

Cantilever Racking

The ideal storage solution for oversized long goods

Cantilever Racking



Cantilever racking is specially designed to accommodate long, bulky and oversized goods such as pipes, aluminium profiles, timber, metal or plastic sheets, etc.

The loads are placed on the horizontal arms manually or with the appropriate lifting device (forklift truck, crane, or other) when the load or the storage height is big.

The system is not standard. It is configured every time to the specific need of the customer. Any size and loading is possible. Pebro offers various accessories depending on the specific requirements.



Pebro Cantilever Overview

■ **Adjustable.** Easy to configure and adjust to different heights and types of materials to be stored

■ **Assembly.** Simple and easy to assemble with only a few components. No special tools or equipment required for the change in height of the arms.

■ **Quality.** All Pebro cantilever is studied and calculated statically for the designed load and storage requirements.



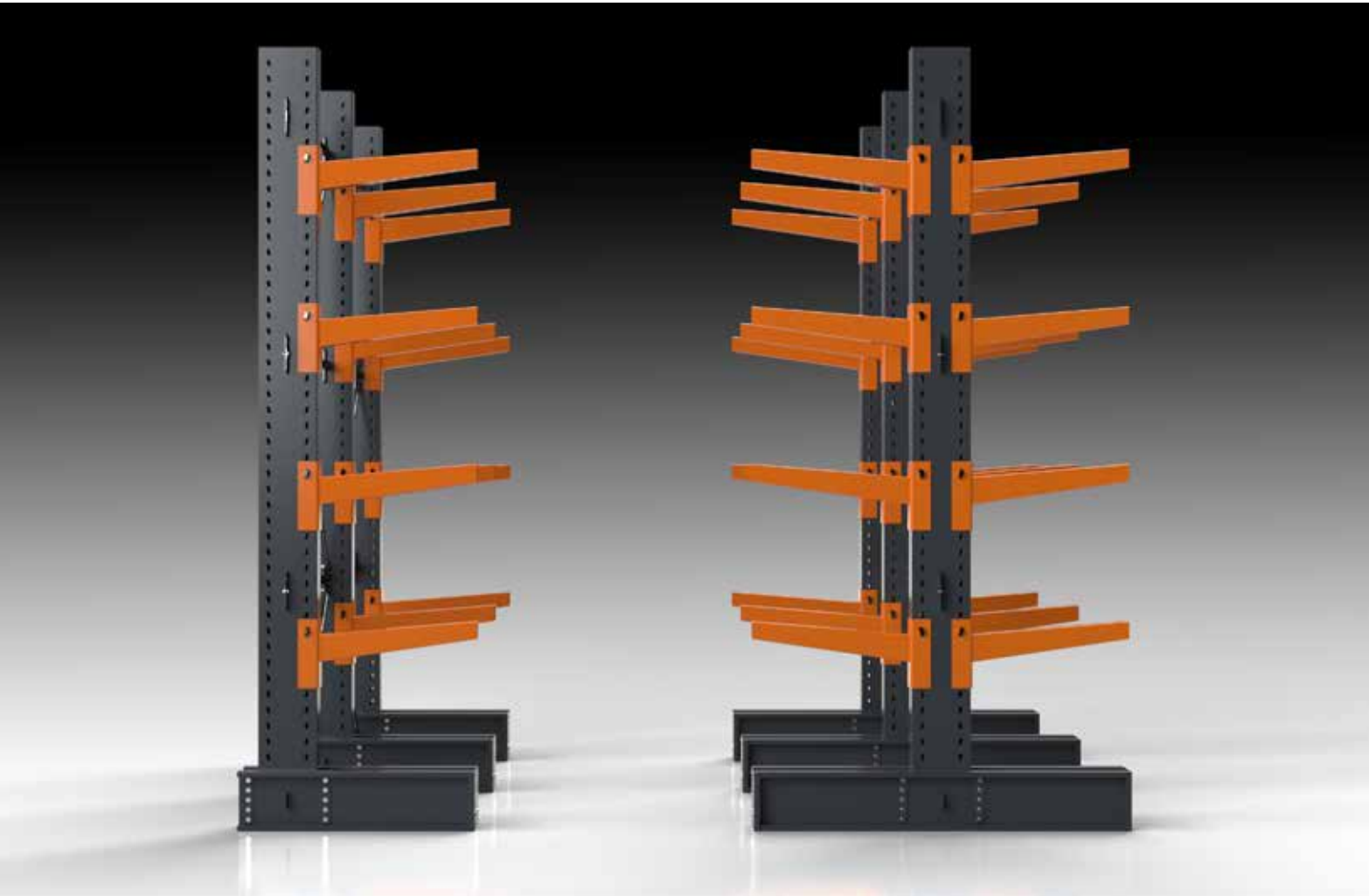
■ **Safety.** Pebro cantilever has all the safety accessories which include vertical bracing, reinforcements safety pins, arm protectors, arm end stops etc that ensure stability and durability of the system.

