



Manual Handling

Handling systems for clean rooms and hygienic areas

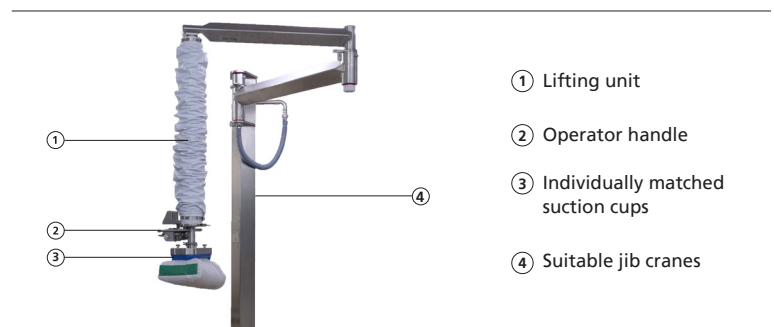
The optimal system efficiency: Tube lifters and hygienic stainless steel jib cranes



The vacuum tube lifters Jumbo Sprint Hygienic and the hygienic stainless steel jib cranes form a well-designed, comprehensive solution for efficient load handling. While the tube lifter ensures effortless lifting and lowering, the crane provides the safe and flexible guidance of the load within the room. This results in an ergonomically powerful system with high process reliability and maximum relief for the operator. The modular design allows the solution to be flexibly adapted to specific working environments. Additionally, the robust construction ensures reliable continuous operation, even under demanding industrial conditions.

Design and Function

The complete system consists of a lifting unit, operator handle, gripper, crane column, jib, and vacuum generator. The crane moves the load responsively around the room, while the lifting unit handles the lifting and lowering. Control and operating elements enable ergonomic working. The result is a safe, efficient handling system suitable for many industries.



Handling solution consisting of vacuum tube lifter and crane

Product Overview

The complete system combines ergonomic, strain-reducing lifting of loads up to 100 kg with maximum efficiency and hygiene. Specifically designed for clean rooms, wet and hygiene areas, the hose lifter and cranes form a perfectly coordinated system for safe and efficient load handling. Further information on the individual products can be found on the following pages:



JumboSprint Hygienic
Ergonomical lifting in wet and hygienic areas as well as in clean rooms

— S. 3-4



Hygienic stainless steel jib cranes
Responsive, precise guidance and positioning of the load

— S. 5

Easy lifting, clean working: Vacuum tube lifter JumboSprint Hygienic

The vacuum tube lifter JumboSprint Hygienic has been specially developed for use in hygienic areas and clean rooms. The tube lifter enables the lifting of loads weighing up to 100 kg – such as bags, barrels, or buckets – and is used in the food, cosmetics,

chemicals, and pharmaceutical industries. With smooth surfaces, FDA-compliant material, and hygienic design, the JumboSprint Hygienic is easy to clean and support a safe, efficient process.

Quality without compromise: Built to meet the highest standards

The vacuum tube lifter JumboSprint Hygienic combines ergonomically designed features with maximum efficiency and hygiene. Discover the key benefits at a glance:



High process reliability

Integrated safety functions and reliable load suspension for maximum operational safety as well as protection of both – product and operator



Ergonomically designed handling

Responsive movement guidance for comfortable, fatigue-free working, even with frequent lifting



Hygienic design

Smooth stainless steel surfaces, ground weld seams, and FDA-compliant material for easy cleaning and maximum hygiene

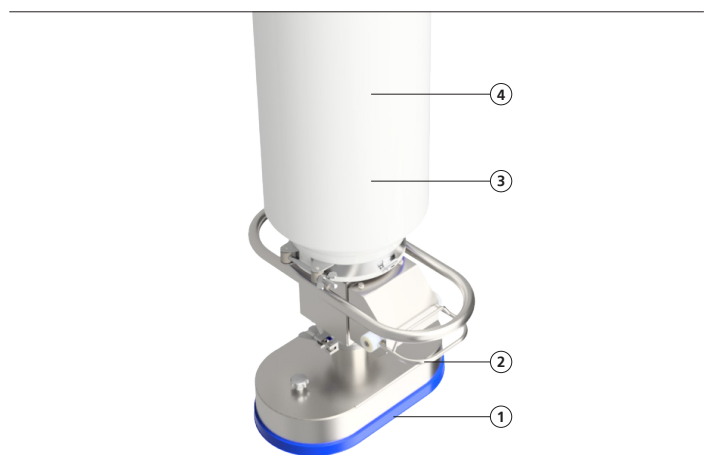


Wide range of applications

Ideal for use in the food, chemicals, pharmaceutical, cosmetics, battery, and semiconductor industries for handling bags, barrels, buckets, and crates of various types

Design and Function

- Vacuum generation by electrical blower up to 100 kg load capacity
- Flexible vacuum supply hose
- Individually tailored vacuum suction cups (1) for different workpieces
- Bow-shaped operator handle (2) for lifting, lowering, and release of the load
- Lifting unit (3) with wipeable protective tube and optional integrated filter element



Design of the vacuum tube lifter JumboSprint Hygienic

The optimal handling solution for hygiene areas

The JumboSprint Hygienic is a robust solution for wet and hygienic areas with standard hygiene requirements. The JumboSprint Hygienic with integrated HEPA-Filter goes one step further: it is specially designed for highly sensitive applications such as clean rooms or filling systems and meets even the most stringent hygiene standards.

