

#### 1.General

This manual contains important information for the correct installation, operation, and maintenance of the equipment described herein. All persons involved in such installation, operation and maintenance should be thoroughly familiar with the contents of this manual. To safeguard against the possibility of property damage or personal injury follow the recommendations and instructions of this manual and keep it for further reference.

Two types of crane forks are produced as follows

**A. Crane forks** with manual weight balancer, adjustable height These crane forks are equipped with adjustable tines and height adjustability. The balancing system engages when the shackle is manually hooked into the appropriate notch.

**B. Crane forks** with automatic weight balancer, adjustable height These crane forks are equipped with adjustable tines, height adjustability and an automatic balancing system.

Crane forks with automatic balancing tend to point their tines upward when being transported. This prevents the load from unintentionally slipping off the tines.

The automatic balancing system requires a minimum load of 20% of the crane fork's working load limit.

The shackle is movable and runs on a track depending on the load. The automatic balancing engages by a pressurized gas spring once the forks are loaded. The load will always be in the center of gravity of the forks, ensuring a safe transport.

All crane forks comply to the safety specifications from the German trade association, and have been manufactured in accordance with the Machinery Directive 2006/42/EC. They are type-tested4to1 against breakage. Each unit is proof-tested 1.5 times of the rated load. They have the following features:

#### **5.Parts list**

Item	Description	Quantity pcs	
1	Sealing plate	1	
2	Screw M6	2	
3	Big Shaft	1	
4	Small Shaft	1	
5	Gas Spring	1	
6	Nut	1	
7	Nylon roller	6	
8	Retaining ring	2	
9	Shaft (for Air Spring)	1	
10	Balancing Shackle, assy.	1	
11	rine, assy	2	
12	Adjustable shaft	1	
13	Chain for load securing	1	
14	Top frame, assy.	1	
15	Securing Spring	3	
16	Body, assy.	1	
17	Screw M12	4	
18	Retaining plate	2	



**Exploded View** 

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maintenance-free
highly visible safety colour
for the transport of rings or coils, the fork tines are simply pushed fogether.

pushed fogether. • easily adjustable tines for all pallet sizes • with chain for load securing.

### 2. Specification





Manual weight balancer adjustable height

Automatic weight balancer adjustable height

-	Туре	Rated Capacity t	Weight kg	Adjustment of tines A mm	Useable height B mm	Length of tines C mm	Secton of tines D mm	Overall height section E mm
	jht	1.0	128	350-900	1100-1600	1000	100X30	1390-1890
nual weight ancer, ustable heig	heic	1.5	151	350-900	1300-2000	1000	100X40	1600-2300
	er, ible	2.0	198	400-900	1300-2000	1000	120X40	1640-2340
	ance usta	3.0	246	450-900	1300-2000	1000	120X50	1670-2370
mai	bali adji	5.0	372	500-1000	1300-2000	1000	150X60	1700-2400
ght	ght ght	1.0	138	350-900	1100-1600	1000	100X30	1420-1920
latic wei ser, able hei	hei	1.5	166	350-900	1300-2000	1000	100X40	1650-2350
	cer, able	2.0	118	400-900	1300-2000	1000	120X40	1655-2355
ltom	just	3.0	278	450-900	1300-2000	1000	120X50	1720-2420
Ar ba ad	ad	5.0	382	500-1000	1300-2000	1000	150X60	1710-2410

# 🛕 Warning

To avoid damage and/or personal injury:

- 1. Do not exceed maximum load of the crane fork.
- 2. Do not use the crane fork to lift or transport people.
- 3. Do not use damaged crane fork or crane fork that is not working properly.
- 4. Do not lift or transport loads over people and make sure all personnel remain clear of supported load.
- 5. Do not apply the load to the tips of the tines.
- 6. Do not leave load supported by the crane fork unattended unless specific precaution have been taken.
- 7. Do not lift loads that are not balanced, and the holding action is not secure.

## 3.Installation

Estimate the weight of the load that is to be lifted or transported and make sure it does not exceed the rated load of the crane fork.

Make sure the crane or sling to which the shackle or lifting ring is attached is strong enough to hold several times of weight of the load to be lifted or moved.

Adjust the height and the tines to suit the size of the pallet or palletized box.

## 4. Operation

The crane fork has been constructed to lift and transport pallets/ skeleton boxes, containers or similar. The load should be positioned equally on both fork tines and load centre should be around the centre of the tines. The load is to be positioned so that there is no danger of it's overturning.

### 4.1 Maximum lifting capacity

The crane fork was designed to lift and transport loads up to the rated capacity. The capacity indicated on the crane fork is the maximum safe working load which must not be exceeded.

### 4.2 Danger zones

Do not lift or transport loads while personnel are in the danger zone. Do not stand or place hands or feet under the raised forks. Raised loads are not to be left unattended for a longer period of. time. The operator may only start to move the load when he is sure the load will not overturn and that all personnel have left the danger zone.

### 4.3 Position of the big shaft ( item 3)

Normally the big shaft (item 3) should be put in the right hole (see the exploded view item 3).

If the load is not balanced when lifting the load with the big shaft in the right hole, please move the big shaft into the left hole, in order to extend the balance range, and make the load balanced.

#### 4.4 Service and maintenance

Adhering to the inspection and maintenance instructions is as rruch a part of the "de-fined intended use" of the crane fork as acting in accordance with the operating instructions. If faults are detected the crane fork must be put out of service immediately. To ensure that the crane fork remains in safe working order it is to be subjected to regular inspections by a competent person. Inspections are to be annual unless adverse working conditions dictate shorter periods. The components of the stacker are to be inspected for damage, wear, corrosion or other irregularities and all safety devices are to be checked for ccmpleteness and effectiveness. Repairs may only be carried out by a specialist workshop that uses original spare parts.