

# SPACE MAGNUM EQUIPMENTS PVT. LTD.



*Storage ideas resulting into:*  
*Capacity<sup>2</sup> Efficiency<sup>2</sup> Safety<sup>2</sup>*



STOLIFT



STOMAT



STOPICK AS/RS



Storage ideas resulting into: *Capacity<sup>2</sup> Efficiency<sup>2</sup> Safety<sup>2</sup>*





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## Well **Organised Stores**

### **a need of the hour**

*I*n the world of TQM, TPM, 5S, 6 Sigma and cost-reduction, the nerve center of the organisation the stores, often remain a neglected area.

A recent study has shown that systematically arranged stores not only result into space and manpower saving, but also enhance efficiency, productivity and help in time and cost-reduction to a great extent.

These studies are forcing organisations world-over to have a re-look at their stores and in turn, improve upon the 'Demand Chain'.

**The efficiency of the stores depends mainly on 2 aspects:**

- **How fast the stored material can be located**
- **How fast it is retrieved**

Modern storage system such as vertical carousel, shuttle, mobile racks, ASRS etc, take into consideration both these aspects besides offer advantages such as

- Valuable floor space saving by utilising the height
- Reducing manpower requirement
- Save space and easy handling of material
- Avoiding damage and wastage of material
- Allowing more precise control over the inventory

This catalogue will provide you an insight into these modern storage systems, our approach towards

providing you with high-efficiency storage systems at our organisational capabilities.

Here, let us introduce you to our unique concept of TSM (Total Stores Management) using which we are able to provide you combinations of most appropriate system, ensuring highest storage density and faster retrieval.

**After a careful study of this brochure and in interaction with us, you will find -**

**'There really is profit in your stores!'**

***Go ahead & explore it!***

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## Our Approach

*A*t Space Magnum, we don't believe in just selling storage systems as standard products.

Rather, we look at them as a means to contribute to overall Productivity and Profitability through effective utilisation of Space, Manpower and Time.

Our wide product range enables us in selecting the most appropriate system for your purpose and hence, you don't have to compromise on anything or land in a situation where your requirement and the supplied system are mismatching.

Our system selection is also based on a through evaluation of requirements, giving a due consideration to the future ones. With this, you don't have to worry about the system becoming obsolete after a few years.

Taking into account the growing trend to adopt ERP system in a number of organisations, we have empowered our automated systems to effectively interface with a variety of networks.

Well equipped with the **right knowledge of how to manage store, an array of sophisticated products, a specialist team of technically competent engineers** possessing decades of experience in storage systems and an attitude to be a solution provider, **Space Magnum** is looked upon as a **reliable partner** by several leading companies and multinationals in India.

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## Our **Modus Operandi**

*S***ystematic study of your stores** when we are called in, we undertake a systematic study of your existing stores.

### **This involves**

- Nature of your activity
- Understanding the variety of items in the stores
- Dimensions, weight and quantity of such items
- Frequency and volume of their retrieval
- Inventory control system
- Floor space & height available in the stores
- Automation levels of the organisation

While doing this, our team of specialists interacts with the people at several levels in the organisation. This provides us an insight on their requirements, day-to-day problems and their expectations from the storage system.

This information helps us in perfect planning and layout of your stores and the system selection.

### **Planning your stores**

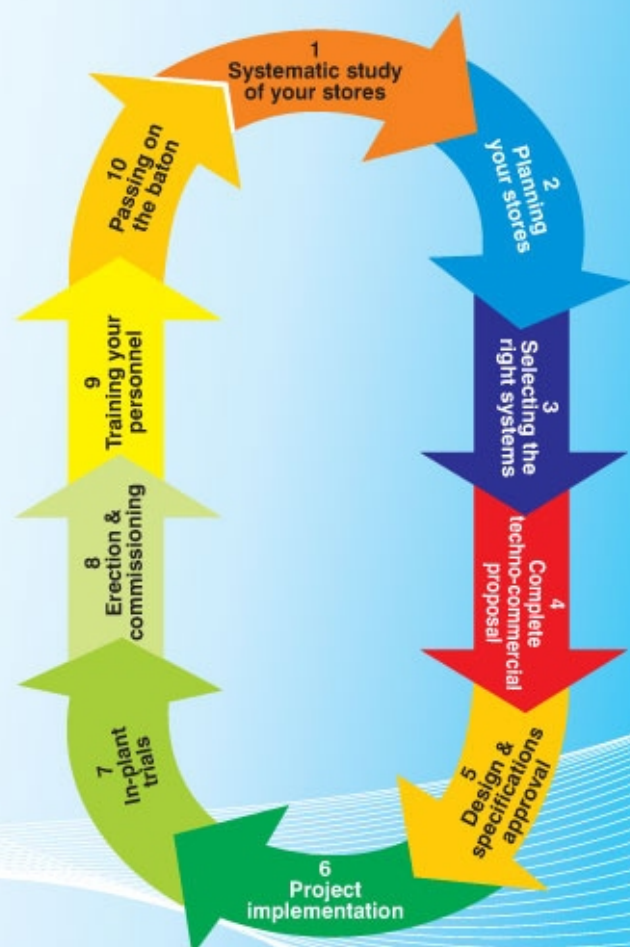
The next obvious stage is to plan your stores.

This is based on ensuring smooth and instantaneous material storage and retrieval, making optimal use of the floor space and the height. By selecting the appropriate storage systems from our range, a complete stores layout is planned. This gives you a clear idea on several aspects such as

- Floor space saving
- Saving in retrieval time
- Saving in manpower

- Storage capacity enhanced with the new system and other allied benefits

This comes in the form of a techno-commercial proposal. Obviously, you have the flexibility to implement these ideas together or in phases. But a complete picture is created right in the beginning, before you order the system.



