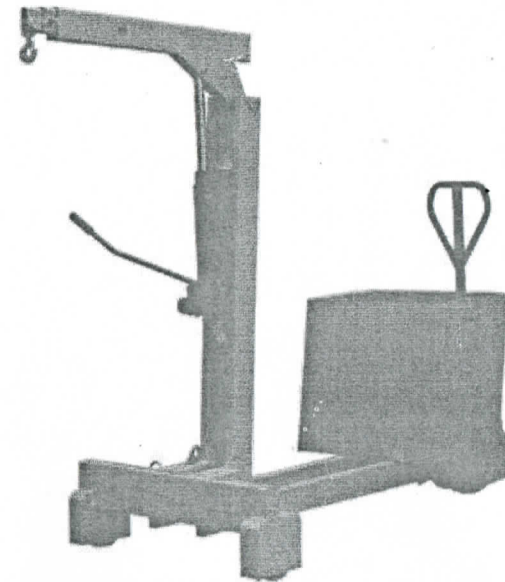


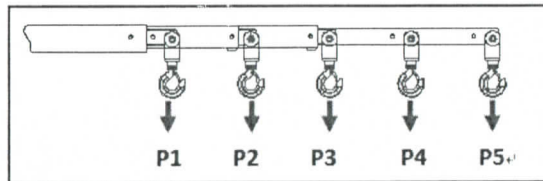
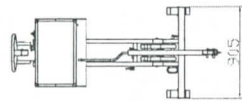
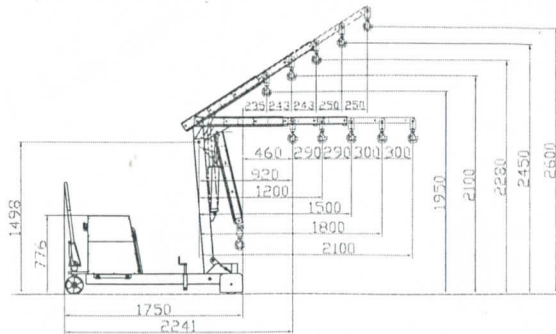
Instruction Manual Counter Balanced Crane

SD55



Note:

Owner/Operator must read and understand this instruction manual before using the crane.



Rated Capacity Table (Standard):

Position	P1	P2	P3	P4	P5
Length positions (mm)	920	1200	1500	1800	2100
Capacity(kg)	550	400	300	220	150

Warning: Overloading is strictly prohibited!

Safety Instructions

Operator Prerequisites

Suppliers have responsibility to demonstrate to the user product walking and lifting and describe the use of essentials.

Operator must be trained and familiar with product lifting, walking control and all safety points.

Non-professionals are prohibited to use the product

Operators have responsibility to prevent non-professionals use the product.

