

*High  
density*



**RAMADA**  
STORAGE SYSTEMS

**STORAX**



**Firm**

*50 years of experience*

*Innovation and constant technology*

*Profound knowledge in all areas of storage - from the simplest metallic rack to the most complex automatic warehouse.*



In 1935 Francisco Ramada founded a small company, F. RAMADA, devoted essentially to the production and marketing of saws and tools.

This small firm progressively created and developed other activities and, in 1958, introduced the first slotted bracket, under the licence of Dexion Ltd. Its close ties with Dexion Ltd. Enabled it to benefit from the constant innovation and technology provided by Dexion.

In latter years, F. Ramada is the largest manufacturer of warehouse system solutions in Portugal. It offers a range of products and services at the level of the most advanced international firms in the sector, in which quality, diversification and innovation are determining aspects.

Within the ambit of its strategy of internationalisation and product diversification, the Ramada Group acquired two companies specialised in cold storage

Storax Racking Systems, Ltd (**STORAX**), based in the United Kingdom and STORAX Equipements, based in France. Recently, the RAMADA Group created a new company - STORAX BENELUX – that develops its activity in the Benelux countries.

The Group Ramada – Storax is now world leader in cold storage solutions.

F. RAMADA holds the chair of the National Technical Committee of FEM and actively participates in defining and drawing up the rules and good practices of the ERF (European Racking Federation).

Member of  
the European Racking  
Federation



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# Clients' references



## PORTUGAL

Vulcano  
Nestlé  
Recheio  
Makro  
Milaneza  
Conforama  
Frigoservice  
Soporcel  
Bial  
Vista Alegre  
Siemens  
Renault  
Distribuição Luis Simões  
Alliance Unichem  
Sony  
Revigrés  
Gelpeixe  
Renova



## UNITED KINGDOM

Cold Move  
Christian Salvesen  
Gro Continental  
Innovate  
Reed Boardall  
Turners  
Yearsley  
Frigoscandia  
Speedinake



## GERMANY

Muk  
Dortmunder Kühlhauser  
Wojnar's Wiener  
BASF  
Kia Zilina  
Montblanc  
Iwis Motorensysteme



## AUSTRIA

KTM  
Forstinger  
Austro Engine  
Eternit  
Baxter



## POLAND

Logwin Air+Ocean Poland  
Sanitec Kolo  
fk Jacek Olesiejuk  
Lantmännen Unibake  
Konica Minolta  
Stadler Polska  
Egis Polska



## SPAIN

Pescanova  
Eduardo Vieira  
Logista  
DHL  
Cortefiel  
Frioriz  
Newlar  
Charanga  
SDF



## BELGIUM

Hesbaye  
Mond TDG  
North Freeze  
Billiet Vanlaere  
Egemin  
BNFW  
Crop's  
Frigo Lommel  
Lantmännen Unibake Londerzeel



## FRANCE

Condigel  
Olano  
Godfroy  
Stef Wimille  
Panavi  
Lactel  
Cooperl  
Siemens  
Danone  
Vittel Contrex  
3 Suisses  
Pamona  
Laiterie de Montaigu  
Brioche Big`in



## ITALY

Gelit  
Eskigel  
Pescamar  
Alser SPRL  
Costan spa



## THE NETHERLANDS

Middelkoop  
Christian Salvessen  
Jumbo Supermarkten  
Ostoy Trading  
Grolleman



## BRAZIL

Perdigão  
Frangosul  
Expol



## ARGENTINA

SAIEP  
CEPA  
Frigorifico Amancay  
Ice Cream SA  
Catter Meat  
Pollolin

## OTHER COUNTRIES

PERU  
URUGUAI  
BAHRAIN  
HONG KONG  
CHINA  
INDONÉSIA  
IRLANDA  
MALÁSIA  
ÁFICA DO SUL  
BULGÁRIA  
CHILE  
ARÁBIA SAUDITA  
SUÉCIA  
HOLANDA  
COREIA  
NORUEGA  
NOVA CALEDÓNIA  
SÉRVIA  
TAILÂNDIA  
ESCÓCIA  
PAÍS DE GALES  
DINAMARCA  
IRLANDA DO NORTE  
MARROCOS  
MAURÍCIAS  
TAIWAN

