

## Vacuum Lifting Devices VacuMaster

Move Heavy Loads Weighing up to  
Several Tons Ergonomically and Securely

The vacuum lifting device VacuMaster from Schmalz is the ultimate workhorse. Whether handling metal plates, wooden boards, plastic sheets, barrels, windows or glass sheets – the VacuMaster tackles even the heaviest tasks with weights up to several tons. For applications where many hands would normally be required, the VacuMaster allows workpieces to be handled effortlessly by just a single operator while protecting the employee's health.



Selection aid  
Jumbo or VacuMaster?  
More on page 46

# Vacuum Lifting Devices VacuMaster

## Introduction

### Application

For handling large, flat and typically non-porous workpieces, for example:

- Loading and unloading CNC laser cutting machines with metal plates
- Loading and unloading CNC machining centers with wooden boards or plastic sheets
- Handling and positioning glass panels and windows during production, framing and installation

### Your Benefits

- Efficient, non-damaging handling of heavy loads
- To work ergonomically and protect operator health
- Excellent work safety and process reliability thanks to vacuum reservoir and audible warning device
- Long service life due to a robust mixture of steel, aluminum and high-strength plastic
- Low operating costs thanks to controlled vacuum generator with energy saving (Comfort version)

### Design and Function

The vacuum lifting device VacuMaster has a modular design. Various basic modules, operator handles, load beams and suction plates allow you to customize the configuration. The necessary suction force is generated by the vacuum generator and transferred to the workpiece via the suction plates. For safety purposes, the aluminum load beam also serves as a vacuum reservoir. A chain hoist is required for lifting or lowering motion, which Schmalz offers along with a compatible crane system.

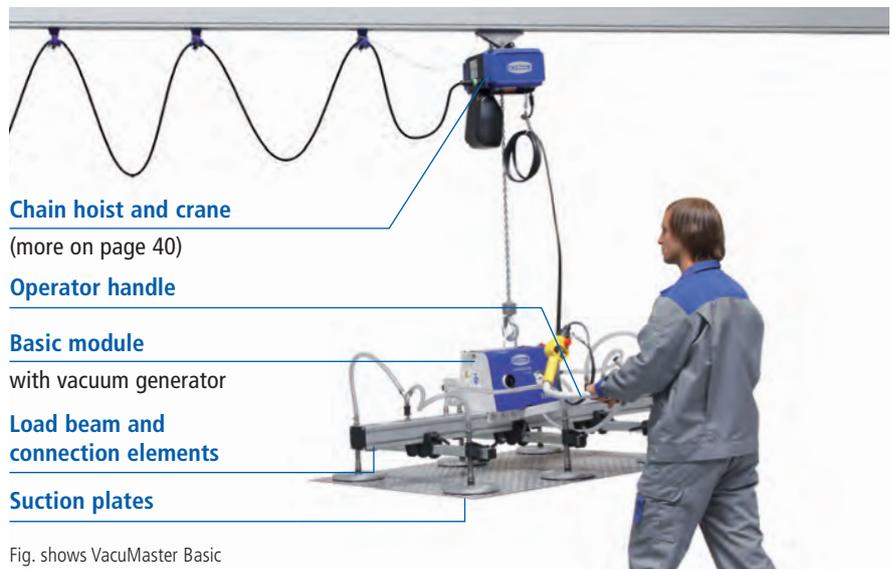


Fig. shows VacuMaster Basic

### Product Overview

The right solution for any task: With their modular system, the VacuMaster Basic and VacuMaster Comfort cover standard applications weighing up to 750 kg. Schmalz also offers additional lifting devices which are specially designed for the specific requirements of certain industries.

Type	Max. lift capacity						
	100 kg	125 kg	250 kg	500 kg	1000 kg	1500 kg	2000 kg
VacuMaster Horizontal	→	→	→	→	→	→	→
VacuMaster 90° Swiveling	→	→	→	→	→	→	→
VacuMaster 180° Turning	→	→	→	→	→	→	→

----- Additional lift capacities up to more tons on request



#### VacuMaster Basic and VacuMaster Comfort

Flexible modular system for standard applications weighing up to 750 kg (page 26)



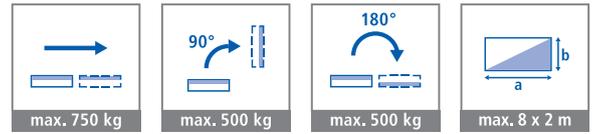
#### Additional VacuMaster

For special lift capacities and industry requirements (page 32)

