

The CSI logo consists of the letters 'CSI' in a bold, white, sans-serif font, centered within a solid blue square.

CSI

more products
more solutions

DYNAMIC STORAGE MACHINES

Increase efficiency, organisation and picking speeds
in your warehouse

The DEXION logo features a red checkmark inside a white circle, followed by the word 'DEXION' in a bold, red, sans-serif font, with a registered trademark symbol (®) to the upper right.

 **DEXION**[®]

Storage solutions since 1947

more expertise



Successfully completing the Achilles programme and achieving the accreditation reiterates our dedication to providing quality products, services, compliance and commitment to our customers increasing demands regarding health and safety, environmental and corporate governance.



We are the largest distributor of Dexion in the UK. Our planning and installation teams are recognised as experts in the industry.



"HIGHLY COMMENDED"
QUALITY ASSURANCE SCHEME AUDIT 2014

As a SEMA distributor company we work to the latest industry standards and codes of practice. We are one of a handful of companies in the UK able to offer independent SEMA approved pallet rack inspections.

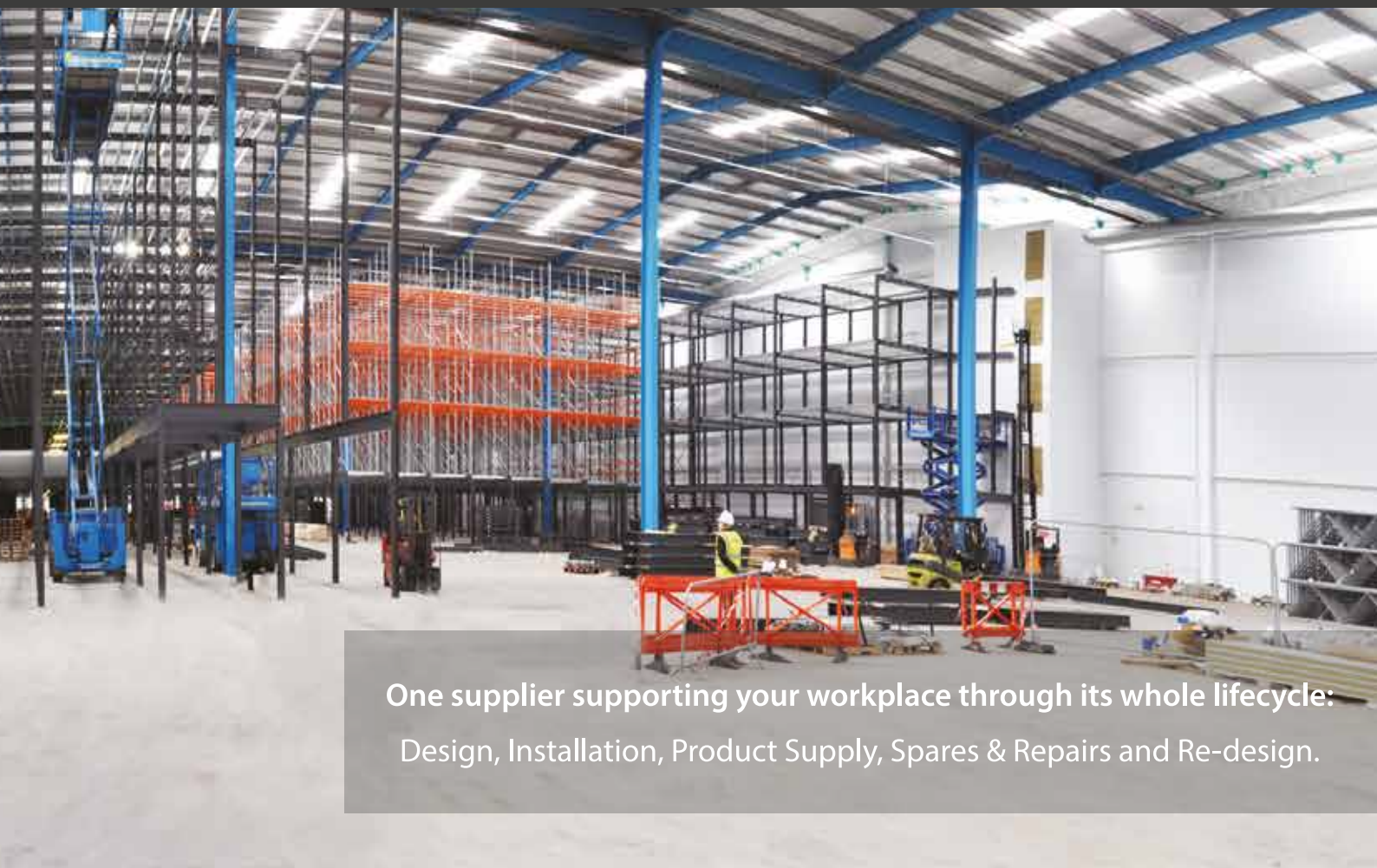


Prince's Trust

At CSI we are proud to support The Prince's Trust in their great efforts to support young people into work and training. To help raise funds we donate £1 for every order placed on our website.



As a BSI member we have achieved ISO9001 for over 10 Years.



One supplier supporting your workplace through its whole lifecycle:
Design, Installation, Product Supply, Spares & Repairs and Re-design.

CSI is the workplace product and solutions provider that gives you more.

*We offer our customers **more for** their workplace so they can get **more from** their workplace.*

