pin shaft 2 in the longitudinal direction to the bottom, leaving a gap for free rotation.

2.1.3 Turn the pin shaft 2 so that the axis of the large hole in the middle of the pin shaft is vertical, and pass the chain 5 on the handle through the hole in the middle of the pin shaft 2. See Fig 2.

2.1.4 Hang the screw nut at the end of chain 5 into the groove of lever plate 6. See Fig 2 and Fig 5.

2.1.5 Turn the pin 2 back to its original position, push it all the way to the bottom longitudinally, and then reset the elastic pin 1 through the pin 2.

2.1.6 As shown in Fig 3, pull the handle to the horizontal position, pull out the pin 7, and keep the pin 7 properly for use when replacing the handle next time.

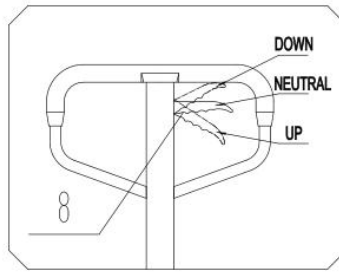


Figure 4

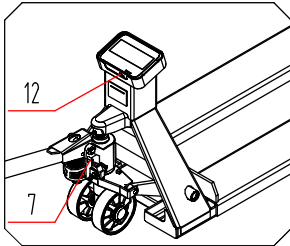


Figure 3

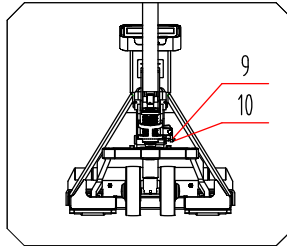


Figure 5

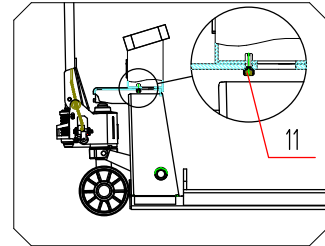


Figure 6

2.1.7 Use the handle to shake it, and operate and control the different gears of knob 8 to see whether the car rises, neutral and falls normally. See Fig. 4.

2.1.8 The screw 9 in Fig. 5 is used to adjust the vehicle condition. When the truck body rises and then immediately descends, turn the screw 9 a little anticlockwise and try the truck again until it rises normally. If the truck body cannot be lowered after lifting; turn the screw 9 clockwise a little and try again until it can be lowered normally. The outer hexagon nut 10 at the screw 9 plays a locking role. It should be loosened before adjustment and locked after adjustment.

2.2 Instrument assembly

2.2.1 See Fig.6, place the scale frame in the direction and align it with the fixing hole.

2.2.2 Fix the screw 11 to the instrument box assembly as shown in Fig. 6.

2.2.3 Connect the sensor harness.

2.3 Instrument charge

The charging interface is located on the right side of the instrument box (12 of Fig.6), which can be charged by connecting with the external charging line.

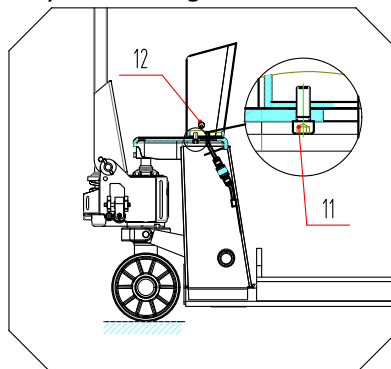


Fig. 6

3. Basic functions

3.1 Major parameters of the instrument

Parameter	Description
Accuracy level	Level III
Working voltage	3.7V DC
Charging voltage	5V 1A DC
Working temperature	-10~+40°C
Instrument accuracy	0.1%
Composite Error of Sensor	≤±0.020%
Sensor creep	0.02%/30min
Safe Overload Range of Sensor	150%
Protection level of the plastic cover	IP54
Display	5.6-inch LCD screen with 33mm character height and white LED backlight
Key	5 functional keys

3.2 Battery

The instrument adopts 3.7V5Ah lithium battery, which can be used continuously for more than 2 weeks, stand-by for up to 3 months and charge only for 5 hours.

