



Competent specialists answer all your questions.



Sound advance planning ensures the optimum solution for your company.



The precise treatment in the production ensures high quality.



Professional installers from Megamat make sure that everything runs smoothly



New headquarter from 2002 for production and administration.

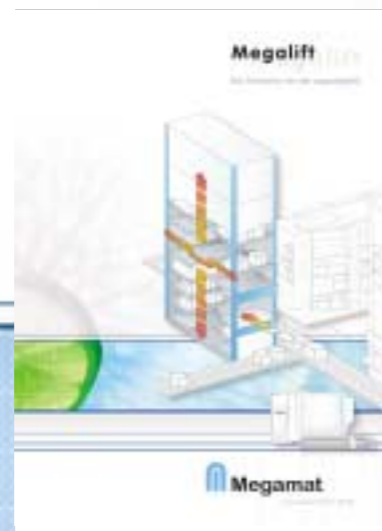
Megamat: Solutions from a single source

Megamat will advise you and provide support to help determine the best solution to your logistics problems.

Our systems and services are:

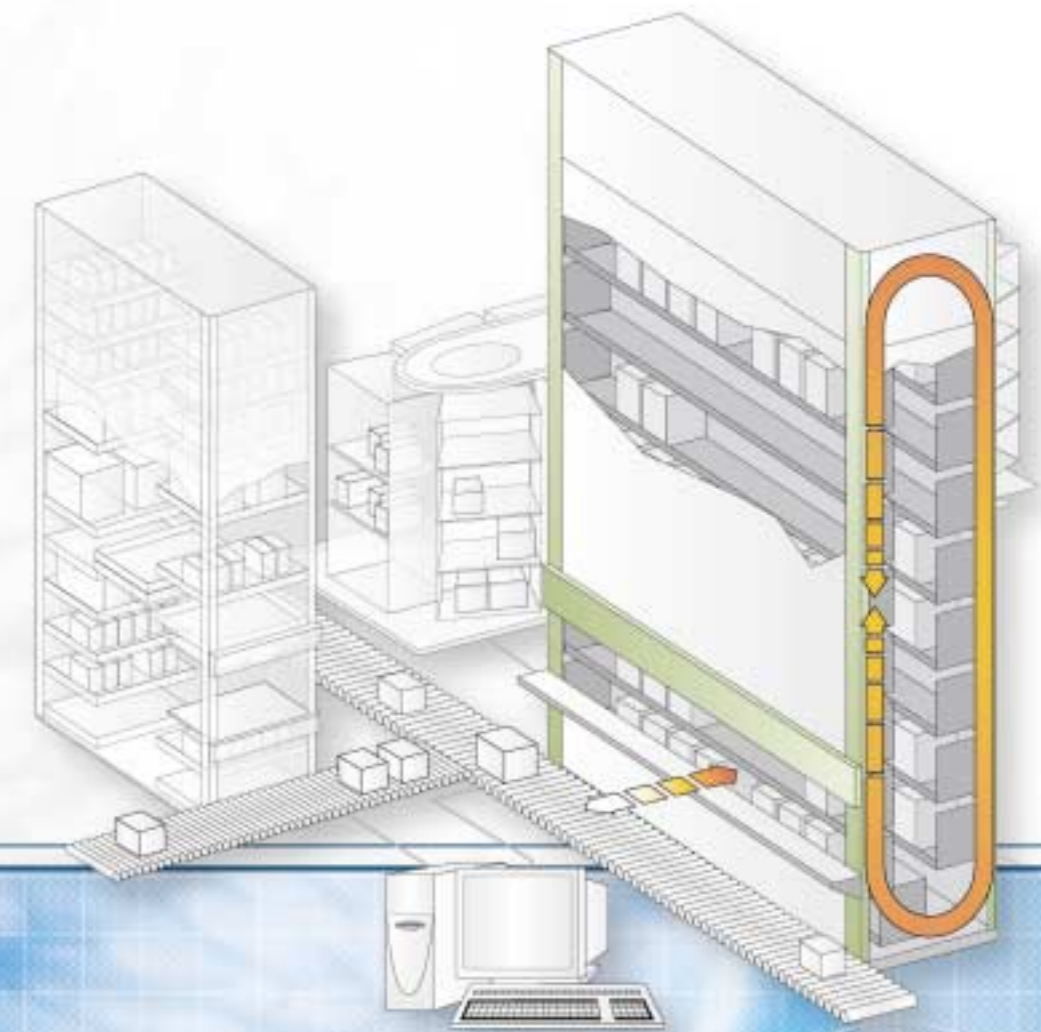
- Megamat: vertical storage carousel for numerous applications
- Megalift: storage lift system
- Megaload: 3-axis lift system
- Megacell: horizontal carousel for fast, efficient commissioning
- Megalogistik: stock management software packages
- Sequence controllers: selection, organization, and integration precisely to your needs.
- Service: in your area, around the clock

Request our detailed information!