	JumboSprint Hygienic	JumboSprint Hygienic (with optional integrated HEPA-Filter)
		
Areas of application	Wet and hygienic areas	Clean rooms, wet areas, and hygienic areas
Materials	FDA-compliant	
Operator handle	Permanently installed, with quick change gripper mechanism	Can be dismantled without tools
Purification	The entire system can be cleaned with a high-pressure cleaner	Operator handle machine washable, lift tube wipeable
Protection against contamination inside the lift tube	–	Integrated HEPA filter
Typical applications	Goods receipt and output, weighing, dosing, decanting, direct contact with solid materials	Hygiene-sensitive areas such as clean rooms and filling systems, especially for powder and dust materials
Level of hygiene	Standard requirements	Clean room requirements

FURTHER INFORMATION



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Scan the QR code now with your smartphone or tablet and discover all the details about our manual handling solutions for clean rooms and hygienic areas!

Hygienic stainless steel jib cranes

Hygienic stainless steel jib cranes from Schmalz are optimally designed for use with vacuum tube lifters JumboSprint Hygienic in clean rooms and hygienic areas. The various versions allow the cranes to be used in a wide range of applications and environments.

PRODUCT HIGHLIGHTS

- Optimal adaptation to the nominal load capacity of the tube lifter
- Hygiene-oriented design for low dirt accumulation and easy cleaning
- Durability thanks to high-quality, low-wear components
- Enables high working speed and positioning accuracy
- Supports ergonomically and fatigue-free working

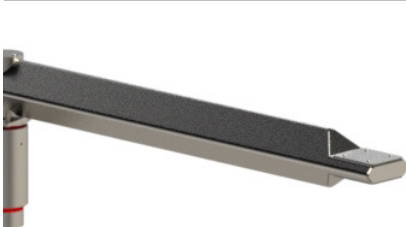


Hygienic stainless steel jib cranes with articulated-arm jib

- Crane column for floor or ceiling mounting
- Articulated arm jib up to 4,000 mm in length in vertical version for maximum lifting height or in suspended version for 360° rotatability of the first jib element
- Swivel bearing with swivel angle up to 220°
- Responsive adjustable via adjustment screw
- Ready-to-plug base plate

Hygienic stainless steel jib cranes with conventional jib

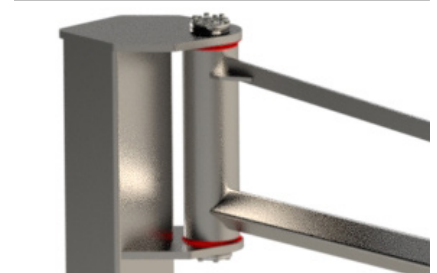
- Crane column for floor or ceiling mounting
- Jib with a length of 4,000 mm and adjustable end stop
- Swivel bearing with swivel angle up to 220°
- Responsive adjustable via adjustment screw
- Ready-to-plug base plate



Crane profile rotated by 45°
reduces deposits

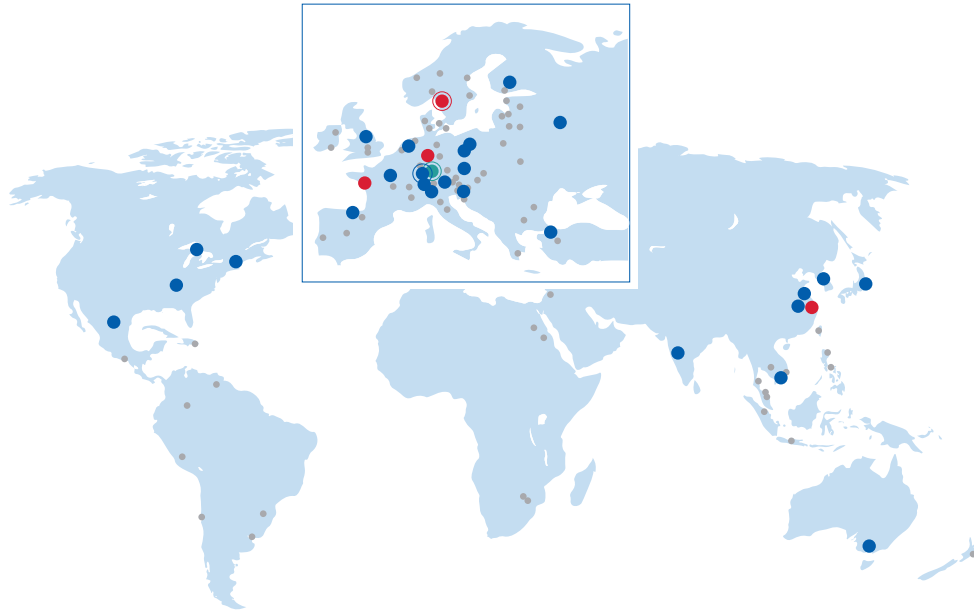


External carriage
for easy cleaning (with conventional jib)



Sealed bearings
prevents the ingress of contaminants

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Vacuum Automation

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