3.3 Key description



Note: The instrument is equipped with 4 dynamic cursors:

Hold	lock cursor
~	dynamic cursor
Net	net weight cursor
>0<	zero point cursor

There are 5 keys:

Hold	Accumulate	Print	Reset	On/Off
------	------------	-------	-------	--------

Depending on the function, the keys can be short-pressed, long-pressed, or combined for operation.

●Key description



Short press:

To lock/unlock the current weight value displayed on the screen. In normal weighing mode, pressing "Hold" on the operation panel once will lock the current displayed weight, and the lock cursor will be displayed. If the weight is in the locked state, pressing "Hold" again will cancel the locked weight, returning to the normal weighing state and making the lock cursor disappear. If the weight is in the locked state, operations such as tare, accumulation, and zero setting will be rejected.

Long Press:

The instrument will enter the function mode or calibration mode.



Short Press:

Weight Accumulation Key:

- 1) In normal weighing mode, once the dynamic cursor disappears, indicating the actual weight, pressing the "Accumulate" key will accumulate the weight. The accumulation count will increase by 1, and the instrument will continuously display the accumulation count and the current total accumulated weight alternately.
- 2) When the goods are unloaded, the instrument's displayed weight will return to zero, allowing the user to continue placing the next goods for accumulation.
- 3) When there is no load, pressing the "Accumulate" key will display the total accumulation count and total weight accumulated so far.

Long Press:

The screen will stop flickering and exit accumulation.



Short Press :

If equipped with a printer module, it prints the current weighing result displayed on the screen. Note: Do not remove the goods during printing, as the print result will be the weight after the goods are removed.

Long Press:

Enters the time and date setting mode.



Short Press:

Resets the instrument reading to zero within the allowed range for zero setting.

Long Press"

In gross weight mode, it uses the current weight as the tare weight to switch the instrument to net weight display mode.



Long Press:

While the instrument is powered on, holding down the power key will turn it off.

Short Press:

Switches the display unit of the current cargo weight.

Short Press:

While the instrument is powered off, pressing the power key briefly will turn it on.

3.4 Function description

1) Scale calibration

After power-on self-test is completed and the instrument enters normal weight display, wait for the screen to display 0000. Prepare the weights needed for calibration, such as 1000kg or 2000kg weights, and place them on the weighing platform. Long press the "Hold" key to enter the function mode. At this point, the screen displays 01. Short press the "Accumulate" key three times until the screen displays 04, which indicates the calibration mode. Press "Hold" to enter the calibration mode. At this point, the value displayed will be 998 or 1998 (any random value may appear) and it will flash. Short press "Accumulate" to increase the division value slowly, and short press the "Print" key to decrease the division value slowly. Long press "Accumulate" to increase the division value quickly, and long press the "Print" key to decrease the division value quickly. Set the division value to 1000kg or 2000kg, then short press the "Hold" key to confirm and exit. At this point, the calibration is complete. In any calibration situation, if you want to exit calibration, simply long press the "Off" key. However, incomplete calibration operations may cause the electronic scale to be unable to weigh normally.

2) Reset

Long press the "Hold" key to enter the function mode. At this point, the screen displays 01. Short press the "Accumulate" key twice and the screen will display 03, which indicates the factory reset setting. Press the "Hold" key to automatically exit to the weighing mode, and the factory reset is complete. After the factory reset, the current calibration weight will be cleared, and the instrument will return to the factory preset values. Due to certain deviations in each forklift, there may be some deviation between these preset values and the actual weighing values. If there is a deviation, please perform calibration and calibration according to the above method.

3) Time and date calibration

- a) Long press the print key to display "0--xx", indicating entry into the time calibration mode.

- b) The LED displays "0--01" to indicate year setting. Press the accumulate key to increase the year by one, and press the print key to decrease the year by one. Short press the zero-setting key to confirm the set year and automatically move to the month setting.
- c) Set the year, month, day, week, hour, minute, and second in sequence.
- d) After setting the second, the system will automatically exit the calibration mode.

