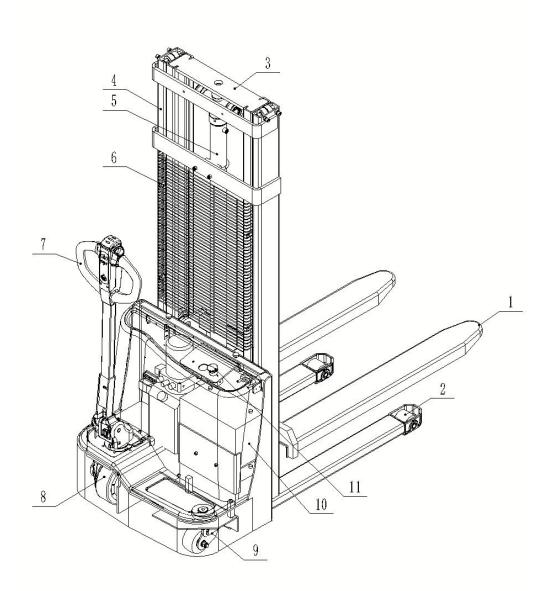
Walkie Pallet Stacker MANUAL QDA-EL



Warning!

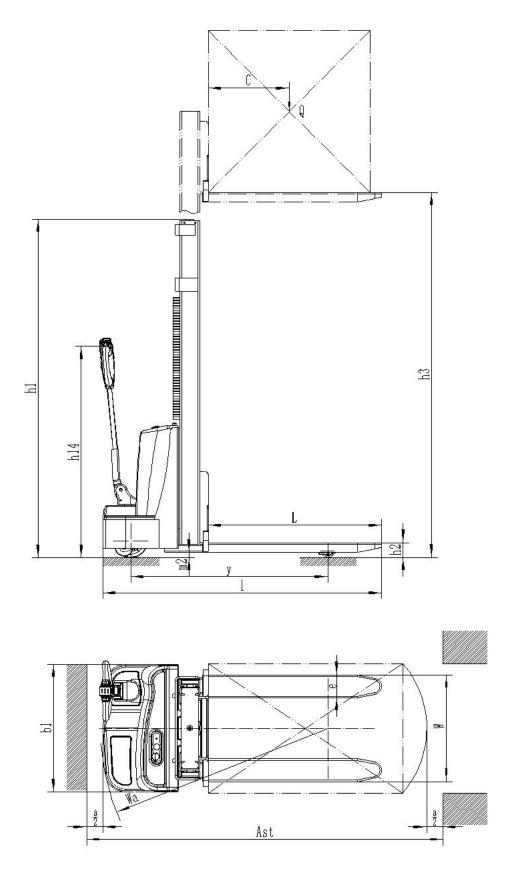
The operator should strictly follow ISO 3691:1980 *Safety Specification for Industrial Vehicles* and it is prohibited for untrained people to operate the truck.

1、MAIN PARTS



Item no.	Description	Item no.	Description
1	Fork	7	Handle
2	Loading wheel	8	Drive wheel
3	Inner mast	9	Balance wheel
4	Outer mast	10	Battery
5	Oil pump	11	Emergency button
6	Protect mesh		

2 Main technical parameters



1.1	Model		QDA10EL	QDA12EL	QDA15EL
1.2	Drive type			battery	
1.3	Operation type			walkie	
1.4	Rated capacity	Q(kg)	1000	1200	1500
1.5	Load center	c (mm)		500	
2.1	Service weight	kg		450	
3.1	Wheels material			PU	
4.1	Max. lift height	h3(mm)		1600/2500/3000	
4.2	Lowered mast height	h1(mm)		2080/1840/2090	
4.3	Extended mast height	h4 (mm)		2080/2960/3540	
4.2	Lowered fork height	h13(mm)		90	
4.3	Overall length	11 (mm)	1720		
4.4	Overall width	b1(mm)	790		
4.5	Fork size	S/e/1(mm)	60/142/1070		
4.6	Fork width	b5(mm)		550/660	
4.7	Ground clearance	m2 (mm)		25	
4.8	Turning radius	Wa(mm)		1405	
5.1	Traveling speed, laden/unload	Km/h		3.5/4	
5.2	Lifting speed, laden/unload	mm/s		85/110	
5.4	Descending speed, laden/unload	%		3/10	
5.5	Max. gradient,laden/unload			Electromagnetic brake	
6.1	Brake	k₩		0.75	
6.2	Drive motor power	k₩		2.2	
6.3	Lift motor power	V/Ah	$2 \times 12/65$	2×1	2/85
6.4	Battery voltage/rated capacity	kg	17.5×2 23×2		
7.1	Battery weight	dB(A)		<70	

Table 1

3.Application

Walkie pallet stacker adopts storage batteries as the power supply and the AC motor as the driver, traveling by gear transmission. As the traveling and lifting of the truck are electrically driven, it possesses the characteristics of energy saving, high efficiency, stable operation, easy operation, safe and reliable, low noise and no pollution, etc.

Operating environment:

a. walkie pallet stacke is suitable for indoor hard flat on the ground to use, not suitable for use on the surface of the slope and use on uneven ground. Should not have influence on the ground wheel rolling of convex concave pit and gravel sundry etc.

b. the altitude should be no more than 1200 meters

c. the ambient temperature should be no higher than +40 $^\circ\!\mathrm{C}$ and no lower than -25 $^\circ\!\mathrm{C}$

d. When the environment temperature is + 40 $^{\circ}$ C, relative humidity is not more than 50%, at lower temperature, the larger relative humidity are allowed

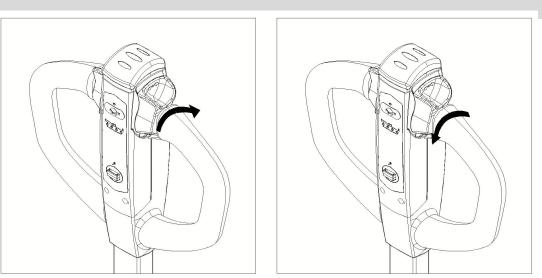
e. Probibit in inflammable and explosive or corrosive environments, such as acid-base condition.

