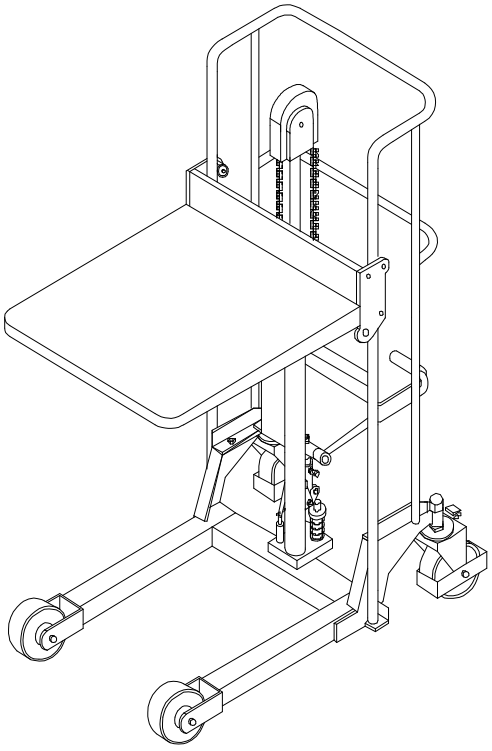
Instruction Manual

Foot-operate Stacker

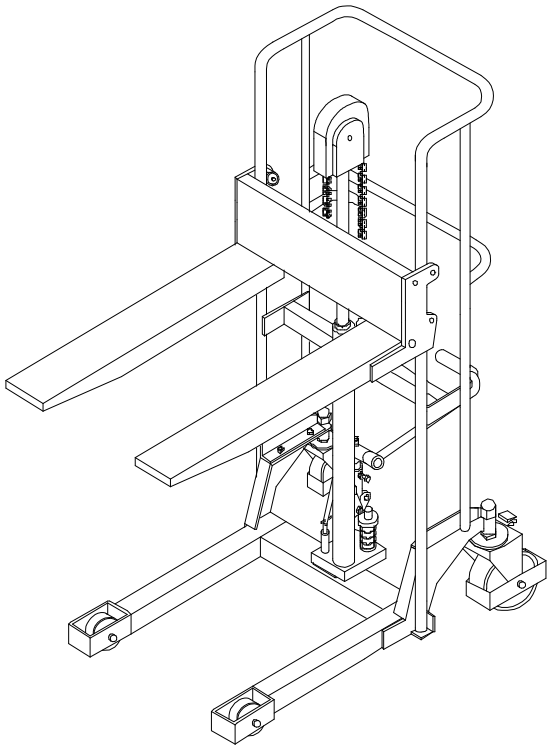
Model：PA2085 PA2120 PA4085 PA4120 PA4150

PB2085 PB2120 PB4085 PB4120 PB4150

PC2085 PC2120 PC4085 PC4120 PC4150



PA. Series Stacker



PB (PC). Series Stacker

Note: Please do read carefully and understand completely this manual before the owner/operator uses the machine.

Contents

1. External Shape & Parameter Form

2. Names of the Parts

3. Assembly and Debug

4. Attention and Warning

5. Operational Instructions

6. Daily Maintenance and Regular Inspection

7. Hydraulic Principle Drawing

Thank you very much for using this series of Stackers.

