MEF15S
Electric Pallet Truck 1.5t

■ 1st Innovative Design Ever
■ Compact Size & Light Weight, Convenient for Operation
■ Energy-saving & environment-friendly design maximizes running time
■ Incredible Market Share Globally

MITACO EQUIPMENT CO.,LTD
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CE

◥ FEATURE

■ Innovation:
1st Innovative Design Ever

■ Light Weight, Great Capacity, Great Pa -ssingability:
Light weight & compact size create excellent manuverability & passingability.
1500KG capacity handles most applications.

■ Anti-vibration Technology for Batteries:
Special anti-vibration technology extends maintenance-free battery life.

■ Cables:
Robot cables with excellent twist resistance offers longer life span.

■ Charger:
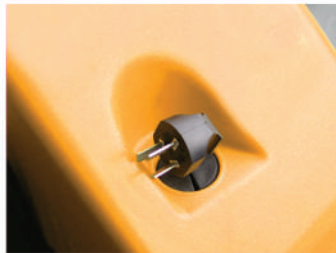Charger with temperature indicator protects battery.

■ Operation:
Ergonomically-designed tiller head helps increase efficiency; Internal Charger for Easy Charging.

■ Safety:
Handy Emergency Disconnect Button & Durable Driving Unit ensure safety under any situation.

■ Serviceability:
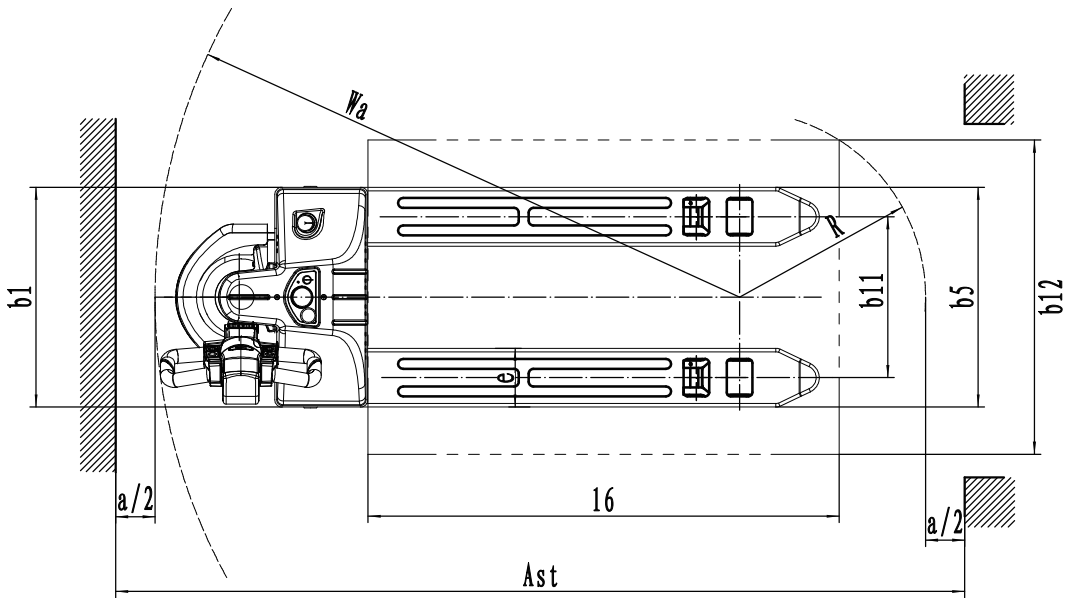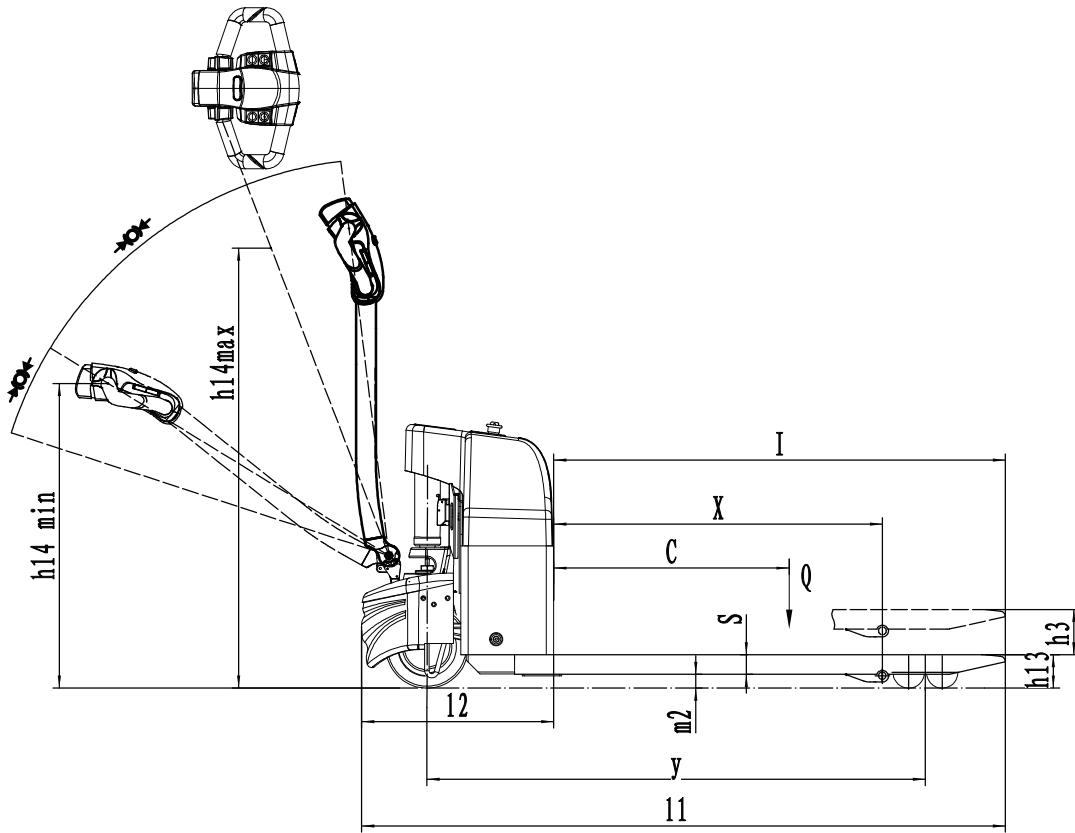Assembly Components, Easy for Diagnosis and Replacing.

