



Vacuum handling systems
Vacuum tube lifter JumboFlex

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Flexible and efficient workpiece handling



JumboFlex, maximum load 35 kg, with double suction pads for handling cardboard boxes

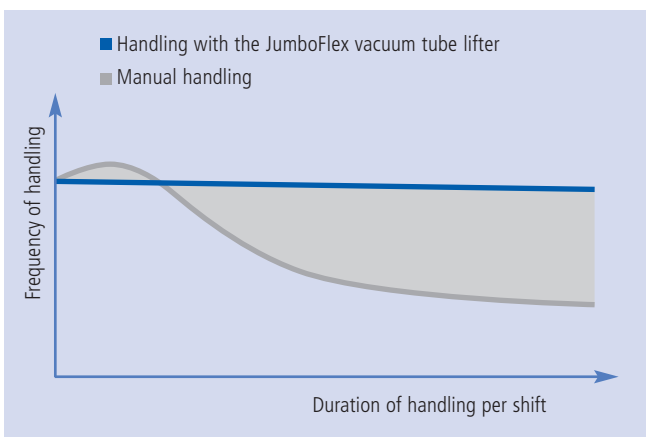
Versatile lifting and moving, ergonomic handling and increased productivity

Vacuum handling solutions from Schmalz rationalise and humanise production processes by facilitating easy and efficient workpiece handling. They feature functionality, safety and ergonomic operation.

The new JumboFlex vacuum tube lifter is ideal for frequently and very rapidly moving light goods with a weight of up to 35 kg. The extensive range of grippers enables you to safely and securely handle a wide variety of workpieces, such as cardboard boxes, barrels, cans, buckets, sacks, solar panels, rolls of film and foil, etc. Loads are gripped and lifted using a single medium: vacuum. The JumboFlex is the ideal lifting device for logistical processes in the areas of packaging, order picking, and shipping.

Used together with the company's easy-to-move slewing cranes and crane systems with aluminium crane rails, this Schmalz product, with its ergonomic and simple single-hand operation, is the perfect handling solution.

The JumboFlex vacuum tube lifter is a fundamental asset to the customer:



Schematic diagram comparing manual handling with the JumboFlex vacuum tube lifter

- Quick, efficient handling
- Ergonomic, single-hand operation
- Impressive flexibility
- Increased productivity
- Handles workpieces without damaging them
- Ideal for rooms with low ceilings
- Lightweight, compact design
- Always ready for use because of its reliable system

For a wide range of applications

Versatile lifting and moving with a single hand



JumboFlex, maximum load 35 kg, with double suction pads for handling cardboard boxes



JumboFlex, maximum load 35 kg, with round suction pad for handling buckets



JumboFlex, maximum load 35 kg, with round suction pad for handling barrels



JumboFlex, maximum load 35 kg, with double suction pads for handling solar panels



JumboFlex, maximum load 25 kg, with sack suction pad for handling sacks



JumboFlex, maximum load 35 kg, with double suction pads for handling cardboard boxes

Innovation in Detail

Design, functions and features of the JumboFlex



JumboFlex, maximum load 35 kg, with double suction pads for handling cardboard boxes in the shipping area

Function

- Loads are gripped and lifted using a single medium: vacuum
- Because of its modular principle, you can easily combine the basic components of this device in many different ways, adjusting it to suit your individual needs.

Safety

- Constructive observation of active safety
- The quick-acting non-return valve and the large suction pad surface prevent the load from being dropped inadvertently – even if the power fails
- The design complies with accident prevention regulations in accordance with BGR/BGV 500

Ergonomics

- Designed according to the latest ergonomic findings, this device allows you to work without risk of injury

Reliability

- All JumboFlex vacuum tube lifters come with a 2-year warranty for single-shift operation

Economy

- Immediately increases productivity

Long-lasting vacuum generator

Choice of various vacuum generators:



Vacuum pumps EVE 25/40

- Electrically operated vacuum generator



Ejector SEM 100

- Pneumatically operated vacuum generator

Technical data for the JumboFlex vacuum tube lifter

Type	Capacity [kg]	Vacuum generator	Lifting height [mm]	Stand dimensions [mm]	Height [mm]	Lift speed [m/min]
JumboFlex 20	20	Vacuum pump/ejector	1500/1800	700/800	2650/3000	40
JumboFlex 35	35	Vacuum pump/ejector	1500/1800	700/800	2650/3000	50



Integrated one-finger controller



Setting the suspension



Flexible pick-up and suspension of the load



Rotation without limits



Filter

- Tool-free installation and removal of the filter for cleaning and/or replacement

