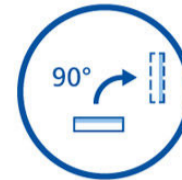




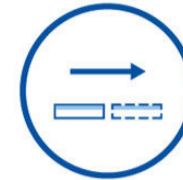
Homepage > Vacuum Lifters and Crane Systems > Vacuum Tube Lifters Jumbo > Vacuum tube lifter JumboErgo

## Tube Lifter JumboErgo

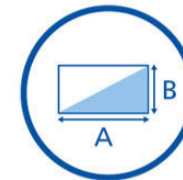
For workpieces of many different shapes and sizes weighing up to 300 kg



MAX. 120 KG



MAX. 300 KG



MAX. 4 X 2 M

### Highlights:

- Workpieces up to 300 kg in different formats
- Twist grip for safe operation
- Workpieces swivel by up to 90° (optional)

### Product Inquiries:

We would be happy to help you design a vacuum lifting device and a compatible crane.

[Product Inquiry](#)

03:52



The twist grip on the JumboErgo is designed to operate like a motorcycle throttle. Large and heavy loads such as wooden boards, cardboard boxes and solar panels can be moved gently and precisely. The length of the operator handle can be varied, which allows the user to always maintain a safe distance from the load.

### Documentation



Brochure: Lifting Devices VacuMaster and Tube Lifters Jumbo (PDF, 8.9 MB)

### Modular System

## Modular System

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Do you have questions?



- (1) Radio remote control SRC for vacuum generator (optional)
- (2) Frequency control with vacuum blower SBV
- (3) Twist grip for lifting, lowering and releasing the load
- (4) Filter - changable without tools
- (5) Suspension height can be adjusted without the load attached
- (6) Quick-change adapter for vacuum grippers (optional)

## Vacuum Grippers

### Vacuum Grippers

Versatility is key: Schmalz offers the right suction cups for virtually any application. With quick-change adapter the gripper can be changed quickly and easily.



Quick-change adapter (optional)



#### Single vacuum gripper

For compact goods such as cardboard boxes, barrels, buckets, jugs and cabinets.



#### Single vacuum gripper, long

For pallets, narrow cardboard boxes, beams, square tubes and other elongated workpieces.



#### Round vacuum gripper

For barrels, buckets or stone slabs with rough surfaces.



#### Sack gripper

For paper and plastic bags, raw rubber bails and shrink-wrapped packages.



#### Double vacuum gripper

For cardboard boxes, crates or sheets. The vacuum grippers can be continuously adjusted along the beam.



#### Double vacuum gripper FM

For pallets, sections or cut pieces where the vacuum gripper is not fully covered by the workpiece. The grippers can be continuously adjusted along the beam.



#### Quadruple vacuum gripper

For large cardboard boxes, sheets and non-rigid pieces. The vacuum grippers can be continuously adjusted lengthwise and crossways.



#### Multiple vacuum gripper

For uneven workpiece such as foil trays or unstable cardboard boxes. The individual vacuum grippers optimally compensate for any unevenness.

 Do you have questions?



## Mechanical grippers

Schmalz offers mechanical gripper solutions for workpieces that cannot be vacuum-gripped, such as bags or open transport boxes.

## Modular system for configuring custom grippers

In addition to a large number of pre-configured grippers, the modular gripper system adds additional configurations to the Jumbo product range. You can easily configure multiple vacuum grippers that are custom tailored to the respective application.

### Technical Data

## Technical Data

The vacuum tube lifters JumboErgo and JumboSprint can be configured specifically based on the requirements of each individual application due to their modular design. The technical data varies depending on the configuration and on the vacuum gripper chosen.

**Vacuum generator**

- Blower with 155, 185 or 220 m<sup>3</sup>/h suction capacity
- Ejector with 132 m<sup>3</sup>/h suction capacity

**Lifting unit**

- Max. lifting stroke (Z) 1,700 mm or 2,100 mm
- Diameter (D) 120 mm up to 305 mm