Electric Pallet Truck 1.5t
MEF15S

Distinguishing mark	1.1	Manufacturer			Mitaco
	1.2	Model designation			MEF15S
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	1500
	1.6	Load center distance	c	mm	600
	1.8	Load distance，centre of drive axle to fork	x	mm	883/946
	1.9	Wheelbase	y	mm	1228/1268
Service weight	2.1	Service weight		kg	210
	2.2	Axle loading, laden front/rear		kg	574/1131
	2.3	Axle loading, unladen front/rear		kg	165/40
Tyres/chassis	3.1	Tyre type			Polyurethane
	3.2.1	Tyre size, front		mm	Φ210x70
	3.3.1	Tyre size, rear		mm	Φ80x61（Φ74x88）
	3.4	Additional wheels (castor wheels)		mm	—
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x，— /4
	3.6.1	Tread width, front	b10	mm	—
	3.7.1	Tread width, rear	b11	mm	410（535）
Dimensions	4.4	Lift height	h3	mm	115
	4.9	Height of tiller handle in drive position min./max.	h14	mm	750/1170
	4.15	Lowered height	h13	mm	85（75）
	4.19	Overall length	l1	mm	1632
	4.20	Length to face of forks	l2	mm	482
	4.21	Overall width	b1/b2	mm	560（685）
	4.22	Fork dimensions	s/e/l	mm	50/150/1150
	4.25	Distance between fork-arms	b5	mm	560（685）
	4.32	Ground clearance, center of wheelbase	m2	mm	35(25)
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2290
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2160
	4.35	Turning radius	Wa	mm	1485
Performance data	5.1	Travel speed, laden/unladen		km/ h	4/4.5
	5.2	Lifting speed, laden/unladen		m/s	0.022/0.025
	5.3	Lowering speed, laden/unladen		m/s	0.034/0.023
	5.8	Max. gradeability, laden/unladen		%	5/16
	5.10	Service brake			Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min		kW	0.65
	6.2	Lift motor rating at S3 15%		kW	0.84
	6.4	Battery voltage/nominal capacity		V/Ah	2x12V/85Ah
	6.5	Battery weight		kg	25.5x2
Addition data	8.1	Type of drive control			DC
	10.5	Steering design			Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

h14max

h14 min

I

X

C

Q

S

h3

h13

12

m2

y

11

Wa

b1

b11

b5

b12

a/2

e

16

a/2

Ast

Option

No.	Optional items	MEF15S
1.1	Fork length	●1150○1000○1220
1.2	Fork width	●560○685
1.3	Fork lowered height	●85○75○60○40
1.4	Fork carriage width	○560○685
1.5	Fork carriage height	○1220mm（48in）○1520mm（60in）
2.1	Load wheel type	●Double○Single
2.2	Load wheel material	●PU
2.3	Drive wheel material	●PU○Trace PU
2.7	Battery capacity	●85Ah
2.8	Charger	●24V-15A inside
2.9	Battery indicator	●Without time○With time
3.3	Castor wheels	●No○Yes
3.16	Vertical handler working	●No○Yes
4.4	Weighting system with fork	●Yes and not customized

