



HIGH PERFORMANCE PALLET SHUTTLE SOLUTION.

Optimizing high-density storage
with stow Atlas®

stow atlas

we
rack
the
world.



Welcome to stow Group.

With over **45 years of expertise**, stow Group is a powerful, global leader in racking and automated storage solutions, helping businesses optimize their warehouse operations with cutting-edge technology. Our commitment to innovation, quality, and efficiency drives everything we do—from designing and manufacturing to installing top-tier storage systems.

With a strong international presence, we operate nine production sites across Europe and employ **over 2,000 experts worldwide**. Under the stow Group umbrella, our two independent brands – **stow and Movu Robotics** – deliver tailored storage and automation solutions to meet the evolving demands of modern logistics.

Why choose us?

At stow, we understand the demands of modern warehousing—maximum storage capacity, quick retrieval, and seamless operations, all while reducing costs and improving safety. With **decades of industry leadership** and unparalleled innovation, we deliver reliable, cutting-edge solutions tailored to your needs.

Since 2011, stow has produced over 500 stow Atlas® shuttles annually, with thousands of shuttles currently running and improving the warehouse operations of our valued customers worldwide.

Let's dive into all the features and benefits of the latest stow Atlas® 4.0 pallet shuttle.



The most powerful
and #1 racking
provider in Europe



Over 45 years of
market knowledge
and industry
expertise



Reliability is the
cornerstone of our
brand



Meet the stow Atlas[®] Pallet Shuttle System. ■

The stow Atlas[®] 1D pallet shuttle is a semi-automated AS/RS (Automated Storage and Retrieval System) pallet shuttle that efficiently loads and unloads pallets within deep lane racking systems, without human intervention. This groundbreaking technology enhances storage density, optimizes space utilization, and speeds up pallet picking processes while ensuring top-tier reliability and safety.

For unparalleled precision and reliability, the shuttle has been **upgraded to the latest generation stow Atlas[®] 4.0**, incorporating the latest technology, including an advanced onboard controller that is fully designed, developed, and programmed in-house. Additionally, improvements such as optimized wire harness cabling help reduce cable failures, enhancing reliability and performance.

Investing in this state-of-the-art solution ensures optimal space utilization, cost savings, and seamless workflow integration, making it the trusted choice for businesses striving for peak efficiency.

Key benefits at a glance:



Maximized Storage: Eliminates forklift aisles, drastically increasing storage density.



Enhanced Efficiency: Moves pallets at an impressive speed of 0.8 m/s when loaded and 1 m/s when empty.



Cold Store Compatible: Performs flawlessly at temperatures as low as -30°C, making it ideal for challenging environments.



Flexibility: Supports both FIFO and LIFO configurations within the same installation.



Battery Power with Autonomy: Operates up to 10 hours on lithium batteries and is fully charged in just 2 hours.



Ultimate Reliability: Features an electro-mechanical lifting device designed for low maintenance and seamless operation.



stow atlas

EMERGENCY STOP

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stow Atlas[®]: Helping you to maximise storage space.



1,500 kg
max. load



0.8 m/sec
speed loaded



1 m/sec
speed unloaded



0.5 m/sec²
acceleration &
deceleration



+40°C
max. temp.



-30°C
min. temp.



10 h
autonomy



2 h
charging time

Integrated software 'AtlasConnect'

By implementing AtlasConnect at customer sites and on shuttles, stow enables seamless remote connectivity to configure and adjust shuttle parameters without the need for on-site visits. The stow Service team can efficiently perform remote software updates and upgrades, ensuring machines are always running on the latest firmware with improved functionalities and crucial bug fixes.

In the event of a failure, stow experts conduct a thorough root cause analysis to diagnose the issue. If on-site intervention is required, they ensure the problem is resolved correctly the first time, minimizing downtime and maximizing efficiency.



How we work

Our process is designed with your operational goals in mind:

- **Assessment:** Our team of experts evaluates your warehouse needs and existing racking systems for seamless integration.
- **Design:** We craft tailored solutions using the latest stow Atlas® technology to maximize performance and efficiency.
- **Implementation:** From installation to configuring the shuttle system, we ensure every detail is handled with precision to guarantee operational success.
- **Support:** Ongoing maintenance, training, and customer support ensure you can count on your system for years to come.

Features you'll love

When it comes to efficiency and reliability, our product is designed to meet the highest standards in the industry. Explore the standout features below to see how it can transform your operations and provide unparalleled performance.

- **Advanced Space Utilization:** Very deep lane depth capability allows you to maximize every inch of your racking system.
- **Smart Technology:** Wi-Fi WMS protocol enables centralized monitoring and streamlined operation. Automatic In Lane Charging allows you to automate the charging procedure.
- **Double Pick Efficiency:** Dual pallet handling optimizes throughput by loading/unloading two pallets at once and processing them sequentially.
- **Inventory Accuracy:** Automated inventory counting ensures accurate stock visibility and simplifies warehouse management.
- **Global Versatility:** Adaptable to various pallet types, including Euro, industrial, big bags, CPI-9, plastic pallets, and GMA-pallets.
- **Variable Loading Depth (VLD):** Optimizes pallet placement in deep channels by positioning the first pallet at a predefined spot instead of the end, with others placed relative to it. This reduces shuttle travel, improving efficiency.
- **Safe Distance for Sprinklers:** Defines fixed no-storage zones in the channel to meet fire safety requirements.



stow Rack Stories

Discover our stow Atlas 1D case studies

With decades of experience in manual and semi-automated racking solutions, stow has established itself as a global leader in efficient and innovative warehouse storage systems. Our expertise is built on a proven track record of successfully completed projects across diverse industries worldwide, delivering tailored solutions that optimize space, enhance productivity, and support business growth.



Start transforming your warehouse today. ■

Achieve the highest storage density, superior efficiency, and unrivaled reliability with the stow Atlas® pallet shuttle system. Whether you're upgrading your existing warehouse or launching a new facility, our advanced solutions are here to revolutionize your operations.

Contact us today to learn more or request a personalized consultation.



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we
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