Megamat

Logistics with power: vertical storage carousel



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...we move for You

Why use Vitamin in your company?

Industrial IT

World of Automation

Material Handling

Warehouse Management

Quality Process

Production Engineering

System Integration

Take your pick!



Barcode reader for safe commissioning

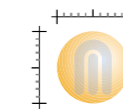


Position lightbar and depth position indicator show access points



Imbalance indicator protects operator, stored goods, and machine

Megamat:
Best performance
for your company



Good and short
Standard unit height: up to 12,0 m
Overall dimensions: width from 2560 up to 4501 mm
depth from 930 up to 1774 mm
Useful carrier widths: 2200 up to 3850 mm
Useful carrier depths: 308 up to 624 mm



Max. weight of stored goods per unit: up to 23 tons
Loading weight per carrier unit
Machine class 300: up to 150 kg
Machine class 1000: up to 180 kg
Machine class 1100: up to 220 kg
Machine class 1500: up to 350 kg
Machine class 2000: up to 650 kg



Carrier pitches: 203 up to 508 mm



Freely selectable, ergonomic height for goods access
Customized adaptation of the carriers and their partitioning
Comprehensive partitioning elements and transparent bins available
Access table can be supplied with different surface materials (e.g. stainless steel, with ESD protection, etc.)
Lockable sliding doors for the access port
Operation with selection controller MM240 or MM260 (with interface)
Stock management by means of MM550 controller
Stock management with Megalogistik software package
Route-optimized transport (shortest route to access port)
Photoelectric barriers protect operator and goods
Up to 4 storage/retrieval access ports
Outer panels with numerous colour variations
Outdoor mounting possible

Special solutions and equipment on request.

The standard scope of delivery does not include all the options and versions mentioned in the brochure.

Subject to technical changes without notice.



The Quality Management System of the manufacturer of Megamat Vertical Carousels and Megalifts of the company Megamat GmbH was certified under Reg.No. MPA NRW Q069 according to DIN EN ISO 9001

Programmed performance

Ready for new challenges: Software

New opportunities in sight? Then get stocked up quickly! Megamat puts your storage logistics and materials management into top shape! Our logistics experts help you apply the latest technology to your best advantage.

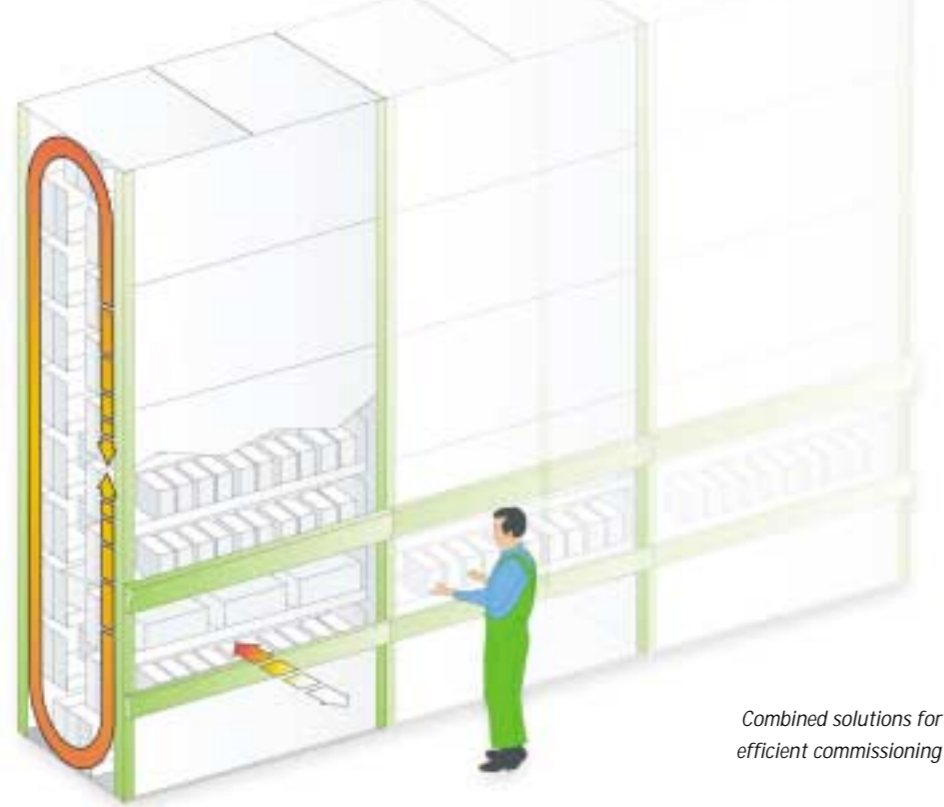
Premium-class storage logistics!