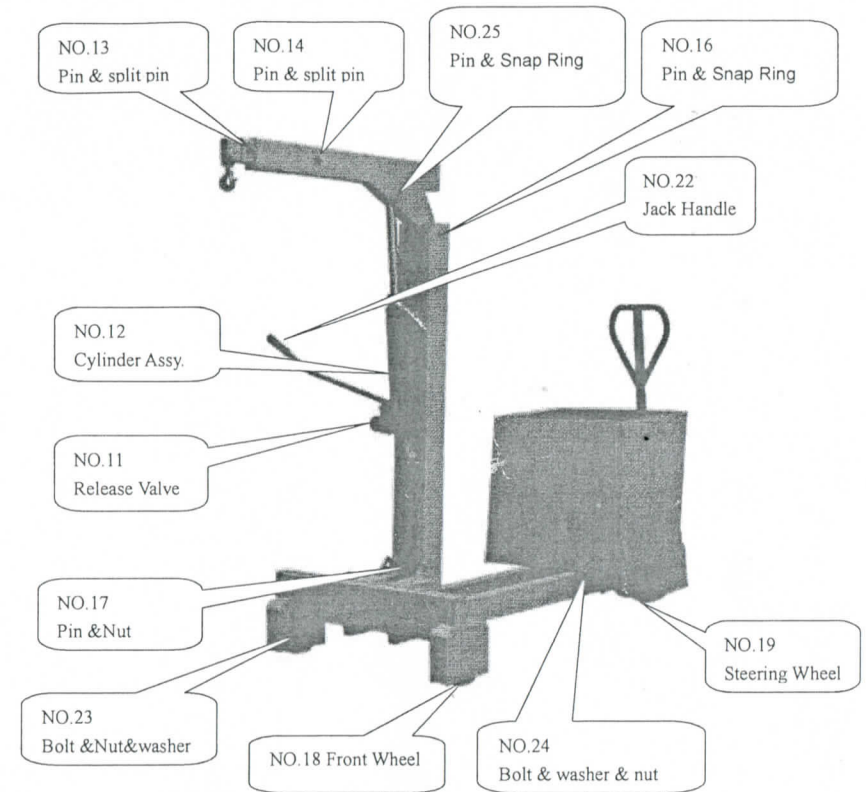
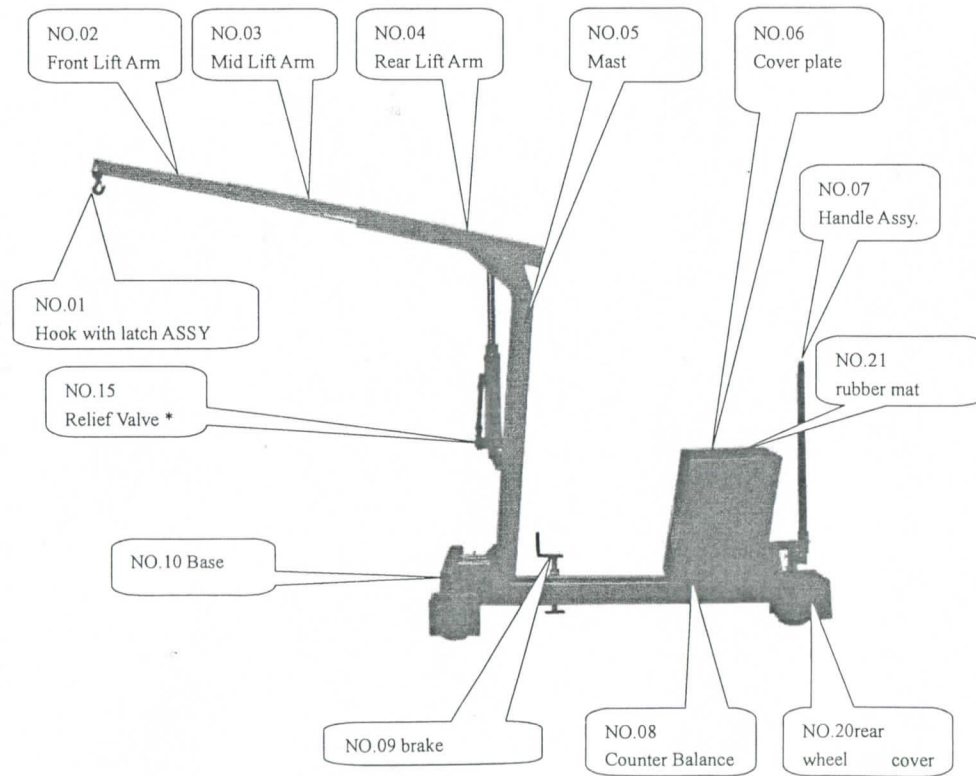
1. Use cranes only on a firm level; never use on soft grounds.
2. The load to be lifted should never exceed the rated capacity.
3. Never operate the hydraulic power unit beyond its maximum stroke indicated on the label.
4. The capacity of the crane reduces as the lift arm is prolonged. Do not load the crane beyond the rated capacity for each specified lift arm position as indicated in the label.
5. Before operating the crane ensure the lift arm is securely positioned by the pin (No.13、NO.14 below).
6. The load hook is provided with a latching mechanism. Ensure it works properly.
7. To lift the load in a well balanced and stable way make sure the center of gravity remains always inside the crane base.
8. Never position any part of your body under the load.
9. Do not allow the load to swing or drop violently when moving.
10. The crane is not transportation device but in case the load has to be removed, lower the load and jib extension to the lowest possible point before transporting. The crane is not designed to sustain the load indefinitely, so when the operation is finished make sure the load is fully lowered and supported on a firm surface.
11. Make a visual inspection before each use the crane. Any crane which appears to be damaged must be removed from service.
12. As an additional safety feature the crane is equipped with a Relief valve (No.15) to prevent the unit from being overloaded. This unit must not be tampered without permission.
13. If these basic rules are not followed, injury to the user, the crane or the load being lifted may result.
14. Any manipulation of the pressure relief valve (No.15) is prohibited.
15. Standing under the crane is prohibited.
16. During lifting crane arm mechanism has potential risk factors, so non-professionals should stay away from the danger zone.
17. When working in dangerous environment, product must be added special protectors.
18. During working, keep non-professionals and other vehicles a proper safety distance with the product.
19. Before product walking, shall observe ground conditions carefully, make sure the ground is adequated hard and flat for safety walking.
20. Product use on an incline is prohibited.

