



# Smarter Lab Storage for Pathology Slides and other sensitive materials



# Introduction

Today's laboratories face increasing pressure to manage more inventory under tighter regulations, and with growing space constraints – especially in pathology and clinical environments. This guide introduces how the Kardex Vertical Carousel Module (VCM) Kardex Megamat helps labs overcome these challenges through secure, space-saving, and fully trackable automated laboratory storage.

Designed for labs handling high volumes of sensitive materials, the Kardex Megamat brings efficiency and organization to pathology slide and tissue block storage – while also supporting a wide range of lab inventory. Automated delivery, real-time inventory tracking, and secure access controls help labs stay audit-ready and patient-safe.



Long-term pathology slide and specimen retention



High-density storage in compact footprints



Secure handling and chain-of-custody tracking



Full visibility and access control across lab inventory

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**Built for the demands of modern labs, VCMs help you protect sensitive materials, speed up retrieval, and stay audit-ready. With scalable configurations and integrated software, it's a smart investment for labs looking to modernize their storage – from pathology slides to everyday supplies.**

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# Revolutionize your lab storage

From long-term pathology slide archiving to daily tissue block retrieval, this automated, ergonomic solution transforms how labs manage and access critical materials – all while saving space and improving compliance.

## Smart, Secure Storage in Seconds

VCMs bring structure and speed to labs that rely on precision. With the push of a button, pathology slides and tissue blocks are delivered directly to the operator, eliminating search time and manual handling.

Each unit can be configured to store slides, blocks, or a mix of lab materials. By consolidating storage vertically, labs can reclaim up to 75% of floor space compared to traditional lab cabinets, helping free up room for additional equipment or future expansion. VCMs offer:

- **Inventory Visibility & Control:** Integrated software provides real-time access to specimen data and location. Optional light-directed picking ensures operators retrieve the correct item every time.
- **Secure, Compliant Access:** With lockable doors and full audit trails, labs maintain chain-of-custody and meet HIPAA, CAP, and GxP standards.
- **Ergonomic Access Points:** Trays are delivered at an ideal working height, with optional adjustable workstations that support sitting, standing, or in-between.

### Take Control of Your Lab Storage

Reduce retrieval time, protect specimen integrity, and improve lab workflows – all in one secure system. With Kardex, you're investing in a storage solution designed for long-term pathology management and built to grow with your lab.



## Capacity that scales with you

Linear filing inches for pathology slides

Room Height	Carriers	Shelf Levels	Total LFI per Unit	Total Slides per Unit*
7' 3"	13	26	12,584	201,344
7' 6"	14	28	13,552	216,832
8'	15	30	14,520	232,320
8' 3"	16	32	15,488	247,808
8' 10"	17	34	16,456	269,296
9' 3"	18	36	17,424	278,748
9' 7"	19	38	18,392	294,272
10'	20	40	19,360	309,760
10' 5"	21	42	20,328	325,248
10' 9"	22	44	21,296	340,736

\* Assumes 16 slides per inch stored in trays. Overall unit width: 71.26", Overall unit depth: 36.4"

## Engineered for lab efficiency

In high-volume lab environments, efficiency isn't just about speed – it's about removing friction from every step of the workflow.

Traditional lab cabinets force technicians to walk, search, lift, and manually sort through materials, wasting time and increasing the chance of error.

VCMs can transform these processes by centralizing storage and delivering the correct tray directly to the user in just a few seconds. This removes the need to search through multiple drawers or storage rooms and significantly reduces retrieval time.

Beyond access, VCMs introduce order and structure to fast-paced lab environments. Every item has a defined, trackable location – no more misfiled slides or misplaced tissue blocks.

Plus, the Kardex Megamat adapts to changing needs. As workflows shift or material types evolve, the system can be reconfigured without major disruptions – keeping labs agile and productive, day in and day out.

# Secure storage for more than just slides

**The VCM's modular design and secure, enclosed storage make it ideal for storing a wide range of temperature-sensitive, high-value, or fragile materials – all within the same compact footprint.**

## One system, endless applications

Modern labs require more than just storage – they need flexible systems that support compliance, security, and adaptability. With VCMs, labs can store diverse inventory in one centralized, organized system – reducing clutter and improving oversight.

Materials commonly stored in VCMs include:

- Paraffin blocks and cassettes
- Microscope slides
- Microtitre plates
- Record cards
- Blood bags
- Vials and bottles
- Pharmaceuticals
- Water bath racks
- Petri dishes
- General Supplies
- And more

The Kardex Megamat's customizable carriers and shelf spacing allow labs to configure units based on inventory size, weight, and access frequency.

Whether you're optimizing slide storage or centralizing lab supplies, the VCM adapts to your lab's needs – today and in the future.







## Your trusted partner in lab innovation

Kardex is more than just a storage solution provider – we're a trusted partner for labs and healthcare facilities across America. With decades of experience and over 140,000 systems installed worldwide, we understand the unique demands of medical environments, from HIPAA compliance to long-term archiving.

Our vertical carousel systems, inventory management software, and ergonomic designs have helped pathology departments reduce errors, reclaim space, and boost productivity.

Whether you're upgrading outdated storage or designing a new lab from the ground up, our team of experts is here to guide you through every step – from assessment to installation and ongoing support.

Let us help you create a safer, smarter, and more efficient lab.

**Ready to take the next step? Let's talk about transforming your lab today.**