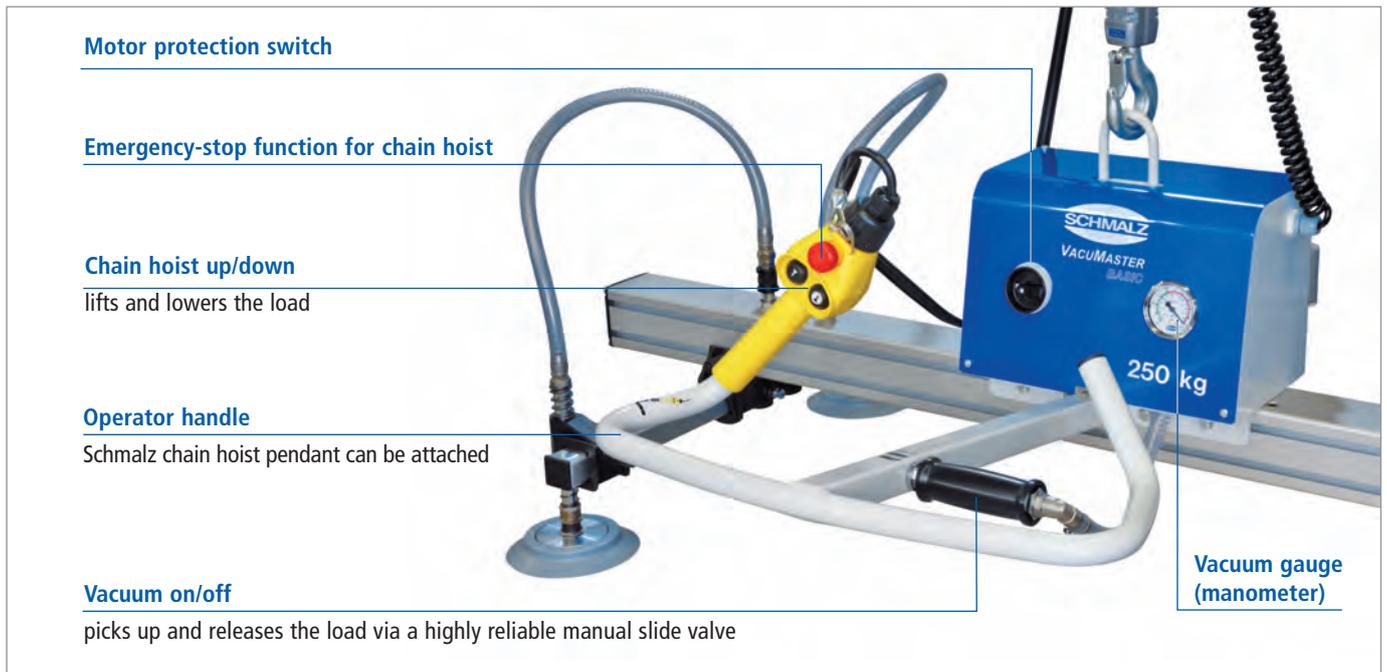
# VacuMaster Basic and VacuMaster Comfort

Lift Capacity up to 750 kg

The VacuMaster Basic's versatile standard equipment makes it indispensable for many applications. In addition, the VacuMaster Comfort offers an operator handle that brings together all of the device's controls as well as a controlled vacuum generator for reducing energy consumption.