Note：●Standard　　○ Optional　　- Inconformity

Scale

4.1 Main Specifications

1. Model: XK3100-SL-Scale I

2. Accuracy: Grade III, n=3000

3. Sample Rate: 8 times/ second

4. Load cell sensitivity: 2mV/V

5. Display interval: 1/2/5 for option

6. Display: 128x64 dot matrix screen

7. Power supply: DC6.5V

8. Operating temperature: 0～40℃

9. Transporting temperature: -10-55℃

10. Relative humidity: <=85%RH

4.2 Features:

1. High precision A/D conversion from ADI

2. Special digital filtering technology to strengthen anti-vibration ability

3. Able to set up digital filter intensity, range and stable time

4. Add up function

5. Selectable backlight mode

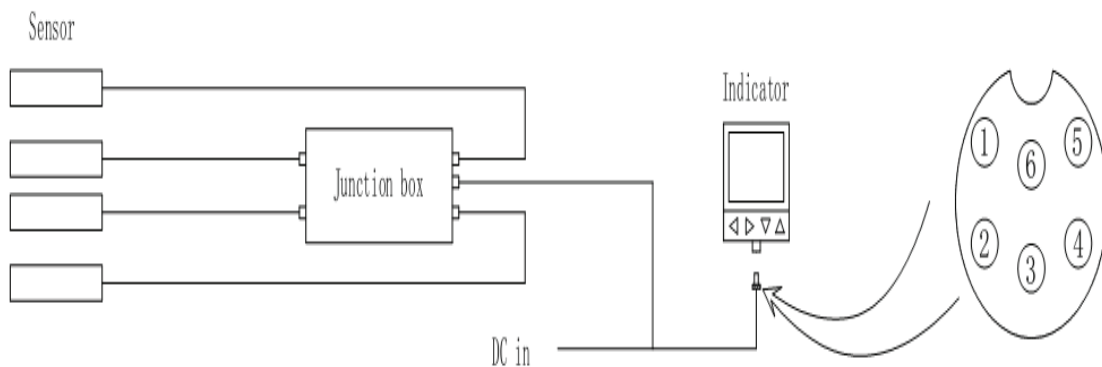6. Kg/lb switch function

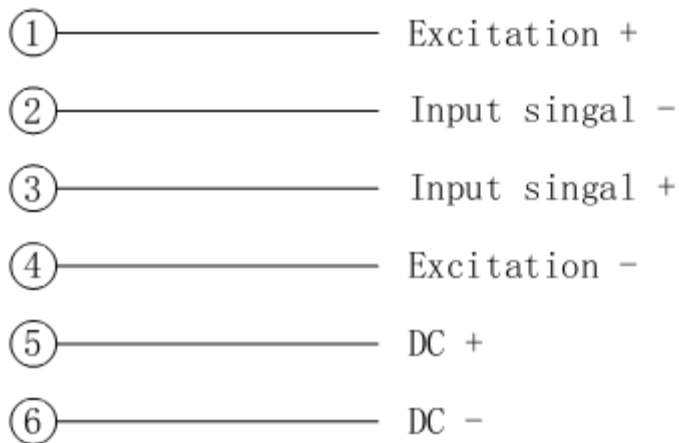## 4.3 Appearance and Installation

4.3.1 Keys function

This is only in weighing mode

Key	Function	
	Press	Long press
<	Record data	Go back to main menu
>	Check recorded data	
∨	Kg/ lb switch	Clear recorded data
∧	Tare	Zero

4.3.2 Connection

Each scale has 4 load cells, one junction box and one indicator. The way to connect them is show in picture 1.

Picture 1

4.4 Scale Operations

4.4.1 Power On

1. Switch on Pallet Truck

2. Switch on Weighing Indicator. The indicator will display weight.

4.4.2 Auto Zero

Power on, if the display value deviates from zero point, but still within zero set range, the indicator will set zero automatically; if out of range, it's necessary to adjust the zero point or recalibrate or reset.