CSI has been built on the 35 year reputation of trading as ESE, one of the largest industrial storage companies in the UK. Our e-commerce division has transformed our brand into a “more” company for industrial and commercial products and solutions.

We offer a supportive working dynamic - Whatever it is that you are in the business to do, we're in business to help you do it.

more for you

- » The best products and solutions at the best prices.
- » Delivering efficiency, safety and return on investment.
- » 15,000 Products online designed for the industrial and commercial workplace.
- » Combined expertise and experience of our solutions and products teams.
- » Customer service, before, during and after sales.
- » Help to unlock, realise and release the potential within your workplace.

there's more to every workplace



Increase productivity
Expand the storage and capacity of your warehouse

AUTOMATED SOLUTIONS FOR EFFICIENT WAREHOUSING

Dynamic Storage Machines are an almost unbeatable choice when it comes to maximum efficiency in order picking and small parts retrieval. Due to their modular design system it can be adapted to your exact requirements and offer a virtually endless range of applications. From the rapid Tornado Lift System or the IPN Industrial Paternoster vertical carousel for utilisation of existing building heights, to the HOCA Horizontal Carousel for maximum picking productivity in rooms with low ceiling heights. Dexion offers you an automated system for your warehouse that can be designed to meet your individual needs requirements.

Benefits of automated storage:

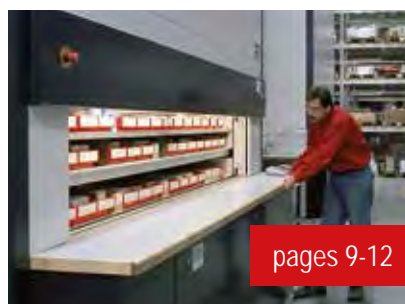
- ✓ **Save floor space by up to 75%**
- ✓ **Significantly reduce picking errors**
- ✓ **Increased picking efficiency by 65%**
- ✓ **Customised to individual requirements**
- ✓ **Good ergonomic working environment - "Goods-To-Person" Principle**
- ✓ **Tailor your machine to your building**
- ✓ **Protect goods from dust, dirt, light and unauthorised access**

