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EQUIPMENT

# LIFTER FOR AIRFIN BANK ELECTRIC MOTORS

Until this very day, no safe method has been developed for the safe removal of electric motors from underneath air cooled exchangers and other hard to reach objects within constructions where tight spaces and weight limitations are a challenge. Peinemann Equipment however, has now developed a patented Multilift that can handle these jobs in a safe way.



## **Current situation:**

Normally most electric motors hang underneath the airfin coolers and in most cases there are no rigging facilities available to allow them to be exchanged in a safe way. Because this type of work cannot be carried out by using cranes or forklifts either due to space restraint, a chain hoist, attached to a structural beam, is often used for the exchanging of the motors. These structures are mostly not intended for this use which creates unsafe conditions.

## **Function:**

The Multilift we developed is built to be able to drive on narrow walkways. Because often only a limited load can be imposed on these walkways, the lifter is made of anodized aluminum and weighs only 150KG/330LB. From the walkway platform, our Multilift can exchange electric motors up to a weight of 500kg/1100LB located at a maximum height of 2.96 meters (10ft). The transportation of the electric motors on our Multilift should best be done with the electric motors in the lowest possible position in order to maintain stability.



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## Ease of use:

The Multilift was primarily developed for safe working, ease of use and maneuverability. Therefore the machine has two wheels with brakes on the sides, 1 castor wheel in the back and two castor wheels on the outer ends of adjustable arms. These arms can be moved together for easy maneuverability on the walkways and be spread out for stability once reaching for the higher located objects. The multilift also comes standard with a lifting hook to lift objects in hard to reach area's and has an optional turnable table which, for instance, can be used for exchanging registers in burners.

## Lifting system:

The hydraulic lifting cylinder with safety valve is connected to 2 steel cables which lift the table and is manually controlled by using a hydraulic pump fitted at the back of the machine. The lifting system has a three telescope sections to reach the desired height. For safety, the up and down operations is done by the hydraulic pump with a two-way valve so the movement of the load going down is also done in a controlled way.

## Lifting and transport facilities:

The Multilift is equipped with 4 lifting points and a lifting sling to (un) load the machine by using a crane. All Multilifts are CE approved, 3rd party tested and Atex zone 2 compliant.



Motor lifter details (approx.):	EU	US
Weight	150 kg	330 LB
Max working height of the table	2.96 meter	10'
Max lifting capacity	500 kg	1100 LB
Min width	675 mm	27"
Max width during lifting	1220 mm	48"
Height in transport position	1380 mm	54"