4.Operation Instruction

The correct use and operation of the truck will bring great convenience to your work, while incorrect use of vehicles will damage the vehicle and dangerous to the operator.

Before operation, please check whether the truck is under good condition: any leaking for hydraulic lines, any stuck on wheels. Prohibit use the defective trucks.

Travel

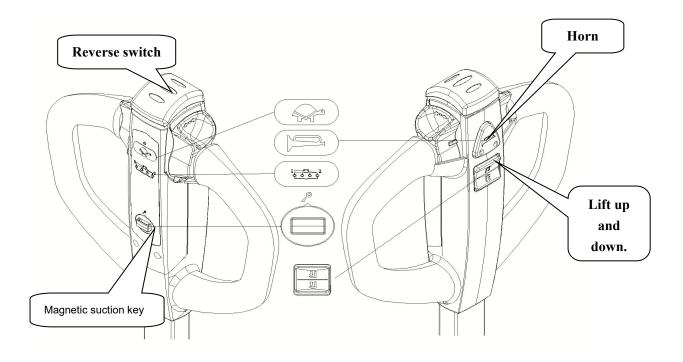


MOVE FORWARD

MOVE FORWARD

a. Push forward the speed button, the truck move forward. Speed and angle is proportional. Released the speed button, the truck speed will automatically complex to 0, and the truck will automatically stop.

b. Push backward the speed button, the truck move reverse. Speed and angle is proportional. Released the speed button, the truck speed will automatically complex to 0, and the truck will automatically stop.



The red button at the top is the emergency reverse switch, When touches this switch, the truck will be move in reverse way

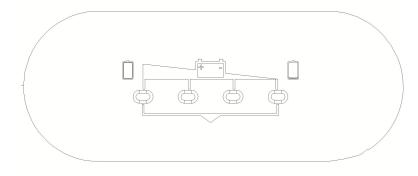
Up and down switch and horn button

The lift button is located on the right side above the rudder handle. Press this switch and the fork will move upward.

The drop button is located on the left side above the rudder handle. Press this switch to make the fork drop.

The horn button is located in the middle above the rudder handle. Press this switch to sound the horn.

Magnetic suction key: Put the magnetic suction key into the tiller hole, the car will be connected to the vehicle's main power supply. Remove the magnet key and cut off the



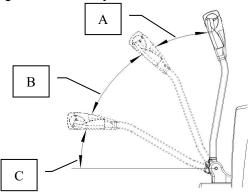
power supply.

Indicator, only when the power switch and the magnetic key are opened, it will show the power storage condition, which is displayed by four indicator lights.

a lf the indicator of the meter is displayed on the left, it indicates that the power supply is sufficient and can be used normally.

b When the indicator light of the meter shows in the middle, it means there is a small amount of power supply. Please pay attention to charging.

c, when the indicator on the right side shows, it means that the power supply is insufficient. Please charge it immediately!



Drive and brake

When the handle is in area A and C, the handle automatic braking ensures. Set the control handle to the travel range B, and the truck can move in forward or backward.

5 Maintenance

5.1Operational safety and environmental protection

- Any modification to the truck assemblies, in particular the safety mechanisms, is prohibited. The operational speeds of the truck must not be changed under any circumstances.

- Only original spare parts have been certified by our quality assurance department. To ensure safe and reliable operation of the for truck, use only the manufacturer's spare parts. Used parts, oils and fuels must be disposed of in accordance with the relevant environmental protection regulations. For oil changes, contact the manufacturer's specialist department.

5.2Maintenance Safety Regulations

Maintenance personnel

Industrial trucks must only be serviced and maintained by the trained personnel.

The manufacturer's service department has field technicians specially trained for these tasks. We therefore recommend a maintenance contract with the manufacturer's local service centre.

Electrical System

Only suitably trained personnel may operate on the truck's electrical system. Before working on the electrical system, take all precautionary measures to avoid – electric shocks.

For battery-operated trucks, also de-energise the truck by removing the key.

Settings

When repairing or replacing hydraulic, electric or electronic components or assemblies, always note the truck-specific settings.

Tyres

The quality of tyres affects the stability and performance of the truck. When replacing factory fitted tyres only used original manufacturer's spare parts, as otherwise the data plate specifications will not be kept.

When changing wheels and tyres, ensure that the truck does not slew (e.g. when replacing wheels always left and right simultaneously).

Lift chains

Lift chains wear rapidly if not lubricated.

The intervals stated in the service checklist apply to normal duty use. More demanding conditions (dust, temperature) require more regular lubrication.

The prescribed chain spray must be used in accordance with the instructions. Applying grease externally will not provide sufficient lubrication.

Hydraulic hoses

The hoses must be replaced every six years. When replacing hydraulic components, also replace the hoses in the hydraulic system.

5.3Servicing and inspection

Thorough and expert servicing is one of the most important requirements for the safe operation of the industrial truck. Failure to perform regular servicing can lead to truck failure and poses a potential hazard to personnel and equipment.

The service intervals stated are based on single shift operation under normal operating conditions. They must be reduced accordingly if the truck is to be used in conditions of extreme dust, temperature fluctuations or multiple shifts.

6.Battery Maintenance

6.1 Safety regulations for handling acid batteries

Park the truck securely before carrying out any work on the batteries.

Maintenance personnel : Batteries may only be charged, serviced or replaced by trained personnel .The present operator manual and the manufacturer 's instructions concerning batteries and charging stations must be observed when carrying out the work.

Fire protection :

- Smoking and naked flames must be avoided when working with batteries.
- Wherever a truck is parked for charging there shall be no inflammable material or operating fluids capable of creating sparks within 2 metres around the truck.
- The area must be well ventilated.
- Fire protection equipment must be provided.