Tornado Vertical Lift Storage Machines



pages 5-8

IPN Paternoster Storage Machines



pages 9-12

HOCA Horizontal Carousel Storage Machines



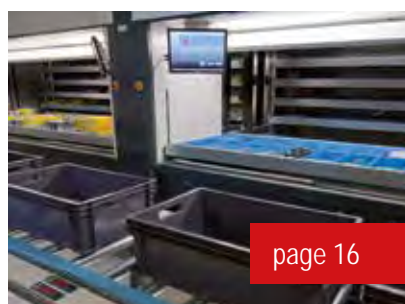
pages 13-14

TC2000 Warehouse Management System



page 15

Batch Picking improves productivity



page 16



 More information see:
www.dexionstore.co.uk

Fast, flexible and safe

The Tornado Lift System is a dynamic storage system which moves vertically and delivers the required goods on a tray directly to the operator, either by pushing a button or scanning a barcode. The Tornado offers maximum storage capacity on minimum floor space and fast access to the goods.

The modular design of the system enables a variety of machine widths and heights, it can be customised to meet nearly every requirement. The simple structure makes this storage system reliable and low-maintenance. An intelligent control system can locate the most active trays as close as possible to the access opening for efficient picking. Picking times can be improved by up to 65 % and picking accuracy increased. The vertical travel speed of the Tornado Lift System is up to 2.2 m/s. With this high picking performance it keeps waiting time to a minimum.



TORNADO LIFT SYSTEM

Thanks to its modular construction and variety of dimensions the Tornado can easily integrate into different working environments. It requires almost 75% less floor space compared to conventional storage solutions and can operate as a stand alone system or as a multi-unit installation. Further space saving can be achieved by installing the Tornado outside your warehouse with the pick opening inside. The Tornado can easily be adapted to your individual warehousing situation.

The Tornado Lift systems operates using the bespoke Dexion TC2000 software. This Windows based platform can be easily linked with your existing WMS or ERP system so that the Machine becomes an extension of your network. (See page 14 for more details.)

Ergonomic and safe

- ✓ Easy product identification using a product code, bar code or from a host system.
- ✓ The required tray is brought directly to the operator – “goods- to-person” principle.
- ✓ The retrieved goods are presented at each operator’s ideal working height, for optimal ergonomics.
- ✓ Safe and secure storage with password protected access.

Versatile and reliable

- ✓ The modular design enables a variety of machine widths and heights.
- ✓ Tornado’s simple structure makes the system reliable and low-maintenance.
- ✓ Tray load capacities of up to 600kg.
- ✓ Maintenance via Remote Control Function.

Increase picking performance

- ✓ The entire tray can be taken out and transported to another work station.
- ✓ The intelligent control system locates the most active trays as close to the access opening as possible
- ✓ Vertical travel speeds up to 2.2 m/s offers rapid picking performance, reducing waiting times to a minimum.

Various ways to position your Tornado Lift System

Through an existing roof or through the ceiling



Integration into multi-storey buildings



Installation in the basement



Outside the building with connection to the inside



Installation under sloping roof or shed roof constructions



Installation under ventilation plant



Tailor made for 1001 purposes



Tornado can double capacity

The Tornado's storage capacity can be doubled by integrating two standard Tornados into one unit – Tornado DT. Just like a standard Tornado, a batch picking system can be connected to a Tornado DT - see page 16. This allows you to double your capacity but operate the machine as a single unit. By doing this you can further speed up picking times and minimise errors.



Scan this QR-Code for
Tornado customer references



More information see:
www.dexionstore.co.uk

Benefits of Tornado at a glance



- ✓ Up to 75 % saving in floor space, but still provide the same storage capacity
- ✓ Up to 65 % reduction in picking times
- ✓ Ergonomic operation through "Goods-to-person" principle
- ✓ Protect stored goods from dust, dirt and unauthorised access, reducing shrinkage
- ✓ Window-based machine control allows easy integration into existing IT environment
- ✓ Easy, paperless order processing
- ✓ Reduce picking errors
- ✓ **Very flexible design, adapts to most warehouses' space availability**
- ✓ Dexion can access your Machine remotely to provide support and guidance
- ✓ Additional openings enable the use of a Tornado on different floor levels
- ✓ Tornado DT – the capacity of two machines with one pick opening
- ✓ Safe storage of goods through permanent internal monitoring to detect overhanging goods