## **Drive in**

*The Drive In is a compact storage system that works in density and height and which was created to store similar products with a great stock rotation.*



*The Drive In system is composed by several parallel tunnels, which are equipped with beams to support the pallets.*

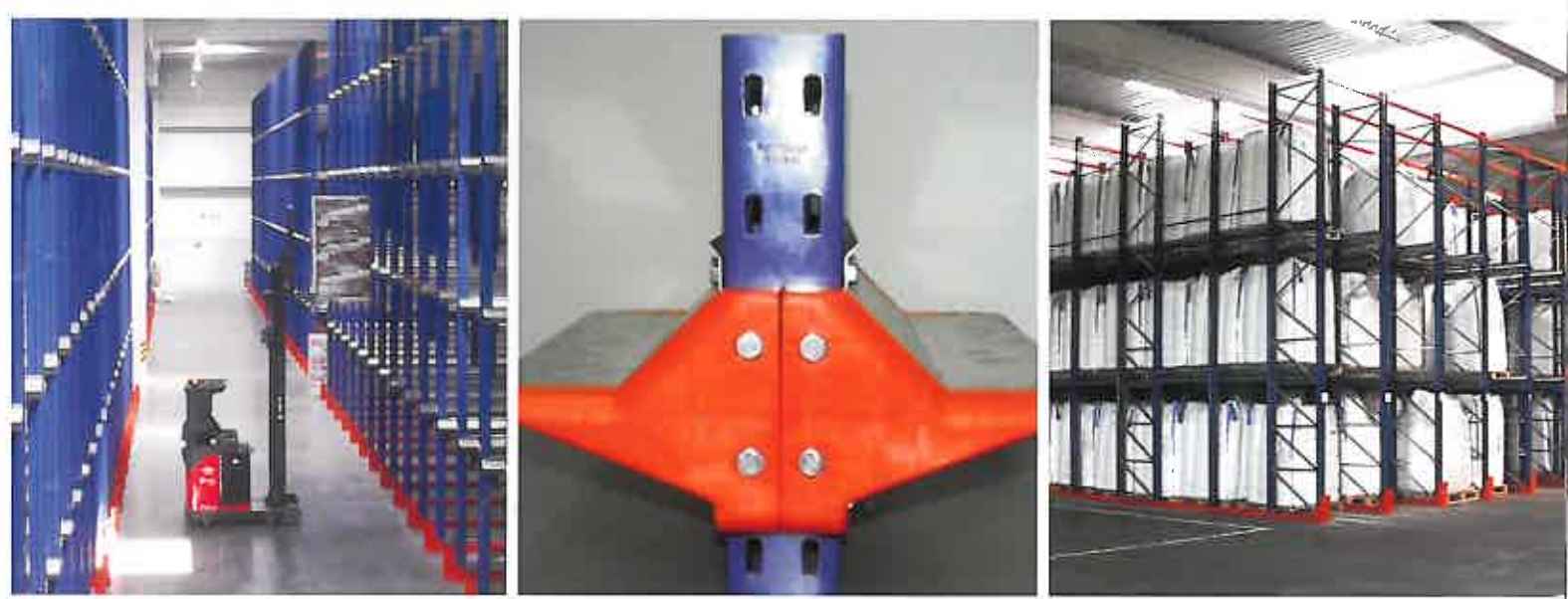
*The tunnel's width and the distance between pallet beam rails are adjusted to the load's dimensions.*

*The pallets storage can be done using different types of forklifts.*

*It is an ideal solution when a direct access to specific load units is not required.*



*The pallets can be successively stored using the high-density system, without wasting any space available at all.*



