

# STORAX

**VERSATILE STORAGE SYSTEMS**



**SP DRIVE-IN RACKING**

**EUROPEAN FEM 10.2.07 DESIGN STANDARD**

## The Ramada Storax Group



The Ramada Storax factory was founded in northern Portugal in 1935 by engineer Francisco Ramada. The company became a licenced manufacturer for Dexion Ltd – renowned UK founder of the storage and materials handling industry - in 1958. Their relationship endured for nearly 40 years.

Independent since the late 1990's, Ramada Storax acquired a UK-based company called Barpro in 2001. Having developed an innovative rail-mounted storage system in 1968, Barpro was the pioneer of the modern mobile racking industry and had continued to hone their invention, becoming world leaders over the ensuing 30 years.



When the Ramada Storax Group acquired Barpro in 2001, the company inherited the leading edge technology and know-how that became the springboard to further innovative research and development. Today Ramada Storax export their systems world-wide and are also involved in the creation of pan-European EN design standards.

In 2003 Ramada Storax backed the creation of a new trading division of Storax UK: Storax Racking Supplies. As a stock-holding source of supply-only racking and shelving for trade dealers in the industry, the business is now a well-established and respected supplier in the storage equipment marketplace.



Storax UK are Associate members of SEMA and full members of the Sema Distributor Group.

The Ramada Storax Group plays an active part in the creation of industry standards with the European Federation of Materials Handling (FEM).



Storax SP Drive-In racking conforms to FEM 10.2.07 European design standard and provides dense blocks of pallet storage.

It is ideal in FILO (first in, last out) applications, where the stock profile suits minimal selectivity – for example, goods that are not date-sensitive or that arrive and go out in bulk – as well as for storing goods that are unsuitable for block-stacking directly on top of each other due to potential for crush damage to occur.



Storax SP Drive-In is loaded and unloaded from the front face of the racks by fork trucks which drive into and reverse back out of the lanes. This optimises the usable storage by virtue of having just one operating aisle. This is particularly beneficial in sites with a tight footprint or in cold stores where high running costs make it desirable to maximise the use of the physical space.



No specialist handling equipment is required: the system can be designed to work with most standard makes and models of fork lift truck, as long as the operating aisle provides enough space for it to manoeuvre in, as specified by the truck's manufacturer.

Storax SP Drive-In comprises a framework made from Storax SP adjustable pallet racking with the addition of simple, bolted components - eg pallet storage rails and floor-mounted channels. Depending on the application it can be supplied up to 13 metres high, to exploit vertical space and optimise storage density.

For storing particularly tall and/or heavy loads Storax offer another Drive-In system designed around a bespoke, heavy 'I' section upright: Storax DI Drive-In is available in 2 variants: DI125 and DI150. The appropriate version is determined by the overall loading requirement





Storax SP  
over-hang  
bracket /

The brack  
into accou  
load. As v  
pallets, th  
a helpful v  
useful in h

When the brackets and pallet rails are fitted, the resulting extra clearance between the pallets is increased. By creating a design that uses the wide bracket throughout the entire installation every pallet is supported. This provides greater operational flexibility and additional stock control options.



In addition to contrasting brackets / pallet guide-ins on beam rail levels, Storax SP Drive-In racking also offers high-visibility ground level guide-ins to provide additional assistance for truck operatives.



Although Drive-in racking is particularly beneficial when used in cold stores, the high-density design is also suitable for ambient applications. By minimising the amount of physical space needed, Storax SP Drive-

Drive-In can be designed to store pallets with hanging loads if required, by deploying a customised pallet guide-in.



Pallets are specified to the appropriate width, taking into account the expected maximum width of pallet plus any overhang. The contrasting colour of the brackets provides a visual aid to truck operatives. This is especially important in high-bay installations.

The design of the uprights accommodates the load overhang. A pallet - with or without an overhanging load - can be located in any lane in the scheme.



The depth of storage that can be achieved means that it also offers potential benefits when used in high-bay applications. This affords the scope to make savings on the cost of lighting, heating, rent and rates.

Drive-in racking is normally installed against a wall but it can also be built with an operating aisle at both ends of the block. This rack configuration is normally referred to as 'drive through', because – when empty - it is possible to drive in one end of a lane and out of the other, although clear access through some lanes may be restricted by the inclusion of additional bracing to ensure rack stability and rigidity.

This layout can still be used to deliver 'first in, last out' (FILO) storage, but offers the option to store different product at either end of each lane rather than having an entire lane dedicated to just one stock line.



Alternatively, identical product can be stored throughout each clear lane for loading from one face and off-loading from the other, giving 'first in, first out' (FIFO) stock control.

When used as Drive-in – ie for access from one face only - pallet back-stops can be fitted across each level at the rear of the rack. This ensures accurate positioning of the first pallet during the put-away process, preventing poorly-placed pallets from protruding and interfering with warehouse operations in the neighbouring aisle.

Incorporating additional aisles into a scheme reduces the density of storage that can be achieved, but enhances the flexibility of the system.



Deploying backstops is also often desirable in cold stores if the back of the block of racking is installed close to the insulated chamber walls.

Cold store insulation panels are vulnerable to impact damage that could compromise their performance: by ensuring that pallets are kept within the confines of the racking framework, backstops prevent accidental contact being made with the chamber walls during operation.



In addition to SP Drive-in, other high-density storage products in the Storax range include Storax Poweracks mobile racking (left), Storax Dynamic racking (below) and the Storax Ranger shuttle system (below, left).



# STO RAX

Engineered  
Storage  
Solutions