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## Our **Modus Operandi**

### **Implementation of the project**

After the finalisation of the project, our expert team begins an in-depth analysis by interacting with the actual users of the storage system in your organisation.

This ensure that even the smallest problem is taken into consideration.

The detailed system designs are provided for the approval, specification drawn through joint consultation.

On your approval of the drawings and specifications, the system is fabricated in our well-equipped plant in Pune.

Trials are conducted in our plant in your presence before the dispatch.

This saves valuable time, normally wasted in on-site experiments.

After you are completely satisfied with the trial results, our erection team installs and commissions the system in your stores in minimum possible time.

In our opinion, user training is one of the most important aspects. Hence, our expert engineers will be with your stores people for the initial period the impart complete training on the operation, routine maintenance and troubleshooting of the system.

With this methodology, you are sure of receiving the right storage systems suiting most to your requirements & which are well designed, well manufactured, completely tested and handed over with training to your personnel.

***Then is the time for you to relax and reap the benefits.***

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## A few words **about us**

*I*n 1992, Space Magnum started as a small fabrication and assembly shop undertaking job work for conventional Mobile Racks.

While doing this, from a close interaction with several users of storage systems it was revealed that there are several manufacturers of a variety of storage systems right from slotted angle racks to automated vertical carousels. But, almost none were considering the stores in totality. In several cases, in their attempt to 'sell' whatever they produced or had, the customers were paying a hefty price for 'wrong products'.

**The situation definitely called for a wider perspective and integrated approach. The thought proved an inspiration for Space Magnum.**

With a higher thrust on product development and after having developed innovative solutions for over a decade, today Space Magnum is equipped with a wide range of storage systems for a variety of storage needs ranging from 0.5 gm washer to 5 Ton injection molding die and from 1 cm<sup>3</sup> IC chip to 1.5 m<sup>3</sup> corrugated boxes.

Over the years, the company has not only laid emphasis on the development of technologically advanced storage systems, but also mastered in several other allied areas such as system study, project management, structural engineering, electronics engineering and software development for storage systems. With its sincere approach and committed efforts, today Space Magnum has acquired a reputation among its customers of being a 'Storage System Solution Provider.'

The willingness to develop customised solution, designing and manufacturing a flawless product and honouring time commitments culminate into a wide customer base all over the country and in a variety of industries.

**For Space Magnum, this is just the beginning of revolutionising the concept of stores. Or should we call it TSM?**

***Together, we will make it happen.***

**Sasewadi, Pune  
Plant - II**



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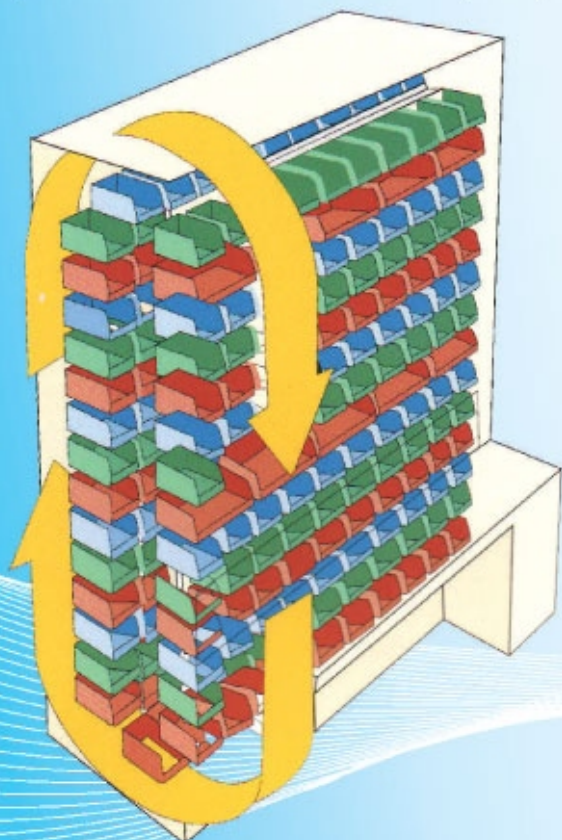
# Stomat

## Vertical Carousel Storage System

### Automated Vertical Carousel

This is an advanced storage and retrieval system wherein the required material is retrieved by just pressing a button on the key board.

Operates on Paternoster elevator principle



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### The concept

In its simplest form, a number of shelves or material storing trays are mounted on vertical chain loops and provided with a PLC controller. The desired rack can be retrieved by entering the shelf number. While retrieving, it takes the shortest possible route. The entire system is encased in a sheet metal cladding.

### Where to use ?

Ideal system for small parts storage where the number of items to be stored is very high.

### Benefits

#### Quick retrieval

Saves cost, time, energy three times than any conventional system

#### Space saving

The floor space is saved by 40% and the available height is used to its maximum

#### Manpower saving

Precious manpower is saved due to highest automation

#### Low noise

Electronically controlled and operated by geared chains, so less noise

#### Easy to operate

Material retrieval at the touch of a button. Can be operated manually in case of power failure

#### Operator safety

Maximum operator-friendly system. Electronic sensors stop the system in the possibility of malfunctioning

#### Custom-built system

Designed and manufactured taking into account various requirements of different customers





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## **Stomat** Vertical Carousel Storage System

### **Constructional features**

- Vertical carousel in which a number of carriers are closely mounted on the twin endless chain moved by a geared brake motor
- Operates on Paternoster elevator principle
- The mechanised shelves rotate in the vertical plain in either direction
- The material reaches the operation zone by the nearest path
- Torsion-free, self-supporting, powder-coated construction
- Work table at 1 meter from the ground
- Provided with PLC controllers