Protection against electric shock:

- Battery has high voltage and energy.
- Do not bring short circuit.
- Do not approach tools to the two poles of the battery, which can cause the sparkle.

6 Possible faults and trouble shooting

No.	Fault	Reason analyze	solution
	Switch on the power, the	The electrical box panel	Replace fuse or
1	power meter no display	10A fuse blown or damage	power switch
		of the power switch.	
2	Can not reach max. lift height	Lack of Hydraulic oil	Add hydraulic oil
	Hydraulic pump station	Electromagnetic valve of	Remove the valve
	motor work with noise,	motor work with noise,	
3	foll		gasoline or
	fall.	jam or stuck.	kerosene.
	After open the power	Ascension circuit 175A fuse	Replacing the fuse
			or battery protection
	switch,with display on	blown or battery protection	controller. Such as
4	power meter, but forks can	controller is damaged.	broken again,
	not lift.		should check
	not int.		whether the circuit is
			short circuit or
			device damage.
	Oil leaking	Sealing / washer damage or	Replace with the
5		failure, nipple joint is loose	new seal and tighten
			joint

Table 2

7 Packaging & transportation

The truck is packed with wooden case. During transportation, turnover and upside-down are not allowed. Collision is not allowed when lifting and loading onto the truck. Do not damage the outward surface of the truck when opening the package

8 Warning (points for attention)

- 8.1 Read the manual carefully before operation and know well the performances of the truck.
- 8.2 It is strictly forbidden to press the lift or lower buttons while the truck is walking and frequently switching the two buttons, which might damage the truck and the goods.

8.3Do not shake the lever rapidly or with high frequency.

8.4It is not allowed to rapidly put heavy goods onto the forks.

8.5 The truck should not be overloaded. When overloaded, the truck will not be able to operate normally.

8.6 The center of gravity of the goods should be placed between the two forks, otherwise, the forks will be damaged and the goods will fall down in the process of operation.

8.7 Loose and unstable goods are not allowed to load onto the truck.

8.8 Do not put the goods on the forks for a long period of time.

8.9 Turning rapidly on narrow road is strictly forbidden. In order to ensure the safety of the people and goods, the truck should turn slowly in this situation.

- 8.10 When the truck is not in use, the forks should be lowered to the lowest position.
- 8.11 Never put any part of human body under heavy goods and forks.
- 8.12 The truck is applicable for use on plane ground and should never be parked on slope for a long period of time.
- 8.13 Over-load or over-slope operation is strictly forbidden. Otherwise the wheel will slip, damaging the wheel and the motor. The safety of people and goods will be affected as well.
- 8.14 Repairing on one's own before training is forbidden.

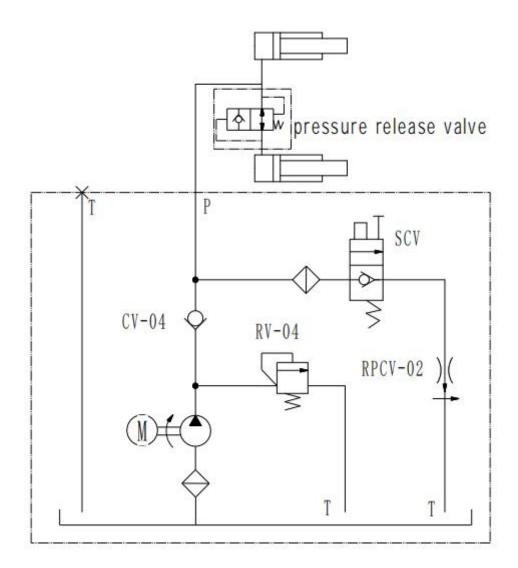
8.15 Operation of the truck under the stipulated voltage 20.4V is strictly forbidden.

8.16 It is strictly forbidden to directly connect the plug with AC power supply for charge except built-in charger.

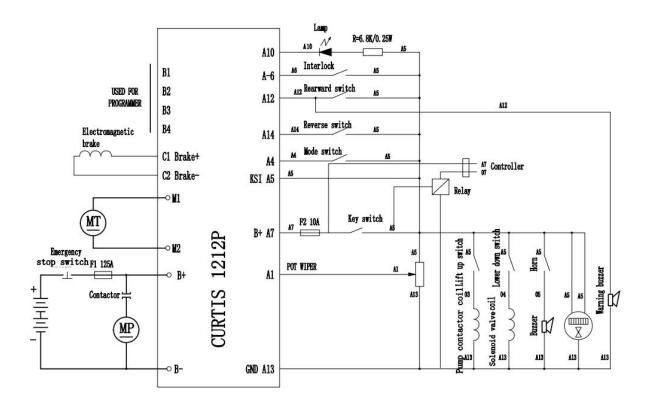
8.17 All interconnecting devices should avoid water.

8.18 when the forks lifting more than 500mm, the truck must travel at the lowest speed, and travel can not more than 2m distance.

