

Instruction Manual

Mini Stacker



Note: The Owner/Operator must read carefully and understand all the information presented here before operation.

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THANK YOU FOR USING THIS MINI STACER. FOR YOUR SAFETY AND CORRECT OPERATION, PLEASE CAREFULLY READ THIS INSTRUCTION BEFORE USING IT.

NOTE: All of the information reported herein is based on data available at the moment of printing. The factory reserves the right to modify its own products at any moment without notice and incurring in any sanction. So it is suggested to always verify possible updates.

1. PREFACE

This mini hand winch stacker is a lightweight maneuverable and reliable working tool. Its compact construction makes it suitable for narrow spaces and easy to operate. It finds extensive application in warehouses, supermarkets, etc. For depositing and collecting goods to and from shelves.

2. SAFETY INSTRUCTION

2.1 General Safety Instruction

- (1) The operator must read this instruction manual carefully and strictly follow its instructions.
- (2) This unit shall only be operated on flat and smooth hard floors such as a concrete floor. If any load needs to be moved, the floor shall have a maximum allowable gradient $\leq 2\%$.
- (3) The ambient temperature for operation is $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$.
- (4) The fork or any objects on it shall not hit any obstructs in its lifting process.
- (5) Stacker's loading capacity depends on operator's skills, road conditions as well as stacker's running status, maintenance conditions and frequency.

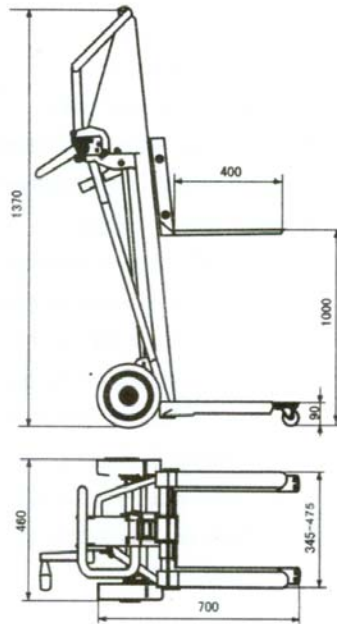
- (6) This unit shall only be employed for some limited transport when handling goods. It must not travel with the fork sitting at its top position.
- (7) While lifting the load, the stacker should be braked to a stop to prevent its body from swiveling or becoming unsteady.

2.2 Additional Safety Instruction

- (1) Never rise to the rated maximum lift height. Place the load uniformly and securely with reference to the load distribution layout.
- (2) Travel carefully with the fork carrying the load, especially on turning and traveling down the slope.
- (3) Do not leave the load on the fork for a long time. Do not keep the fork at its rising position after the operation but always lower it to its lower limit.
- (4) Place the load against fork's elbow when traveling down the slope.
- (5) Never raise the fork before its free movement is ensured.

3. TECHNICAL SPECIFICATION

Model	PM120
Capacity	120kg
Lifting height	1000mm
Min. forkheight	≤90mm
Fork width	Adjustable 345~475mm
Individual fork width	50mm
Fork length	400mm
Load wheel	Φ 50×20mm
Steering wheel	Φ 200/50~140mm
Net weight	31kg



4. OPERATING INSTRUCTION

- (1) Parts and components of the stacker should be complete and sound as well as properly adjusted and tested before delivery from the factory.
- (2) Check to see that all parts and components of the stacker are complete and sound upon unpacking. The stacker shall only be operated if everything's been proved all right about it.
- (3) The operational environment and conditions, the load to be carried and stacker's traveling must meet basic requirements and instructions for safe operation.
- (4) If the fork needs to be raised, just wind the crank handle clockwise. If the crank handle is released, the fork will be stopped to still.

- (5) If the fork needs to be lowered, just wind the crank handle counterclockwise. The lowering speed can be controlled through controlling the winding speed.
- (6) The stacker will be braked to still if the brake handle is pressed. The brake will be released if the brake handle is raised.

5. MAINTENANCE

- (1) Routine maintenance and immediate replacement of wearing parts will prolong stacker's lifetime as well as shorten its downtime.
- (2) Repairs and maintenance must be performed by experienced professionals.
- (3) Assembly and disassembly shall be performed by experienced professionals. Explosive View if repairs or maintenance are necessary.
- (4) Repairs or maintenance shall be performed with reference to the detailed Parts List and the wearing parts shall be replaced immediately.
- (5) Clean, inspect regularly and lubricate.

