



# PALLET RUNNER

Deep Lane High Density Storage  
Maximum Utilization  
Increased Throughput

SEMI-AUTOMATED DEEP LANE STORAGE SYSTEM



PALLET RUNNER is a semi-automated deep lane storage system, especially suited to applications with high volume SKUs. With deep storage you can remove aisles in your facility and increase the overall storage density in your operation.

Pallets are loaded into the racking system by fork truck and transported into deep lanes by the PALLET RUNNER cart. Once the load is positioned the cart returns to the front of the system to receive the next pallet. The PALLET RUNNER cart performs the deep lane transport, freeing the lift truck operator to travel only between load source and lane entry. This maximizes productivity and minimizes travel distance.

In using PALLET RUNNER for picking, the PALLET RUNNER cart carries loads out of the rack system while an operator moves between the lane and the shipping dock or other destinations.

Extremely robust, PALLET RUNNER carts are available in different sizes to suit a wide variety of pallet designs and can be set up for FIFO or LIFO applications in both ambient and freezer environments and used in many vertical industries, including:

- > Manufacturing
- > Blast Freezers
- > Order Staging
- > Cold Storage
- > Distribution Centers
- > Cross Docking
- > 3PL Operations
- > Replenishment
- > Food/Beverage

## WHY PALLET RUNNER?

- > **Deep Storage** - Achieve deeper storage depths than from pallet flow or dynamic racking
- > **Flexibility** - PALLET RUNNER easily integrates with Steel King's racking in the same footprint
- > **Smart** - A wide range of programming options to suit your operation
- > **Strength** - PALLET RUNNER carts can handle loads up to 4,400 lbs.
- > **Adaptability** - Customized Carts for Non-traditional and Specialized Loads

## OTHER ADVANTAGES

- > Maximizes Storage Density for Any Load
- > Compatible with All Common North American Lift Trucks
- > Pallets of Different Depths can be Handled in the Same Lane
- > Batteries Lift Out and Snap in Place; Changes are Simple and Fast
- > Ease of Maintenance; Engineered for Ready Access to Appropriate Components
- > Straight-forward Operation and Training

## OTHER FEATURES AND CHARACTERISTICS

- > Powered by the Latest in 48 Volt Lithium-Ion Technology
- > Battery Recharge Time of 5 Hours
- > Load Capability up to 4,400 Lb.
- > Cold Freezer Capability Down to -22° F. (-30° C.)
- > "Smart Sensor" Technology for Precise Speed Control and Position Detection
- > E-stop and Safety Bumper Stops
- > Pallet Spacing Available in 10mm Increments from 20-150mm (0.39" Increments, 0.79-5.9")
- > Magnetic Plates Under the Cart Cling Fast to Truck Forks for Safe Transport
- > Strobe Light Illumination to Signal Cart Operation
- > Audible Sound Acknowledges Receipt of Commands and Start of Operation

### PALLET RUNNER CART TECHNICAL SPECIFICATIONS

|                        |                               |
|------------------------|-------------------------------|
| Cart Dimensions        | 51.30" L x 32.20" W           |
| Cart Height            | 6.89" H                       |
| Cart Load Capacity     | 1,500 kg or 3,300 lbs         |
| Cart Weight            | 507 lbs                       |
| Temperature Ranges     | 113 F/-24 F                   |
| Wheel Diameter         | 4.72"                         |
| Number of Drive Wheels | 2                             |
| Number of Idle Wheels  | 2                             |
| Wheel Construction     | Steel Core/Polyurethane Cover |
| Lifting Stroke         | 1.77"                         |
| Lifting Time           | 1.5 seconds                   |
| Lowering Time          | 1.5 seconds                   |
| Cart Speed - Loaded    | 115 Feet/Minute               |
| Cart Speed - Unloaded  | 230 Feet/Minute               |
| Drive Motor            | 600 Watts                     |
| Lift Motor             | 540 Watts                     |
| Motor Design           | DC                            |
| Battery                | 48 Volt Lithium-Ion           |
| Battery Capacity       | 20 Amp Hour                   |
| Battery Run Time       | 10 - 12 Hours                 |
| Battery Charge Time    | 5 Hours                       |
| Controller Design      | R/F (Radio Frequency)         |
| R/F Frequency          | 433 MHz                       |



**STEEL KING**  
BUILT TO DELIVER

[steelking.com](http://steelking.com) | 800-826-0203 |



240401-Pallet Runner