9.Hydraulic schematic diagram



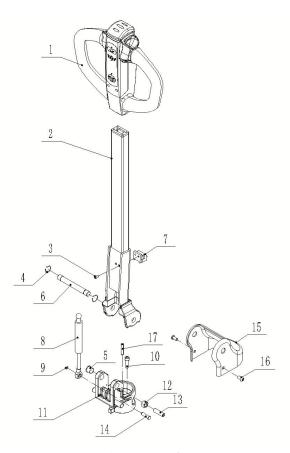
10.Electrical schematic diagram



SPAREPART LIST QDA-EL



1.Tiller system

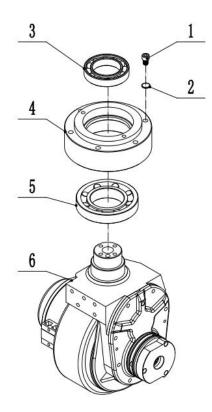


Drawing 1

Item	ERP No.	Drawing No.	Description	QTY	Note
1	11003000017	DQ131601006	Handle	1	
2	8B132009005	QBA15-1601200	Handle tube	1	
3	22101700019	GB70.2	Screw M6 $ imes$ 12	2	
4	22600900003	GB894.1	Retainer 16	2	
5	2310050000001	SF-1-16170	Bushing	2	
6	72003000116	QDA12E-10004	Shaft	1	
7	8D086001001	QDA-01201	Support block	1	
8	72009010009	QBA15-1601001	Gas spring	1	
9	22600900011	GB894.1	Retainer 8	1	
10	22101600036	GB70.1	Screw M8×30	4	
11	7200600000135	QDA10EL-0300001	Steering seat	1	
12	22400300006	GB6170	Nut M12	1	
13	22102600012	GB77	Screw M12 $ imes$ 40	1	
14	72003000301	SP150-03002	Shaft 8×35	1	
15	75000100025	QDA12E-53000	Down cover	1	
16	22101700008	GB70.2	Screw M8 \times 16	2	
17	22800700022	GB879.1	Pin 8×40	1	

Chart 1-1

2.Drive wheel system

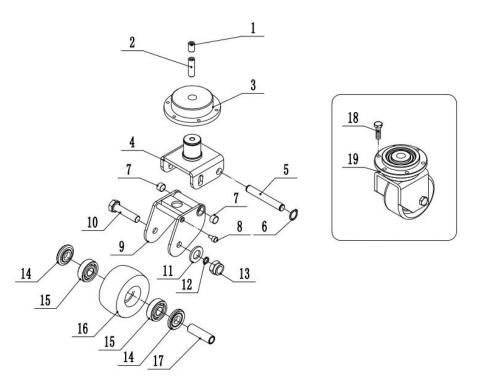


Drawing 2

8-							
Item	ERP No.	Drawing No.	Description	QTY	Note		
1	22101600036	GB70.1	Screw $M8 \times 30$	6			
2	22501200004	GB93	Washer 8	6			
3	23000100002	GB276	Bearing 6010	1			
4	72004000048	QDA12E-20003A	Bearing seat	1			
5	2300050000011	GB297	Bearing 32012	1			
6	71003000080	QBA15-02001	Drive wheel	1			

Chart 2-1

3.Balance wheel

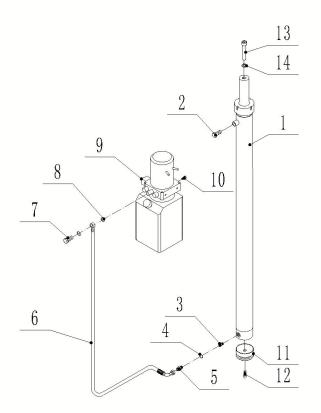


Drawing 3

Item	ERP No.	Drawing No.	Description	QTY	Note
1	22102600013	GB77	Screw M16×18	1	
2	22102600024	GB77	Screw M16×60	1	
3	23009900001	QBA20B-02083	Bearing	1	
4	8D057006001	QBA20B-02087	Wheel frame	1	
5	72003000128	QBA20B-02088	Shaft	1	
6	22600900010	GB894.1	Retainer 12	1	
7	23100100003	SF-1-1210	Bushing	2	
8	22101600024	GB70.1	Screw M6×10	2	
9	8D057005001	QBA20B-02086	Wheel frame	1	
10	22000300030	GB5782	Bolt M14 $ imes$ 110	1	
11	22500100009	GB97.1	Washer 14	1	
12	22501200007	GB93	Washer 14	1	
13	22403000011	GB889.1	Nut M14	1	
14	75000300030	QBA20B-02091	Anti-dust washer	2	
15	23000100010	GB276	Bearing 6304	2	
16	710030000103	QBA-04026	Caster	1	
17	7200400000412	QBA20B-02090	Liner tube	1	
18	22101600034	GB70.1	Screw M8×20	6	
19	8D19400100001	QDA10EL-1701000	Balance wheel assembly	1	

Chart 3-1

4.Hydraulic system

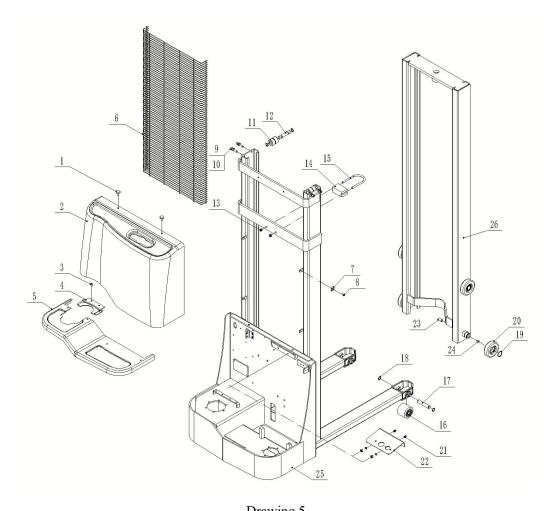


Drawing 4

Item	ERP No.	Drawing No.	Description	QTY	Note
	73007000089	BDA-13016	1.6 M Cylinder	1	
1	73007000091	BDA-13025	2.5 M Cylinder	1	
	73007000092	BDA-13030	3.0 M Cylinder	1	
	73007000094	BDA-13035	3.5 M Cylinder	1	
2	730060000081	BDA-03033	Muffler M14 $ imes$ 1.5	1	
3	73005000009	BDA-03023	Explosion-proof valve	1	
4	21001100002	JB982	Washer 14	1	
5	73006000044	BDA-03021	Connector	1	
6	73004000059	BDA-00026	High pressure oil tube	1	
7	73006000019	BDA-00020	Oil out joint	1	
8	21001100003	JB982	Washer 16	2	
9	73002000003	QDA12E-31000	Hydraulic station 24V/2.2KW	1	
10	22101600044	GB70.1	Screw M10 \times 20	2	
11	72003000107	BDA-00018	Cushion block	1	
12	22101600045	GB70.1	Screw M10 $ imes$ 25	1	
	22101600079	GB70.1	Screw M16 \times 70	1	
	22501200008	GB93	Spring washer 16	1	

