

LIFT WITH EASE

Efficient and ergonomic
material handling





Item No.: 89-12178

Pallet gripper 89-12178



Type of lifting object	Pallet
Weight (kg)	32
Maximum capacity (kg)	45
Serial number	A6844
Gripping technique	Vacuum
Optional control	PSH



Lifts All's pallet gripper is a versatile lifting tool designed for handling pallets, pallet collars, and pallet lids. Managing pallets manually is physically straining and typically requires at least two people. Our pallet gripper makes this work easy, efficient, and possible to complete independently. It's the perfect solution for those working with pallets in warehousing, industries, and distribution centers.

Vacuum Suction Plate

Equipped with a vacuum suction plate, this gripper ensures a secure grip on pallets, providing safe and reliable handling of boxes and bags. The vacuum technology guarantees a firm hold, minimizing the risk of slippage during the process.

High Speeds Operation

Designed for high-speed operation, this pallet gripper allows one person to complete palletizing tasks that previously required two workers. This feature is particularly beneficial in production environments where efficiency is critical when handling boxes, bags, and packages.

Compact design

The compact design of the Pallet Gripper 89-12178 makes it ideal for use in confined spaces. Its small footprint allows for easy integration with robots and existing palletizing machines without requiring significant engineering effort.

Easy maintenance

The gripper's design allows for easy maintenance and repair, reducing downtime and increasing overall efficiency. This feature ensures that your equipment remains operational with minimal interruptions, protecting your production process.

Utilizing the pallet gripper

The Pallet Gripper 89-12178 is applicable for a wide range of palletizing applications, including:

Empty Pallets Handling

This pallet gripper excels at handling empty pallets, making it an ideal solution when pallets need to be moved or stored efficiently. Its ability to stack empty pallets maximizes space utilization in your facility.

Pallet Lid and Pallet Collar Handling

The pallet gripper is not only designed to handle pallets but can also easily lift pallet lids or pallet collars of various shapes. This makes it a clever and compact 3-in-1 lifting solution that saves space and optimizes your workflow when managing different types of items.

Smooth Production

With its smooth operation, the gripper is well-suited for high speeds in production environments. It enhances efficiency when handling bags, boxes, and packages, ensuring that palletizing tasks are completed swiftly and effectively.

Technical Specifications

Note that our pallet grippers are always customized according to the customer's requirements. The Pallet Gripper 89-12178 has the following technical specifications:

- **Features:** Tilt function and proportional speed control
- **Pallet sizes:** 2400 × 800 mm, 1400 × 800 mm, 800 × 800 mm
- **Weight:** 72 lbs
- **Material:** Durable steel construction
- **Working medium:** Vacuum

Note: The technical specifications may vary depending on the specific gripper and usage. Please contact our sales team for more information about our products.

What is a pallet gripper?

A pallet gripper is an ergonomic lifting device specifically engineered for palletizing tasks. Lifts All offers several types of palletizing grippers to help with lifting bulky and heavy pallets. With our pallet gripper, you can weightlessly grip, lift, and stack empty pallets with ease. We also provide palletizing grippers with extended features that can tilt or rotate the load, or fold pallet collars. These grippers are commonly used in pallet stations, production lines, and robots in factories where palletizing applications demand precision.

How does a pallet gripper work?

Our pallet gripper attaches to pallets, pallet lids, or pallet collars when the suction plate is placed on the material. The gripper can attach to the top of pallets and lids, or to the sides of pallet collars. The gripper lifts the load using vacuum power, allowing for a secure grip on various packages. The green indicator lights up when the vacuum level is correct, signaling that it's safe to handle the weight. After moving the pallet to the desired location, the gripper is disengaged by pressing the red button.

Benefits of using a pallet gripper

- A pallet gripper lifts weightlessly and ergonomically, allowing for better protection of your staff.
- Using palletizing grippers aids in keeping workers healthy without wear and tear injuries caused by heavy lifting. The maximum weight for this pallet gripper is 99 lbs.
- The pallet gripper makes it possible for one person to handle palletizing tasks that previously needed two people, which streamlines processes, increases production, and frees up time for other work.

- A vacuum gripper allows high-frequency lifting of bags and packages. Instead of back-breaking manual work, the pallet gripper allows you to maintain high speeds while working comfortably.
- No more splinters or scratches. The pallet gripper allows you to spare your hands even when working without gloves, providing additional protection.
- Maximize space by stacking empty pallets efficiently in your production facility.
- Our palletizing grippers are ergonomically designed to suit arms of all sizes, as well as right or left-handed operators.

Pallet lifters for handling various pallets

We primarily manufacture grippers for EU-pallets, whole and half pallets, but we can customize grippers to be compatible with almost any pallet type. Our machines can handle both loaded and empty pallets.

Our palletizing grippers are tailored to meet your needs. The maximum lifting capacity, grip pressure, method of gripping, tilting and rotation functions are customized to lift your specific products. Regardless of what items you need to handle and what environment you work in, we will develop a suitable solution. Just contact our skilled sales team, and they will provide the best gripper for your palletizing applications.

Different handling methods

Different products require different handling methods and solutions. Besides vacuum pallet grippers, we also offer other handling techniques. We provide a mechanical pallet gripper that attaches by a clamping mechanism, which is often beneficial when lifting porous materials. Another solution is our versatile multi-gripper, the Basic. With its different applications that are easy to attach, it allows you to lift by hooking onto packages or lifting with one or several vacuum cups, giving you flexibility to choose the right approach for your items.

What is the difference between a pallet gripper and a pallet jack?

A pallet jack is usually manually rolled under the pallet and raised by leverage force. The pallet is then lifted off the floor and can be dragged away. Lifts All's pallet gripper, on the other hand, requires no physical force or technique to lift the load. Thanks to pneumatics (vacuum technology), the pallet change is completely weightless.

Additionally, the pallet gripper is attached either to robots, a crane, or an overhead traverse system, allowing extended use at different sides of the workplace without manually dragging it around.

Frequently Asked Questions

What is the best way to lift a pallet?

Using a pallet gripper is the best ergonomic way to lift a pallet. Our vacuum pallet gripper provides an ergonomic solution that requires no physical strain, unlike manual methods or traditional pallet jacks. The gripper allows for weightless lifting, protecting workers from injuries while increasing efficiency in palletizing tasks.

How do you lift a pallet without a pallet jack?

You can efficiently lift a pallet without a pallet jack by using our pallet gripper. Unlike pallet jacks that require manual force, our gripper uses vacuum technology to attach to the pallet's surface, allowing for effortless lifting and movement. This method is not only easier but also significantly reduces the risk of workplace injuries.

How do I choose the right pallet gripper my business?

Choosing the right pallet gripper depends on several factors: the types of pallets you handle, their weight, your workspace configuration, and your specific palletizing tasks. Consider the material of your pallets, whether you need additional features like tilting or rotation, and the frequency of use. Our sales team can assess your needs and recommend the most suitable pallet gripper for your operation.



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