■ **Load Capacity.** Wide range starting from 2000Kg to 14000Kg per upright. Arms can be configured from 200Kg to 4000Kg per arm.

■ **Anti seismic.** Pebro cantilever depending on the area can be designed and configured for seismic forces.



Cantilever Rack Warehouse Layout



Cantilever racking is manufactured for single or double sided usage.

The system consists of vertical columns and horizontal arms. Corridor width will depend on the forklift type that is going to be used in the warehouse.

Often 4 way reach trucks are used in combination with cantilever racking in order to minimize the corridor width.

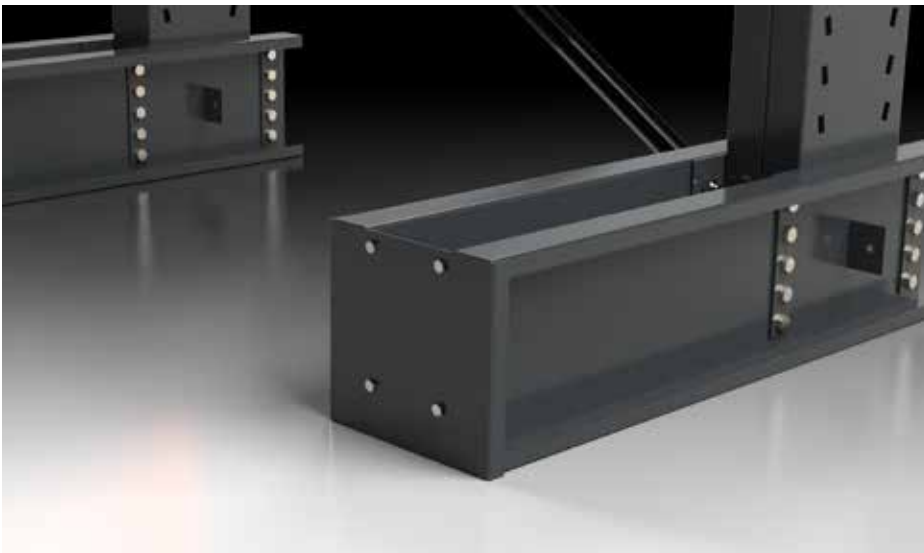




Components



■ **Columns.** The vertical columns are made of two C-shaped structural steel profiles, continuously punched in CNC punching machines and then welded together to create a special shape box section.



■ **Bases.** Two pieces of semi bases are screwed on the upright. All bases are anchored to the floor.

■ **Bracing.** All vertical columns are connected together with horizontal and diagonal bracing in order to stabilize the racking.

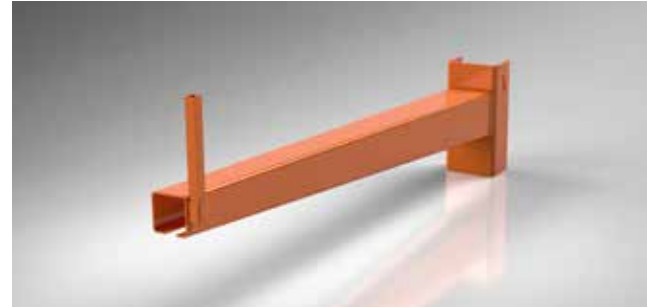
■ **Arms.** Cantilever arms (shelves) are made of Rectangular tubing or special cold formed steel, connected to the vertical columns through a safety pin system, which makes installation and repositioning easy, without the use of any specific tools.



Accessories



- **Arm with welded protective guard.**



- **Arm stops** are useful when storing loose loads like round bars, preventing them from falling.



- **Continuous shelves.** In case small sized packages or variable sized packages need to be stored, a continuous shelving on top of the arms can be used either by wood, grating or metal shelving.



- **Storage trays** are used to hold miscellaneous items, plastic tubing hoses, or other.



- **Cross bars** in between the arms. When it is necessary to store smaller items that need better support cross bars can be placed to connect the arms in between them.

- **Load Signs.** In accordance with the safety regulations all racking installations have to be labelled with the relevant load sign.

