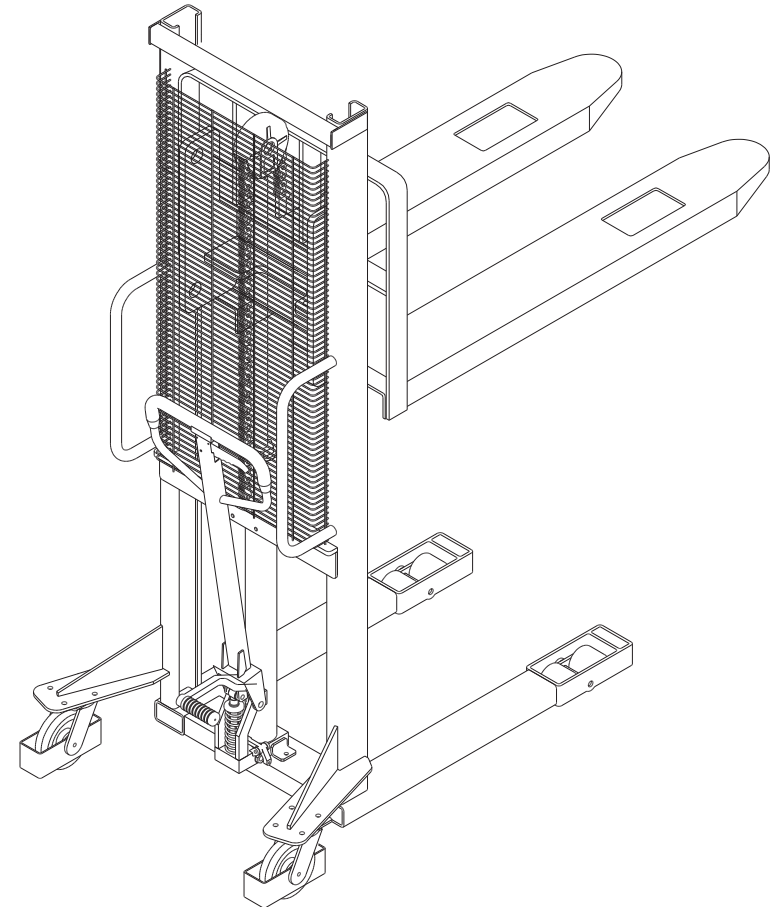


SDJ Manual Stacker

DUROLL[®]

Original instruction

- **Operation Manual**
- **Parts Catalogue**



AHD130



EC Declaration of Conformity



according to the Machinery Directive 2006/42/EC

For the following equipment: :

Product : **Manual Hydraulic Stacker**
Type Designation /Trademark : SDJ1000,SDJ500
Manufacturers Name : Ningbo Ruyi Joint Stock Co., Ltd.
Manufacturers Address : 656 North Taoyuan Ninghai ,Zhejiang China

Refer to in this declaration conforms with the following directive(s):

Machinery Directive 2006/42/EC

The company named above will keep on file for review the following technical documentation :

- Operating and maintenance instructions
- Technical drawings
- Risk assessment
- Description of measures designed to ensure conformity
- Other technical documentation ,e.g. quality assurance measures for design and production

Welcome to select SDJ manual hydraulic stacker.

- The noise level of this product is less than 70dB



Warning!

Pay attention to the following matters before operating this stacker:

1. SDJ manual stacker can only be operated indoor on even and solid ground and it is strictly prohibited to operate the stacker in a corrosive environment with acid and alkali.
2. Please read this manual carefully and understand the performance of the stacker before operating; Inspection of the stacker should be conducted carefully every time before operation to ensure that the stacker is in normal condition. It is strictly prohibited to operate a faulty stacker.
3. It is strictly prohibited to overload the stacker. The load capacity and the load center should meet the requirements in the parameter table of this manual.
4. When stacker is used for piling, the gravity center of the goods must be within the two forks and it is strictly prohibited to pile loose goods.
5. When it is required to transport the goods for a comparatively long distance, the height of the forks from the ground should not exceed 0.5m.
6. When piling goods, it is strictly prohibited for people to stand under the forks or around the stacker.
7. It is strictly prohibited to stand on the forks for operation.
8. When the goods are on high level, the goods should be pushed forward or pulled backward slowly and no cornering is allowed in such a case.

I. Outline drawing and Key technical parameters :

		SDJ manual stacker					
	Model		SDJ500	AHD130	SDJ1025	SDJ1030	SDJ1500
	Load capacity	Q(kg)	500	1000	1000	1000	1000
	Load center distance	c(mm)	600	600	500	500	400
	Service weight	kg	205	230	276	307	245
	Height, mast lowered	h1(mm)	2080	2080	1838	2080	2080
	Max. lift height	h3(mm)	1600	1600	2500	3000	1600
	Height, mast extended	h4(mm)	Single mast	Single mast	2925	3420	Single mast
	Lowered fork height	h13(mm)	90				
	Overall length	l1(mm)	1655				
	Overall width	b1(mm)	755	755	860	860	755
	Fork dimensions	s/e/l(mm)	61x170x1100 (1150.1200)				
	Distance between fork-arm	b5(mm)	550	550	580	580	550
	Turning radius	Wa(mm)	1380				
	Lift speed, laden/unladen	mm/times	25				
	Lowering speed, laden/unladen	mm/s	Controlled type				
Noise level	dB	<70					

II. Structural characteristics and working principle

SDJ manual stacker consists of a hydraulic system, mast and forks.