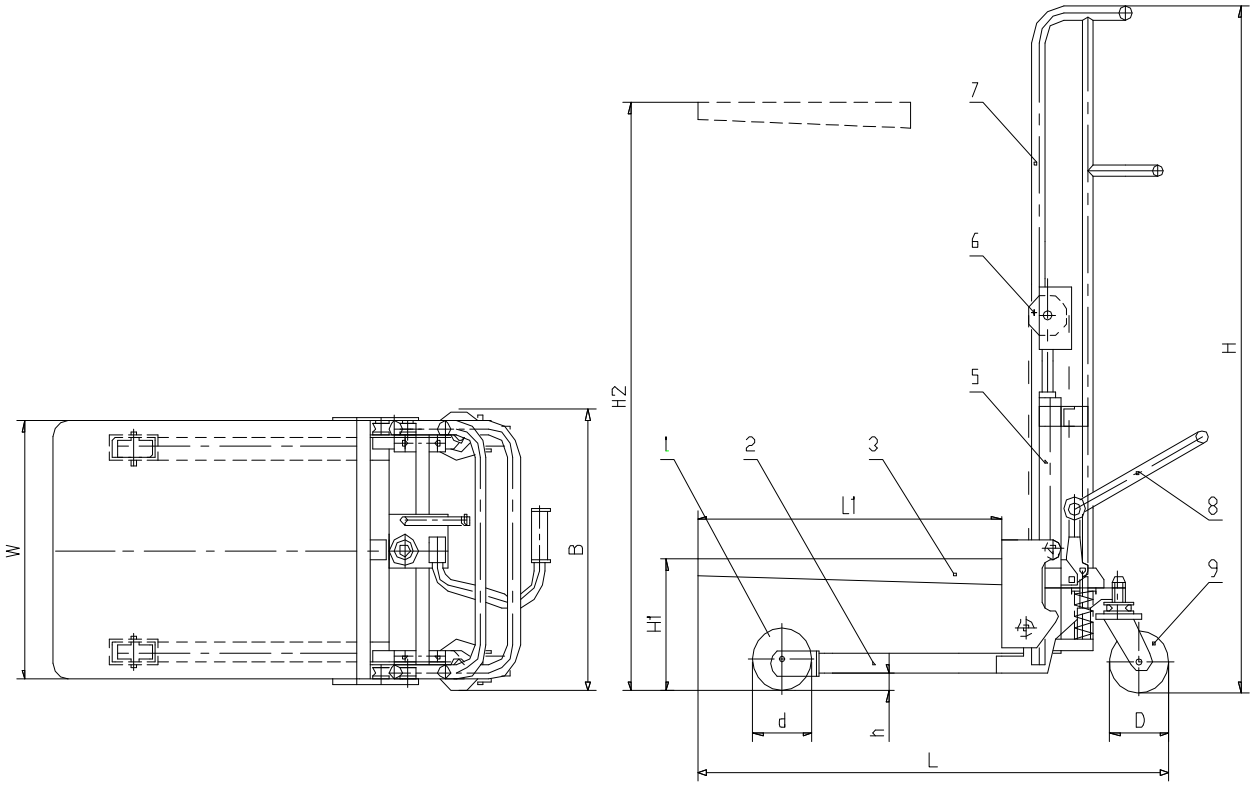
This instruction manual has a description of the right operational methods to ensure safety and the maintenance methods to extend the use lifetime. The operator shall read carefully and completely understand it before using the stackers .

This series of stackers are mainly used to load, lift and pile goods or take down goods from a certain height on the flat and solid floor. It is widely used in various plants, markets and warehouses.

This series of stackers with low forks are especially suitable to transport pallets. Plates attached have the function of platform lift.

1. External Shape & Parameter Form

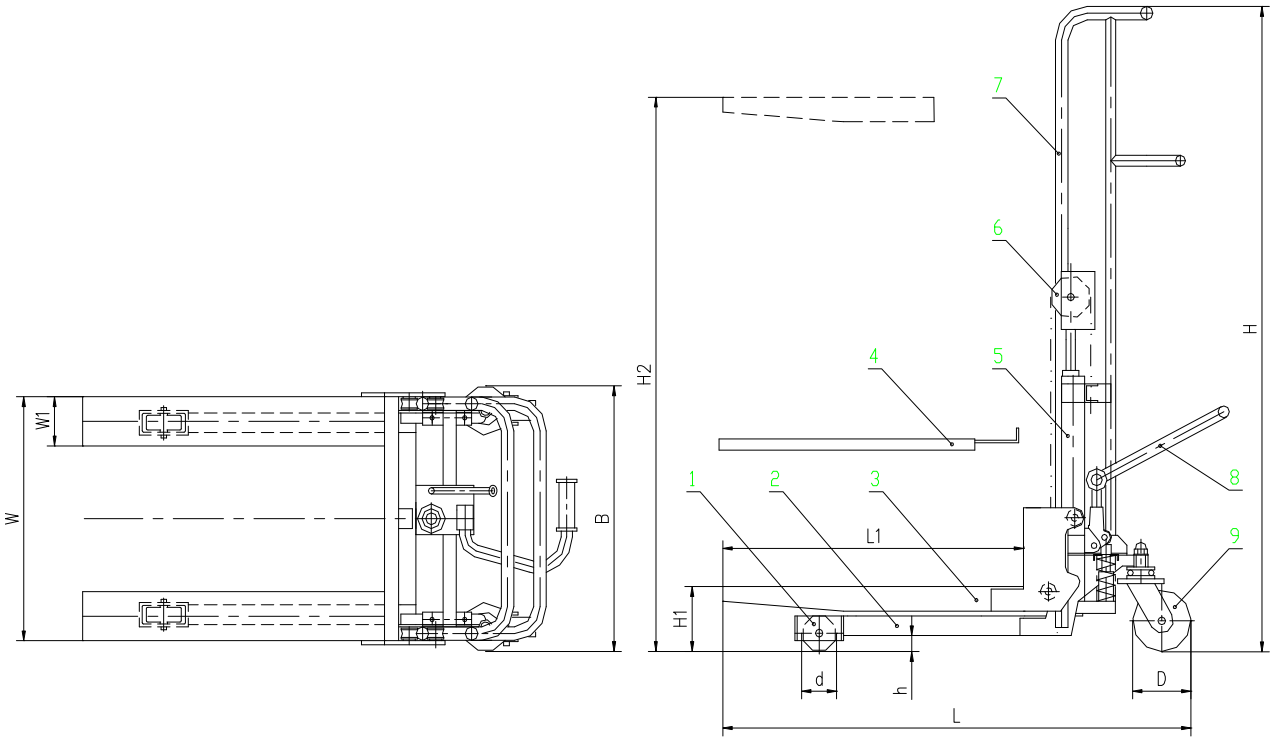
1) External shapes of PA series of Stackers



