

**KARDEX<sup>®</sup>**

Materials Management Systems

**KARDEX**

At Kardex, we make the products you need.

# Most companies sell the products they make. At Kardex, we make the products you need.

At Kardex, we recognize that one size doesn't fit all. That's why Kardex offers a wider range of vertical lift storage systems than any other manufacturer on the planet. So you can choose a system that meets the exact needs of your application without investing in more speed or payload capacity than you actually need.

Take small parts storage, for example. There isn't a vertical lift on the market that can touch the Industriever 8000 (the original vertical lift) in either cost effectiveness or proven reliability for storing small parts weighing up to 200 pounds per pan.

Need more payload capacity? Then Kardex offers you the Industriever 12000, 16000 or the new Industriever Titan with payload capacities ranging from 300 to 600 pounds per pan.

Is maximum throughput an issue? Consider the faster vertical speed of the 8000 Turbo, 12000 Turbo or Titan.

Low ceiling heights? A Kardex vertical carousel may be a better choice--choose from the Industriever 3500, 6000 or 6250.

Storing large, heavy material? Kardex movable rack gives you 60,000 pounds of payload per double-bay section with more than double the storage capacity of fixed rack.

Need to improve inventory control? Then interface any or all of the above systems with Kardex Y2K Material Control Software.

Whatever your storage application requires, Kardex offers a solution to fit your exact needs. So why make do with everybody else's one-size-fits-all brand of selling? Contact your authorized Kardex dealer today.

# KARDEX

Because one size doesn't fit all.



## Industrier 8000 Vertical Lift

### Selection Criteria

- Most economical choice for small parts storage (comparable to tool cabinets)
- Offers maximum cube utilization for many media heights
- Provides moderate to high throughput
- Six standard pan sizes (24" wide x 18" or 24" deep; 36" wide x 18", 24", 26" or 30" deep)
- Two-module minimum recommended (starter and add-on module)
- Sold in one-foot increments from 12' 9.5" to 30' 9.5"
- Allows easy visibility and accessibility of all stored product without removing tote from storage pan
- Easily interfaces with any type of take-away device including robotics, AGV, conveyers, hoists, etc.
- Each module accommodates up to four access windows working independently of each other
- More than 15 years of proven reliability
- Optional Material Control Software

### Specifications

Maximum Pan Payload	200 lbs/90.7 kg
Maximum Module Payload	9,000 lbs/4,082 kg
Maximum Module Height	30 ft 9.5 in/9.385 m
Minimum Module Height	12 ft 9.5 in/3.898 m
Maximum Pans Per Module	119
Maximum Pan Size	36 x 30 in/914 x 762 mm
Minimum Pan Size	24 x 18 in/610 x 457 mm
Maximum Pan Spacing	31.875 in/810 mm
Minimum Pan Spacing	4.6875 in/119 mm
Maximum Imbalance Load	N/A
Vertical Travel Speed	65 ft per min/20 m per min
Power Requirement	110 Vac, 1-Phase, 20 amp
Motor Size/Type	1.5 HP/DC
Extractor Chain Safety Factor	21:1
System Expandability	Unlimited



## Industrier 8000T (Turbo) Vertical Lift

### Selection Criteria

- Faster vertical speed delivers higher throughput than 8000
- Increased module payload over 8000 (same payload per pan)
- Two standard pan sizes (36" wide x 24" or 30" deep)
- May be purchased as single, stand-alone module
- Sold in one-foot increments from 10 ft to 31 ft
- Allows easy visibility and accessibility of all stored product without removing tote from storage pan
- Easily interfaces with any type of take-away device including robotics, AGV, conveyers, hoists, etc.
- Each module accommodates up to four access windows working independently of each other
- Optional Material Control Software

### Specifications

Maximum Pan Payload	200 lbs/90.7 kg
Maximum Module Payload	16,000 lbs/7,257 kg
Maximum Module Height	31 ft /9.45 m
Minimum Module Height	10 ft /3.05 m
Maximum Pans Per Module	119
Maximum Pan Size	36 x 30 in/914 x 762 mm
Minimum Pan Size	36 x 24 in/914 x 610 mm
Maximum Pan Spacing	31.875 in/810 mm
Minimum Pan Spacing	4.6875 in/119 mm
Maximum Imbalance Load	N/A
Vertical Travel Speed	132 ft per min/41 m per min
Power Requirement	220 VAC, 1-Phase, 20 amp
Motor Size/Type	2.25 HP/DC
Extractor Chain Safety Factor	21:1
System Expandability	Unlimited