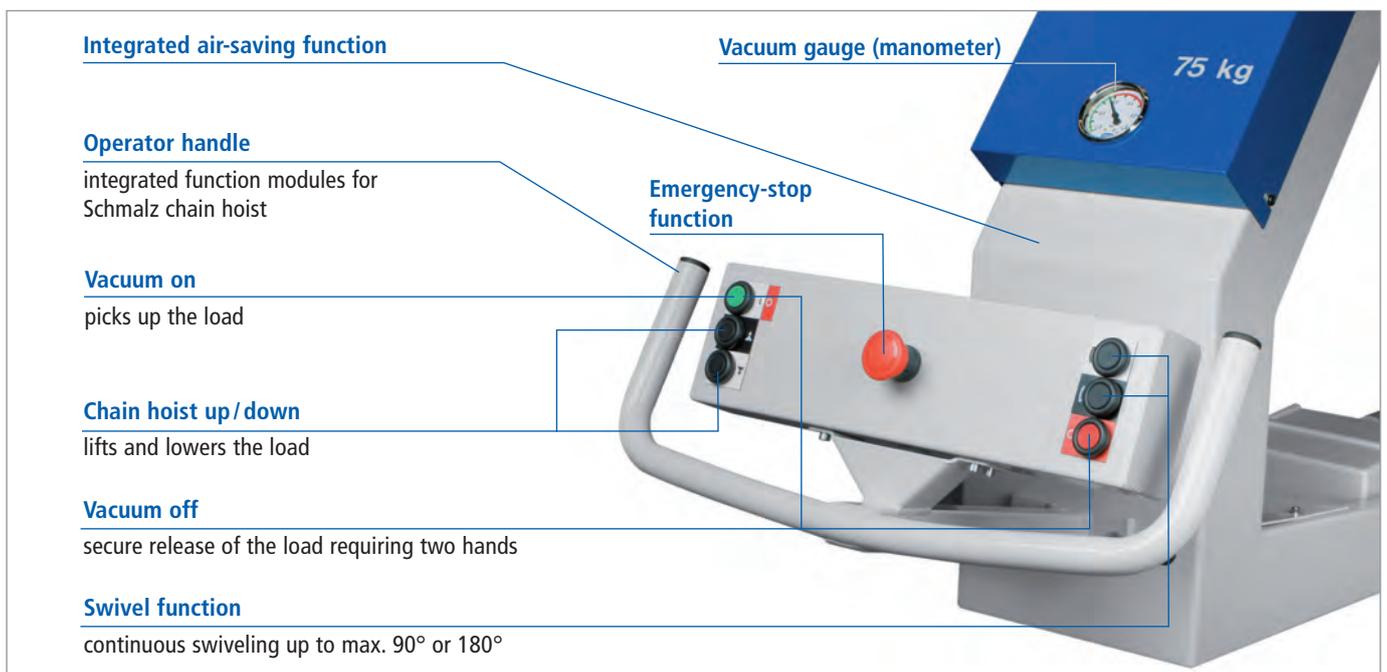


## VacuMaster Basic



[www.schmalz.com/vm-basic](http://www.schmalz.com/vm-basic)

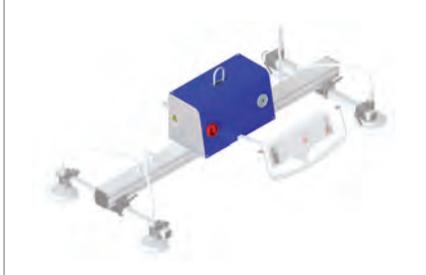
## VacuMaster Comfort



[www.schmalz.com/vm-comfort](http://www.schmalz.com/vm-comfort)

## Basic Module

The basic module is the heart of every VacuMaster. It contains the vacuum generator, an audible warning device as well as all the measuring and control devices. Depending on the application, you can choose from three different basic modules whose shape and design are optimally suited to the handling task.



### Horizontal handling

Standard design with vacuum generator, audible warning device, vacuum gauge (manometer) and motor protection switch. Protection of the components under a robust sheet metal barrier.

- For lift capacity up to 750 kg



### 90° swiveling

Basic version adds to electric drive for jolt-free, continuous swiveling through 90°.

- For lift capacity up to 500 kg



### 180° turning

Basic version adds to electric drive for jolt-free, continuous turning through 180°.

- For lift capacity up to 500 kg

## Vacuum Generators



### Vacuum pump EVE

Electric vacuum generator for smooth and suction-tight workpieces weighing up to 750 kg.



### Vacuum ejector SEM

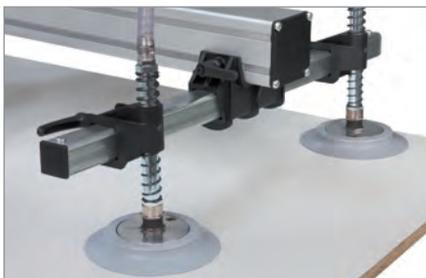
Compressed air vacuum generator with high flow rate for porous workpieces weighing up to 250 kg. Only for horizontal handling.



### Reliable and safe vacuum control

VacuMaster Basic with manual slide valve for high safety by double actuation and anti-trap protection. Prevents unwanted losing of the load.

## Load Beam and Connection Elements



### Light, robust and flexible

The combination of aluminum and high-strength plastic allows the cross beams and suction plates to be easily adjusted to quickly adapt to changing formats.



### Integrated vacuum reservoir

The large vacuum reservoir prevents the load from falling in the case of a power failure and makes gripping faster during repeated lifting processes.

## Suction Plates



### Versatility for every task

Allows for optimal adaptation to the work-piece and to requirements such as heat resistance, food safety and mark-free gripping. Select from suspension which is rigid, spring-mounted or both flexible and spring-mounted.



## Accessories



### Maximize stack heights

Large height differences are no problem with the swiveling and locking operator handle. The working posture remains ergonomic in any position.



### Adapts to changing workpieces

With the suction pad shut-off valve several suction pads can be turned off for handling of cut pieces or pieces with gaps.



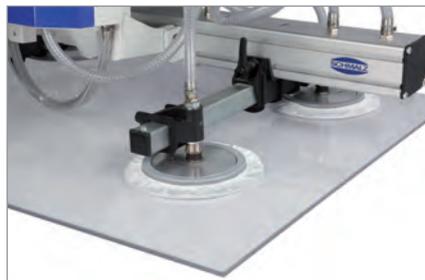
### Secure storage of the lifting device

When the lifting device is not in use, the parking stands allow it to be stored securely while protecting the suction pads. This allows the crane to be used for other purposes.



### Quick-connect electrical connection

The CEE plug suggests the lifting device to be easily connected to the power supply and then quickly disconnected if necessary (only for VacuMaster Basic).



### Mark-free handling

The suction plate covers prevent the plates from leaving marks on sensitive workpieces such as glass sheets or solar panels.



### Protection against water

The maintenance-free water separator prevents water from entering the vacuum generator during moist processes such as waterjet cutting.