Technical Data

Total height:	4 to 15 m
Tray width:	1250 to 4250 mm
Tray depth:	520, 620, 720, 820 and 1220 mm
Tray load capacity:	up to 600 kg
Height of stored goods:	up to 850 mm
Vertical travel speed:	up to 2.2 m/s
Storage and retrieval speed:	up to 1.2 m/s
Total load capacity:	60 t
Motor output:	5.5 kW

Accessories

- ✓ Light position indicator
- ✓ Light pointer
- ✓ **Confirmation strip**
- ✓ Bar-code reader and label printer
- ✓ Batch picking
- ✓ Tray inserts
- ✓ **Bespoke fitments**



 More information see: www.dexionstore.co.uk

Flexible, efficient and ergonomic

The Paternoster System works through vertical rotation. The requested goods are transported to the operator by the shortest possible route and presented in an ergonomic position.

With the particularly compact design, the Dexion IPN Industrial Paternoster makes optimal use of available warehouse dimensions, from the floor up to the ceiling. The IPN Paternoster is the ideal storage system for heavy and small part storage. Paternoster systems can be manually operated, but also features host-controlled order picking and highly-efficient batch picking. In comparison to static storage systems the Paternoster needs almost 75% less floor space.



INDUSTRIAL PATERNOSTER (IPN)

The Dexion Paternoster is a secure and safe solution that offers automated storage for heavier or mixed size items. Offering good accessibility and clear overview of the goods stored while providing an excellent solution for reducing picking times.

The Dexion Paternoster solution saves floor space and offers efficient height optimised storage on a minimal footprint. Retrieval points can be located on different floor levels.

Paternosters are suitable for storing a variety of different sized goods and heavier items. It offers rapid and optimized processing, reduces picking errors, always bringing items to the operator by the shortest route.

A large reduction in picking times is achieved with batch

picking offering a quicker goods selection process. Stock item handling is safe and ergonomic, as the shelf is brought to an optimal working level, helping to reduce worker fatigue.

The Paternoster keeps the products away from dust and light, maintaining the original condition of the items.

With the ability to seamlessly link this machine to your ERP or WMS using Dexion's TC2000 software, managing your picking has never been easier. (See page 14 for further details.)



