

# Space Savings Guide

Automated Storage & Retrieval Systems  
Small Parts, Tool & Die Handling Solutions

**kardex**remstar

## Eliminate Moving & Expansion Costs While Increasing Productivity & Improving Ergonomics!

### Increase Customer Service

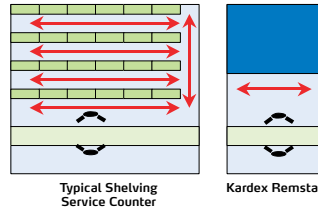
#### New Facilities:

- Reduce construction costs, taxes, utilities and security cost by building only the space required.

#### Existing Facilities:

- Eliminate expansion and moving costs by recovering previously occupied floor space. Use the recovered floor space to store more parts or increase value added activities.

Operator is visible and able to serve customers.  
Eliminates walk and search time.



## Recover Wasted Rack & Shelving Space Using Vertical Solutions

Ceiling Height	Eliminated Shelving Sections	Space Savings (sq. ft.)	Space Savings (percentage)
15'	31 - 35	317 - 328	76%
20'	45 - 49	461 - 472	82%
25'	59 - 65	569 - 616	85%
30'	73 - 80	713 - 724	88%
35'	87 - 94	821 - 868	89%
40'	to 100	to 929	91%

## Recover Wasted Drawer System Space Using Vertical Solutions

Ceiling Height	Eliminated Drawer Cabinets	Space Savings (sq. ft.)	Space Savings (percentage)
15'	19	90	53%
20'	28	158	66%
25'	36	226	74%
30'	46	311	80%
35'	55	396	83%
40'	65	481	86%

- Create more workstations
- Items are brought to the operator at an ergonomic height
- Accommodate more parts or WIP
- Increase capacities
- Eliminate expansion or moving costs
- Reduce new construction costs

### Shuttle® Vertical Lift Module (VLM)



The Shuttle Vertical Lift Module is a flexible system of vertically arranged trays, an extraction platform and computerized controls for the storage, retrieval and delivery of product to an operator. Available in a myriad of sizes and weight capacities to store everything from fasteners to pallets.

### Megamat® Vertical Carousel



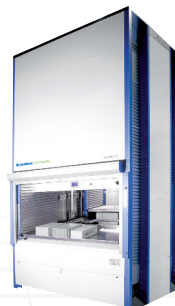
Kardex Remstar vertical carousels offers tremendous space savings and increased productivity. Carriers and shelves rotate on a track delivering items to the operator at an ergonomically designed work counter.

### Horizontal Carousel



Kardex Remstar's horizontal carousels are a system of carriers that rotate on an oval track, delivering stored items to an operator on command. Horizontal carousels save on floor space while increasing throughput and productivity.

### Element Vertical Lift Module (VLM)

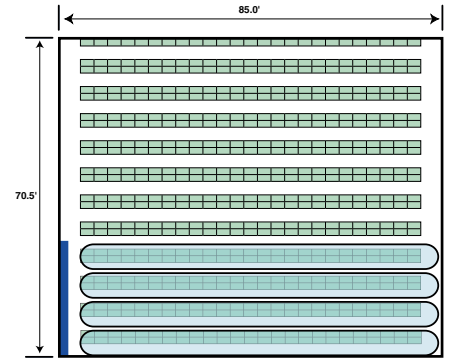


Save Up To 80% Floor Space  
Get more storage capacity in a smaller footprint with the Element Vertical Lift Module. When compared to shelving, the Element Vertical Lift Module provides the same storage capacity in up to 80% less floor space, allowing facilities to expand internally without building construction or relocation.

## Recover Wasted Space Using Horizontal Carousels

Shelving Sections (quantity)	Shelving Space Used (ft²)	Carousel Space Used (ft²)	Number of Carousels	Carousels Length Bins	Bin Width (inches)	Bin Depth (inches)	Bin Height (feet)	Clear Height (feet)	Space Savings (ft²)	Space Saving (%)
42	468	187	1	20	24.5	18	8	9.5	281	60.0%
120	1,170	559	2	33	24.5	18	7	8.5	611	52.2%
240	2,805	966	3	39	24.5	18	8	9.5	1,839	65.6%
240	2,805	796	3	31	24.5	18	10	11.5	2,009	71.6%
340	3,876	1,409	4	36	24.5	24	7	8.5	2,467	63.7%
575	5,993	2,169	4	70	24.5	18	8	9.5	3,824	63.8%

(all shelving based on 3' x 1.5' x 7' sections, industry standard 30% utilization)



575 sections of shelving has the same storage capacity as four 79.1' long horizontals carousels.

## Kardex Remstar Special Programs!

## Quick Ship Program

Have a Shuttle VLM installed and running in your facility in less than two weeks! No need to wait 10 to 16 weeks for delivery, Kardex Remstar realizes you need to be responsive to your customers needs and is ready to act. Call for details.\*

## Leasing Programs

All of Kardex Remstar's products and services can be rolled into a fast and convenient leasing package. Let a Kardex Remstar representative explain your options to help you meet your financial needs today.



## Free Equipment For Trial Program

Want a FREE Shuttle VLM for 90 days? Qualified organizations can use this program to see how a VLM can increase productivity and save floor space first hand in your facility. Just tell a Kardex Remstar representative you want a FREE Shuttle VLM for 90 days, and they will get the ball rolling.\*

\* Restrictions and rules apply, contact Kardex Remstar for details.

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