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**WORKSTATION LIFTING SYSTEMS**

**KONECRANES®**  
Lifting Businesses™

# **ATB AirBalancer** **FAST AND ERGONOMIC** **LOAD HANDLING**



# REVOLUTIONIZE YOUR WORK- STATION

The Konecranes ATB AirBalancer is a lifting device with a floating load unit, which aids picking, lifting, moving and placing items by hand. Using air pressure as the power source, the item being lifted seems practically weightless to the person lifting it. Airbalancer's low acquisition, operating and maintenance costs, together with improved productivity, make it a worthwhile investment.

## Easy to integrate

Airbalancer's speed and flexibility make it the perfect alternative to hoists. It is especially beneficial for handling fragile items.

Airbalancer enhances assembly processes that require fast and smooth transfer movements with high precision, for instance in the aviation, solar energy and automotive industries. It is also an ideal lifting device for repair and industrial production tasks.

## PROFITABILITY MEETS USER-FRIENDLINESS

### More efficient operation

- Shorter cycle times
- Significantly faster lifting/lowering speeds than chain hoists. Speed up to 2000 mm/sec, depending on the model.

### Increased safety

- Overloading not possible
- No electricity required
- Jerky movements during lifting/lowering procedures eliminated

### Better usability and ergonomics

- Easy maintenance
- More pleasant working environment: cleaner and very silent
- Fast and uninterrupted 3-dimensional movement, with balancing control systems just by guiding the load without the need to use buttons or handles
- High precision

### Air pressure as energy source

Air pressure is the most important energy carrier in industry alongside electrical power. Lifting, lowering, grabbing and pivoting can be done easily using purely pneumatic control technology. Gripper control elements can be easily added to the modular balancer control panel system, providing all functions ergonomically at your fingertips. Electrical control elements are available as well.







Lifting an axis with airbalancer at the Lemken factory in Germany.



Magnetic grab devices can be fitted with pneumatically switchable permanent magnets or electromagnets.



With appropriate settings of the UP/ DOWN control circuit, high lifting/ lowering speeds can be achieved.

## TAILORED TO MEET YOUR NEEDS

Konecranes has the most extensive range of control options as standard. By applying different control options and various grab devices, we are able to tailor the device to practically any kind of application. The controls can be equipped with different security options to meet your needs.

### Examples of some of our control options:

- Balancing control for fixed load weight (single load balancing)
- Balancing control for constant load weights (dual load balancing, triple load balancing)
- Manual touch lever control (up/down)
- Manual touch lever control with load weight compensation
- Balancing control with automatic pneumatic load detection

Additional options, like interlock and base-pressure, are also available for the above-mentioned basic control systems.

### Konecranes offers complete solutions

Grab devices are load-handling devices for grabbing/ bracing, holding and releasing the load.

- **Mechanical grab devices** do not require additional energy (air pressure, vacuum, magnetism) to brace the load.
- **Pneumatic grab devices** brace the load using cylinders activated by air pressure.
- **Vacuum grippers** grab the load using vacuum suction cups. They are most frequently used for dense materials like metal, glass and synthetic materials.
- **Magnetic grab devices** use magnetism to grab the load; hence they are only suitable for magnetizable components like metals.

In addition to different control options and grab devices, Konecranes ATB AirBalancer can be combined with ergonomic, hollow profile crane systems XA and XM, jib cranes and competent support to provide you with the optimum solution.

All Konecranes ATB AirBalancers and manipulators have EC-conformity and comply with the EN-14238 standard.

## SERVICE SOLUTIONS

Konecranes service can help you keep your airbalancers in top condition. Contact your nearest Konecranes Service location to build your own service solution.

## AVAILABLE ATB AIRBALANCER MODELS

Code	Lifting capacity *	Lifting stroke	Piston diameter	Piston length	Weight **
ATB 70-2000	70 kg	2000 mm	160 mm	520 mm	27 kg
ATB 120-2000	120 kg	2000 mm	200 mm	520 mm	35 kg
ATB 120-3000	120 kg	3000 mm	250 mm	520 mm	40 kg
ATB 160-2000	160 kg	2000 mm	250 mm	520 mm	40 kg
ATB 225-1800	225 kg	1800 mm	250 mm	520 mm	42 kg
ATB 350-1200	350 kg	1200 mm	250 mm	520 mm	40 kg
ATB 350-2000	350 kg	2000 mm	250 mm	720 mm	45 kg

\* Lifting capacity with 7 bar input pressure at the balancer piston will be lower with decreased input pressure

\*\* Weight without control circuit & carriage



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Konecranes is a world-leading group of Lifting Businesses™ offering lifting equipment and services that improve productivity in a wide variety of industries. The company is listed on NASDAQ OMX Helsinki Ltd (symbol: KCR1V). With over 10,000 employees at more than 570 locations in almost 50 countries we have the resources, technology and determination to deliver on the promise of Lifting Businesses™.

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