Racking System :	
Construction year :	
Type of rack : Cantilever racking	
Order confirmation no. :	
<p>«The total load of all compartments must not exceed the maximum permissible bay load»</p> <p>«The load in each compartment must be evenly distributed»</p> <p>«Unbraced or deflected shelf members should be replaced immediately as the load-carrying capacity of the system is reduced»</p> <p>«Always consult the supplier about the carrying capacity and the use of the system»</p> <p>© 2018 Hilti (USA) Inc. Hilti is a registered trademark of Hilti Corporation. Hilti is a registered trademark of Hilti Corporation. Hilti is a registered trademark of Hilti Corporation.</p>	Racking height : (height to top arm level)mm single-sided:mm double-sided:mm Frame depthmm No. of storage levels :mm Height to first arm level :mm Distance between uprightmm Upright profile :mm
	length of Level cantilever armmm profilemm cantilever arm loadkg
	max. compartment load :kg max. load/upright (single sided) :kg max. load/arm (double sided) :kg

Uses of Cantilever Racking

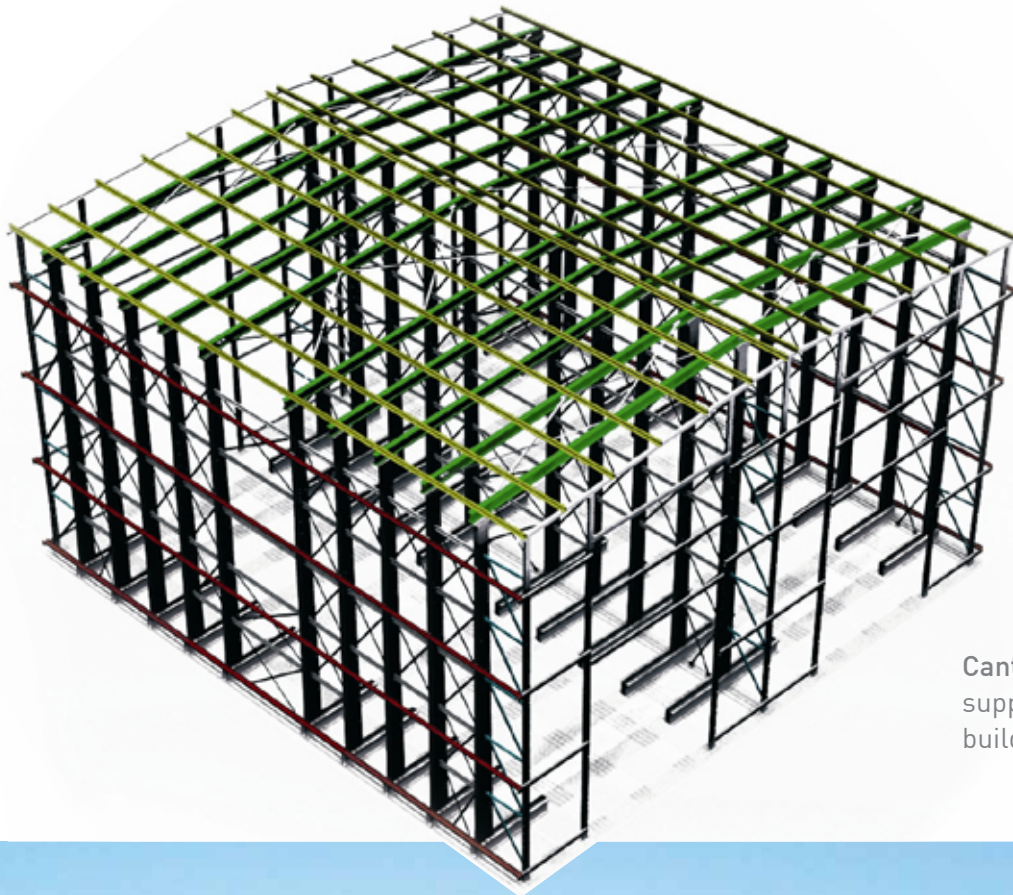


ETEM
BUILDING SYSTEMS

Medium and Heavy Duty Cantilever Racking for medium or heavy load handled mechanically with forklift truck or automatic stacker cranes.

Light Duty for manual storage of loads.






Cantilever Racking supporting the roof and building structure.



