

stortec.

PRODUCT CATALOGUE

INDUSTRIAL VERTISTORE

STORTEC INTERNATIONAL LIMITED

VERTISTORE - VERTICAL LIFT

Stortec VertiStore is a dynamic automated storage system that eliminates operator unnecessary travel time by delivering goods to the operator compared to the conventional method of going up and down aisles to reach the goods. A lift travels throughout the height of the system and retrieves trays/shelves to the system delivery window which is located at an ergonomic height. It can accommodate from palletized goods to small parts or storage bins all in one system or even on the same tray/shelf, the system identifies goods specific height during tray hauling and delivers them to the adequate free area within the system. With the use of Stortec specialized Software the system can either be connected with your own Warehouse Management System or can work independently or with a group of VertiStore systems offering all adequate functions for achieving efficient picking and stock control.

The Stortec VertiStore offers:

■ Space Savings

Stortec VertiStore utilizes all available space up to the ceiling or even installed through the ceiling, storing goods within on a height-optimised manner and, designed with smaller spaces between the storage trays than other systems, thus offering you even greater capacity. When compared to similar height mini-load system it can save you 60-70% floor space, or 70-90% of space against ordinary storage racks.

■ Increased Productivity

There is no need to move the whole store around as carousels, only the desired tray is moved. The system function brings about that the operator can work at constant pace, and waiting times are reduced to almost zero. By a click of a button the system delivers the tray loaded with the articles to the operator within seconds. Walking time is reduced by at least 65%. With three systems in operation pick rates up to 200 orders positions per hour are achieved, that is between 2 - 4 times more than a traditional picking storage system could produce.

■ Functionality

Unique "Twin" extractor (optional) capable of handling two trays in the same sequence, whilst the first tray is at the delivery window for picking the extractor fetches the next tray, when picking is acknowledged the first tray is hauled and the next tray is presented directly, the process continues in sequence until the order is complete. The "Twin" extractor can add up to 50% more picking speed to the already increased productivity. VertiStore is capable of storing various sizes

of items within the same unit or even tray, height measuring light barriers will identify goods height and will store the trays according to their individual height without any loss of space.

■ High Load Efficiencies

VertiStore eliminates the use of chain drives, belts or cables, the extractor is driven vertically by four cogwheels running in homogenous racks (4-wheel drive) for grater speed and reliability. Extractor does not tilt, no problems with load imbalance, non-slip hold

in the event of emergency stops, increases durability and reduces maintenance needs. This creates a robustly stable operation and exact positioning of storage trays is achieved day after day, year after year.

■ Ergonomics

Staff will definitely enjoy the improvement of its working conditions. The system presents the desired articles to the operator at the system delivery window located at an optimum height, in this way eliminates operator

Stortec VertiStore Competitive Edge:

- Four-Wheel Drive Vertical Movement Concept
- Unique "Twin" Extractor
- Designed with Smaller Spaces Between Storage Trays



waste of physical effort on ladder climbing, bending down, pulling heavy rolling carriages to access the stored goods and reaching up to pick from multiple levels and pull out heavy boxes.

■ Security & Control

Stored goods are kept clean and secure within the system. Doors are lockable and access is monitored and controlled through the password protected specialized Control Software (optional) specially developed to control the system, preventing unauthorised personnel from accessing system contents, or even establishing user multiple access levels.

■ Accuracy

VertiStore is offered with a choice of three different optional specialized Control Software, a basic version, an advanced WMS (Warehouse Management Software) and a communication software between the system and a main control business system (ERP or WMS), transforming the operations into a paperless and pick to light job, that eliminates transactions errors to an accuracy of 99+%.

■ Flexibility

The system can offer more than one delivery windows these can be one at the front and one at the back or at different floors. Its expandability is not limited every VertiStore can be used as stand-alone system and, by adding additional systems storage capacity is expanded. Tray heights can be mixed and can change at any time according to the goods placed on them, since the height of the goods is controlled via horizontally working photocells at the rear of the delivery window. A choice of accessories enables the system to accommodate a wide variety of products such as bulky

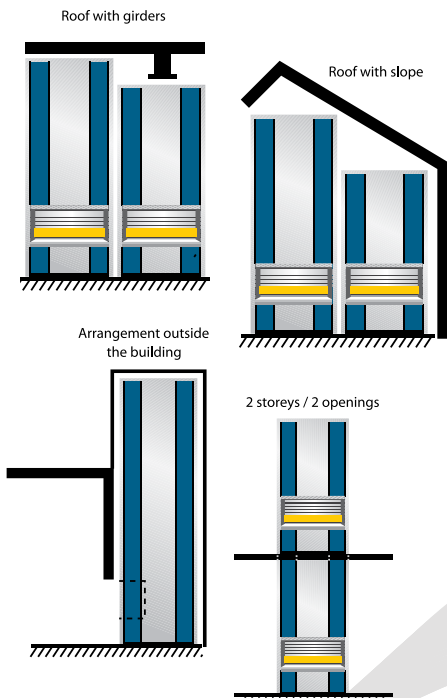
and heavy parts, boxed goods, storage bins, tools, and etc., making it an essential part of today's warehouses, distribution centres, manufacturing stockrooms equipment.

Safety

Its vertical movement concept (4-wheel drive) offers a smooth operation achieving outstanding operational safety. Pressure-sensitive plate in the delivery window eliminates the risk of jamming. In addition Storotec ensures maximum safety to the operators by using threshold safety switches at critical system areas, emergency stop switch and accident protection photocells at the system delivery windows.