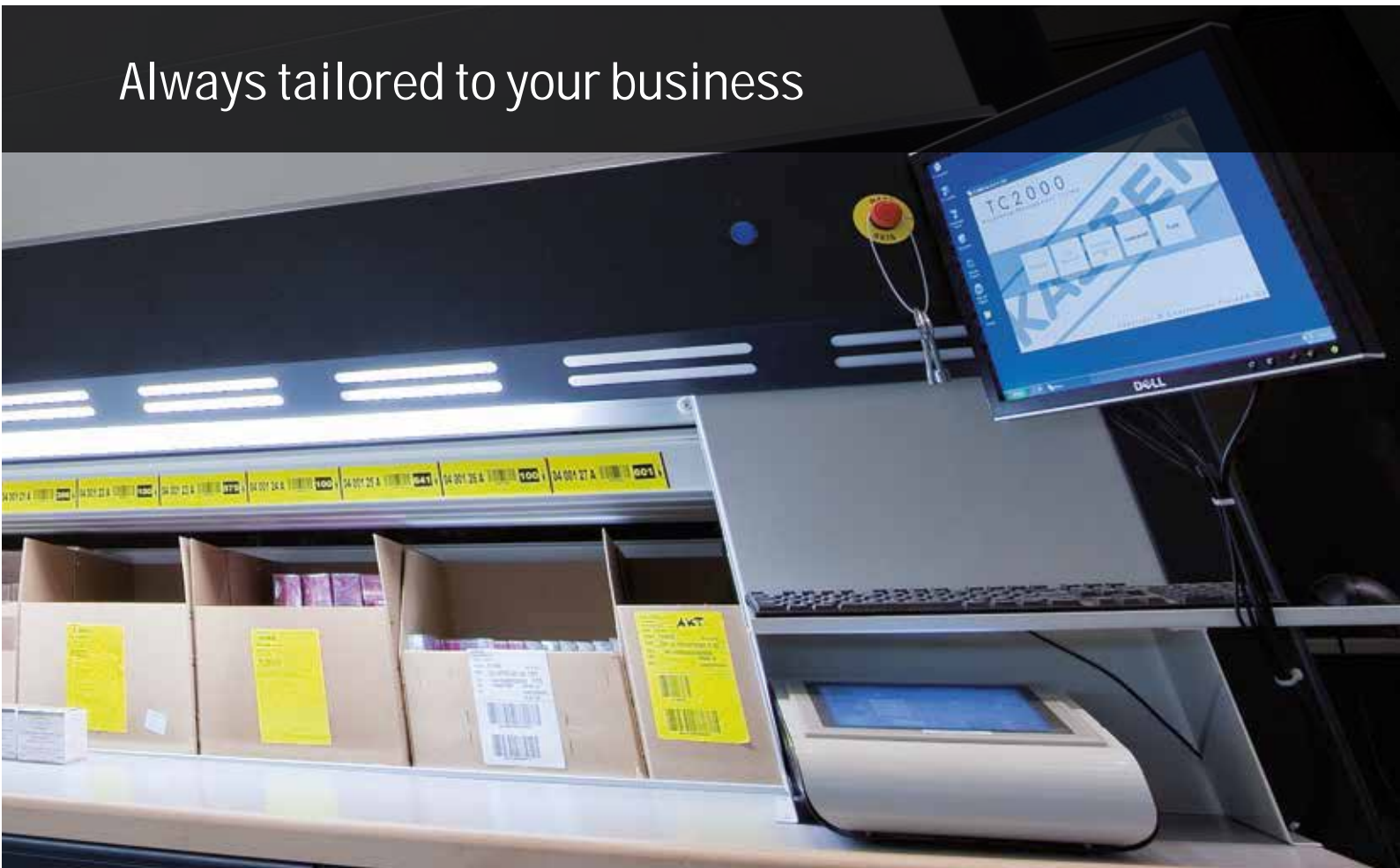
Benefits of IPN Paternoster at a glance



- ✓ Up to 75 % savings in floor space compared to traditional storage
- ✓ Full utilisation of existing building heights – from the floor to the ceiling
- ✓ Rapid provision of the requested goods thanks to the “Goods-To-Person” principle
- ✓ Reduces picking errors by two thirds
- ✓ Prevents unauthorised use – reduces losses
- ✓ Optimum protection of stored goods against dust, dirt or other environmental influences
- ✓ Safe and ergonomic work environment
- ✓ A safety light curtain protects the user during operating times and electronic photocells inside the machine protect the stored goods from damage
- ✓ The operator is equipped with touch screen controls
- ✓ Low maintenance requirements
- ✓ Easy integration into WMS and ERP systems
- ✓ Well-lit access opening that can be closed and secured with an electronic door
- ✓ Option to have multiple pick openings in different positions or even different floors



Always tailored to your business



Technical Information

Total height:	up to 15 m
Carrier widths:	2,850 and 4,100 mm
Carrier depths:	420, 520 and 620 mm
Clear carrier height:	201 – 493 mm
Carrier load capacity:	up to 600 kg
Total capacity:	up to 16 t
Machine width:	3,703 and 4,953 mm
Machine depth:	1,836, 2,036 and 2,236 mm
Motor output:	1.5 / 2.2 / 4.0 kW
Control System	PaC 100
Connection with ERP, WMS, robot, RJ45-connection	