Do you want to make your handling procedures more efficient, optimize your access times, or integrate a new vertical storage carousel into your existing system? No problem: Megamat's software specialists will develop the optimum Megalogistik solution for you – from simple store management up to complex links to host equipment.

All versions of Megalogistik run under Windows, can be networked, and have a certified interface to SAP R/3. ML 650, ML 800 or ML 900: Megamat provides all-round solutions.



Function instead of confusion



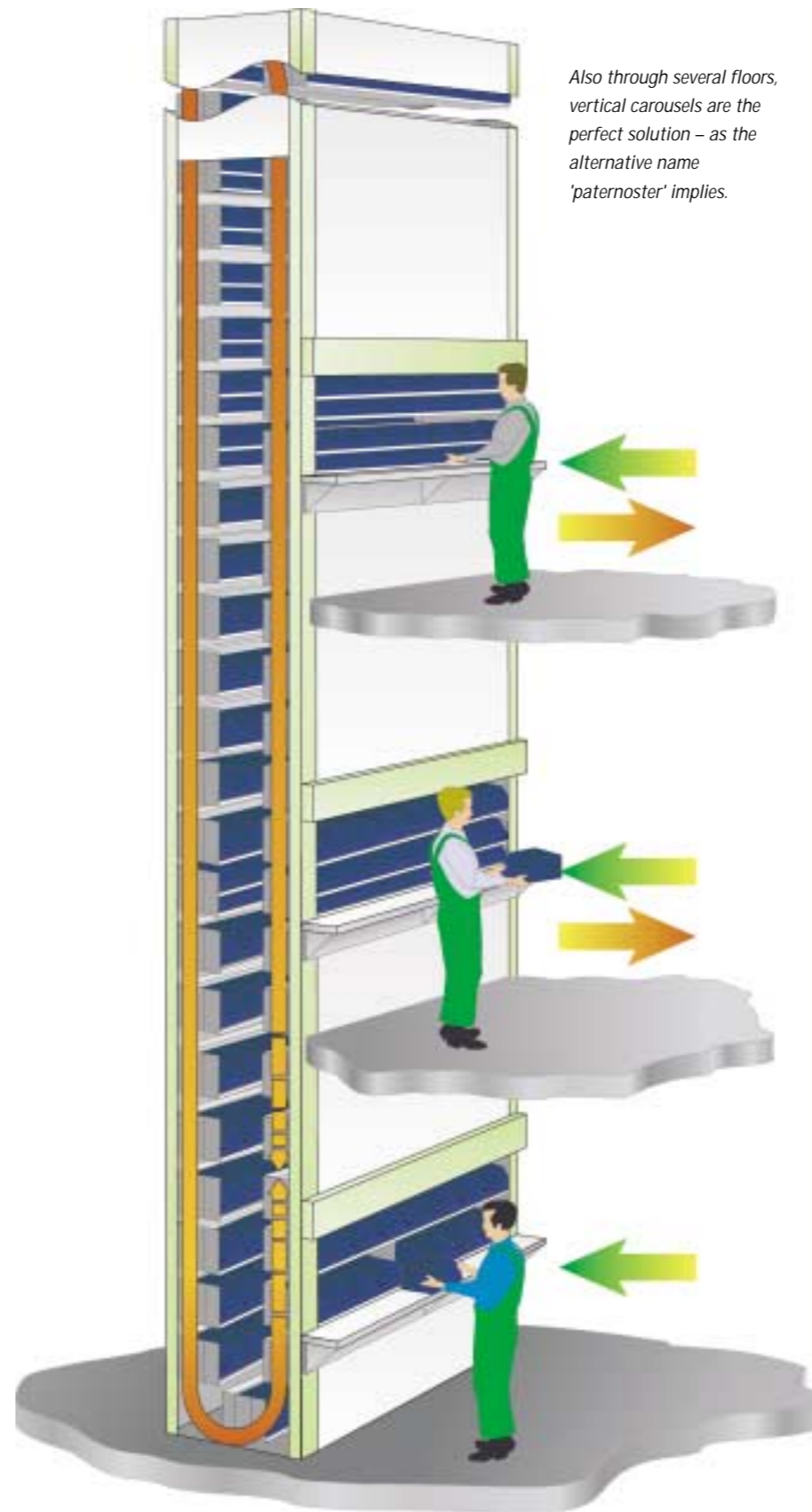
Combined solutions for efficient commissioning