### **Sophisticated controller**

- Provided with an advanced, microprocessor controller with numeric display
- Desired tray, bin or component can be retrieved by its part number
- In case of power failure, present position of the carrier is memorised by PLC
- Can be interfaced with a PC or control computer system through RS 232 C serial port

### **Safety features**

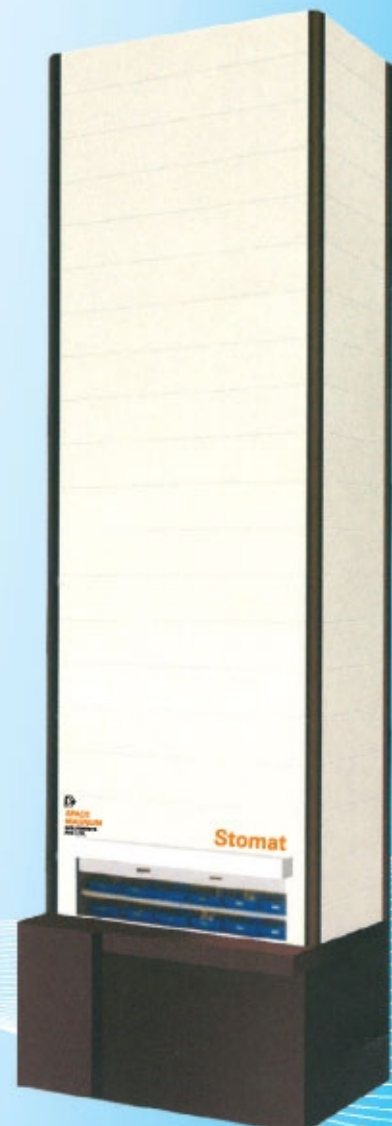
- Safety bars are provided at the top and bottom side of the operating window. In case of accidental pressing of these bars, the system will automatically stop
- The system can be operated manually in case of power failure

### **Typical applications**

#### **Ideal for storing**

- Tools
- Hardware
- Components

- Office files
- Documents
- Machined components
- Electronic parts
- CDs and cassettes
- Medicines
- Small, costly finished goods etc.



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## STOMAT (VERTICAL CAROUSEL)



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## STOMAT [VERTICAL CAROUSEL]

Model	Number of Shelves	Machine Height (mm)	Shelf Height (mm)	Loading capacity per shelf (Kg)	Total load Capacity (Kg)
<b>SM - 650</b>					
65-135-24	24	2235	135	65	1560
65-135-36	36	3150	135	65	2340
65-135-49	49	4140	135	65	3185
65-135-57	57	4750	135	65	3705
<b>SM - 1400</b>					
140-185-24	24	3028	185	140	3360
100-185-34	34	4044	185	100	3400
100-185-44	44	5060	185	100	4400
140-260-18	18	3163	260	140	2520
140-260-24	24	4002	260	140	3360
100-260-32	32	5110	260	100	3200
140-325-12	12	2850	325	140	1680
140-325-18	18	3916	325	140	2520
140-325-24	24	4971	325	140	3360
<b>SM - 2400</b>					
240-220-23	23	3950	220	240	5520
220-220-27	27	4475	220	220	5940
170-220-32	32	5140	220	170	5440
150-220-36	36	5680	220	150	5400
250-258-20	20	3940	258	250	5000
240-258-24	24	4530	258	240	5760
200-258-28	28	5150	258	200	5600
170-258-32	32	5750	258	170	5440
250-373-17	17	4550	373	250	4250
250-373-20	20	5140	373	250	5000
240-373-23	23	5800	373	240	5520

## Technical Data

PARTICULARS	SM - 650 MODEL	SM - 1400 MODEL	SM - 2400 MODEL
<b>FLOOR AREA</b>			
Length	2500 mm	2700 mm	2750 mm
Depth	900 mm	1400 mm	1800 mm
<b>WORK TABLE</b>			
Depth	300 mm	300 mm	300 mm
Height	1000 mm	1000 mm	1000 mm
(from ground)			
<b>USEFUL SHELF DIMENSIONS</b>			
Length	1970 mm	2160 mm	2160 mm
Depth	230 mm	420 mm	520 mm
<b>Necessary Room Height</b>	Machine height plus 100mm		

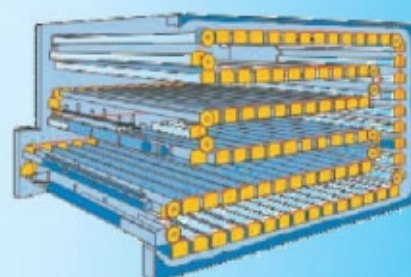
## Horizontal Carousel

Triple, horizontal carousel for storage of electronic components.



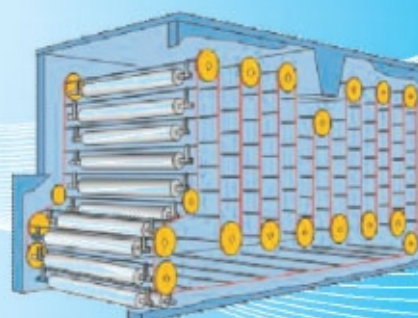
## Multi-loop Horizontal Carousel

for different sizes of metal profiles.



## Multi-loop Vertical Carousel

for storage of print cylinders.



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# Stomat

## Document Vertical Carousel Storage System

Vertical Carousels Automated filing system bring all files or records to a standing or sitting workstation and takes advantage of vertical ceiling height. With the vertical carousel filing and storage system, you have the power to call up the exact record from thousands. Within seconds, it's there, right on your fingertips.