Dexion Paternoster brings goods to the operator using the shortest route. ▶



More information see:
www.dexionstore.co.uk

HORIZONTAL CAROUSEL (HOCA) ACCOMMODATE HIGH STOCK LEVELS



The Dexion Horizontal Carousel is an excellent solution for large warehouses or low roofed buildings. The **horizontal storage system can support the whole warehouse operation by offering an efficient picking solution.** The HOCA transports goods from their locations, bringing them to the chosen picking point.

The idea of the Dexion HOCA is to combine horizontally moving shelves into the smallest area, whilst utilising the available space. The horizontal storage system can accommodate large quantities of bulky goods, reducing picking times significantly.

A HOCA brings goods to the operator rapidly and ergonomically. By combining several machines with one user, productivity can be significantly improved. Modern technology allows picking from several different locations and compared to traditional methods, reduces picking errors by two thirds.

This machine can be easily connected to the production, logistics and sales databases and just like the other Dexion storage machines, the control system will always choose the quickest route for the transportation of goods to the picker.

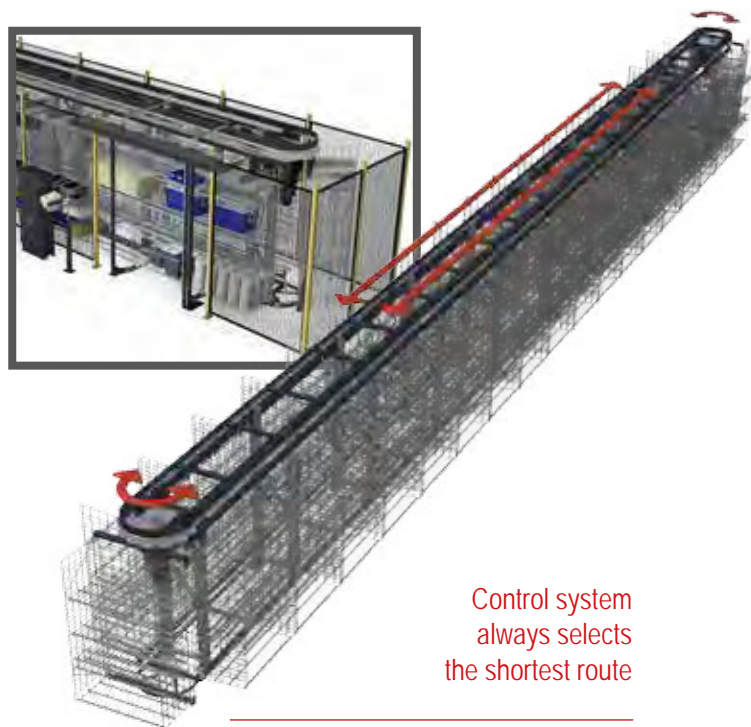
Benefits of Horizontal Carousels at a glance

- ✓ High density storage of many different types of goods
- ✓ High cycle speeds offer increased picking efficiency
- ✓ Optimal storage density is ideal for environments with low ceilings, e.g. under a mezzanine
- ✓ Several horizontal carousels deliver the requested goods with pinpoint accuracy and can be operated by one single person
- ✓ Efficient batch picking, short picking times
- ✓ A safe way to store and handle material, user-friendly
- ✓ Easy integration into ERP and WMS systems
- ✓ Option of several pick openings
- ✓ Many options for bay shelf configuration
- ✓ Horizontal Carousel can be installed as a multi-storey system



Technical Information

Bay widths:	830 and 1010 mm
Bay depths:	508 and 608 mm
Minimum shelf height:	60 mm
Bay load capacity:	600 kg maximum per bay
Shelf load capacity:	100 kg maximum per shelf
Bay height:	1700 to 3900 mm
Cycle speed:	20 m/min
Total capacity.:	40 t maximum
Total width required:	2030 and 2230 mm
Total length: 50 m maximum – Overall heights: 2150 to 4350 mm – Motor output: 1.5 / 2.2 kW	