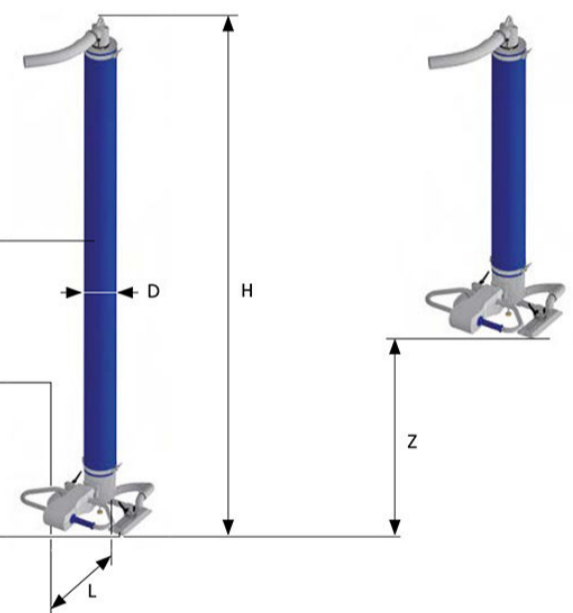
**Operator handle**

Operator handle length (L)

- JumboErgo: 350 mm up to 1,000 mm
- JumboSprint: 155 mm up to 500 mm

**Vacuum gripper**

Height around 80 mm up to 155 mm



The following technical data are standard values.

Type	Workpiece format* Min [mm]	Workpiece format* Max [mm]	Operator handle length L [mm]	Max. lifting speed [m/min]	Max. lifting stroke Z [mm]	Height H** [mm]
JumboErgo	300x200	4,000x2,000	350-1,000	60	1,700	2,850
	300x200	4,000x2,000	350-1,000	60	2,100	3,400
JumboSprint	300x200	3,000x1,000	155-500	60	1,700	2,850
	300x200	3,000x1,000	155-500	60	2,100	3,400


A lift capacity of 140 kg and higher applies: lifting stroke Z +160 mm, height H +250 mm

\*Depends on the vacuum gripper chosen

\*\*Vacuum gripper not included (total height = H + height of the vacuum gripper)

## Lift Capacities

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Jumbo type	Max. lift capacity [kg]		Ø Lift tube D [mm]	Max. lift capacity							
	Horizontal	90° swivel		35 kg	45 kg	65 kg	85 kg	110 kg	140 kg	200 kg	300 kg
Ergo/Sprint 35	35	-	120	▶							
Ergo/Sprint 45	45	30	140	▶ 90° ▶							
Ergo/Sprint 65	65	50	160	▶ 90° ▶ ▶							
Ergo/Sprint 85	85	70	178	▶ 90° ▶ ▶ ▶							
Ergo/Sprint 110	110	90	203	▶ 90° ▶ ▶ ▶ ▶							
Ergo/Sprint 140	140	120	230	▶ 90° ▶ ▶ ▶ ▶ ▶							
Ergo/Sprint 200	200	-	250	▶ ▶ ▶ ▶ ▶ ▶ ▶							
Ergo/Sprint 300	300	-	305	▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶ ▶							

Crane Systems

## Crane Systems for Vacuum Lifters

The vacuum lifter from the product range of Schmalz are complemented by the crane systems.

The lightweight aluminum cranes and jib cranes have been adapted to the loads of the vacuum lifter. The modular design allows for easy integration of the vacuum lifter including crane system into your work environment.

> [Details on cranes systems and jib cranes](#)



### Aluminum Bridge Cranes

Installation on ceiling or portal construction  
Lift capacity up to 1,200 kg



### Column-Mounted Jib Cranes

Fitted with anchors for floor mounting  
Lift capacity up to 1,000 kg  
Optionally available with mobile base plate (lift capacity up to 200 kg)



### Wall-Mounted Jib Cranes

Mounted using a wall bracket or clasp bracket  
Lift capacity up to 1,000 kg

Applications

## Tube Lifter JumboFlex in Use



Lifter JumboErgo for the Handling of Roofs



JumboErgo Vacuum Tube Lifter for Efficiently Loading CNC Machining Centers



JumboErgo Vacuum Tube Lifter for Efficiently Loading CNC Machining Centers

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[> Learn more](#)

**Vacuum tube lifter JumboErgo for loading and unloading CNC woodworking centers**

[> Learn more](#)[> Learn more](#)

**Vacuum Tube Lifter JumboErgo simplifies loading wooden boards into a CNC woodworking machine**

[> Learn more](#)[> Learn more](#)

**Vacuum Tube Lifter JumboErgo for the Ergonomic Picking of Cardboard Boxes**

[> Learn more](#)

Applications [> Show all](#)

[Vacuum generators](#)



### Blowers SBM, SBL, SBV

Electric vacuum generators for workpieces up to 300 kg. The frequency controlled blower SBV is continuously variable and its power can be adjusted to changing loads.