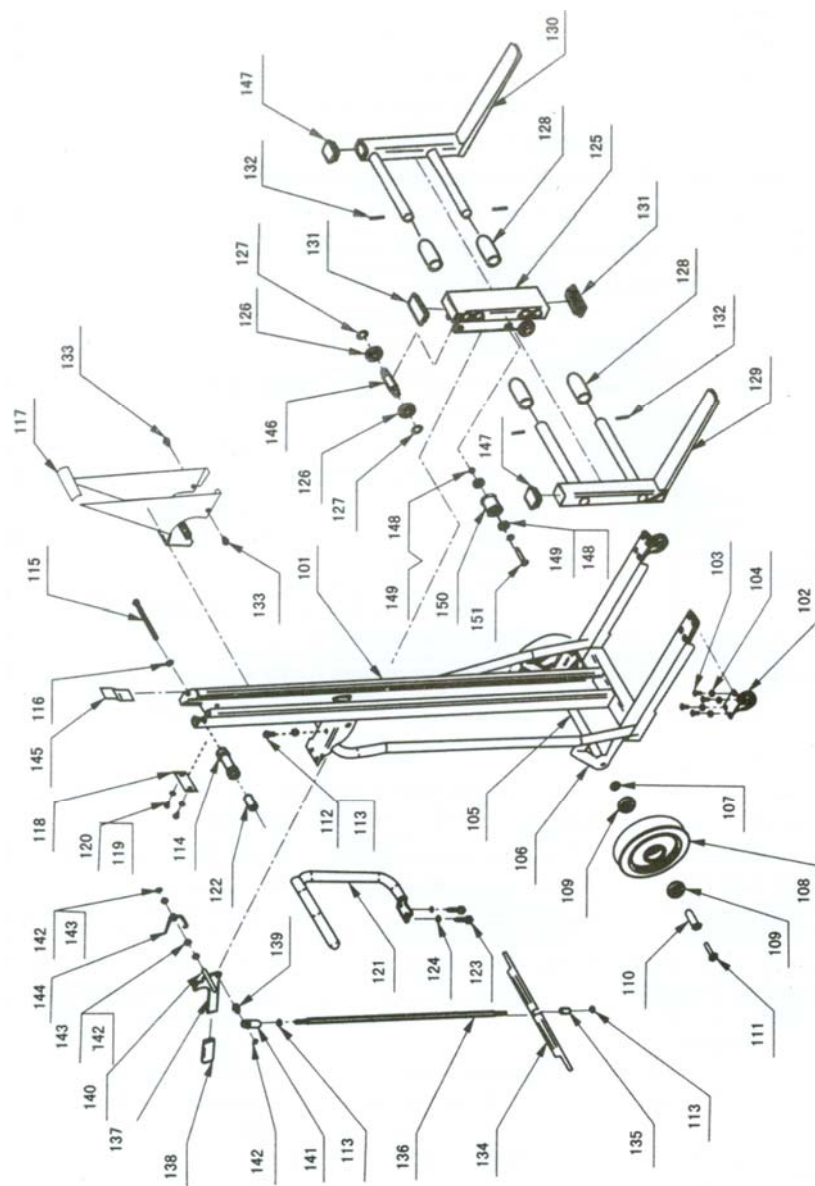
Parts	Interval	Particular
Lifting Belt	4 weeks	Check its wear and tear. Replace the belt if has serious wear or scuff.
Brake	4 weeks	Check all movable parts. Make proper adjustment if the brake becomes unsteady
Gear wheel, Ratchet Wheel and Ratchet	2 weeks	1. Check gear wheel, ratchet wheel and ratchet. Replace any whose wearing value or deformation exceeds 0.1mm. 2. Check click spring. Replace the spring

Gearing		immediately if it losses elasticity or is deformed. 3. Apply sodium-soap grease
Wheel	4 weeks	Check its wear and tear. Replace the wheel if its wearing value exceeds 1mm