**Why have thousands of decision makers chosen Vertical Carousels for their storage and retrieval applications?**

**Because -**

- They save valuable floor space and revolves to bring the media to the user, eliminating or reducing non-essential operator movement:

saving time, increasing productivity, reducing misfiles and errors. Using the vertical carousel concept in your office virtually eliminates needless work motions such as walking, stooping, bending, reaching, and searching. No more wasting of valuable employee time and no danger or injuries. The flexible vertical carousel can also be used store almost any type of media, such as letter or legal top and side tab folders, CD-ROM, microfiche, optical disks, checks, cards and more. This flexibility eliminates the need for costly file conversions.

- Automated Vertical Carousels pack the cube from floor to ceiling to provide more density of media in a smaller footprint, they reduce operator travel between storage units and save space!

All these factors add up to:

- Faster Retrieval
- Increased Productivity
- Less Fatigue
- Reduced Errors
- Less Employee Turnover
- Opportunities for the Physically Impaired
- With Computer Control



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## Plain shelving type box filing system

### Technical data



	Unit Width 2700/3050		Unit Depth 1330			
Cat.	No. of Carriers	Average Access Time Seconds	Machine Height mm	Minimum Room Height mm	Filing Capacity	
					Unit Width 2700 mm	Unit Width 3050 mm
For self filing folders max. Folder size 350 mm long x 290 mm high						
815	8	5	2210	2300	240	272
915	9	6	2400	2450	270	306
1015	10	7	2560	2600	300	340
115	11	9	2780	2850	330	374
1215	12	11	2970	3050	360	408
1315	13	13	3160	3220	390	442
1415	14	15	3350	3410	420	476
1515	15	17	3540	3600	450	510
1615	16	19	3730	3800	480	544
1715	17	21	3920	3970	510	578
1815	18	23	4120	4200	540	612

## Lateral or plain shelving type flat filing system

### Technical data



Technical data						
	Unit Width 2640/2998		Unit Depth 1250			
Cat. No.	No. of Carriers	Average Access Time Seconds	Machine Height mm	Minimum Room Height mm	Filing Capacity	
					Unit Width 2640 mm	Unit Width 2998 mm
For self filing folders max. Folder size 385 mm long x 251 mm high						
1211	12	5	2260	2300	2640	3072
1311	13	6	2400	2450	2860	3320
1411	14	7	2540	2600	3080	3584
1511	15	8	2680	2850	3300	3840
1611	16	9	2820	3050	3520	4096
1711	17	10	2960	3220	3740	4352
1811	18	11	3100	3410	3960	4608
1911	19	12	3240	3600	4180	4864
2011	20	13	3380	3800	4400	5120
2111	21	14	3520	3970	4620	5376
2211	22	15	3660	4200	4840	5632
Accessories - Partition Plate - Rs. 100/- per number						

Accessories - Partition Plate - Rs. 100/- per number

### Standard specifications

- Depth of posting board : 300 mm
- Height from floor to posting board : 850 mm
- Electrics : Standard 220 / 250V 110 / 127V 50 / 60 Hz AC supply.  
Alternative voltages available.

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## Stolift

### Modular Automated Storage & Retrieval System (Shuttle)

This type of storage system is a recent development combining advantages of several other systems. It is compact, sturdy and ensures fast retrieval.



**Simple yet powerful Vertical lift technology with the Stolift from Space Magnum**

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#### The concept

It is an advanced and powerful storage system provided with sophisticated PLC controller and yet very easy to operate. PLC controlled platform brings special material carriers from the control station to a particular storage location & vice-versa.

At the operating window, material can be placed on to the retriever tray. When its location / part number is entered, it will be automatically placed at the pre-determined location in the storage rack. For material retrieval, entering the part number activates the retriever, which reaches the designated rack and retrieves it to the operating window. Very simple and very fast.

#### Where to use ?

The system is ideal for mid-sized and mid-weight components / items / parts which need safe storage, fast retrieval and precision inventory control. And also, the height utilisation is possible and required.

#### Advantage over vertical carousel system

- No load imbalance
- Pitch of trays can be altered and is flexible
- Multiple pitches can be provided
- Fixed pitch or optimized pitch (Machine automatically allocates space, considering the component height)
- Flexo at 75 mm to 900 mm pitch
- Machine height can be increased at a later date
- Power consumption is very less compared to vertical carousel
- Capacity can be increased at a later date
- No vibration or jerks during the operation
- Machine capacity is designed for 20 Tonne and 40 Tonne
- Material can be taken out from the machine along with the trays
- Further automation is possible for transferring of materials through material handling systems
- Bar code scanner can be connected externally to the machine
- Material can be accessed from the top (easy accessibility)
- Auto Door Provided
- Work table weight carrying capacity facility available





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## Stolift

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#### Benefits

##### Quick retrieval

Since only the retriever moves to locate and retrieve tray / material, the speed can be higher, ensuring fast retrieval.

##### Food space saving

Floor space can be saved to a great extent (40%) since the entire available height is being used and even the operating windows can be provided at 2 or 3 different levels.

##### High safety of material

Material is stored in completely enclosed racks, ensuring safety from theft, dust, mishandling or damage.

##### Manpower saving

Due to complete automation and speedy retrieval, manpower is saved to a considerable extent.

##### Inventory control

Material is retrieved only after entering the part number & quantity and hence, precise control on the inventory can be achieved.