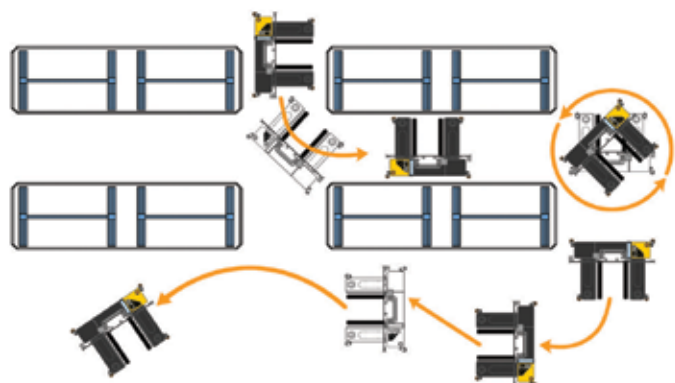
Outdoor Cantilever Racking with top arms supporting the roof construction

Cantilever with 4 way reach-truck forklifts



 Aluminium Greece

4 way directional reach truck
ideal for handling long goods
that need to be stored on
Cantilever racks.



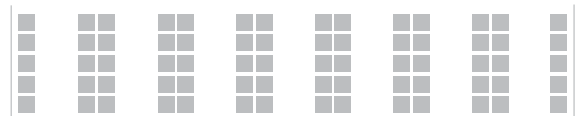
Mobile cantilever racking



System ideal for situations where the cost per square meter storage space or the operating cost of storage is high or limited.

The cantilever racks are mounted on motorized bases, minimizing the number of aisles.

Maximum storage density while maintaining access to each corridor.



Static cantilever with corridors



Storage space gained with mobile Cantilever **+42 %**



Increase in storage capacity through mobile Cantilever **+83 %**



The storage capacity doubles and reduces the potential cost of new buildings, as this system uses much more efficiently the available space.

Racks are moved using Radio Frequency technology and are fitted with a range of safety features, meeting European Standards.

Solutions for storing aluminium dies



All extrusion manufacturers face the problem of storing their aluminium extrusion dies. Pebro came up with a very smart and economical solution.

2 tier or 3 tier installation with inclined shelves.





Dies are stored vertically one next to the other on a backward inclined shelf that doesn't allow the dies to roll out.

With a specially designed trolley the dies are removed from the shelf and are transported to the extrusion line.

Each die is identified by a magnetic label that is placed on the die and is removed every time the die goes in the extrusion machine. The racks are mapped and every die can be traced in the particular location.



Heavy duty cantilever racking for steel profiles

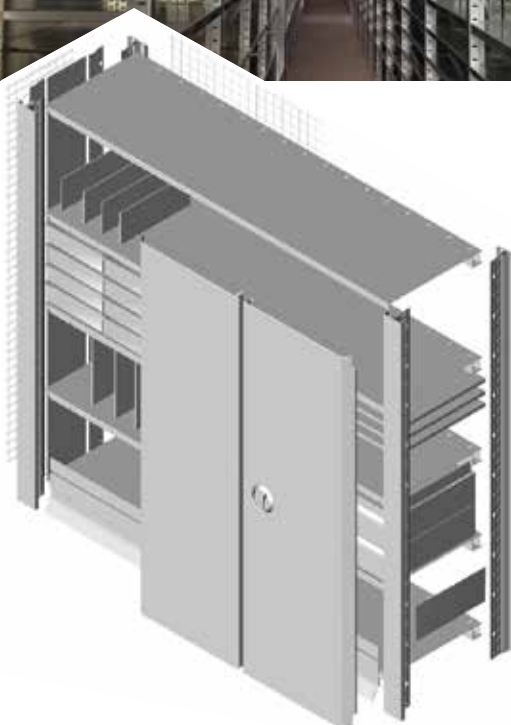


Other storage systems offered by Pebro



Pallet racking

System offers a wide range of accessories for storing smaller pallets, drums, cable reels, metal infill shelves ideal for picking etc.



Light duty shelving

Robust and flexible design, ideal for changing storage needs of small and medium-sized objects (files, parts, plumbing, machinery, electrical components, or other).



About us...

Pebro was founded in 1973 and has been operating for 45 years in the metal shelving production field. With a solid and ongoing presence in the Greek and foreign markets, Pebro is also working in different production areas such as metal display stands and heavy duty metal constructions.

Pebro is the pioneer Greek manufacturer for "CANTILEVER Racking.

The "CANTILEVER" is Pebro's number one product because of continuous research, development and tests in its manufacturing.

Pebro is an experienced company which features cutting-edge production systems.

Pebro is certified with EN ISO 9001:2000 quality.

PEBRO - Petroyannis Bros

27 Ag. Sofias str
19300 Aspropirgos, Attiki Greece

Tel.: +30 210 5595360 +30 210 5595963

Fax: +30 210 5595958

e-mail: info@pebro.gr

www.pebro.gr