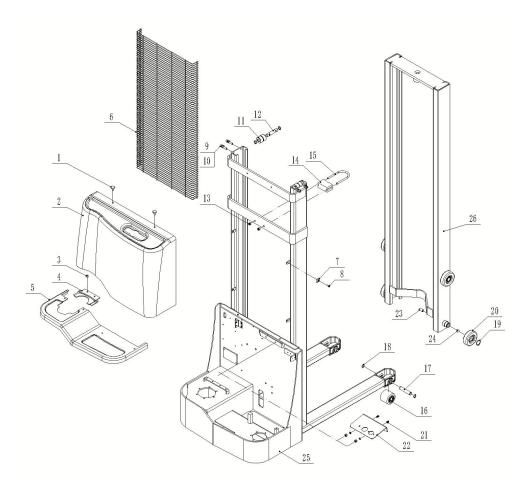
Chart 4-1

5.Double mast system



Item	ERP No.	Drawing No.	Description	QTY	Note
1	72008000001	P15S0400002A	Screw $M8 \times 18$	2	
2	75000400008	QDA12E-51000	Back cover	1	
3	75000400041	QDA12E-54000	Small down cover	1	
4	22101700007	GB70.2	Screw M8 $ imes$ 12	5	
5	75000400009	QDA12E-52000	Down cover	1	
	79000500022	BDA-00004-512	Mesh 2.5M	1	
6	79000500009	BDA-00004-752	Mesh 3.OM	1	
	79000500024	BDA-00004-1008	Mesh 3.5M	1	
7	72002000191	BDA-00001	Fixed plate	6	
8	22101600087	GB70.1	Screw $M6 \times 16$	6	
9	22101600048	GB70.1	Screw M10 \times 50	4	
10	22400300005	GB6170	Nut M10	6	
11	71003000037	BDA-00030	Side roller	4	
12	72003000404	QDA15EM8200001	Shaft	2	

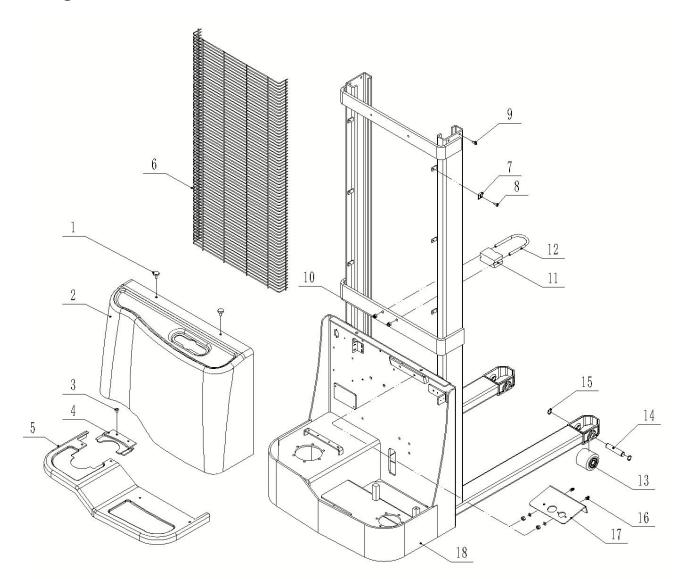
Chart 5-1



Drawing 5

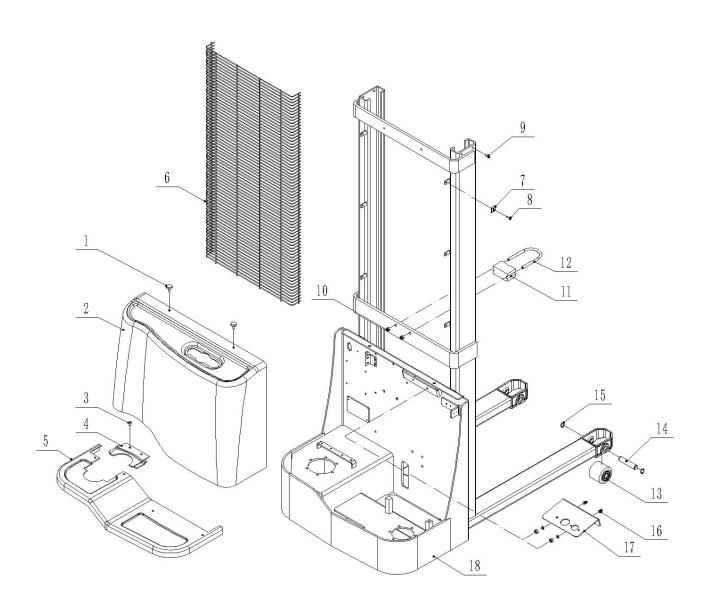
Item	ERP No.	Drawing No.	Description	QTY	Note
13	22403000008	GB889.1	Nut M10	4	
14	75000100024	BDA-00034B	Rubber pad	1	
15	72007000016	BDA-00003	0il cylinder holding	1	
16	8D05100100007	QDA12E-00030	PU wheel with bearing 80×70	2	
17	72003000405	SDA-00001	Shaft	2	
18	22600900002	GB894.1	Retainer 20	4	
19	8D031011001	BDA-06010	Side roller 106	4	
20	22600900007	GB894.1	Retainer 35	4	
21	22101600043	GB70.1	Screw M10 \times 16	2	
22	7200200000937	QDA10EL-0400002	Instrument desk	1	
23	22102600027	GB77	Screw M16×30	2	
24	23001800010	GB308	Steel ball Φ19.05	2	
	8D19200300006	QDA10EL-6425100	660 type 2.5M frame	1	
95	8D19200300007	QDA10EL-6430100	660 type 3.0M frame	1	
25	8D19200300002	QDA10EL-5425100	550 type 2.5M frame	1	
	8D19200300003	QDA10EL-5430100	550 type 3.0M frame	1	
26	8D032003015	BDA-06125	Inner mast 2.5M	1	
20	8D032003016	BDA-06130	Inner mast 3.0M	1	