Control system
always selects
the shortest route

 More information see:
www.dexionstore.co.uk

TC2000 - THE PERFECT WAREHOUSE MANAGEMENT SYSTEM FOR DEXION STORAGE MACHINES



Accurate stock management is critical in today's warehouse environment. The software used to control a storage machine has to be easy to implement into an existing IT environment and create a seamless operation. The TC2000 software successfully achieves this on a daily basis.

The TC2000 warehouse management system is designed for all the Dexion automatic storage machines with flexible controls for all types of demands. The software enables paperless picking and offers an easily accessible history of activity, as well as giving a clear indication of where goods are located within the machine, indicating which orders need to be picked and updating stock levels once the item has been taken.

TC2000 display shows the exact picking position. This reduces picking errors and increases picking rates drastically. ▶



TC2000 is windows based and offers a simple, user-friendly and flexible operating program. The user can choose the most suitable language from the system and easily connected to the customer's ERP or existing WMS. The TC2000 can be easily mapped to existing fields, creating a seamless transition from one system to the other.

Detailed and clear overview of goods stored. ▶



Benefits of TC2000

- ✓ Windows based system that easily integrates with most existing ERP or WMS tools
- ✓ Suitable to use with all Dexion Machines
- ✓ Batch picking can be easily controlled
- ✓ The modular structure allows additional features to be easily implemented
- ✓ Multi-lingual operating system
- ✓ Visual and clear graphics
- ✓ Support for label printing and bar-code reader
- ✓ Common database for several storage systems
- ✓ Varied back-up functions
- ✓ Online diagnostics capabilities so you don't have to wait for an engineer, with a 95% online fix rate

OPTIMISING EFFICIENCY WITH BATCH PICKING



A Dexion machine has the ability to allow batch picking, enabling the operator to combine numerous orders whilst guiding them through the process of allocating the correct item to the relevant order. The system brings the tray to the operator and provides information on the product and its location.

The control system also displays the quantity to be picked and the related order. Dozens of orders can be picked in the same batch.

The shelves move and the operator stays in one position. This allows optimal picking during one picking batch. While the picker places

products into picking compartments the system selects the next product so that it is ready for picking. This reduces waiting times and increases efficiency.

Dexion machines can be combined with pack to light systems for fast batch processing.



Benefits of Batch Picking

- ✓ One user operates several machines
- ✓ Multiple orders are collated at the same time
- ✓ Individual products are picked for several orders
- ✓ Paperless picking
- ✓ Costs can be reduced by up to 50%
- ✓ Picking speed can be increased up to 70 % compared to standard single picking
- ✓ Ergonomic and efficient working environment

pallet rack inspections

Regular rack inspections help to minimise the number and severity of warehouse accidents. Our rack inspectors offer a comprehensive, convenient and cost effective way to keep your warehouse safe and compliant with Health & Safety regulations.

Over the year, moving goods, modifying the configuration and general knocks through daily use can cause changes in the capacity of your racking and potentially lead to accidents - a risk to both man and material.

Qualified Inspectors can spot these changes early and help eliminate and reduce future costs.

Our SEMA Approved Rack Inspectors carry out comprehensive annual inspections. Providing you with detailed reports offering professional advice and highlighting areas that require attention, immediately or in the near future, through an easy to understand traffic light scoring system.

Inspections comply with all government legislation and industry guidelines.