Perfect partner

As a fully automatic vertical storage carousel, the Megamat demonstrates the principle of "goods to the operator" in a perfectly manner. Megamat stands for organization, transparency, speed, and optimum utilization of space. Smooth outer panels conceal rugged and powerful tray units that are attached to vertical circulating chains. Under computer control, the trays move precisely to the storage/retrieval hatches. The integrated route optimization guarantees minimum access times.

Keeping track

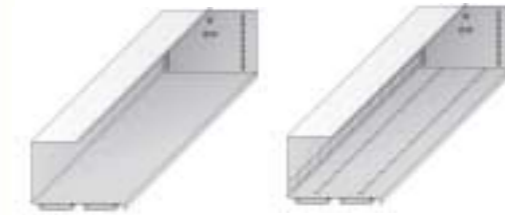
That's what transparency means: all parts move past the operators view, whilst the requested part is being fetched. Due to this clarity, the Megamat can even be operated without centralized stock management. Stocks are then managed "on sight".



Also through several floors, vertical carousels are the perfect solution – as the alternative name 'paternoster' implies.

Versatility is the answer

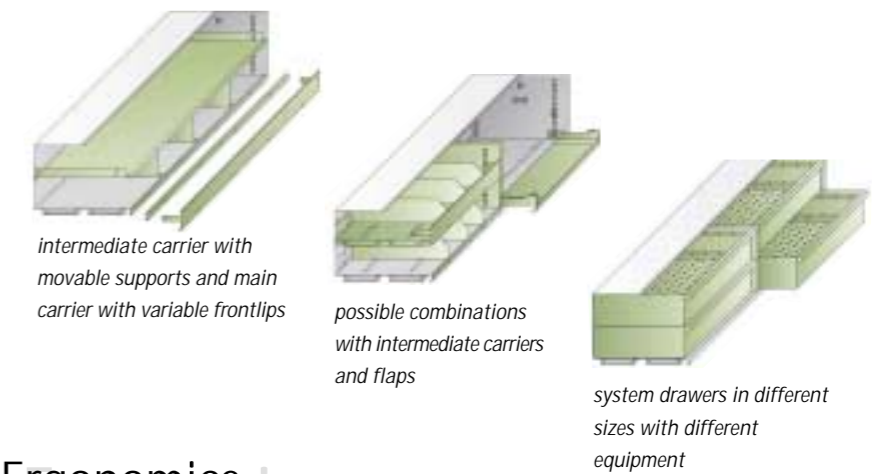
Do you store small parts, bulk goods, modules, tools or single components? No problem: flexibly adjustable multi-purpose plain or slotted carriers in various dimensions provide the solution.



Universal plain carrier

Universal slotted carrier

With both possibilities, intermediate carriers or intermediate carriers with moveable supports provide even more storage space. Variable frontlips in different versions secure the load against slipping. Individual solutions for the storage of small parts or bulk goods are possible by means of dividers, drawers, or flaps, as well as pull-out-carriers. Partitioning sets allow precise space divisions. That's freedom of design! Of course, every solution can be modified easily to adapt to your changing needs.



Ergonomics at the Workspace

Backache due to heavy lifting? Not a chance: A correct working height is essential for healthy, relaxed, and efficient work. Therefore, Megamat makes sure that every piece of equipment meets ergonomic standards.

Interested in all-round solutions?

Application areas



Solutions for special applications

The Megamat vertical storage carousel is ideally suited for high-turnover production parts as well as indirect-cost items such as tools, raw materials, and supplies. Handling large quantities of low-cost materials generally involves high logistic costs. Especially here, considerable savings are possible through optimized storage and ordering procedures. If you want to find out how, you're welcome to "grill" the Megamat experts for details!