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# Stolift

## Modular Automated Storage & Retrieval System (Shuttle)



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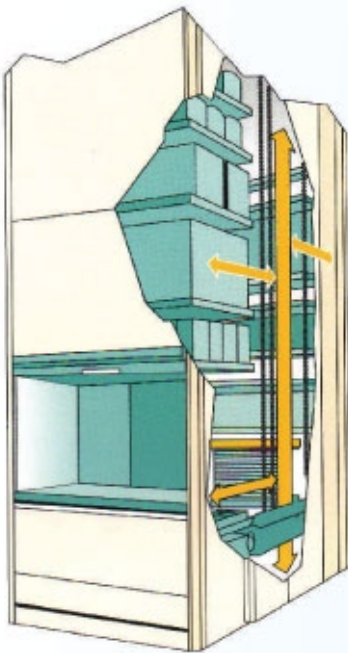




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## Stolift

### Modular Automated Storage & Retrieval System (Shuttle)



Trays with plastic boxes



Trays with modular side-walls, partitions and dividers



Trays for Euro-pallets



Trays with modular side-walls and plain partitions



Trays with a tool holder system

Tray Size	Tray Capacity	Machine Height
620 x 1220	250Kg/500Kg.	Machine height depends on your ceiling ht & tray Qty depends on the material height, and Flexo at 75 mm min 150 mm.
1550	250Kg/500Kg.	
1850	250Kg/500Kg.	
2150	250Kg/500Kg.	
2440	250Kg/500Kg.	
2750	250Kg/500Kg.	
2950	250Kg/500Kg.	
825 x 1220	250Kg/500Kg.	
1550	250Kg/500Kg.	
1850	250Kg/500Kg.	
2150	250Kg/500Kg.	
2440	250Kg/500Kg.	
2750	250Kg/500Kg.	
2950	250Kg/500Kg.	

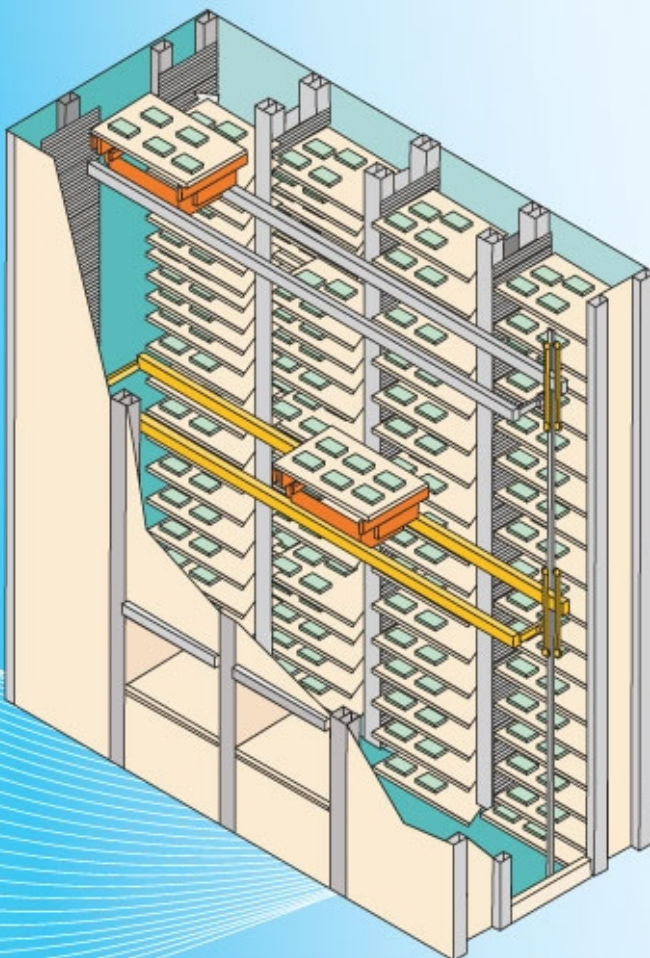
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# Storder

## Modular Multi-axis Storage & Retrieval System



Storder is the latest addition to the product range of Space Magnum. This new-generation storage system utilizes a triple-axis (X, Y, Z) movement.

Storder assures optimized efficiency & storage capacity as it blends the advantages of both Stolift & Stopick in a limited space. It is most effective where a large number of SKUs (Stock Keeping Units) cannot be accommodated in a single Stolift machine without hampering the accessibility of the SKUs.

Storder can be expanded only vertically by increasing the number of windows.

The number of picks per hour can be increased or matched with the number of picks of individual Stolift machine.

### Benefits:

- Storder estimates the need for access openings on each machine.
- It reduces cost of maintenance and number of operations.
- It can achieve a high level precision and automation of storage & retrieval
- needs of manufacturing industry, stocklist, distributions, warehouses.

### Special Features

- Retrieving mechanism of unique design which is light weight & yet robust
- High-performance chain with less noise during operation
- Torsion-free structure & sturdy covers
- Excellent positioning accuracy

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## Stopick AS/RS

### Automated Storage & Retrieval System

This is the most modern unit load, storage and retrieval system, combining advantages of several systems. It is simple, efficient, modular and easily expandable system. It not only utilizes full height, but also uses the depth to any extent.



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# Stopick AS/RS

## Automated Storage & Retrieval System

### Wide ranging applications

This system is highly versatile and the application areas are countless. It can be practically used for storing every type of material right from small electronic parts, hardware, small tools to refrigerators, drums in chemical / process industries and even storing & retrieving passenger cars in parking lots.