6. TROUBLESHOOTING

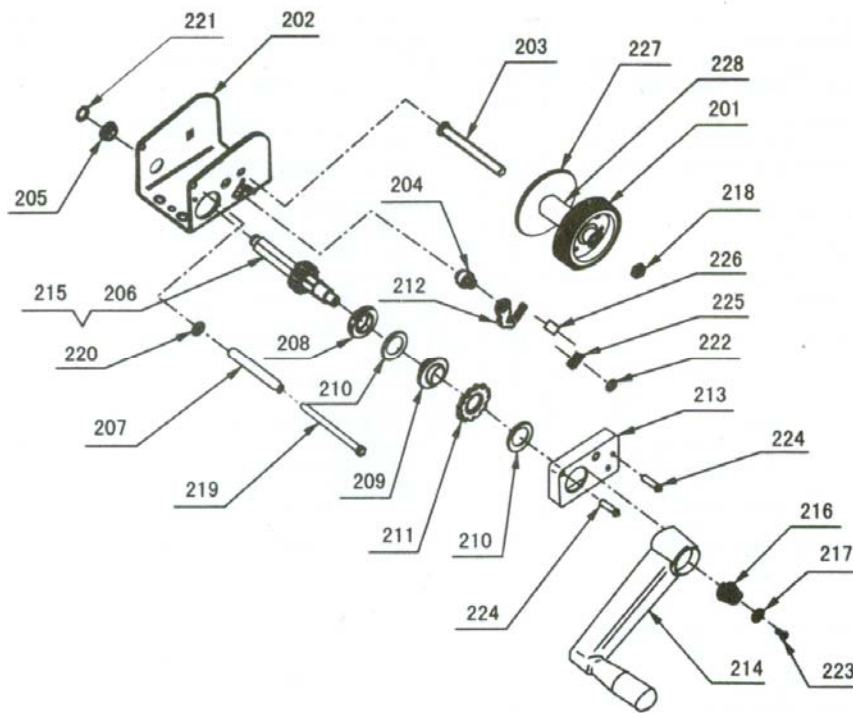
Failure	Cause	Solution
The fork dose not rise if the crank handle is wound clockwise	1. The belt is wound loose. 2. The gear wheel has secondary wear.	1. Rewind the belt. 2. Replace the gear wheel. 3. Adjust safety valve's screws.
The fork dose not lower or lowers unsteadily if the crank handle is wound counterclockwise	1. The belt is wound up. 2. The fork roller is stuck.	1. Adjust belt winding. 2. Check fork roller's guide channel. Make adjustment and lubricate. Replace the roller if necessary.
The fork lowers automatically	1. The ratchet is worn out. 2. The click spring has no elasticity. 3. The ratchet is detached	1. Replace the ratchet. 2. Replace the click spring 3. Readjust or reinstall the ratchet gearing.
The fork dose not rise to its upper limit	The belt is not long enough	Replace the belt

7. EXPLODED VIEW & PART LIST



No	Description	Qty	No	Description	Qty
101	Body Frame Assembly	1	127	Insert Washer	4
102	Front Wheel Assembly	2	128	Pipe Sleeve	4
103	Slotted Countersink Head Screw, M6*15	8	129	Rightward-Moving For124k	1
104	Self-locking nut, M6	8	130	Leftward-Moving Fork	1
105	Distance Tube	1	131	Big Cover Cap	2
106	Wheel Carrier	2	132	Elastic Cylindrical Pin, 3*35	4
107	Washer	2	133	Hexagon Flange Screw, 6*12	2
108	Rear Wheel	2	134	Balance Bar	1
109	Bearing 80204(20*47*14)	4	135	Rod Bush	1
110	Rear Wheel Insert Sleeve	2	136	Hand Brake Lever Rod	1
111	Socket Head Screw, M10*50	2	137	Brake Handle	1
112	Hex Head Screw, M8*20	1	138	Handle Case	1
113	Nut M8	5	139	Handle Pin	1
114	Belt Guide Pulley	1	140	Pin Axle	1
115	Hex Bolt, M8*130	1	141	Threaded Rod Coupler	1
116	Flat Washer, 8	1	142	Washer 10	3
117	Shield	1	143	Spacer	2
118	Clamping Plate	1	144	Torque Spring	1
119	Flat Washer 6	2	145	Guidance Tape	1

120	Pan Head Philips Screw, M6*10	2	146	Pin Axle	2
121	S-shape Tube	1	147	Small Cover Cap	2
122	Threaded Sleeve	1	148	Washer	2
123	Hex Head Screw, M8*40	2	149	Bearing 80100 (10*26*8)	2
124	Spring Washer 8	2	150	Pin Axle	1
125	Carriage Assembly	1	151	Pulley	1
126	Bearing 80302 (15*42*13)	1			



No.	Description	Qty	No.	Description	Qty
201	Big Spur Gear	1	215	Small Spur Gear	1
202	Axle Box Body	1	216	Conical Spiral Spring	1
203	Round Head Square	1	217	Washer	1
204	Insert Axle	1	218	Nut M10	1
205	Sleeve	1	219	Hex Bolt M6*100	1
206	Spindle	1	220	Nut M6	1
207	Sleeve Pipe	1	221	Washer 14	1
208	Copper Pipe	1	222	Washer 10	1

209	Hex Sleeve	1	223	Countersink Head Philips Screw, M5*10	1
210	Copper Washer	2	224	Pan Head Philips Screw M6*10	2
211	Saw-Toothed Washer	1	225	Spring	1
212	Clutch Mechanism	1	226	Rubber Sleeve	1
213	Casing	1	227	Wheel Blade	1
214	Crank Handle	1	228	Belt Winder	1