Note:

0--xx	Year Setting	1--xx	Month Setting
2--xx	Day Setting	3--xx	Week Setting
4--xx	Hour Setting	5--xx	Minute Setting
6--xx	Second Setting		

4) Overweight alarm setting

Press and hold the "Hold" key to enter the function mode, at which point the screen will display "01", which represents the overweight alarm setting. Shortly press the "Hold" key to enter the overweight alarm setting. At this point, the screen will display "--NO" or "--OFF". Press the "Accumulate" key to toggle the setting between "--ON" (to turn on the overweight alarm) and "--OFF" (to turn off the overweight alarm setting).

--ON indicates that the overweight alarm is turned on. Briefly press the "Hold" key again to display "OUTRG" and begin entering the overweight alarm weight. Pressing and holding the "Accumulate" key will quickly increase the value, while pressing and holding the "Print" key will quickly decrease the value. Briefly pressing the "Accumulate" key will slowly increase the value, and briefly pressing the "Print" key will slowly decrease the value. After adjusting to the desired alarm value, briefly press the "Hold" key to save and exit.

--OFF indicates that the overweight alarm is turned off. Shortly press the "Hold" key to confirm and exit, thereby turning off the overweight alarm.

5) Unit Setting

Press and hold the "Hold" key to enter the function mode, at which point the screen will display "01". Briefly press the "Accumulate" key once, and the screen will display "02", which represents the unit setting. Press the "Hold" key to enter the unit-setting mode. At this point, the screen will display "--F0.2", "--F0.5", or "--F1.0". Briefly press the "Accumulate" key to toggle between units:

- F0.2 represents a display unit of 0.2 kilograms.
- F0.5 represents a display unit of 0.5 kilograms.
- F1.0 represents a display unit of 1 kilogram.

Shortly press the "Accumulate" key to save the setting and exit.

6) Additional function

- a) Automatic shutdown

If there are no operations within 3 minutes after the screen value becomes stationary, the electronic scale will automatically shut down. It can be turned on by pressing the power key. The automatic shutdown time is set at the factory and cannot be adjusted.

- b) Backlight

The automatic backlight shutdown time is 10 seconds. The backlight will automatically illuminate when there are flicking in the screen numbers or when a key is pressed. The backlight time is set at the factory and cannot be adjusted.

4. Load distribution and load capacity

- 1) Place the center of gravity of the heavy load at the center of the forks. In case of eccentric loading, the rated load capacity must be reduced. The rated load capacity is indicated on the label.
- 2) As shown in Figure 4, when weighing or moving goods, the handle 8 should be in the lowered position. Lower the forks to an appropriate level, insert the forks into the pallet, and then raise the handle 8 to the raised position. Turn the handle to lift the forks.
- 3) When moving goods, the handle 8 should be in the neutral position.

5. Hydraulic oil

- 1) The hydraulic oil required for the oil pump is approximately 250ml (or 0.25Kg). Using the ISO oil standard, when the ambient temperature is -5~ 40°C, use 32# oil; when the ambient temperature is -35~5°C, use low-temperature oil.
- 2) Disposal of waste oil should be handled appropriately in accordance with relevant laws. Do not pour it casually.

6. Common problems and troubleshooting of the instrument

No	Fault	Cause analysis	Elimination method
1	Insufficient lift	Insufficient hydraulic oil	Add proper filtered working oil
2	Return not in place	<ol style="list-style-type: none"> 1) Too much hydraulic oil filling 2) The rotating part is deformed and stuck 3) The plunger and guide rod screw sleeve are stuck. 	<ol style="list-style-type: none"> 1) Remove proper working oil. 2) Replace parts.
3	Fork does not drop after rising	<ol style="list-style-type: none"> 1) The unloading device is abnormal 2) Deformation and damage of parts 	<ol style="list-style-type: none"> 1) Readjust the unloading device. See 4.2 2) Replace the deformed and damaged parts
4	Hydraulic oil leakage	<ol style="list-style-type: none"> 1) Oil seal failure 2) The surface of some parts is slightly damaged or worn 3) Loose connection 	<ol style="list-style-type: none"> 1) Replace the oil seal. 2) Replace the damaged parts. 3) Retighten the loose parts.
5	Fork does not rise	<ol style="list-style-type: none"> 1) The working oil viscosity is too large, or the working oil is not injected 	<ol style="list-style-type: none"> 1) Replace oil 2) Remove the impurities in the oil circuit and renew the working oil 3) Readjust the unloading