Order and efficiency in the store area



Fast supply of spare parts



Realization of complex applications in the e-commerce business

- Maintenance
- Pharmaceutical industry
- Electronics
- Automotive industry
- Automotive
- Chemicals
- Medical technology
- eCommerce
- Machine fabrication
- Aerospace

5 Automatic chain tensioning
Keeps on turning: During operation, tensioners on both sides tension the transport chain automatically. Because the chain cannot skip, it shows practically no wear.

6 Drive
Power package: The motor is mounted on slide rails and is coupled directly to the transport chains. Due to the rail mounting and a V lever, the transport chain is automatically pre-tensioned. Furthermore, a through shaft ensures smooth power transmission on both sides.

7 Access port
Up to 4 operating stations can be integrated, either at front or rear of the machine. The accessport heights are individually adjustable for ergonomic working – in particular to suit the needs of physically disabled persons. A position lightbar shows the location of the stored goods by means of illuminated numbers and LEDs. Special lighting ensures bright, glare-free working conditions.

8 Safety equipment
Better safe than sorry: Two emergency 'Off' buttons are located above each access port as standard. In addition, safety photoelectric barriers protect the operator, the stored goods, and the machine. The controller housing provides protection type IP 54.

9 Imbalance indicator
A monitoring circuit detects one-sided loading of the carousel. Two signal lamps on the relevant side indicate any excessive imbalance.

10 Sequence control & process optimization
Route-optimized transport – the PLC always selects the shortest route to the access port – ensures fast access to the goods and reduces energy costs. Smooth, electronically-controlled acceleration and braking for gentle handling of the stored goods.

System control & stock management
Very fast, convenient access to stored goods by means of the standard position controller MM240 with digital travel measurement. All safety-relevant functions are monitored. Clearly readable LCD graphic display, simple operation via an extra large keypad. System messages are displayed in plain text. Mounted at one side at an ergonomic height or above the operating panel.

Apart from the above functions, the MM260 control system permits a direct link to our Megalogistik stock management system (or to any other system) via an RS 232 / RS 485 interface. This enables up to 31 carousels to be operated in combination.

The "system within a system" is a smart saver: apart from the position control function, the MM550 offers an integrated warehouse management system – no further investments in hardware or software are required! In this way, up to 20.000 individual articles can be managed directly at the machine.



MM550

Refreshing perspectives

How about some more?

Barcode reader, versions with ESD protection, folding down tables, various table surfaces, slide roller slides for heavy goods, fire protection systems, etc. Practically anything is possible with Megamat – let us advise you!



Drawers with partitioning elements



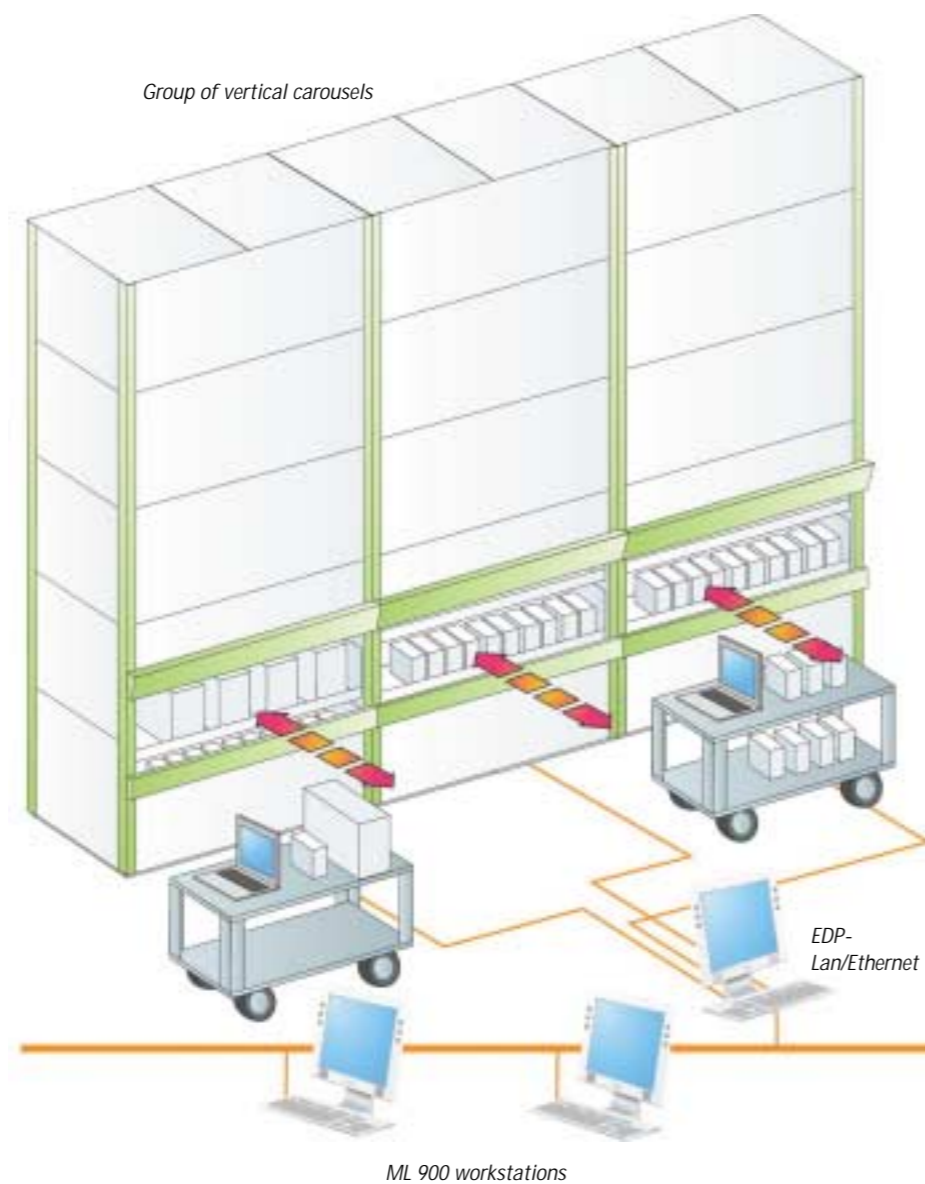
Intermediate carriers and subdividing material