*There are two possible load management systems:*

*With the simple **Drive In** system, the pallets are stored and recovered by the front of the tunnel: **First In – Last Out**.*

*With the **Drive Through** system, the pallets are stored by the front of the tunnel and recovered by the opposite side of it: **First In - First Out**.*

*Advantages of the **Drive In** system:*

- maximum use of the area available*
- pallet handling with a common forklift*
- no need for aisles between racks*

## Ranger

*It is a storage system that allows several types of pallets - 800x1200 or 1000x1200, equipped with photocells that are able to detect which sort of pallet is being transported.*



*The Ramada-Storax Group, in partnership with one of its most important clients, has developed the Ranger shuttle. This small vehicle allows the transportation of pallets within a storage structure according to the LIFO system (Last In - First Out) or FIFO (First In - First Out).*

*The system can be fully automatically controlled over the forklifts (through PDA) or also semi-automatically controlled. If this is the case, it is necessary to enter a positioning code in the PDA every time the vehicle is left in a storage tunnel.*



*Ranger is an appropriate system to store a big amount of pallets by reference and allows a high-density storage with a consequent ideal utilisation of a given area.*



*Characteristics of the Ranger system:*

*Vehicle's load capacity: 1350 kg.*

*Transportation velocity: 1,5 meters/minute*

*Power: 2 24V battery blocks*

*Hold-up time: 4 to 6 hours*

*The operator can easily change the battery blocks manually and these blocks have a hold-up time from 4 to 6 hours.*

*The battery blocks chargers can be single or grouped, allowing a higher compliance with the client's needs.*

# I Cube

*I-Cube is a fully automatic storage, transportation and picking system, appropriate to several load types (pallets, containers, boxes, etc).*



*The I-Cube system is compliant with different environments: refrigerating chambers, controlled environment warehouses, storage and handling in production lines, load distribution centres, storage in ships, storage in oil rigs, storage of cars.*





*The I-Cube modular construction allows the system to be structured according to the user's needs.*



*With no circulation aisles for the forklifts to be driven in front or between the racks, the I-Cube system allows you to use up until 98% of the given area and surface to storing solutions.*

**Advantages:**

- *maximum use of the area available*
- *system appropriate to be applied in already existing warehouses*
- *automatic management of the stored loads*
- *energy saving*



*It is a high-density storage system in which two pallets are loaded, stored and unloaded at the same time.*

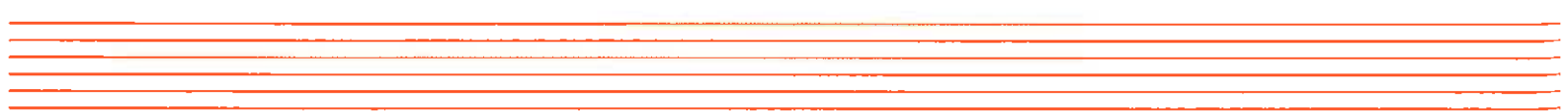


*The 2 Store system doubles productivity thus reducing operating costs. It is most effective for Beverage and Food Industries (milk, fruits, vegetables, and beverage) and for logistics companies in general.*

*The possibility to operate pallets in pairs reduces the operational costs, since that the number of ins and outs decreases 50%, when compared to a Drive In system.*

*This storage system is most appropriate to store large quantities of pallets with a low reference number.*

*The 2 Store system requires a double forklift and a lifting tower that is suited to the tunnel's width.*





*The Flow Rail is a dynamic and compact storage system most effective to store palletised loads.*



*With the Flow Rail system, the pallets are stored and recovered by the front of the tunnel: Last In – First Out.*

*The pallets are transported through a tooth type chain drive.*

*To the loading and unloading of the pallets, the forklift does not need to penetrate inside the rack, thus reducing the operating time and the likelihood of damage to the rack itself and the stored products.*

*The Flow Rail is recommended to tunnels which may have a density of 3 to 7 pallets.*



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