## Industriever 12000 Vertical Lift

### Selection Criteria

- Comparable to 8000 in travel speed (65 ft per min) and throughput capability
- Increased pan and module payload over 8000 (200 lbs/ 9,000 lbs) and 8000T (200 lbs/16,000 lbs)
- Two standard pan sizes (36" wide x 26" or 30" deep)
- Two-module minimum recommended (starter and add-on module)
- Sold in one-foot increments from 10 ft to 31 ft
- Allows easy visibility and accessibility of all stored product without removing tote from storage pan
- Easily interfaces with any type of take-away device including robotics, AGV, conveyers, hoists, etc.
- Each module accommodates up to four access windows working independently of each other
- Optional Material Control Software

### Specifications

Maximum Pan Payload	300 lbs/136 kg
Maximum Module Payload	24,000 lbs/10,886 kg
Maximum Module Height	31 ft /9.45 m
Minimum Module Height	10 ft /3.05 m
Maximum Pans Per Module	119
Maximum Pan Size	36 x 30 in/914 x 762 mm
Minimum Pan Size	36 x 26 in/914 x 660 mm
Maximum Pan Spacing	31.875 in/810 mm
Minimum Pan Spacing	4.6875 in/119 mm
Maximum Imbalance Load	N/A
Vertical Travel Speed	65 ft per min/20 m per min
Power Requirement	220 VAC, 1-Phase, 20 amp
Motor Size/Type	1.5 HP/DC
Extractor Chain Safety Factor	15:1
System Expandability	Unlimited

## Industriever 12000T (Turbo) Vertical Lift

### Selection Criteria

- Faster vertical speed delivers higher throughput than 12000 (comparable to 8000T)
- Same pan and module payload as 12000
- Six standard pan sizes (36" wide x 26", 30" or 32" deep; 48" wide x 26", 30" or 32" deep)
- Sold in one-foot increments from 10 ft to 31 ft
- May be purchased as single, stand-alone module
- Allows easy visibility and accessibility of all stored product without removing tote from storage pan
- Easily interfaces with any type of take-away device including robotics, AGV, conveyers, hoists, etc.
- Each module accommodates up to four access windows working independently of each other
- Optional Material Control Software

### Specifications

Maximum Pan Payload	300 lbs/136 kg
Maximum Module Payload	24,000 lbs/10,886 kg
Maximum Module Height	31 ft /9.45 m
Minimum Module Height	10 ft /3.05 m
Maximum Pans Per Module	119
Maximum Pan Size	48 x 32 in/1,219 x 826 mm
Minimum Pan Size	36 x 26 in/914 x 660 mm
Maximum Pan Spacing	31.875 in/810 mm
Minimum Pan Spacing	4.6875 in/119 mm
Maximum Imbalance Load	N/A
Vertical Travel Speed	132 ft per min/41 m per min
Power Requirement	220 VAC, 1-Phase, 20 amp
Motor Size/Type	2.25 HP/DC
Extractor Chain Safety Factor	15:1
System Expandability	Unlimited



## Industriever 16000 Vertical Lift

### Selection Criteria

- Comparable to 8000 and 12000 in travel speed (65 ft per min) and throughput capability
- Substantially heavier payload per pan and slightly higher payload per module than 12000 & 12000T
- Six standard pan sizes (36" wide x 26", 30" or 32" deep; 48" wide x 26", 30" or 32" deep)
- May be purchased as single, stand-alone module
- Allows easy visibility and accessibility of all stored product without removing tote from storage pan
- Easily interfaces with any type of take-away device including robotics, AGV, conveyers, hoists, etc.
- Each module accommodates up to four access windows working independently of each other
- Optional Material Control Software

### Specifications

Maximum Pan Payload	500 lbs/227 kg
Maximum Module Payload	25,000 lbs/11,040 kg
Maximum Module Height	31 ft /9.45 m
Minimum Module Height	10 ft /3.05 m
Maximum Pans Per Module	113
Maximum Pan Size	48 x 32 in/1,219 x 826 mm
Minimum Pan Size	36 x 26 in/914 x 660 mm
Maximum Pan Spacing	31.875 in/810 mm
Minimum Pan Spacing	5.625 in/143 mm
Maximum Imbalance Load	N/A
Vertical Travel Speed	65 ft per min/20 m per min
Power Requirement	220 VAC, 1-Phase, 20 amp
Motor Size/Type	2.25 HP/DC
Extractor Chain Safety Factor	11:1
System Expandability	Unlimited