- 21. Operation under product arm is prohibited.
- 22. Lifting person is prohibited.
- 23. Reduce the weight in heavy box is prohibited.

Operation

1. Before using the crane, it is necessary to purge air from the valve system of the hydraulic unit.
2. This can be done by releasing the valve (No.11), then pumping the hydraulic jack several times.
3. Closing the valve (No. 11, Automatic closing), the crane is now ready to be used, pump the hydraulic unit to raise the load,.
4. Lowering the load, release the valve (No. 11) Counterclockwise slowly, the load can be lowered smoothly. Quick-releasing is strictly prohibited.

Main Parts Diagram



Main Parts List

P/N	Describe & Spec.	Qty	Remarks
NO.01	Hook with latch	1	
NO.02	Front Lift Arm	1	
NO.03	Mid Lift Arm	1	
NO.04	Rear Lift Arm	1	
NO.05	Mast	1	
NO.06	Cover plate	1	*Pls. refer to the CAUTION on "Additional Function"
NO.07	Handle Assy.	1	
NO.08	Counter Balance	1	
NO.09	Brake	1	*For discharging use via forklift truck only
NO.10	Base	1	
NO.11	Release Valve	1	
NO.12	Cylinder Assy.	1	
NO.13	Pin & split pin	1	
NO.14	Pin & split pin	1	
NO.15	Relief Valve *	1	*Release Valve to prevent overload, sealed by paint *Please do not adjust without permission
NO.16	Pin & Snap Ring	1	
NO.17	Pin & Nut	1	
NO.18	Front Wheel	2	
NO.19	Steering Wheel	2	
NO.20	rear wheel cover ASSY	1	
NO.21	Rubber mat	1	
NO.22	Jack Handle	1	
NO.23	Bolt & Nut & washer	1	
NO.24	Bolt & washer & nut	4	
NO.25	Pin & Snap Ring	1	

Maintenance

1. Lubricate all moving parts at regular intervals.
2. Always keep the crane clean and protected from aggressive conditions.
3. Check the oil level of the hydraulic unit with the piston fully retracted. Top up if necessary.
IMPORTANT : An excess of oil will render the crane inoperative.
4. Use only hydraulic oil, HL or HM types, with an ISO grade of cinematic viscosity of 30 cst at 40° C or an Engler viscosity of 3 at 50° C.
VERY IMPORTANT : never use brake fluid.
5. When ordering spare parts, please state the series number and the capacity of the crane.

Repair

Both maintenance and repair must only be carried out by qualified personnel.