The stacker uses a manual hydraulic pump (hydraulic device) as force to lift heavy goods, which are pushed, pulled and handled manually. The hydraulic device is equipped with an oil return valve and the fork decline speed is controlled via a hand lever to make the operation of the hydraulic system correct, safe and reliable. The mast is welded with high quality profile steel such as to good rigidity and high strength. Universal wheels with braking device are adopted as the back wheels, which can rotate freely, easily and flexibly. Both front and back wheels are installed on wheel shafts with ball bearings so as to rotate flexibly. Wear-resistant and durable Nylon wheels are adopted so that it is not easy to damage the operation ground.

When lifting goods, insert the forks under the pallet of the goods, when necessary, break the back wheels and pull the hand lever. The pinch roller presses the pump core to

make the oil in the pump cylinder flow into the piston cylinder, in order to push the piston rod move upward and lift the forks upward via a chain for a two times travel. Pull the hand lever back and forth so as to lift the goods and achieve the purpose of lifting. When the forks are lifted to the maximum height, the pressurized oil flows back into the oil tank via an oil draining hole and in that case, even the hand lever is pulled, the forks raise no more to avoid damaging components by impacting the top.

When handling heavy goods, the stacker is able to travel via manual pushing (pulling).

When unloading, pull the unloading hand lever, the oil return valve opens and with the effect of the dead weight of the heavy goods and forks, the operational oil in the piston cylinder flows back into the oil tank through the oil return valve, and when the piston rod and the forks decline to the lowest position, the goods are unloaded and the forks are withdrawn.

III. Operation conditions

The operation of SDJ manual stacker should meet following conditions:

1. Ambient temperature for operation: $-25^{\circ}\text{C}\sim+40^{\circ}\text{C}$.
2. The relative humidity of the environment should be less than 90%RH.
3. The stacker can only operate in an environment without rain and harmful gas erosion.
4. The stacker can only operate indoor on even and solid ground.

IV. Operation and maintenance

1. The oil must be filtered and clean and ensure sufficient oil quantity.
2. Before operation, inspection must be conducted for the stacker to ensure the stacker is in normal condition and there is no loose component.
3. The goods should be smoothly distributed on the forks and no overload is allowed.
4. After the operation is completed, the goods should be unloaded and the heavy good are not allowed to be on the forks for a long time.
5. When lowering goods, the hand lever of the oil return valve should be operated slowly and gently to avoid sudden declination during quick declination process which causes unsafe situation. When lowering the goods quickly, the oil return valve can not be closed suddenly as inertial acceleration is generated during the process of quick declination. If that, a great force will be generated to damage the components and goods.
6. Raise and pull outward the front part of the panel by hands, take off the panel and then the stacker can be used as pallet truck cart or pallet stacker.
7. The brakes on back wheels are installed for the purpose of safety in operation process. When the forks are rising for lifting goods or is used as an operation platform, the brakes should be stepped down with foot to prevent the stacker from moving.

V. Possible failures in operation and trouble shooting

No.	Failure	Cause analysis	Trouble shooting
1	The lifting height cannot meet the design requirement	Insufficient operation oil	To fill oil into the oil cylinder, turn out the bolt, fill in filtered and clean operation oil to the oil inlet height and then tighten the bolt.
2	When the hand lever is pulled, the forks do not rise.	1. The viscosity of the operation oil is too great or no operation oil has been filled in	Replace or fill in operation oil according to the oil quantity regulated.
		2. There is foreign matter in operation oil, which makes the oil inlet valve cannot be tightly closed.	Filter out the foreign matter or replace operation oil according to the stipulation.

		3. The oil draining valve, unloading hand lever and tension spring do not work and not at the lowest position or blocked by other foreign mater.	Examine the tension spring to see if it is correct, adjust the unloading hand lever to the lowest close position and remove foreign mater.
		4. The positions of the oil draining valve and unloading hand lever have not been correctly adjusted.	Readjust the unloading tension bar nut position.
3	After being raised, the forks do not decline	1. The unloading hand lever is not correctly adjusted. 2. Over heavy load deviation so the piston permanent deformation occurs. 3. The fork frame, roller or chain wheel is block.	Adjust as described above, disassemble for maintenance or replace the piston rod, disassemble for maintenance or replace bearing
4	Oil leakage	1. Damaged or failed seal washer 2. There is slight crack or through hole in individual component 3. Loose thread connection or non-tightly pressed sealing ring	Replace with new sealing washer, repair or replace new components, repair and tighten

VI. Packing list

SDJ Manual Stacker

Consignee:

Ex-factory number:

Contract number:

Ex-factory date:

No.	Name	Quantity	Overall dimension (L×W×H)	Using for
1	SDJ manual stacker	1	1330×1000×2080	The whole unit
2	SDJ operation manual	1		
3	Quality certificate	1		
4	Packing list	1		
5	Combined washer Φ20	2		pump
6	O- ring Φ47.5×3.55	1		
7	O -ringΦ65×3.55	1		
8	UHS seal ringΦ16	1		
9	UHS seal ringΦ31.5	1		
10	DHS dust-proof ring Φ16	1		
11	DHS dust-proof ring Φ31.5	1		