Heavy-duty drawers for tools



Suspension filing drawers



Bright perspectives for logistics: Ensure all-round fitness for your company!

Even more efficiency and productivity – a real treat that you should grant yourself and your company! The logistics experts at Megamat will show you how networking of material supplies, operations scheduling, administration, information processing, and commissioning will make the most of your valuable resources.

The Megamat – our vertical storage carousel - is a classic amongst dynamic storage systems. Since 1968 it has been a reliable aid for various applications within industrial companies, large and small.

The Megamat accepts small parts, electrical components, and machine parts whilst offering maximum storage space with a minimum footprint.

The demands placed on modern storage logistics have changed dramatically – this process has been encouraged and influenced by Megamat's development engineers. Consequently, today's vertical storage carousels are widely used for extremely sensitive components such as microchips, pharmaceutical and chemical products, or foodstuffs. Wherever small or low-weight components need to be transferred to an operator quickly and gently, this state-of-the-art and flexible system is the answer.

Reap the benefits of our rewarding concepts for the future: Megamat stands for the profitable and smooth interaction of all operational processes. A powerful bonus that you should not deny your company!



...we move for You

Technology at a glance

Construction

1 Frame

Tough shell, rugged interior: the single-piece side frames are completely welded. Distance frames and supports are bolted firmly to the side frames. This even allows the units to be moved in one piece. A high-quality powder coating increases service life. The unit's main structural support comes from the robust chain guides, which transfers the entire load to the floor via the frame.

2 Chain guides

The robust, encapsulated transport chains move in guide channels at each side of the frame.

3 Multi-purpose carriers

Strong, stiff, and flexible in use. A folded metal casing with half sided lid is welded to the side panels. Two additional U profiles provide the necessary torsional and bending stiffness. A standard feature of the carriers is the universal grid of indexing holes that makes them ready for all application requirements.

4 Carrier arm assemblies

The carriers are attached to the transport/roller chain by means of a system with four variable supporting arms. The chain itself has a 7-fold dynamic protection against breaking. An additional roller lever ensures that the carriers always remain horizontal and provides extra support.



MM240-260

On your mark,
get stored, go!

Frequently, different schedules in production and warehouse operations are the cause of bottlenecks in materials supply. This is where a manufacturing-integrated storage solution comes to bear: The necessary components are stored in the immediate vicinity of the production machine, thus reducing personnel costs and non-productive times. The production staff can pick the parts by themselves. The replenishment can be done by the Kanban system.



Vertical Carousel in production- and assembly-area

As you like it?

The benefits for users in workshops, warehouses, manufacturing, and commissioning are numerous: More storage space, lower costs, and faster operations help to increase productivity for a competitive edge.



The Megamat for efficient workflow