4.4.3 Manual Zero

In weighting mode, when there is some error when unloaded, long press $\wedge$ to make the indicator to be zero.

If the displayed value deviates from zero point, but still within zero-range, long press $\wedge$ is available. Otherwise, long press $\wedge$ is invalid.

4.4.4 Tare Function

When indicator at weighing status, and displaying positive weight stable, press $\wedge$, the indicator will deduct the displayed weight value as tare weight, and the indicator will display "N" which means Net Weight. Press $\wedge$ again, the indicator will display Gross Weight.

4.4.5 Add Up

When indicator is at weighing status, press $<$ to record weight data. The indicator will show the count value at the top right of the screen. Long press $\vee$ will clear the recorded data.

When the indicator is at weighing status, press $>$ to check the recorded data.

GW--------------Gross Weight

NW--------------Net Weight

RT----------------Count Value

TGW------------Total Gross Weight

TNW------------Total Net Weight

Press $>$ to turn back to weight status.

4.4.6 Main Menu Introduction

Power on, the indicator is at weight status, long press $<$ to enter the main menu. Press $>$ to enter the option, press $\vee$ to move to the next option.

Scale

Alarm

You can set up upper limit value and lower limit value. And you can decide whether the indicator alarms when the weight value is out of the range you set.

Y: alarm

N: not alarm

H: upper limit value

L: lower limit value

Parameter modify: Press $<$ to move cursor. Press $\vee$ and $\wedge$ to change the value. Long press $<$ to cancel this modification, long press $>$ to save this modification.

Back Light

There are three modes: auto, on, off.

Auto: when the weight value is not zero, back light on. Otherwise, after a set amount of time, the back light off.

ON: the back light is always on.

OFF: the back light is always off.

Press $>$ to modify the option, long press $<$ to save and go back to the main menu.

Calibration

To do this, you need to follow these steps.

Step 1: enter password

$<$ Move cursor

$\wedge$ Plus one

$\vee$ Minus one

$>$ Enter password

After you entered the password, if the password is correct, then you can do step 2. Otherwise the indicator will go back to the main menu automatically. Default password is "3333".

Step 2: Zero calibration. Now, the truck should be not loaded. And press $>$ to do step 3.

Step 3: Load calibration. Now, the truck should be loaded. And the load should be known. Enter load value just like the way to enter password. Long press $>$ to save this calibration. If you want to give up, long press $<$.

Display

Display options

Length : you can select '4' or '6' (include the decimal point)

Decimal : you can select '1' or '0'

Font   :   you can select big font or small font. 'H' means big font, 'L'
                  means small font

Graduation :   you can select '1', '2' or '5'

Press < to move cursor and press > to modify. Long press < to save.

Advertisement: Do not modify the options except "Graduation".

Digital Filter

There are three levels of digital filter strength: Week, Medium and Strong.

This parameter will affect the refresh rate of the weight display. If set to strong, the rate will be slowly.

Press > to modify, long press < to go back to the main menu.

Max Capacity

When the load exceeds the max capacity, the indicator will alarm.

Press < to move cursor, press ∧ and ∨ to change the value. Long press < to save.

Password

You need to enter the original password. After entering a new password, long press < to save.

Power saving

Back light: back light time. This parameter will work when the back light mode is auto mode.

Press > to modify, long press < to go back to the main menu.

Recovery

This function will make the indicator to be restored to factory status. But this will not affect the scale function, so be careful with calibration. First you need to enter the password. If the password is correct, long press > to save or long press < to give up.

Standstill

Time: quick, medium, slow

Range: you can select 1d, 2d, 5d, or 10d, d means graduation. In this range, the display value will not change.

Press ＜ to move cursor, press ＞ to modify, long press ＜ to save.

Zero

Auto: Power on zero range. When power on, if the weight value is in the range, the indicator will automatic zero. You can select "0%" or "1%", "0%" means the auto zero function is invalid. "1%" means the true range is "1% x max capacity". For example, the max capacity is 3000 and you select "1%", the true range is "3000 x 1%=30", so when power on, if the weight value is in this range, the indicator will set zero automatically. Otherwise the indicator will display the weight value.

Manually: this is just like the [Auto], "4%" means the true range is "4% x max capacity". If the weight value is in the range, long press ∨ will work, you can set zero.

Track: Zero-point auto track range. Also, d means graduation.

Press ＜ to move cursor, press ＞ to modify. Long press ＜ to save and go back to the main menu.