6.Single mast



Item	ERP No.	Drawing No.	Description	QTY	Note
1	72008000001	P15S0400002A	Screw M8×18	2	
2	75000400008	QDA12E-51000	Back cover	1	
3	75000400041	QDA12E-54000	Small down cover	1	
4	22101700007	GB70.2	Screw M8 $ imes$ 12	5	
5	75000400009	QDA12E-52000	Down cover	1	
6	79000500011	BDA-00004-928	Mesh 1.6M	1	
7	72002000191	BDA-00001	Fixed plate	6	
8	22101600087	GB70.1	Screw M6×16	6	
9	22101600115	GB70.1	Screw M10×30	4	
10	22403000008	GB889.1	Nut M10	2	

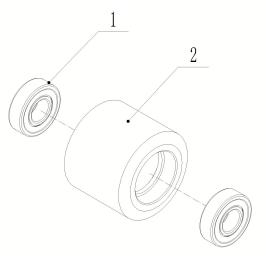
Chart 6-1



Item	ERP No.	Drawing No.	Description	QTY	Note
11	75000100024	BDA-00034B	Rubber pad	1	
12	72007000016	BDA-00003	Oil cylinder holding	1	
13	8D05100100007	QDA12E-00030	PU wheel 80×70	2	
14	72003000405	SDA-00001	Shaft	2	
15	22600900002	GB894.1	Retainer 20	4	
16	22000400020	GB5783	Bolt $M10 \times 25$	2	
17	720020000937	QDA10EL-0400002	Instrument desk	1	
18	8D19200300012	QDA10EL-0416100	660 type 1.6M frame	1	
10	8D19200300001	QDA10EL-5416100	550 type 1.6M frame	1	

Chart (5-2
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7.Loading wheel assembly

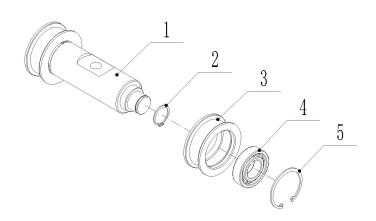




Item	ERP No.	Drawing No.	Description	QTY	Note
1	23000100001	GB276	Bearing 6204	1	
2	8D05100100008	QDA12E-00031	PU wheel $\Phi 80 \times 70$	1	

Chart 7-1

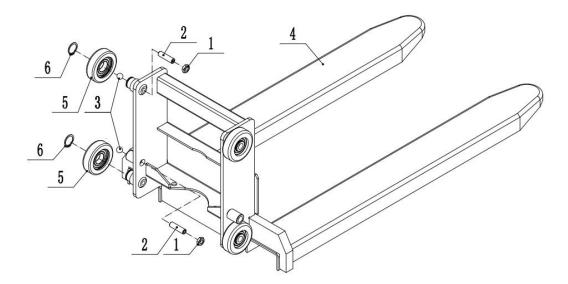
8.Wheel chain shaft



	Drawing 8				
Item	ERP No.	Drawing No.	Description	QTY	Note
1	72003000108	BDA-03031	Wheel chain shaft	1	
2	71004100002	BDA-03032	Chain wheel	2	
3	22600900008	GB894.1	Retainer 30	2	
4	23000100006	GB276	Bearing 6206	2	
5	22600700019	GB894.1	Retainer 62	2	

Chart	8-1
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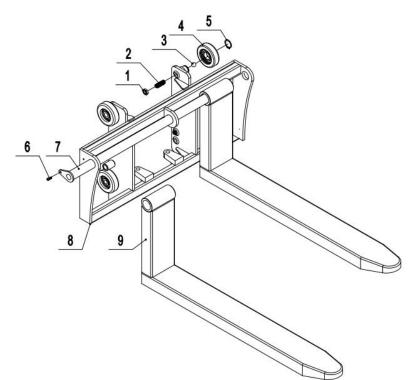
9.Fixed fork



	Drawing 9				
Item	ERP No.	Drawing No.	Description	QTY	Note
1	22400700002	GB6172.1	Nut M10	4	
2	22102600014	GB77	Screw M16×50	4	
3	23001800010	GB308	Steel ball φ19.05	4	
4	8D012007033	SDA-07410-1070	Single mast fixed fork 660×1070	1	
	8D012007034	SDA-07420-1070	Double mast fixed fork 660×1070	1	
	8D012007031	SDA-07430-1070	Single mast fixed fork 550×1070	1	
	8D012007032	SDA-07440-1070	Double mast fixed fork 550×1070	1	
5	8D031011001	BDA-06010	Side wheel 106	4	
6	22600900007	GB894.1	Retainer 35	4	

Chart 9	-1

10.Adjustable fork

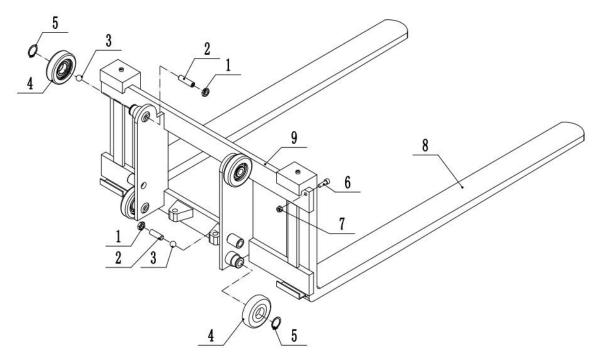


Drawing 10

Item	ERP No.	Drawing No.	Description	QTY	Note
1	22400700002	GB6172.1	Nut M10	4	
2	22102600014	GB77	Screw M16×50	4	
3	23001800010	GB308	Steel ballφ19.05	4	
4	8D031011001	BDA-06010	Side wheel 106	4	
5	22600900007	GB894.1	Retainer 35	4	
6	22101600108	GB70.1	Screw M6×16	1	
	8D032005007	BDA-00014-680	L long shaft	1	
7	8D032005008	BDA-00014-850	L long shaft	1	
	8D032005009	BDA-00014-930	L long shaft	1	
	8D032005001	BDA-07110-680	680 carrier (single mast)	1	
	8D032005002	BDA-07110-850	850 carrier (single mast)	1	
8	8D032005003	BDA-07110-930	930 carrier (single mast)	1	
ð	8D032005004	BDA-07120-680	680 carrier (double mast)	1	
	8D032005005	BDA-07120-850	850 carrier (double mast)	1	
	8D032005006	BDA-07120-930	930 carrier (double mast)	1	
	8D032006001	BDA-07210-900	Fork L=900	2	
9	8D032006002	BDA-07210-1070	Fork L=1070	2	
9	8D032006003	BDA-07210-1150	Fork L=1150	2	
	8D032006004	BDA-07210-1220	Fork L=1220	2	

Chart 10-1

11.Forged fork

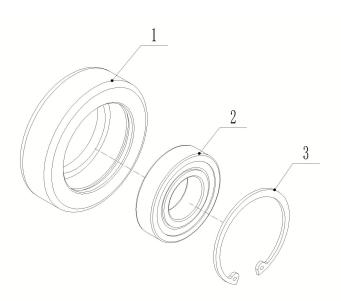


Drawing 11

Item	ERP No.	Drawing No.	Description	QTY	Note
1	22400700002	GB6172.1	Nut M10	4	
2	22102600014	GB77	Screw M16×50	4	
3	23001800010	GB308	Steel ball φ19.05	4	
4	8D031011001	BDA-06010	Side wheel 106	4	
5	22600900007	GB894.1	Retainer 35	4	
6	22101600046	GB70.1	Screw M10×35	2	
7	22403000008	GB889.1	Nut M10	2	
	8D012011001	SDA-07201	Forged fork 900	2	
8	8D012011002	SDA-07202	Forged fork 1070	2	
0	8D012011009	SDA-07203	Forged fork 1150	2	
	8D012011008	SDA-07204	Forged fork 1220	2	
	8D012005006	SDA-07130	Carrier (single mast)	1	
9	8D012005007	SDA-07140	Carrier (double mast)	1	
9	8D0520000027	QDA12E-07110	Carrier (double mast)	1	
	8D05200000026	QDA12E-07120	Carrier (single mast)	1	

Chart 11-1

12.Side wheel



Drawing 12

Item	ERP No.	Drawing No.	Description	QTY	Note
1	71004000004	BDA-06007	Side wheel	1	
2	23000100005	GB276	Bearing 6207	1	
3	22600700004	GB893.1	Retainer 72	1	

Chart 12-1

13.Chain

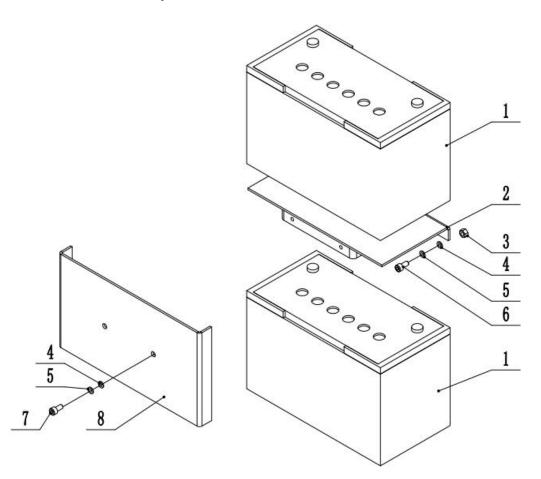


r	Drawing 13					
Item	ERP No.	Description	QTY	Note		
	23200300022	2.5M chain LH0846 149 sections	2	Fixed fork		
	7100420000040	2.5M chain LH0846 147 sections	2	Adjustable fork		
1	23200300023	3.0M chain LH0846 169 sections	2	Fixed fork		
	23200300026	3.0M chain LH0846 167 sections	2	Adjustable fork		
	23200300027	3.5M chain LH0846 189 sections	2	Fixed fork		
	23200300022	2.5M chain LH0846 149 sections	2	Adjustable fork		

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Chart 13-1

14.ACID-Lead battery

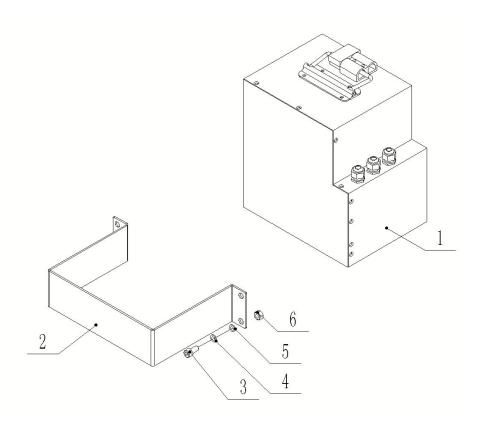


Drawing 14

Item	ERP No.	Drawing No.	Description	QTY	Note
1	11009000034	QDA15EM1380102	Battery 12V85Ah	2	
	1100900000071	QDA10EL-1381000	Battery 12V65Ah	2	
2	8D057009001	QDA12E-00010A	85Ah battery seat	1	
	8D19200500001	QDA10EL-0400010	65Ah battery seat	1	
3	22400300003	GB6170	Nut M8	2	
4	22500100006	GB97.1	Washer 8	4	
5	22501200004	GB93	Spring washer 8	4	
6	22101600035	GB70.1	Screw M8 $\times 25$	2	
7	22101600034	GB70.1	Screw M8×20	2	
8	8D05701000002	QDA12E-00003A	Battery cover	1	