Setting the suspension

- It is easy to set the suspension height of the vacuum tube lifter with no load

Precision single-hand operation

- Integrated one-finger control
- Equally easy to use for right-handed and left-handed users
- Sensitive control of lift speed
- Single controller for activation/deactivation and load release

Ergonomic lever shape

- Ergonomic design of operating levers with soft-touch element

Flexible load pick-up

- Suction pads can be swivelled 90° to pick up workpieces from the side
- After workpieces are picked up, they are automatically swivelled into a horizontal position

Rotation without limits

- The JumboFlex vacuum tube lifter can be rotated without limits
- Workpieces that have been picked up can also be rotated without limits below the controller; locking in 90° intervals

Replaceable suction pads

- Features quick-change function as standard component

Flexible and Powerful

The right gripper solution for every application



Quick-change mechanism

- Integrated as a standard component in the JumboFlex vacuum tube lifter and all grippers
- Permits grippers to be changed in seconds without the need for tools



Round suction pad RG

- For glued cardboard boxes, barrels, cans, furniture bodies, rolls of film and foil, buckets etc.
- Maximum load of 35 kg



Box gripper

- For transportation and storage boxes from all commercial manufacturers
- Maximum load of 35 kg



Double suction pads DG

- For clamped, glued, strapped or open cardboard boxes, furniture bodies etc.
- Both suction pads are mounted to the crossbeam in either a fixed or an adjustable position
- Maximum load of 35 kg



Single-hook head

- For buckets, cans etc.
- For mechanically hanging various workpieces
- Maximum load of 35 kg



Sack suction pad SG

- For plastic sacks, welded packages etc.
- Maximum load of 25 kg

Complete systems from Schmalz

The perfect crane solution for the JumboFlex vacuum tube lifter

Used together with the JumboFlex vacuum tube lifter, these innovative crane solutions from Schmalz provide flexible workpiece handling in many differing industries.

Our comprehensive services in the areas of consulting, project planning, inspection and maintenance guarantee that you are always in safe hands.



Aluminium crane system with one beam, 85 kg or 150 kg load, 2x6 m or 4x6 m

Aluminium crane system SRA

- Highest standard of ergonomic handling due to excellent ease of movement and low mass inertia
- A large working area and numerous possible combinations ensure maximum flexibility
- Its intelligent and well-planned modular system allows for easy integration with an existing steel structure or a custom superstructure
- Modern, attractive design built using high quality components, innovative section geometry and a modular structure



Slewing column crane with aluminium crane rail, maximum load 65 kg, 5 m jib length with base plate

Column-mounted slewing crane SK with aluminium crane rail

- Extremely easy to move as a result of the special bushings at the pivot bearing and the use of aluminium crane rails
- Large working area achieved by a swivel angle of 270°
- Adjustable travel through use of variable end stops
- Very safe as the crane's main switch is integrated into the column
- Maximum flexibility through individually adjustable column and jib lengths
- Easy to install as all crane columns are fitted with anchors and do not require additional intermediate plates



Attached to a concrete column, maximum load 140 kg, 4.5 m jib length

Wall-mounted slewing crane WK with aluminium crane rail

- Extremely easy to move as a result of the special bushings at the pivot bearing and the use of aluminium crane rails
- Easy to install because of the special new wall consoles for securing the wall-mounted slewing crane
- Complete utilisation of the existing work surface achieved by a swivel angle of at least 180°
- Adjustable travel through use of variable end stops



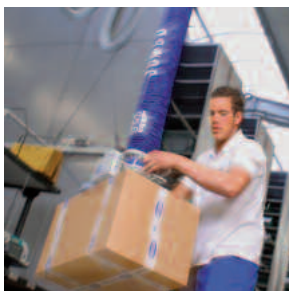
Vacuum Components

Innovative vacuum components from Schmalz offer many users in various sectors of industry reliable support in the solution of automation and handling tasks. The wide range of components extends from suction pads and vacuum generators to mounting elements and system monitoring devices.



Vacuum Gripping Systems

Complex vacuum gripping systems from Schmalz permit decisive productivity improvements to be achieved. The range extends from layer and large-area gripping systems to complete vacuum spiders, delivered ready for connection, for use in all areas of automation.



Vacuum Handling Systems

Ergonomical vacuum lifting devices Jumbo and VacuMaster for effortless, damage-free handling of workpieces. Crane systems to supplement these to form complete system solutions which are precisely matched to the planned application. Workshop equipment as practical aids in trade and industry.



Vacuum Clamping Systems

Future-oriented vacuum clamping technology from Schmalz is the intelligent response to the continually increasing demands for more productivity and economic operation of CNC machine tools.

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