		2) Impurities in oil 3) The unloading device is abnormal	device, see 4.2
6	When the handle is shaken, the fork rises and then immediately descends. The handle has a large rebound phenomenon, or the fork rises and then descends obviously.	Valve stuck by sundries	Open the valve, take out and clean the parts, and then replace them

7. Working environment

This scale truck is suitable for general industrial and commercial environment. The working temperature is required to be within the range of $-10\text{ }^{\circ}\text{C} \sim +40\text{ }^{\circ}\text{C}$, the relative humidity is $\leq 90\%$ RH, and the road surface is required to be flat. It is not suitable for places with explosive substances.

8. Warning A

- 1) Read the instructions before operating the scale truck, and master the scale performance.
- 2) When the truck is controlled to descend by the pinch hand, it shall be raised a little bit first to make the truck body descend slowly. It is not allowed to pull the pinch hand violently. The rapid descent will cause damage to the truck and goods of the electronic scale!
- 3) Do not shake the handle in the form of rapidity and high frequency!
- 4) Do not load the heavy object on the fork rapidly!
- 5) Do not overload use, overload will not work properly!
- 6) The center of gravity of the goods shall be in the middle of the two forks, and the off loaded goods will make the electronic scale carrier lose balance!
- 7) Do not use this scale truck for non-pallet goods!
- 8) Do not leave the goods on the fork for a long time!
- 9) When the scale truck is not working, keep the fork in the lowest position and turn off the power!
- 10) It is strictly prohibited to carry people, or walk on the fork! Do not put any part of the body under heavy objects!
- 11) It shall be used on flat and hard ground. Do not use on sloping ground!
- 12) Do not expose the truck to the sun or rain!
- 13) Do not operate unspecified parts!
- 14) Do not attempt to repair without training!
- 15) If the battery is damaged or the use is over, it must be sent to the recycling station and treatment station. Do not throw it around!
- 16) This scale is not suitable for trade settlement.

9. Maintenance

- 1) Carry out routine inspection every day, eliminate abnormal phenomena in time, and do not use the car with faults, so as to extend the service life. Add lubricating oil to each rotating joint every three months, pay special attention to the wheel and shaft not to be entangled by yarn and other debris, and keep all wheels rotating easily.
- 2) To ensure clear display and service life of the instrument, the instrument should not be used in direct sunlight.
- 3) Instruments and sensors shall be reliably connected, and the system shall be well grounded and far away from electric field and magnetic field.
- 4) Do not use the instrument outdoors in thunderstorm, and it is better to turn off the power supply of the instrument.
- 5) When plugging in or out any interface connector of the instrument, please turn off the power supply first.
- 6) It should not be used in places with serious dust and vibration, and avoid using in humid environment.
- 7) Use soft cotton cloth and neutral detergent to scrub the instrument shell to keep the instrument clean.
- 8) There is a battery icon in the lower right corner of the instrument. If the battery icon flashes when the battery voltage is too low, please plug in the charger in time to charge the battery. The battery bar icon of the meter flashes when charging.
- 9) Take out the dry battery when it is not used for a long time.

10.Packing list

Packing list

Consignee:

Ex-factory No.:

Contact no.:

Ex-factory date:

No.	Product	Qty	N.W (kg)	Dimension (L×W×H)	Remark
1	Hand pallet truck with scale	1			The whole truck
2	Accessory bag	1			Technical documents, accessories and spare parts are included

Note:

1) The following documents are in the technical document bag

- a) Operation manual 1 copy
- b) Parts book 1 copy
- c) Qualified certification 1 copy
- d) Packing list 1 copy

2) Accessories and spare parts

No.	Name	Use position	Specification	Qty	Remark
1	Elastic pin	Handle	5x35	1 pc	

Consignor: