1.2 Main technical parameters（UT15RS Electric Platform Stacker）

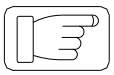
Characteristics	1.1	Manufacturer(abbreviated)				
	1.2	Model			CDDK15-Ⅱ（standard）	
	1.3	Driving model：Electric(Storage battery),			Electric(storage battery)	
	1.4	Driving model（Manual, Walking, Stand driving, seat driving ,Order picking）			Stand driving	
	1.5	Rated load	Q(kg)		1500	
	1.6	Load center distance	c(mm)		600	
	1.8	Front overhang	x(mm)		672	
	1.9	Tread	Y(mm)		1378	
Weight	2.1	Service weight(with battery)	kg		1510	
	2.2	Axle load, front/rear, laden	kg		1830/1140	
	2.3	Axle load, front/rear, unladen	kg		1040/470	
Wheel chassis	3.1	Wheels (rubber, high elasticity, pneumatic tyre, polyurethane wheel)			polyurethane	
	3.2	Wheel dimension, front			φ250×70	
	3.3	Wheel dimension, rear			φ80×84	
	3.4	Additional wheel(dimension)			φ150×60	
	3.5	Wheel number, front/rear （x = driving			1x+2/4	
	3.6	Tread, front	b_{10}(mm)		580	
	3.7	Tread, rear	b_{11}(mm)		404/530	
Dimension	4.2	Height of mast, lowered	h_1(mm)		1735/1985/2135/2235	2050/2210/2410
	4.3	Free lift height(optional)	h_2(mm)		1300/1550/1700/1800	1570/1740/1940
	4.4	Lift height	h_3(mm)		2500/3000/3300/3500	4500/5000/5600
	4.5	Max. height of mast, extended	h_4(mm)		2955/3455/3755/3955	5030/5510/6110
	4.9	Min. /Max. height of operation handle in	h_{14}(mm)		1150/1450	
	4.15	Height, lowered	h_{13}(mm)		90	
	4.19	Overall length	l_1(mm)		2020/2100	
	4.20	Length to fork face	l_2(mm)		950	
	4.21	Overall width of truck body	b_1(mm)		850	
	4.22	Fork dimension	s/e/l(mm)		60/180/1070(1150)	
	4.25	Overall width of fork	b_5(mm)		570/695	
	4.32	Wheelbase ground distance	m_2(mm)		31	
	4.33	Aisle width, with pallet 1000x1200	A_{st}(mm)		2535	
	4.34	Aisle width, with pallet 800x1200	A_{st}(mm)		2515	
	4.35	Turning radius	W_a(mm)		1655	
Performance Data	5.1	Traveling speed, laden/unladen	Km/h		6.5/6.7	
	5.2	Lifting speed, laden/unladen	m/s		0.11/0.14	
	5.3	Descending speed, laden/ unladen	m/s		0.15/0.13	
	5.8	Max. gradeability, laden/unladen	%		8/15	
	5.10	Traveling brake			Electromagnetic brake	
Motor	6.1	Driving motor power	kW		1.2(AC)	
	6.2	Lifting motor power	kW		3	
	6.4	Battery voltage/rated capacity	V/Ah		24/240	24/300
	6.5	Battery weight	kg		220	260
		Battery dimension（LXWXH）	mm		675×254×500	675×254×540
	8.4	Noise level at operator's ear, according to DIN12053	dB(A)		70	
1.Parameters relating to h1、l、Q shall be calculated according to h1=3000mm and l=1070mm.						

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9．Periodic maintenance and repair:

Comprehensive check for truck can avoid malfunction and ensure the service life. The hours listed in maintenance procedures is based on the cases that the truck works for 8 hours per day and 200 hours per month. For the sake of safety, maintenance shall be carried out according to maintenance procedure.

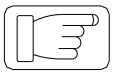


Notice

All the repair work shall be carried out by professional personnel.

Please contact the sales department of our company if you need to adjust or replace the components.

9．1 Precautions during maintenance:

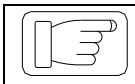


Notice

The components for replacement shall be produced completely by our company. When replacing components of the truck, the components with the same safety requirement with the original design shall be used.

The lubricating oil and hydraulic oil in use shall be recommended by our company.

(1) Places for maintenance:



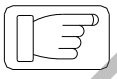
Notice

The places for maintenance shall be appointed and can provide other services such as hoisting and safety protection facility etc.

The places shall have level ground and good ventilation.

The places shall be equipped with fire-extinguishing devices.

(2) Precautions before repair and maintenance:



Notice

No smoking.

Arrange the self-protection work.

Wipeout the effusive oil in time.

Before adding lubricating oil, clean up the dirty oil or dust on the joint with brush or cloth.

Except certain situation, turn off the key switch and pull off the power socket.

Lower down the fork arms to the lowest point when carrying out maintenance.

Ensure no goods on the truck when demounting the high pressure oil pipe. Besides, the fork arms shall be descended to the lowest position, by this way, the pressure of hydraulic system can be released.

For the reason that there are capacitors storing a little amount of electric energy in circuit, so before contacting the binding post of the main circuit, discharge at first.

Clean the electric section with compressed air, never flush with water.

When the truck requires high-position maintenance, the altitude safety protection must be carried out for the repairing and maintenance personnel.

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12. Common faults and trouble shooting:

No.	Faults	Possible causes	Trouble shooting
1	The stacker can not start.(The contactor does not work either)	① The fuse of control circuit is burnt out.	Replace
		②The power switch is in poor connection or is damaged.	Repair or replace
		③ Fuse of main circuit is blown.	Replace
		④The switch of electric lock is in poor connection or damaged.	Repair or replace
		⑤The connection of the storage batteries is loose or has fallen off.	Tighten
	The stacker can not start.(The contactor works.)	① The side-magnetic brake of the drive wheel does not suck and the stacker is in a braked condition.	Repair or replace
		②The walking motor carbon brush is worn or bad contact between the steering device and the carbon-brush.	Repair or replace
		③ The magnet-exciting coil of the stepper motor is broken or bad contact at the wire end.	Repair or replace
		④ Bad contact.	Repair or replace
		⑤ There is a trouble at the MOSFET tube type circuit board.	Repair or replace
2	The stacker can only move forward or backward.	①The contactor is in poor connection or burnt out.	Repair or replace
		② There is malfunction in circuit board.	Repair or replace
3	The stacker can not stop during traveling.	Broken contact. The moving contact cannot be reset.	Cut off the power at once and replace the contact
4	The brake does not work	①The erection bolt of the fine motion switch looses or is damaged.	Adjust or tighten the bolt or replace the fine motion switch.
		②The connecting wire of the side-magnet brake is loose or damaged	Tighten the bolt or repair the side-magnet brake.
		③ The braking plates of the side-magnet brake are worn.	Replace the braking plates.
5	The steering has got stuck	① The bearing of the steering device is damaged.	Replace the bearing
		② The bearing of the steering device lacks lubricant or there is too much dust	Clean the bearing

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	contactor, electromagnetic brake, the motor does not work)	2 controller failure
1，4	Pre-charge Failed Pre-charge failure (main contactor, electromagnetic brake, the motor does not work)	1. Capacitors connected externally (B + terminal) to prevent a load capacitor. 2. View capacitor voltage monitor menu.
1，5	Controller Severe under temperature Controllers work under low temperature protection (main contactors, motor, electromagnetic brake, the governor does not work; full braking input)	1. The controller operates in extreme environments (below -40 ℃). 2. View Controller Temperature Monitor menu.
1，6	Controller Severe under temperature. The controller operates on over-temperature protection temperature (main contactors, motors, electromagnetic brake, the governor does not work; full braking input)	1. The controller working under extreme temperature conditions (above 95 ℃). 2. Vehicle overloading. 3. the controller is not installed suitable. 4. View Controller Temperature under Monitor menu.
1，7	Severe low battery voltage (Drive torque decreases)	1. Battery voltage parameter setting error. 2. The battery is exhausted. 3. Battery internal resistance is too high. 4. the battery is not connected when driving 5. View capacitor voltage under monitor menu. 6. B + fuse or the main contactor is not closed.
1，8	Severe Overvoltage (Main contactors, motors, electromagnetic brake, the governor does not work; full braking input)	1. Battery voltage parameter setting error. 2. the battery resistance is too high when regenerative brake 3. Battery is not connected when regenerative braking. 4 View capacitor voltage under monitor menu.
2，1	Controller low temperature Cutback Controller low cut (driving and braking torque reduction)(VCL language fails when the controller does not start)	The controller features cold cuts take effect. 1. The controller operates in very limited conditions. 2. View Controller Temperature under monitor menu.
2，2	Controller Over temperature Cutback Controller overheat cut(driving and braking torque reduction)	Controller overheat cut in effect. 1. The controller working under extreme temperature conditions. 2. Vehicle overloading. 3. Controller is installed properly. 4. View Controller Temperature under Monitor menu.
2，3	Under voltage Cutback (drive torque decreases)	Under normal operating conditions, the battery needs to be charged, the controller low-restriction in effect.

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14．Lists of accessories, spare parts and vulnerable parts

14.1 Lists of UT15RS （without full free lift）accessories, spare parts and vulnerable parts

No.	Name	Use position	Type & specification	Quantity	Remarks
1	Key to the electric lock	Unlock the electric lock		2	
2	Charging plug and socket	Matched with the charger		1 set	With no charger for built-in type
3	Fuse	Electric equipment	10A	2	
4	Fuse	Electric equipment	100A	1	standard
5	Fuse	Electric equipment	180A/425A	1	standard/high-standard
6	Sealing ring	Oil cylinder	UHS38	2	
7	O type sealing ring	Oil cylinder	45X2.65	2	
8	Composite ring	Oil inlet of cylinder	D16	2	
9	Dustproof ring	Oil cylinder	DH38	2	

14.2 Lists of UT15RS （with full free lift）accessories, spare parts and vulnerable parts

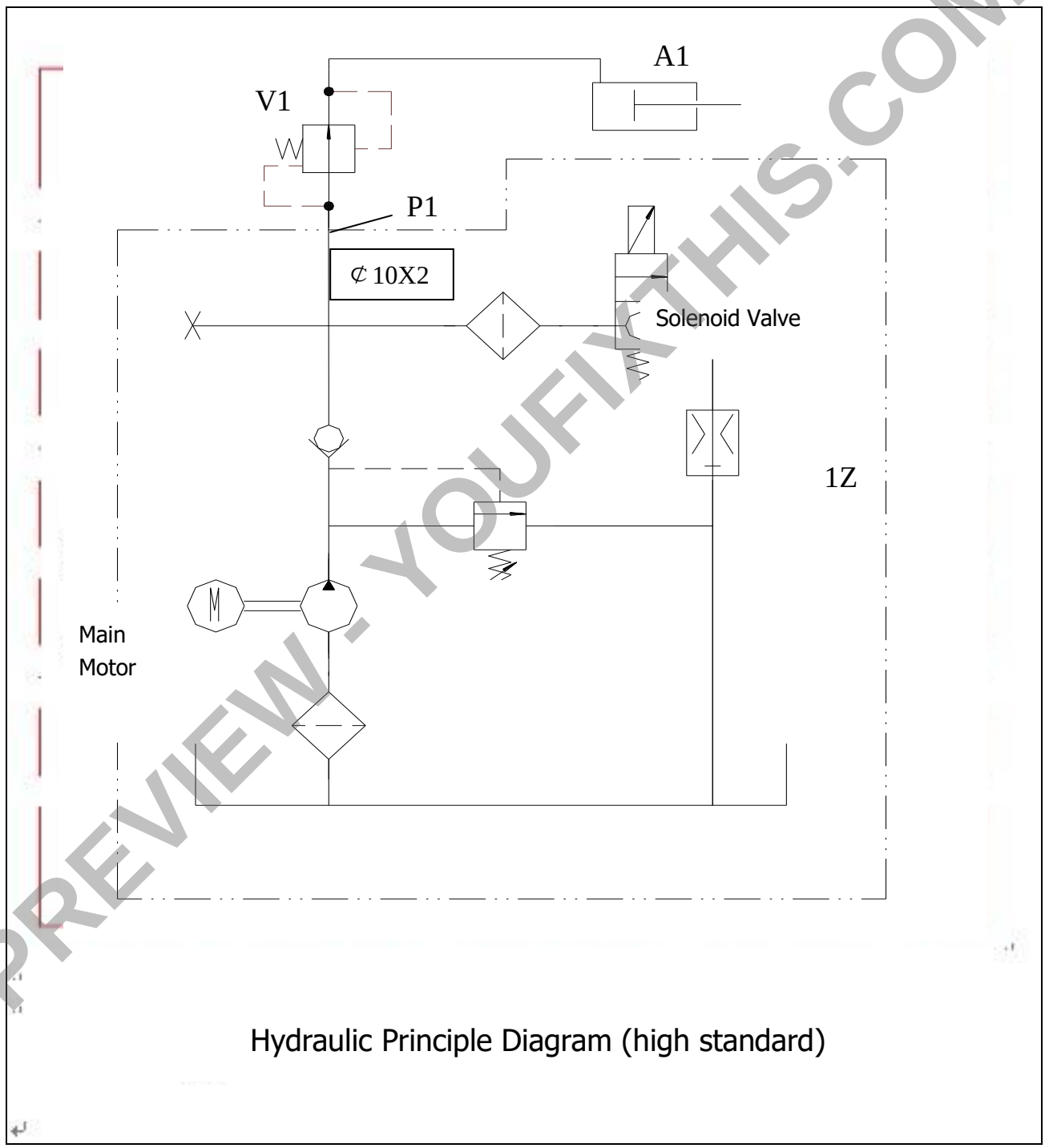
No.	Name	Use position	Type & specification	Quantity	Remarks
1	Key to the electric lock	Unlock the electric lock		2	
2	Charging plug and socket	Matched with the charger		1 set	With no charger for built-in type
3	Fuse	Electric equipment	10A	2	
4	Fuse	Electric equipment	100A	1	standard
5	Fuse	Electric equipment	180A/425A	1	standard/high-standard
6	Sealing ring	Oil cylinder	UHS27	2	
7	O type sealing ring	Oil cylinder	45X2.65	2	
8	O type sealing ring	Oil cylinder	14X2.65	1	
9	Composite ring	Oil inlet of cylinder	D16	2	
10	Dustproof ring	Oil cylinder	DH27	2	

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15．Structure diagram (explosion diagram) and principle diagram of the major parts

See attached diagram I for "The principle diagram of hydraulic system"
See Electric Instructions for "Instruction of the electric system"
See attached diagram II for "The explosion diagram"



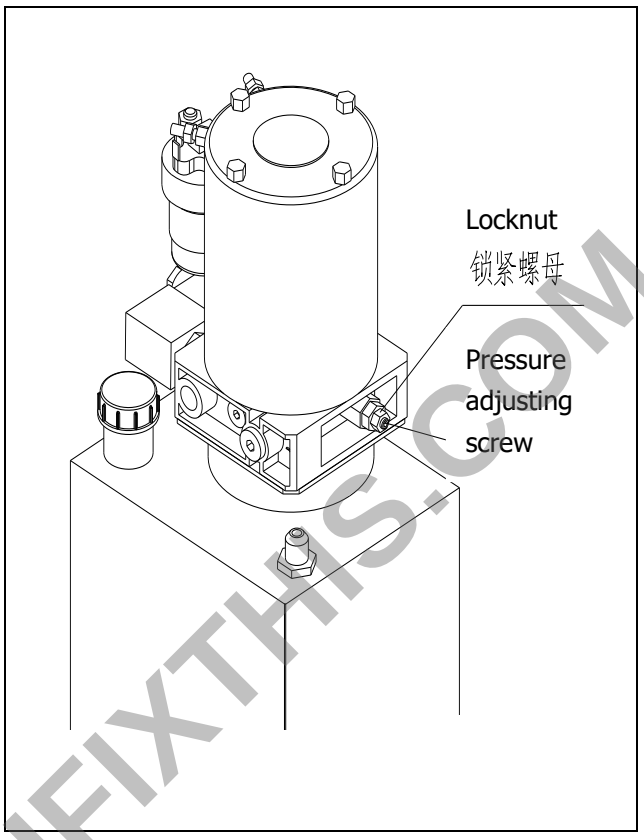
Hydraulic Principle Diagram (high standard)

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12．1 Adjustment methods of safety valve pressure

The pressure of safety valves has already been adjusted when the truck is ex-factory. Users shall not adjust the pressure at will. Otherwise it will bring danger to the truck's hydraulic system and safety. If the oil pressure is not in accordance with specified value, please ask the professional personnel to adjust according to the test methods stipulated in the JB/T3300 standards as well as the following methods:



1 Screw out high pressure oil tube and install pressure meter with capacity over 20Mpa at the high pressure oil outlet.

2 Press lifting operation button to measure the system pressure. The stipulated system pressure is 16Mpa for truck with rated load of1500KG and 16.5 Mpa for truck with rated load of 2000KG.

3 If oil pressure is not in accordance with the specified value, please loosen locknuts of the overflow valves. Turn pressure screw left and right until the pressure reaches the specified value. When the screw is turned clockwise, the system pressure increases. While the screw is turned counter-clockwise, the system pressure decreases.

4 After the adjustment, please screw down the locknuts.

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the stacker can only lift or lower but not travel; when the control handle is in division B, the stacker can travel as well as lift or lower. The operation position of the handle will not be specially described in the following descriptions, i.e. the stacker can only lift or lower but not travel when the handle is in division A or C and the handle must be in division B when the stacker is traveling.

5．2．2 As indicated in Fig. II, there is a button on the operation handle which is used for slowing down the stacker. When this "slow down" button is pressed as well as accelerate knob is turned, the stacker will travel at a low speed. This state is best suitable for turning a corner, stacking and moving into and out of the shelf while taking goods. When the "slow down" button is released and the accelerate knob is turned, the stacker will travel at a normal speed.

5．2．3 Safety height：

The safety lift height for mast is about 1.8m (according to the assembled mast): If the mast is lifted to a height which is over the safety height, the stacker will slow down to about 3km/h.

5．2．4 Operation of handling and stacking:

Notice

Please check the following items before operation of the stacker:
Ensure no goods falling and goods damaged at loading and unloading area.
Ensure no goods or objects impeding for safety.

As indicated in Fig. II, pull out the general power supply switch, unlock the electric door lock, and drive the stacker to the goods pile nearby. (The tip of the fork is 300mm from the goods pile). Press the lowering button, adjust the height of the fork to a proper position, and insert the fork slowly and as deep as possible into the pallet of the goods. Press the lifting button till the fork is 200-300mm from the ground. Drive the stacker to the location of the goods shelf and stop slowly. (The tip of the fork is 300mm from the goods shelf.) Press the lifting button and the fork rises to a proper height with the shelf (The bottom of the pallet is about 100mm higher than the goods shelf). Move the goods slowly to the accurate position of the shelf and press the lowering button to put the goods carefully on the shelf. Take the fork away from the goods and drive the stacker slowly to make the fork out of the goods pallet. (The tip of the fork is 300mm from the goods shelf.) Lower the fork until it is 300mm from the ground and drive the stacker away from the shelf. Attention should be paid to that there should be no obstacles around and when turning, the speed should be reduced.

Caution

The driving mechanism of truck is installed on the foreside. Due to this difference from common vehicles, the foreside of truck swings comparatively fast when turning around. For this reason, to prevent collision with other objects nearby the foreside of truck, do drive or turn slowly.

5．2．5 Operation of taking goods off the goods shelves：

As indicated in Fig. II, pull out the general power supply switch, unlock the electric door lock, and drive the stacker to the goods shelf nearby. (The tip of the fork is 300mm from the goods shelf). Press the lowering button, adjust the height of the fork to a proper position, and insert the fork slowly and as deep as possible into the pallet of the goods. Press the lifting button to lift the goods till the bottom of the

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