

THE PALLET MOLE

Semi-Automated Deep Lane Storage



FRAZIER[®]

With the latest technology in compact, high density storage, the Pallet Mole optimizes floor space while measurably increasing productivity.

Application Advantages

When it comes to choosing the best high density storage solution for your business, there are a number of critical factors to consider; Cost - space availability – throughput – and SKU counts - all playing an important role in selecting the RIGHT storage solution for your operation. The Pallet Mole outperforms all other dense storage products by providing the greatest density while maximizing productivity and maintaining selectivity.

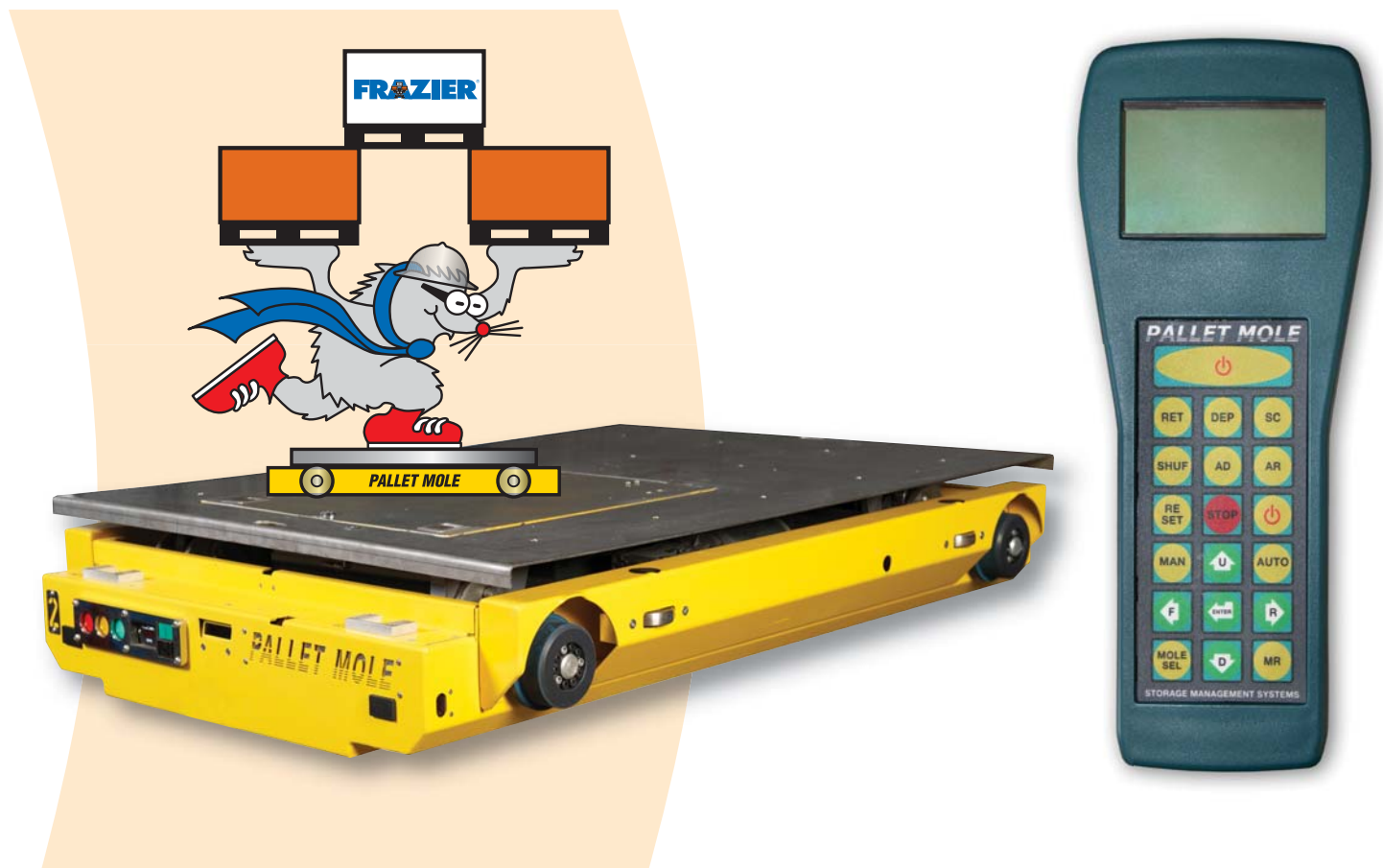
- 1 Maximize Density** – up to 6-high and 50 pallet positions deep
- 2 Increase Productivity & Selectivity** - vs. bulk storage, push-back or drive-in
- 3 Reduce Operating Costs** including removal of unnecessary lighting
- 4 Ideal for both FIFO and LIFO applications**
- 5 Optimize labor efficiencies**
- 6 Enhance accuracy of inventory control**

How it Works

The Pallet Mole runs underneath the pallet loads on rails, delivering and extracting pallets within a deep lane rack system. Working in either FIFO or LIFO applications, the Pallet Mole significantly improves throughput by indexing loads directly to the first pallet position at the aisle face. Using a RF controller, the operator can instruct the electro-mechanical platform to lift, lower, or shuttle pallets to the desired position; or program the system to run various predetermined functions.