### Constructional Features

- Positive hoisting by chain
- High speed application. 24 to 40 dual cycles per hour
- Simultaneous X & Y axis motion
- Current through shrouded bus bars/ leading trolley, trailing trolley
- On-board SRM control communicates with off-board computer
- On-board diagnostics identify SRM faults for rapid repair and recovery
- Double arm lifting carriage ensures stability/rigidity of system
- Lifting carriage is guided on 8 rollers, ensures smooth and quiet operation
- **Load extraction - multiple choices e.g.**
  - **Single arm telescopic fork**
  - **Double arm telescopic fork**
  - **Retriever I (\*TM)**
- Core sensing ensures error-free operation
- Ergonomically designed work station
- **Aisle changer hardware for multiple aisle racks**
- The drive and control panel are mounted at floor level for easy access
- High rate of acceleration
- Machine height up to 16 meters (Lattice structure mast)
- Hoisting and long travel are achieved through AC variable frequency drive, ensures precision and smooth operation
- Quadruple chain hoisting ensures complete safety
- Linear guide ways for extractor **Retriever I**
- Optical load centering device on board
- Race supported structures ensure lower building cost
- Optional man on-board available
- Can be easily interfaced with a PC or central computer system

### Safety features

- Full safety protocols through on-board sensors as per FEM 9.754
- Racking structure, stringent design, standard as per 9.831 requirement SRM as per FEM 9.311

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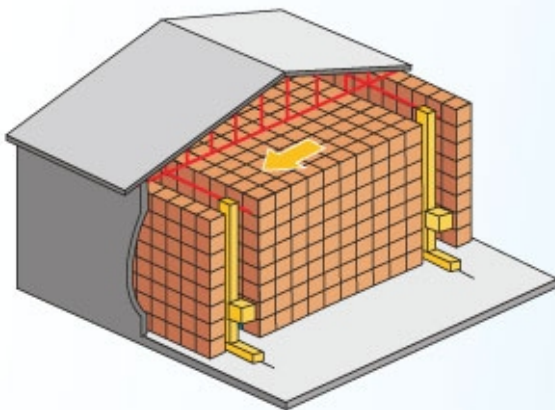




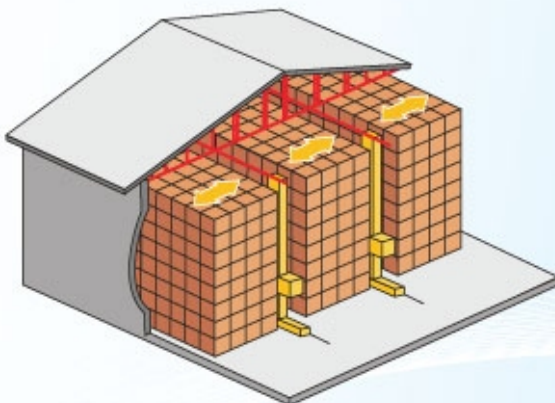
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## Stopick AS/RS

Automated Storage  
& Retrieval System



Deep lane with Flow Rack



Deep lane with Shuttle Car



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# Stopick AS/RS

## Automated Storage & Retrieval System



### The concept

The total system consists of SRM (Storage Retrieval Machine) wherein the load carrier mounted on the mast and guided by rails moves in horizontal and vertical plane between the aisle of two storage racks. The operator window is provided at the front end of the aisle. The system is

provided with a powerful PLC. The light weight and sturdy construction does not impose any limitation on the height and depth of the storage but also the speed of the load carrier can be selected depending on the requirement. Simultaneous movement of the load carrier in vertical and horizontal plane ensures high speed retrieval. This

completely customised system ensures complete automation, high density storage, quick retrieval and safety.

Due to several such advantages, AS/RS are popular in developed countries and gaining acceptance over other systems even in India.

### Where to use ?

Being highly customised, they can be practically used in any and every stores. However, typical applications are in warehouses, finished goods and raw material stores in a large manufacturing unit such as pharmaceutical, automobile, engineering, heavy electricals etc.

Storage ideas resulting into: *Capacity*° *Efficiency*° *Safety*°





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# Stopick AS/RS

## Automated Storage & Retrieval System

### Benefits

#### Cost-effective system

Single retrieving mechanism for a large storage area saves on the cost of the system.

#### Integral storage

Single, integral storage area due to optimal utilisation of height and depth ensures high density storage and allows easier control.

#### Floor space saving

Complete height utilisation, extreme narrow aisle for column movement ensures considerable floor space saving.

#### One man operation

One person can operate the system very easily since storage and retrieval is completely automated.