Chart	13-1

15.Lithium battery

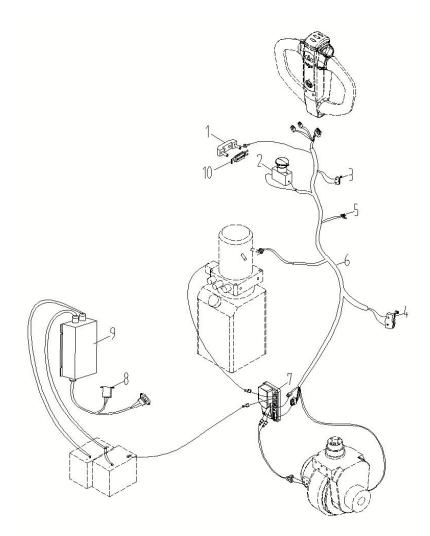


Drawing 15

Item	ERP No.	Drawing No.	Description	QTY	Note	
1	8D174002003	QDA15EM1380200	Lithium battery 24V/50Ah	1		
2	7200200000976	QDA12E-00013	Battery fix plate	1		
3	22101600035	GB70.1	Screw M8 $ imes$ 25	3		
4	22500100006	GB97.1	Washer 8	3		
5	22501200004	GB93	Spring washer 8	3		
6	22400300003	GB6170	Nut M8	3		

Chart 14-1

16.Electric System



Item	ERP No.	Drawing No.	Description	QTY	Note
1	15000900012	QBA15-1350007	Fuse seat	1	
2	11006000038	BBM-1340003	Emergency button	1	
3	11006000022	QDA12E-1340002	Microswitch	1	
4	11006000021	QBA15-1340003	Microswitch	1	
5	15000900020		Fuse 10A	1	
6	120000000147	QDA10EL-1321000	Wire	1	
7	11007000030	DQJ130201004	Controller	1	
8	15000600002	QBQ-08052	Relay	1	
9	1100910000049	QDA10EL-1351000	Built-in charger	1	
10	15000900011	QBA15-1350003	Fuse 100A	1	

Chart 15-1

Seal kit						
Item	ERP No.	Drawing No.	Description	QTY	Note	
1	21000400043	AR2342E5	Dust ring $40 \times 52 \times 7/10$	1		
2	21000400003	CF C2 $40 \times 50 \times 6$	U seal ring $40 \times 50 \times 6$	1		
3	21000400044	CO 0640A	0 seal ring d55.6 \times 2.4	1		
4	75000300101	CG000301-004	Support ring $56 \times 2.5 \times 20$	1		
5	75000300102	CG000301-005	Stop plate $56 \times 45 \times 3$	1		
6	21000400001	FU2144L0	U seal ring $56 \times 45 \times 7$	1		

Chart	15-1
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T 4	EDD N		ring parts	0777	NT /
Item	ERP No.	Drawing No.	Description	QTY	Note
1	11003000017	DQ131601006	Handle	1	Chart 1-1/1
2	2310050000001	SF-1-16170	Bushing	2	Chart 1-1/5
3	72009010009	QBA15-1601001	Gas spring	1	Chart 1-1/8
4	23000100002	GB276	Bearing 6010	1	Chart 2-1/3
5	2300050000011	GB297	Bearing 32012	1	Chart 2-1/5
6	23100100003	SF-1-1210	Bushing	2	Chart 3-1/7
7	710030000103	QBA-04026	Caster	1	Chart 3-1/16
8	21001100002	JB982	Washer 14	3	Chart 4-1/2
9	73004000059	BDA-00026	High pressure oil tube	1	Chart 4-1/6
10	21001100003	JB982	Washer 16	2	Chart 4-1/8
11	8D05100100007	QDA12E-00030	PU wheel with bearing 80×70	2	Chart 5-2/16
12	8D031011001	BDA-06010	Side wheel 106	4	Chart 5-2/19
13	23000100001	GB276	Bearing 6204	1	Chart 7-1/1
14	8D05100100008	QDA12E-00031	PU wheel $\Phi 80 \times 70$	1	Chart 7-1/2
15	23000100006	GB276	Bearing 6206	2	Chart 8-1/4
16	71004000004	BDA-06007	Side wheel	1	Chart 12-1/1
17	23000100005	GB276	Bearing 6207	1	Chart 12-1/2
	23200300022		2.5M chain LH0846 149 sections	2	Chart 13-1/1
	7100420000040		2.5M chain LH0846 147 sections	2	Chart 13-1/1
10	23200300023		3.0M chain LH0846 169 sections	2	Chart 13-1/1
18	23200300026		3.0M chain LH0846 167 sections	2	Chart 13-1/1
	23200300027		3.5M chain LH0846 189 sections	2	Chart 13-1/1
	23200300022		2.5M chain LH0846 149 sections	2	Chart 13-1/1
19	11009000034	QDA15EM1380102	Battery 12V85Ah	1	
20	1100900000071	QDA10EL-1381000	Battery 12V65Ah	1	Chart 14-1/1
21	8D174002003	QDA15EM1380200	Lithium battery 24V/50Ah	1	Chart 15-1/1
22	11006000038	BBM-1340003	Emergency button	1	Chart 16-1/2
23	11006000022	QDA12E-1340002	Microswitch	1	Chart 16-1/3
24	11006000021	QBA15-1340003	Microswitch	1	Chart 16-1/4
25	15000900020		Fuse 10A	1	Chart 16-1/5
26	1100700000030	QBA15-1311000	Controller	1	Chart 16-1/7
27	15000600002	QBQ-08052	Relay	1	Chart 16-1/8
28	1100910000049	QDA10EL-1351000	Built-in charger	1	Chart 16-1/9
29	15000900011	QBA15-1350003	Fuse 100A	1	Chart 15-1/10

Chart 16-1