



Storage meets intelligence
Nedcon Shuttle System

Nedcon is an international Group engaged in the design, production and installation of industrial racking systems.

Storage meets intelligence:

Our solutions support your company strategy and organization. As our customer, you will be able to take advantage of the worldwide experience we have acquired since 1969, our knowledge in business, and our solution-focused design and engineering.

In addition to offices in several European countries and the US, Nedcon also benefits from a large reseller organization.



Nedcon Shuttle

The first self-powered item in the extended product range offered by Nedcon is our pallet Shuttle. The Shuttle is designed with Nedcon's well-known high focus on performance, endurance and safety. As soon as the Shuttle is fed into the racking system, it performs the assigned task with the highest level of speed, precision and efficiency, without any need for human intervention. When the task has been completed, the Shuttle simply returns to its position at the front of the lane: ready for a new location and a new task.



Over the last years, the Shuttle approach has proven to effectively compete with conventional storage solutions. Under the right circumstances, a Shuttle-operated storage facility can outperform drive-in, push-back and/or flow lane racking. Compared to these systems, the Shuttle can offer clear-cut advantages to each individual solution.



System comparison

Let us quickly compare the Shuttle to the standard “drive-in” solution. Here, the Shuttle takes over the task of loading the lane. This makes it possible for the operator to start on the next job much sooner. In addition to considerable time savings, it also means that the operator will no

longer need to physically drive into the racking. As the Shuttle is designed to be an interacting component of our racking, this eliminates the possibility of damage to the inner part of the racking. Another great advantage is that you can now store different goods on different levels, as the loads will no longer need to be retrieved from the ground level.



As opposed to the “push-back” solution, the depth of the lane is clearly of no consequence to the Shuttle. It will operate a 20 pallet-deep lane with as much ease as a 5 pallet-deep lane. Also, the interacting mechanical parts of the push-back solution remain vulnerable to wear and tear, whereas the Shuttle takes over all movement.

This is also the case if we examine the “flow lane” solution. The large amount of materials needed to produce movement contributes heavily to the total investment. And many of these materials are liable to deterioration.

Operators may occasionally be required to attend to the roller tracks located at any point throughout the racking system, but -as Murphy would have it- seldom at a location that is easy to reach. If something is out of order, the Shuttle returns to the front of the lane to make itself available to the operator.



Features

- Leave pallet
- Auto leave pallet
- Collect pallet
- Auto collect pallet
- Collect number of pallets
- Change side (FiFo principle)
- Packing function
- Pallet counting
- Manual control
- Inventory



The Nedcon Shuttle provides many benefits. It detects previously placed loads and places its current one in such manner that the lane will be stocked at the highest possible density. Hauling a regular load, it travels at a speed of 0.8 m/s, thereby outperforming any comparable physical processing method. It is also barely sensitive to temperature. In cold or even freezing conditions it performs the assigned task with the same accuracy as under normal conditions, only at the expense of slightly reduced battery endurance. The task of refitting the lane setup from FIFO to LIFO can be performed entirely without the intervention of an operator. No need to apply valuable human resources: with the simple push of a button, the Shuttle sets to its assigned task. And if you have lost track of the number of loads in a given lane, all you will have to do is feed the Shuttle to the lane and it will count them for you.



Nedcon Shuttle

As Nedcon is a worldwide specialist in racking systems, it sought the expertise of a strong and capable partner for the development of the Nedcon Shuttle. Together with this partner, we feel confident to know that we provide the best Shuttle that can be found on the market today.

In addition to its speed, the Shuttle offers numerous other technical features of the highest standard. Many of these are derived directly from the Shuttle's optimized interaction with our racking. As a racking supplier known for its high focus on performance, functionality and safety, we have thoroughly fine-tuned the interacting parts of our Shuttle to maximize its performance and reliability. This is one of the reasons why we fitted it with 4 pairs of wheels, complementing each pair with a bogey to further smoothen the movement, and designed a special rail to guarantee the highest possible endurance. The Shuttle can be built to haul all regular pallets and lifts mechanically, thereby eliminating the use of hydraulic parts and rendering maintenance redundant.



Remote control

- Multifunctional
- LCD screen
- Easy to use
- Local language
- Only one remote to control multiple Shuttles
- Fully functional in subzero circumstances
- Truck connected recharging



Storage meets intelligence

With the Nedcon Shuttle, we can safely say that we have introduced a new level of performance to Shuttle-operated storage systems. Both from a Shuttle point of view as from a racking point of view, the Shuttle can compete with the best. And what is even more important, it will leave you free to choose your preferred type of truck or to simply operate the system with your existing fleet. Our knowledge of storage systems and our complete spectrum of storage solutions offer you the unique opportunity to develop the most efficient facility possible, enabling you to meet and comply with your every requirement, location and processing method.

Technical data

- Travelling speed: unloaded 1.0 m/s; loaded 0.8 m/s
- Acceleration: 0.5 m/s²
- Lifting time: 3 s
- Pallet weight: up to 2000 kg
- Battery capacity in excess of regular full working shift
- Dry cell battery power: 24V/52Ah
- Recharging time: 3-4 hours with 30A charge
- Battery replacement time: 3-4 minutes
- Battery lifetime: 3-10 years



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