## Industriever Titan Vertical Lift

### Selection Criteria

- 1/8" clearance between media and adjacent pan delivers highest cube storage capacity of any vertical storage system on the market today
- 150 ft per minute travel speed delivers highest throughput of any Kardex vertical storage system
- Larger standard tray sizes than other Kardex vertical lifts (36" x 32", 48" x 32", 75" x 32" and 100" x 32")
- Taller standard units than other Kardex vertical lifts (up to 41' compared to 31')
- PLC Control System with self diagnostics and optional interface connector
- May be purchased as single, stand-alone module
- Allows easy visibility and accessibility of all stored product without removing tote from storage pan
- Easily interfaces with any type of take-away device including robotics, AGV, hoists, etc.
- Each module accommodates up to four access windows working independently of each other
- Optional Material Control Software

### Specifications

Maximum Pan Payload	1200 lbs/544 kg
Maximum Module Payload	60,000 lbs/27,216 kg
Maximum Module Height	41 ft /12.4 m
Minimum Module Height	10 ft /3.05 m
Maximum Pans Per Module	293
Maximum & Minimum Pan Size	100 x 32 in/2,540 x 813 mm 36 x 32 in/914 x 813 mm
Maximum Pan Spacing	30 in/762 mm
Minimum Pan Spacing	3 in/76.2 mm
Maximum Imbalance Load	N/A
Vertical Travel Speed	Up to 150 ft per min/45 m per min
Power Requirement	460 VAC, 3-Phase, 20 amp
Motor Size/Type	5 HP/AC
Extractor Chain Safety Factor	30:1
System Expandability	Unlimited
Control System	P.L.C.



## Industriever 3500 Vertical Carousel

### Selection Criteria

- Excellent payback for shorter ceiling heights
- Maximizes cube utilization for common media heights
- Allows visual load scanning of carrier contents
- Easily accommodates pick-face or bin-front picking
- Accommodates 18" deep product
- Available with up to four access windows per unit
- Carrier styles: single-tier, double-tier, triple-tier, single-tier dividerless with optional drop-in tier inserts
- Decades of proven reliability
- Optional Material Control Software

### Specifications

Maximum Carrier Payload	350 lbs/159 kg
Maximum Module Payload	10,500 lbs/4,762 kg
Maximum Module Height	19 ft 10 in/6.02 m
Minimum Module Height	9 ft 10 in/2.9 m
Maximum Number of Carriers	34
Carrier Width	100 in/2.54 m
Overall Unit Width	122 in/3 m
Overall Unit Depth w/ counter	66 in/1.7 m
Available Pitches	12, 13.5 & 15 in/30.5, 34.3 & 38.1 cm
Maximum Imbalance Load	2800 lbs/1,270 kg
Vertical Travel Speed	28.75 ft per min/8.76 m per min
Power Requirement	220 VAC, 1-Phase, 40 amps
Motor Size/Type	3 HP VAC
Drive Chain Safety Factor	6:1
System Expandability	N/A

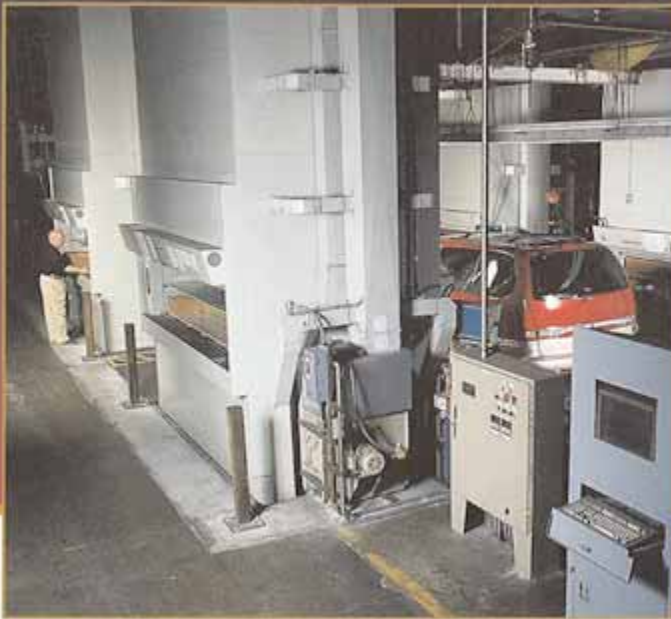
## Industriever 6000 Vertical Carousel

### Selection Criteria

- Excellent payback for shorter ceiling heights
- Accommodates 18" deep product
- Heavier payload than 3500 (600 lbs per carrier compared to 350 lbs)
- Allows visual load scanning of carrier contents
- Easily accommodates pick-face or bin-front picking
- Maximizes cube utilization for common media heights
- Available with up to four access windows per unit
- Carrier styles: single-tier, double-tier, triple-tier, single-tier dividerless with optional drop-in tier inserts
- Decades of proven reliability
- Optional Material Control Software