#### Fast retrieval

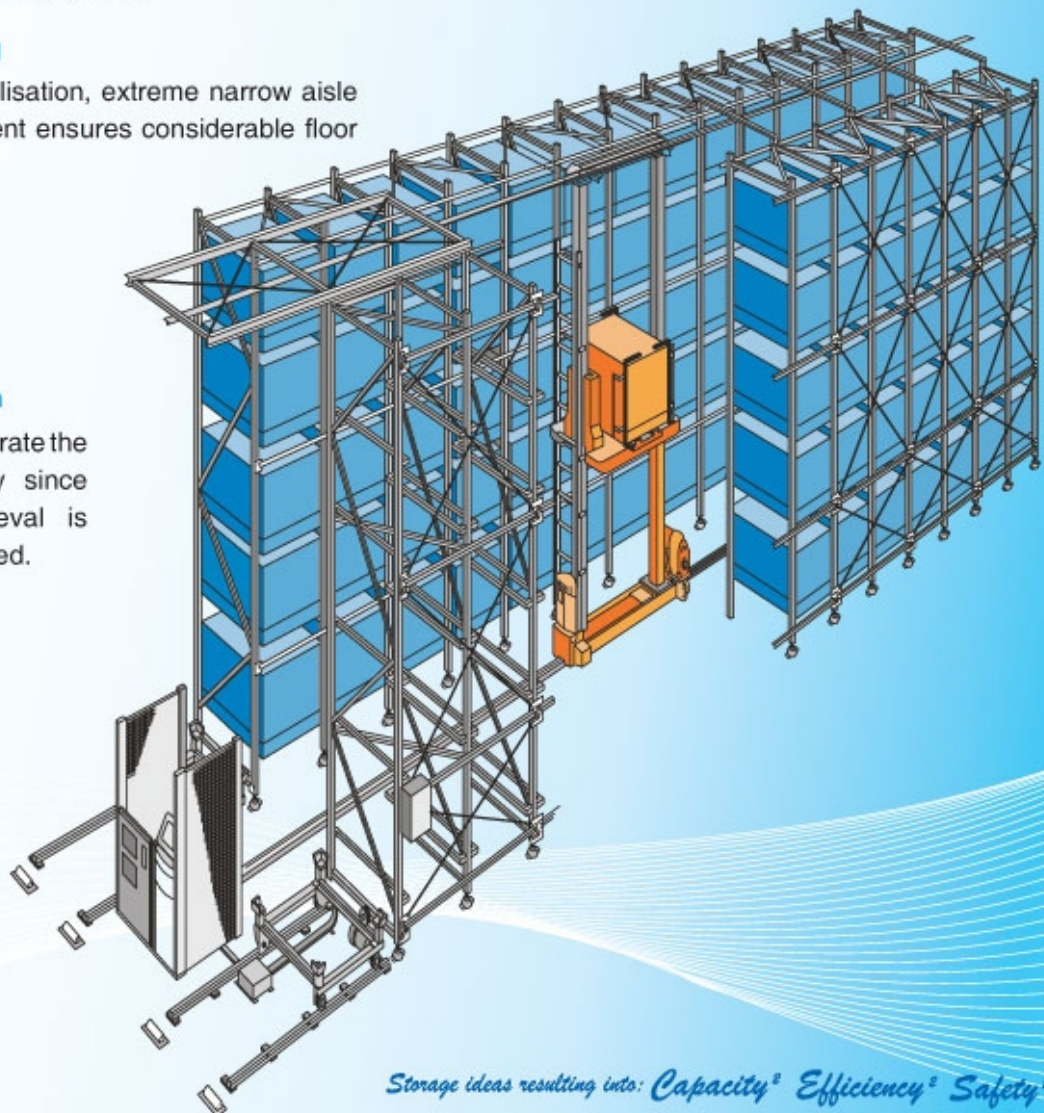
High speed and simultaneous movement in both the plains ensure fast retrieval of material.

#### High safety of stored material

Completely enclosed system with locking of operating window.

#### Easily expandable

Modular system allows easy expansion of racks and main carriage being the same, the additional cost is comparatively lesser.



*Storage ideas resulting into: Capacity<sup>2</sup> Efficiency<sup>2</sup> Safety<sup>2</sup>*





# Stomat Compactors

## Mobile Rack Storage System



### The system that knows no limits

Stomat mobile shelving provides extensive storage space within a limited area. And if the need for more storage becomes evident at a later date,

Stomat has the solution.

More space, and no need to expand. That cuts costs. The Stomat compactor system requires far less room than conventional shelving and with new premises you can even allow for extra spaces in the planning phase.

Stomat compactor, the right system for every application.

### Mobile shelving - Benefits

Instead of many space-consuming, individual aisles between fixed units, with the Stomat mobile system, a single aisle provides access to all shelves. Fixed shelving is only needed for simultaneous access to all items in the store. In all other cases, aisles between each shelving unit are simply uneconomical. So just push your shelves together. It's as easy as that.

Whether in offices, workshops or households, Stomat is the ideal solution. Practical examples show that you can store while saving space and still maintain rapid access. Files, suspended folders, registers, card indexes, clothes, fittings, electrical and electronic accessories, shoes, paints, medicaments, bins and a lot more. Stomat compactor demands little space and offers a storage capacity that you would never have thought.

Storage ideas resulting into: *Capacity<sup>®</sup> Efficiency<sup>®</sup> Safety<sup>®</sup>*





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# Stomat Compactors

## Mobile Rack Storage System

### Optimal solution for all types of storage

#### Aisle security

For your special requirements or tailor-made products, call on our trained advisors for a complete site survey, design, supply and installation service.

#### Drives

We can provide suitable drives for every weight class and application to suit the overall weight of your storage shelves and their frequency of use.

#### Manual operation

A block of several shelving base with a maximum overall weight of 1200 kg can be moved using the manual system

#### Crank operation

The crank drive with a 1:6 reduction ratio permits easy movement of shelving base or blocks of bases with a maximum weight of 10 Tonne

#### Electric drive

This drive is mainly used in systems with very heavy loads. Single motor drive is via a friction wheel running on the rail. The control system is designed to meet specific customer requirements.

#### Central locking system

The central locking system protects the entire system against unauthorised access.



Storage ideas resulting into: *Capacity<sup>®</sup> Efficiency<sup>®</sup> Safety<sup>®</sup>*





# Stomat Compactors

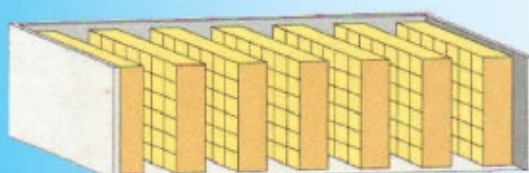
## Mobile Rack Storage System

**Stomat Compactors**  
Mobile Rack Storage System

Ht.2040	300 SFF	375 SFF	450 SFF	600 DFM	750 DFM	900 DFM
900 width	5 levels of storage Suitable for box files/latra filing					
1800(W)						
2700(W)						
3600(W)						
Ht.2440	300 SFF	375 SFF	450 SFF	600 DFM	750 DFM	900 DFM
900 width	6 levels of storage Suitable for box files/latra filing					
1800(W)						
2700(W)						
3600(W)						
Ht.2840	300 SFF	375 SFF	450 SFF	600 DFM	750 DFM	900 DFM
900 width	7 levels of storage Suitable for box files/latra filing					
1800(W)						
2700(W)						
3600(W)						

Fixed units with 30 bays,each providing six meters of shelf space = 180 linear meter With mobile shelving , the same space can house 54 shelving units with the same shelf space = 324 linear meters of shelf space. The gain in space is thus 144 linear meters - an improvement of 80% !