### Ejector SEM

Compact, compressed air vacuum generator with high flow rate for workpieces weighing up to 85 kg.

## Accessories for Vacuum Tube Lifters JumboErgo

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 Do you have questions?

SRC



### Radio Remote Control SRC

Save up to 40% in energy with the push of a button

With the radio remote control SRC, you can directly switch off the vacuum generator on the operator handle when not in use and then back on again. The radio remote control is activated by a simple button push and needs no energy source due to an integrated solar cell.



### Quick-Change Adapter SWA

Instantly switch vacuum gripper

The quick-change adapter SWA allows you to quickly and easily switch the vacuum gripper on your tube lifter in order to adapt to changing workpieces.



### Swiveling Unit PSE

Swivel workpieces by 90°

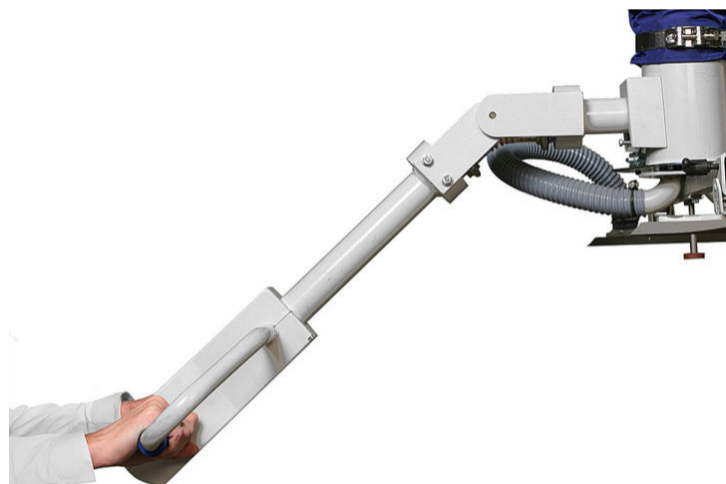
With the push of a button, the pneumatic swiveling unit PSE allows the user to swivel workpieces weighing up to 120 kg securely and in an ergonomic fashion.



### Rotation Unit DE

Continuously rotate workpieces

With the rotation unit DE, vacuum-gripped workpieces weighing up to 200 kg can be continuously rotated and positioned precisely.



### Movable Operator Handle

Maximize stack heights

High stacking heights are no problem with the movable operator handle (only for JumboErgo). An optional locking mechanism allows it to be fixed at different angles.



### Venting Unit BEL

Instantly release workpieces

The venting unit BEL allows non-porous workpieces to be released from the vacuum gripper and set down.



### Silencer box SBB

Reduce the sound level

The silencer box SBB reduces the sound level of the vacuum generator to 65 dB(A) and protects it from outside dirt. It can be easily mounted on the optional blower mounting platform.



### Dust Filter STF

Protection against dirt

The dust filter STF keeps dirt particles away from the vacuum generator and is always recommended to protect the generator. An optional differential pressure monitor with a signal lamp indicates when the dirty filter has to be changed.




### Hose-Cylinder Extension SZV

Reach into deep containers

The hose-cylinder extension SZV enables ergonomic loading and unloading of containers such as lattice boxes.

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### Motor-Protection Switch MSS

#### Protection against thermal overload

With the motor-protection switch MSS the vacuum generator can be switched on/off and protected against overcurrent. It can be integrated into the Schmalz crane column without the need for complicated wiring and can be optionally locked.



### Spring Balancer FZG

#### Spring balancer for long operator handles

The spring balancer FZG keeps the tube lifter JumboErgo balanced and is recommended if the operator handle is longer than 750 mm.



### Protective Tube and Retaining Net

#### Protection against wear

The protective tube prevents mechanical damage to the lift tube and is easy to clean. The retaining net protects the vacuum grippers and the lift tube when the tube lifter is not in use and allows for space-saving storage.

## Do you have any questions about our products?

**T: +1 (919) 713-0880**

**Fax: +1 (919) 713-0883**

**[schmalz@schmalz.us](mailto:schmalz@schmalz.us)**

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