### Specifications

Maximum Carrier Payload	600 lbs/272 kg
Maximum Module Payload	16,500 lbs/7,484 kg
Maximum Module Height	19 ft 10 in/6.02 m
Minimum Module Height	9 ft 10 in/2.9 m
Maximum Carriers per Unit	34
Carrier Width	100 in/2.54 m
Overall Unit Width	122 in/3 m
Overall Unit Depth w/ counter	66 in/1.7 m
Available Pitches	12, 13.5 & 15 in/30.5, 34.3 & 38.1 cm
Maximum Imbalance Load	2800 lbs/1,270 kg
Vertical Travel Speed	28.75 ft per min/8.76 m per min
Power Requirement	220 VAC, 1-Phase, 40 amps
Motor Size/Type	3 HP VAC
Drive Chain Safety Factor	6:1
System Expandability	N/A



## Industriever 6250 Vertical Carousel

### Selection Criteria

- Excellent payback for shorter ceiling heights
- Accommodates 25" deep product
- Same payload as 6000 (600 lbs per carrier, 16,500 lbs per module)
- Taller pitch than 3500 or 6000 (16.5")
- Allows visual load scanning of carrier contents
- Easily accommodates pick-face or bin-front picking
- Maximizes cube utilization for common media heights
- Available with up to four access windows per unit
- Carrier styles: single tier, double tier, triple tier, single-tier dividerless with optional drop-in tier inserts
- Decades of proven reliability
- Optional Material Control Software

### Specifications

Maximum Carrier Payload	600 lbs/272 kg
Maximum Module Payload	16,500 lbs/7,484 kg
Maximum Module Height	24 ft/7.32 m
Minimum Module Height	10 ft/3.05 m
Maximum Carriers per Unit	42
Carrier Width	100 in/2.54 m
Overall Unit Width	122 in/3 m
Overall Unit Depth w/ counter	84 in/2.14 m
Available Pitches	12, 13.5, 15 & 16.5 in/30.5, 34.3, 38.1 & 41.9 cm
Maximum Imbalance Load	2800 lbs/1,270 kg
Vertical Travel Speed	28.75 ft per min/8.76 m per min
Power Requirement	220 VAC, 1-Phase, 40 amps
Motor Size/Type	3 HP VAC
Drive Chain Safety Factor	6:1
System Expandability	N/A



## Movable Rack

### Selection Criteria

- For storage of pallets and large bulk items
- Movable aisle shelving with fork truck access
- Creates access aisles only when and where necessary
- Allows operation from end-panel controls or optional remote control
- Provides more than double the storage capacity of fixed rack
- Accepts any type of new or existing standard rack
- Optional Material Control Software

### Specifications

60,000 lbs. per double-faced movable section  
 One motor per 180,000 lbs.  
 All weight distributed over wheels  
 Wheels are 10" in diameter  
 220 VAC, 60 Hz power source to each module

### Standard Features

Open and reset controls  
 Safety Bypass and Bypass Keylock  
 Floor level safety bar  
 Warning Lights and Horn  
 Emergency Stop

### Optional Features

Remote Control  
 Computer Interface  
 Mechanical Override

# KWARDEX

# Convert your expensive materials handling operation into a cost-cutting materials management system with Material Control Software from Kardex.

## MCS<sup>2</sup> for Windows

The most advanced, feature-packed inventory management system on the market.

Automatically maintains up-to-date inventory records... Simplifies kitting and working order processing for faster turn-around... Automatically assigns parts to the most space- and time-efficient locations... Allows easy implementation of JIT inventory levels and FIFO stocking procedures... Creates a complete audit trail of part and operator activity... Allows Downloading and Uploading capabilities of ASCII format files to a Mainframe or host IMS System.

## Q-Manager for Windows

Links your existing IMS system to Kardex automated storage/retrieval systems.

Imports picking and stocking orders directly from your main-frame Inventory Management System... Interfaces and drives all types of Kardex automated systems up to 99 units... Activates Kardex Retrieval systems to deliver requested material in location sequence for fastest possible retrieval.

## K-Trieve Plus for Windows

Basic parts tracking program designed to improve accuracy and inventory flow.

Reduces search and retrieval time by tracking the location of all material stored in Kardex automated storage and retrieval systems up to 99 units... Automatically updates inventory records after each picking or stocking operation... Activates Kardex Retrieval systems to deliver requested material in location sequence for fastest possible retrieval... Improves accuracy with automated bar code data processing.

## Customer-Designed Software

Special license to use driver codes for Kardex automated storage/retrieval systems.

Allows Kardex users to design custom software for specialized applications... Driver codes available for Industrier Vertical Lift, Industrier Vertical Carousel, Titans, and Kardex Movable Rack systems.

Your Authorized Kardex Dealer

# KARDEX<sup>®</sup>

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