### Conventional Racking System

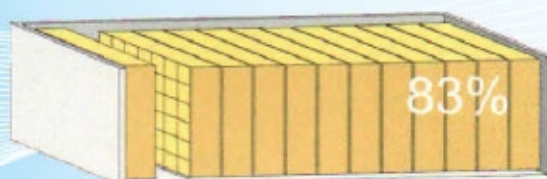


Extra working area made available : 24%

### Mobile Shelving



Increase in storage capacity around 83%



Storage ideas resulting into: *Capacity<sup>2</sup> Efficiency<sup>2</sup> Safety<sup>2</sup>*





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## Stolong

### retrieval system for longer sections

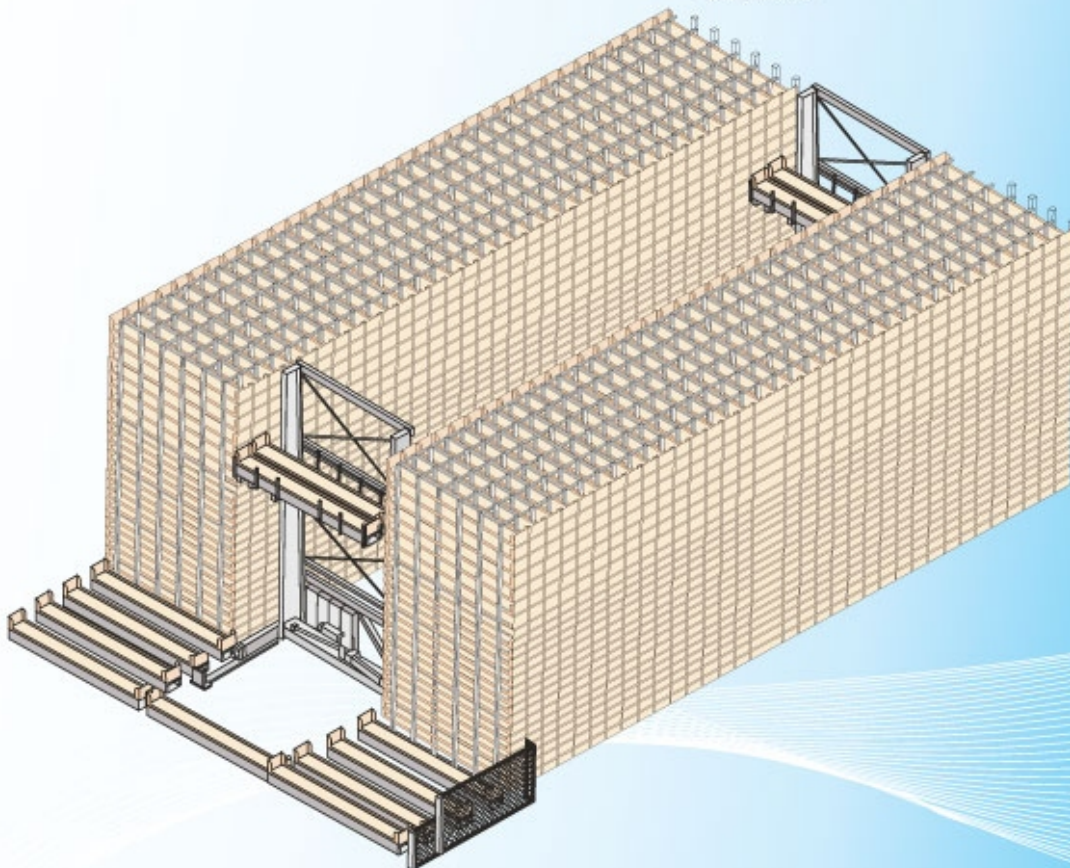
Amatchless blend of swiftness & economy, Stolong is a perfect solution for storing and retrieving bars, building and facade profiles, metal fittings and sheet metal systems of varied sizes and quantities. It is most beneficial in steel and metal service centers and manufacturing, plastics and aluminium industries. A higher storage capacity, faster access and moderate investments are the main features of Stolong. Faster drives and a double pulling device of the gantry crane add to the efficiency of Stolong which guarantees economical material flow.

### Perfect Automation

The ergonomically designed Stolong system offers perfect automation for the customer's storage requirement. It uses the random cassette principle. The storage systems can provide cycle

times of varied speeds to suit his needs and bring the material to the operator. The gantry cranes in the system can achieve up to 50 double cycles per hour. Material can be retrieved from and carried to several workstations with more cycles than systems with permanent locations.

Stolong systems can reach height up to 25 m (82 ft). Stolong systems offer the following options – commissioning cranes, buffer tables with chain conveyors, bundling devices, truck routeing systems. Additional options of cassette dividers, inside linings and floor coverings are also available.



*Storage ideas resulting into: Capacity<sup>2</sup> Efficiency<sup>2</sup> Safety<sup>2</sup>*



## OUR OTHER PRODUCT RANGE



**Cantiliver Type Racking System**



**Heavy Duty Racking System**



**Motorised Heavy Duty Mobile System**



**Bin Type Fifo Racking System**



**Two Tier Racking System**



**Drawer Type Dia Storage System**

**Space Magnum**

Total Storage Management (TSM)

Provider of Complete, custom-built Storage Solutions



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