Our rack inspectors are **SEMA**
(Storage Equipment Manufacturers Association)
approved and hold the **SARI** certificate



- » Comprehensive professional inspection by SEMA Approved Rack Inspectors (SARI)
- » Experienced Inspectors certified to SEMA standards
- » Independent expert to assess your equipment
- » Detailed inspection report
- » No interruption to operations
- » Early risk discovery minimises future repair costs
- » Prevention of damage to people or goods
- » Extending lifespan of facilities

To arrange an inspection
CALL US NOW ON 01506 413 313
or visit us at **csigroup.info/racksafety**



Annual Inspections

No need to remember when your next inspection is due, our rack inspection team will contact you to remind you when you next need an inspection carried out.

**DAMAGED UPRIGHTS PROVIDE
HAZARDOUS CONDITIONS**

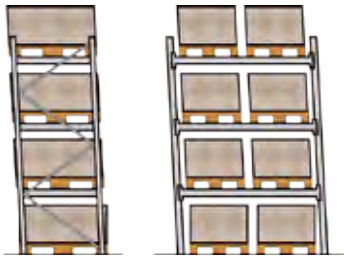


**FAILURE TO INSPECT CAN LEAD TO A
RACK COLLAPSE**



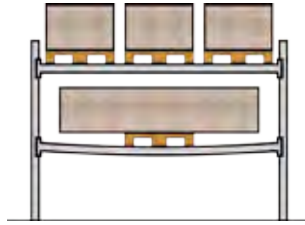
**RACKS AT ALL HEIGHTS
NEED TO BE INSPECTED**





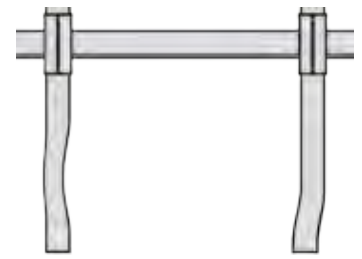
INCLINATION

Maximum inclinations for both empty and fully loaded racks should not be exceeded.



LOAD WEIGHT & PLACEMENT

The weight of the load must not exceed max weight capacity or be misplaced.



DEFORMATION

Even slightly bent beams and uprights can be a sign of potential danger. Beams and uprights must always be replaced.

We are a **SEMA DISTRIBUTOR COMPANY** and were delighted to be awarded the *Highly Commended status* in our latest audit.

"The SEMA Distributor Company (SDC) qualification indicates that the company is dedicated to the supply of quality storage equipment. To become part of the SEMA Distributor Group (SDG) the company must demonstrate a high level of commitment to safety standards, work to industry codes of practice and be regulated by a random audit"



"HIGHLY COMMENDED"

QUALITY ASSURANCE SCHEME AUDIT 2014

Legislation

Maintaining rack safety is not simply an important warehouse practice: it is a legal obligation.

Under the **Workplace (Health, Safety and Welfare) Regulations of 1992** and the **Provision and Use of Work Equipment Regulations (PUWER) of 1998**, employers are legally required to inspect their work equipment, including all pallet racking.

This means that any business with even as little as one bay of racking is required to carry out regular SEMA-approved examinations.

Racking should be inspected on a regular basis and should be carried out in accordance with SEMA Guidelines No.6 - Guide to the Conduct of Pallet Racking and Shelving Surveys.

The frequency of inspections depends on a wide variety of factors that are particular to the site, however the first inspection should be carried out within 6 months of the installation becoming operational and thereafter at a maximum of 12-month intervals. Records of these inspections must be maintained.

LEGISLATION

HEALTH & SAFETY AT WORK ACT 1974

- » **Section 2:** Duties of the Employer
- » **Section 7 & 8:** Duties of Employees

MANAGEMENT OF HEALTH & SAFETY AT WORK REGULATIONS 1999

- » **Regulation 3:** Risk Assessment
- » **Regulation 11:** Capabilities and Training

PROVISION AND USE OF WORK EQUIPMENT REGULATIONS 1998 (PUWER)

- » **Regulation 5:** Maintenance
- » **Regulation 6:** Inspection
- » **Regulation 22:** Maintenance Operations

there's more to every workplace

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