2) Technical parameters of PA series of Stackers

P / M	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	W (mm)	B (mm)	d (mm)	D (mm)	h (mm)	Work No.	Load (Kg)	NW (Kg)
PA2085	955	200	850	920	600	500	540	Φ125	Φ125	37.5	15	200	53
PA2120	1305	200	1200	920	600	500	540	Φ125	Φ125	37.5	23	200	58
PA4085	975	200	850	1030	650	550	610	Φ150	Φ150	50	30	400	68
PA4120	1310	200	1200	1030	650	550	610	Φ150	Φ150	50	45	400	74
PA4150	1610	200	1500	1030	650	550	610	Φ150	Φ150	50	58	400	79

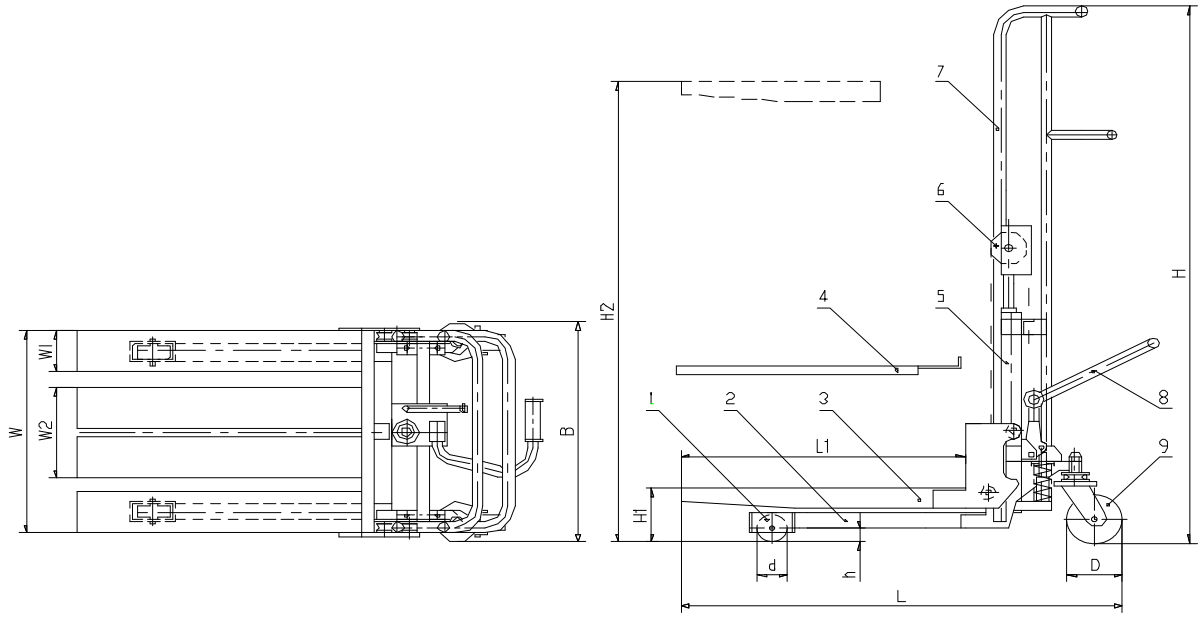
3) External shapes of PB series of Stackers