The Pallet Mole is an ideal storage solution for a variety of storage, distribution and manufacturing applications:

- Any high volume – low SKU operation
- Freezer & cooler facilities – high cost per cubic foot
- Food processing & beverage distribution
- Production staging areas
- Deep lane LIFO or FIFO systems





Exclusive to Frazier's Pallet Mole

- The Pallet Mole operates at the **optimum high performance travel speed** to ensure rapid response and greater productivity—including lift, pallet indexing, and lowering functionality; all with superior accuracy.
- With **AC driven technology** and streamlined mechanics, the Pallet Mole reduces maintenance costs and downtime.
- The Pallet Mole has a **Patented Pallet Count System** – The Pallet Mole counts the number of pallets in a lane using the “stock count” function on the RF controller – it’s fast, accurate and easy.
- **Pallet Shuffle Function** – The Pallet Mole can be programmed to automatically move pallet loads forward toward the aisle pick location.
- **Full two-way communication** for transferring critical information through the RF controller and provides constant feedback to the operator, giving vital status information should the Pallet Mole encounter unique operating conditions.
- Both **2 wheel and 4 wheel drive options** available on all models.
- **U.L. Certified** – Only manufactured semi-automated vehicle to be so designated

Operational Features

- The Pallet Mole uses **built-in positioning control**, without the need for external control devices on the racking system.
- With its unique **electro mechanical lifting system**, the Pallet Mole has the highest lift off capability in the industry, ideal for handling inferior pallets. This provides a much more stable and balanced lift which is only available with the Pallet Mole.
- **The dual spacing system** uses photo optical sensors and pressure sensors to ensure accurate pallet spacing while allowing for product overhang.
- **Battery Low Function** – the Pallet Mole continuously monitors the battery level, returning it to home position for charging.



Other Features:

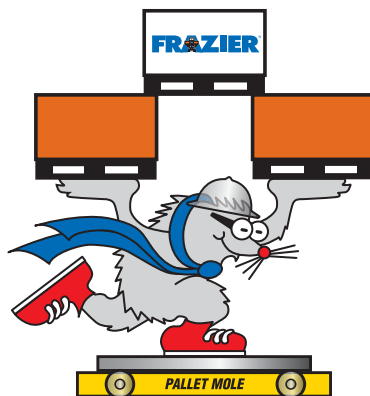
AC Regenerative Braking Control –
Ensuring reduced operating & maintenance cost together with enhanced battery efficiency.

Electro-Mechanical Lifting & Traction System. No hydraulics, no oil leaks.

“Quick Change” Batteries, 2 minutes.

Bi-directional RF control unit with:

- Mole battery low indication
- Mole selected indication
- Mole error feedback
- Manual override function
- “Pallet Count” Function



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Common Model Sizes

48 x 40 (Standard)

Maximum Lift Height	up to 2 inches
Chassis, Height	8 inches
Lift Surface Width	34 inches
Lift Surface Length	48 inches

40 x 48 (Euro)

Maximum Lift Height	up to 2 inches
Chassis, Height	8.625 inches
Lift Surface Width	38 inches
Lift Surface Length	41 inches

Batteries	Standard Application	Freezer Application
Battery Type	AGM	AGM
Battery Quantity	2	2
Battery Capacity	70A/Hr	70A/Hr
Operating Time	6.5 - 8Hr	4 - 6.5Hr
Charging Time	Min 5 Hrs	Min 8 Hrs

*Special sizes on request

Remote Control

Type	900 Mhz FCC 47CFR radio
Charger Power	110 V Input AC
RF Controller Battery Pack	4.8 V

Battery Charger

Charger Output	27 VDC
Power Supply	110 VAC

Pallet Mole Unit

Drive Motor	Curtis 1234 AC Motor
Speed Control	3 Speed AC Inverter
Supply Voltage	24V DC
Operational Voltage	24V DC converted to AC
Pallet Sizes	48"x40" (Standard)
	40"x48" (Euro)
	48"x60" (Jumbo)
Models	Model 641 Ambient
	Model 645 Freezer
Lift Motor	.75 HP
Wheels	4" Nyl-a-tron (flanged)