Fast Return on Investment

Storotec VertiStore by providing dramatic increases in throughput, productivity, space utilisation and management, enables organisations to recover their investment within less than twelve months of the system operation.



VertiStore Features:

- Available Tray clear widths: 1220mm, 1830mm, 2440mm, 3050mm & 3660mm
- System Height can be from minimum 3 meters to 16 meters
- Electronic Controls at an easily accessible location on the Retrieval Opening Reference table.
- Ergonomic Reference Table.
- Efficient Lighting System on top of the System Delivery Window.
- Index LEDs at the inner edge of the Reference Table or Laser Pointer (pick to light).
- Barcode Scanner, Label Printer and Picking Display.
- Shuttle Device & Roller Conveyor.
- Sprinkler System and Nitrogen Solutions for Dry Pack.
- ESD Application.
- Functional Coloured Touchscreen Keyboard, that allows users to select and call the desired tray number to retrieve and to communicate with the interfaced PC.
- Two-tone colour coating Gazell Silver 71 and Blue NCS 6030-B, other colours available on request.
- Plate Endings and Partitions, Tray and Pallet Partitions, Folding Tray of Undulated Cardboard, Plastic Bins and Euro Containers.



BARCODE SCANNER

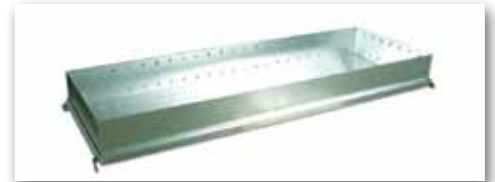


BARCODE LABEL PRINTER



FOUR-WHEEL DRIVE VERTICAL MOVEMENT CONCEPT DETAIL

STORAGE APPLICATIONS



SHEET FRAME CASING



FLEXIBLE SHEET DIVIDERS



PLASTIC BINS IN DIFFERENT SIZES

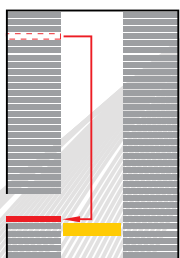


PAPER BINS IN DIFFERENT SIZES

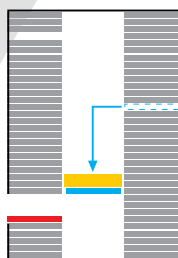


FRAME CASING WITH MOVEABLE FRONT

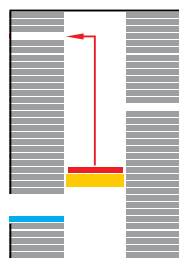
THIS IS THE WAY TWIN EXTRACTOR WORKS:



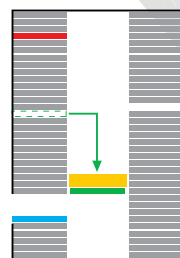
Tray no. 1 is fetched



Tray no. 2 is fetched to waiting position



Collects tray no. 1, tray no. 2 is placed in picking position



Puts back tray no. 1 and fetches tray no. 3



STORTEC INTERNATIONAL LIMITED

Stortec history on servicing the market goes back more than a century and, through providing first in class products and services to customers managed to be the selected storage solution provider for many organizations and institutions.

Stortec International Limited with a full range of products Business and Industrial, offers a complete total storage and filing solution packages with the highest level of services resulting to "value for money" to its customers covering their needs to the maximum. Products of best quality, safe, continuously improved, together with qualified personnel leading to customers' satisfaction is Stortec International philosophy.

Through its positive attributes of storage solutions Stortec International Limited provides exclusive services to companies, organisations, factories and any other kind of clientele. Considerable effort is set into proposing the most effective products and services to its customers, by working closely with them in depth analysis of current situation and practices for developing solutions suitable to their specific needs. Project management implementation and full after sales services are provided.

In this rapid developed industry Stortec International Limited promises to continue upgrading its services and products as its main aim is to keep customers happy and result to long-term relationships.

Stortec International Limited, is located in Cyprus and is responsible for servicing the regions of Eastern Europe, Middle East, Far East, Russia & CIS, and Africa.

Our Mission

To form and consolidate long term relationships with customers, by providing excellent products and services and, to be the selected supplier of organisations willing to enhance their storage and retrieval operations. The superb cooperation with our suppliers and our commitment to excellence in the way of providing products and services, are the key factors of succeeding sustainable and expandable clientele.

Customer Services Support

Stortec International Limited Service Team has an extensive proprietary knowledge and experience of storage systems technology and provides preminent technical and after sales support as well as installation and commissioning to Stortec and Non-Stortec Products.

In this ever demanding and competitive environment we at Stortec International understand the critical role storage systems play within our customers' businesses. We ensure that people working with us and to our dealers are fully trained on the subject and capable of providing first in class services, to ensure maximum system uptime and reliability.

Customer Services

- System Installation & Start Up
- Commissioning
- Technical Support Through Remote access, Email, Skype and Telephone
- Customized Training Programs
- Equipment Relocations

After Sales Support

- Live 24/7 Technical Support Through Remote Access, Email, Skype and Telephone
- Equipment Service and Repair
- Full Service Contracts
- Preventative Maintenance and Troubleshooting Service Contracts
- Free Access to Stortec International FAQ and Support Forum
- Full Service Maintenance Repair and Operating (MRO) Materials Stock
- Product Enhancements and Modifications

**WE
TAKE A
STEP
AHEAD**

Authorized Dealer:



STORTEC INTERNATIONAL LIMITED

P. O. Box 50399, 3604 Limassol, Cyprus

T. +357 2587 0007, F.+357 2538 7788, E. info@stortec.co, Web. www.stortec.co