4) Technical parameters of PB series of Stackers

P / M	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	W1 (mm)	W (mm)	B (mm)	d (mm)	D (mm)	h (mm)	Work No.	Load (Kg)	NW (Kg)	Platform (mm)
PB2085	1080	85	850	950	600	100	500	540	ф75	Φ125	28	18	200	55	Lp10(610x530)
PB2120	1430	85	1200	950	600	100	500	540	Φ75	Φ125	28	24	200	62	LP10(610x530)
PB4085	1085	85	850	1050	650	100	550	600	Φ75	Φ125	28	32	400	68	LP20(650x585)
PB4120	1440	85	1200	1050	650	100	550	600	Φ75	Φ125	28	48	400	74	LP20(650x585)
PB4150	1740	85	1500	1050	650	100	550	600	Φ75	Φ125	28	60	400	80	LP20(650x585)

5) External shapes of PC series of adjustable Stackers



6) Technical parameters of PC series of Stackers

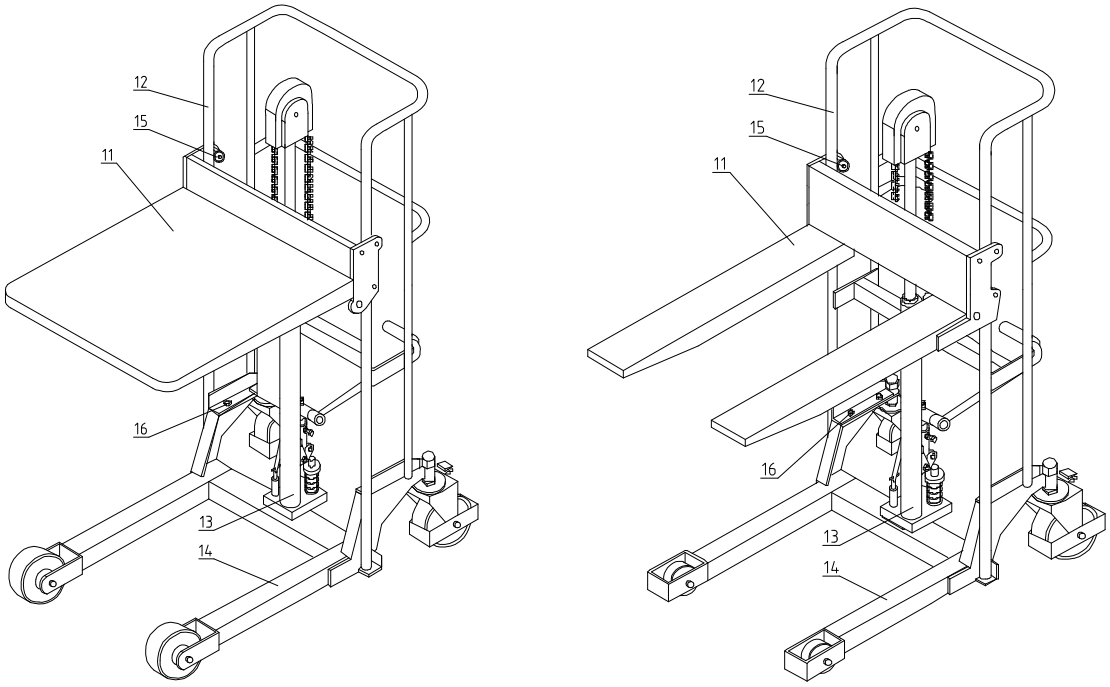
P / M	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	W1 (mm)	W2 (mm)	W (mm)	B (mm)	d (mm)	D (mm)	h (mm)	Work No.	Load (Kg)	NW (Kg)	Platform (mm)
PC2085	1080	85	850	1000	600	100	215	500	540	ф75	ф125	28	18	200	58	Lp10(610x530)
PC2120	1430	85	1200	1000	600	100	215	500	540	ф75	ф125	28	24	200	65	LP10(610x530)
PC4085	1085	85	850	1100	650	100	215	550	600	ф75	ф125	28	32	400	72	LP20(650x585)
PC4120	1440	85	1200	1100	650	100	215	550	600	ф75	ф125	28	48	400	78	LP20(650x585)
PC4150	1740	85	1500	1100	650	100	215	550	600	ф75	ф125	28	60	400	83	LP20(650x585)

2. Names of the Parts

1) Front Wheel
2) Chassis Assembly
3) Platform(Fork) Assembly
4) Work Platform
5) Cylinder Assembly
6) Chains and Wheel
7) Slideway Handrail Assembly
8) Footstep Lever
9) Back Wheel

3. Installation and Debug

The parts are packed when delivered out of the factory. The user can install quickly and easily according to the part numbers in the following order. Please have two 13, 14 or 17 spanners and other necessary tools beside when fixing.



1) Confirm No. 11 is the fork assembly; No. 12, 13 are the handrail and cylinder assembly; No. 14 is the chassis assembly; No. 16 is the connecting bolts (4 sets). Confirm all these are available.
2) On the flat floor, put No. 11 the fork on No. 14 the chassis according to the drawing.
3) Make No. 12 handrail go through No. 11 forks and four rolling wheels 15, till the position of No. 14 chassis angle iron. And also ensure the positioning hole on the bottom of the cylinder pump plate is identical with the positioning bolt of No. 14 chassis cylinder. Connect tightly and deadly No. 12 the handrail and No. 14 chassis with No. 16 the bolts.
4) Connect tightly the bolts of No. 13 cylinder chains and No. 11 fork connecting plates, and use a split safe.
5) The forklift height after being installed can be adjusted the parameters specified in this manual by adjusting the chains bolt.
6) Make sure all the parts are fixed and the bolts connect tightly and have been adjusted well.
7) When operated without load, the forklift rises and falls stably and normally.
8) When operated with the rated load, the forklift rises and falls stably, the foot wheels move flexibly and the brake works effectively.

4. Attention and Warning

1) The forklift shall be used on the flat and hard floor.
2) The load shall not exceed the max. load. Transport goods strictly according to the load curve to assure the load balance.

5. Operational Instructions

1) Lock the brake. And close the falling valve pole.
2) Operate the rising footstep pole to make the forks rise stably to the max. height. Turn open the falling valve pole, and the forks fall. Turn and close the falling valve pole so that the forks can stop at any height without sliding down.
3) When the load exceeds 1.2 times of the rated load, the safety valve of the cylinder works so that the forks cannot rise and the safety of the operation and equipment are assured.
4) When driving the forklift with load, make the forks fall to the lowest position to ensure safety.
5) The falling speed of the forks is adjustable by adjusting the angle of the positioning ring on the falling valve pole.
6) Don't operate the rising footstep pole quickly. Otherwise, the cylinder will run empty.
7) The falling valve shall be turned open slowly with heavy load to make the forks fall slowly. Otherwise, dangers will happen.
8) When the rising operation or stops at any height are done with heavy loads, the falling pole shall be closed tightly. Otherwise, the forks will fall.

6. Daily Maintenance and Regular Inspection

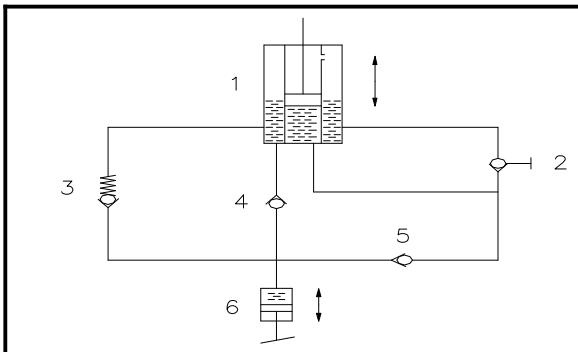
1) Daily check if there are any deformations, looseness or abnormal noises of the connecting bolts, wheels, rolling wheels, lifting chains and wheel, the parts of hydraulic cylinder, moving parts.
2) Daily check if there is any oil leakage of the hydraulic system.
3) Check monthly the wear and tear of the forks, rolling wheels, wheels, chains and wheel.
4) After the lifting cylinder runs for 20 hours accumulatively in the beginning, the hydraulic oil shall be changed. Afterwards the oil shall be changed once every 300 hours. When the accumulated hours are not so much, change the oil once every 18 months.

   Please fill in the specified hydraulic oil at the following temperatures listed below:

Temperature	Hydraulic Oil
-5℃~+45℃	L-HM68 hydraulic oil (equivalent to ISOVG68)
-15℃~ -5℃	L-HM46 hydraulic oil (equivalent to ISOVG46)

When changing the oil, adjust the pole of the pillar piston to the lowest position. The oil shall be filled to the position of the filling hole.

7. Hydraulic Principle Drawing



1	Out-pushing Cylinder
2	Turning Lifting and Falling Valve
3	Safety Valve
4	Oil Returning Valve
5	Work Valve
6	Work Cylinder