

# **KIMER**

We create space



Since 1963



## **Kimlever**



## Advantages

Adaptability

Thanks to its high modularity, **it can be used to store almost any product.**

Simple and economical assembly and maintenance

Its evolutionary and adaptable nature gives it great investment value.

Pivoting arm in the event of an impact, the arm lifts to prevent damage to the column.

## Description

An ideal system for storing long and irregularly shaped items such as bars, profiles, or wooden panels.

This system allows load levels to be placed on one or both sides of the column. **These levels are equipped with pivoting arms that can be lifted or adjusted according to the load.**



## Applications

Warehouses requiring specialized systems for handling long and/or irregularly shaped products.

Storage of loads that are difficult to palletize due to their shape.







Since 1963



## **KIMER** **ADVANTAGES**

- 1
- 2
- 3
- 4
- 5

### 1 Space saving

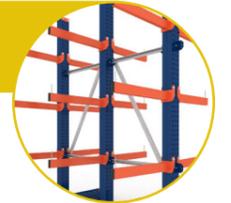
**Easily configurable racking systems to suit various heights and types of goods.**

Our technical department can also carry out personalized studies to develop the ideal racking layout for each warehouse.



### 2 Versatility

**Option to install single- or double-sided racks depending on storage needs.**



### 3 Easy assembly

**Elements designed and developed to combine simplicity and efficiency, enabling easy installation and facilitating future adaptations.**



### 4 Quality

Components made from high-quality steel profiles. **Only epoxy paint and galvanized bands are used to ensure superior corrosion protection and an excellent finish.**



### 5 Pivoting arm

**In case of impact, the force is not transmitted to the column as the arm lifts and can then return to its original position.**





## Finishes

### Galvanized

**Kimlever only uses galvanized steel of Z275 quality or higher.**

This level of quality contains more zinc, providing the best protection against oxidation under normal indoor conditions.



### Painted

**Kimlever only uses high-quality epoxy gloss paint.** We use state-of-the-art machinery to achieve excellent corrosion protection without sacrificing a uniform and aesthetic finish. Our automated robotic tunnels apply the following treatments:

#### Degreasing.

Phosphating: Kimlever does not use any polluting elements in this process

Rinse with tap water.

Rinse with demineralized water: Water used in our facilities is treated with reverse osmosis for reuse.

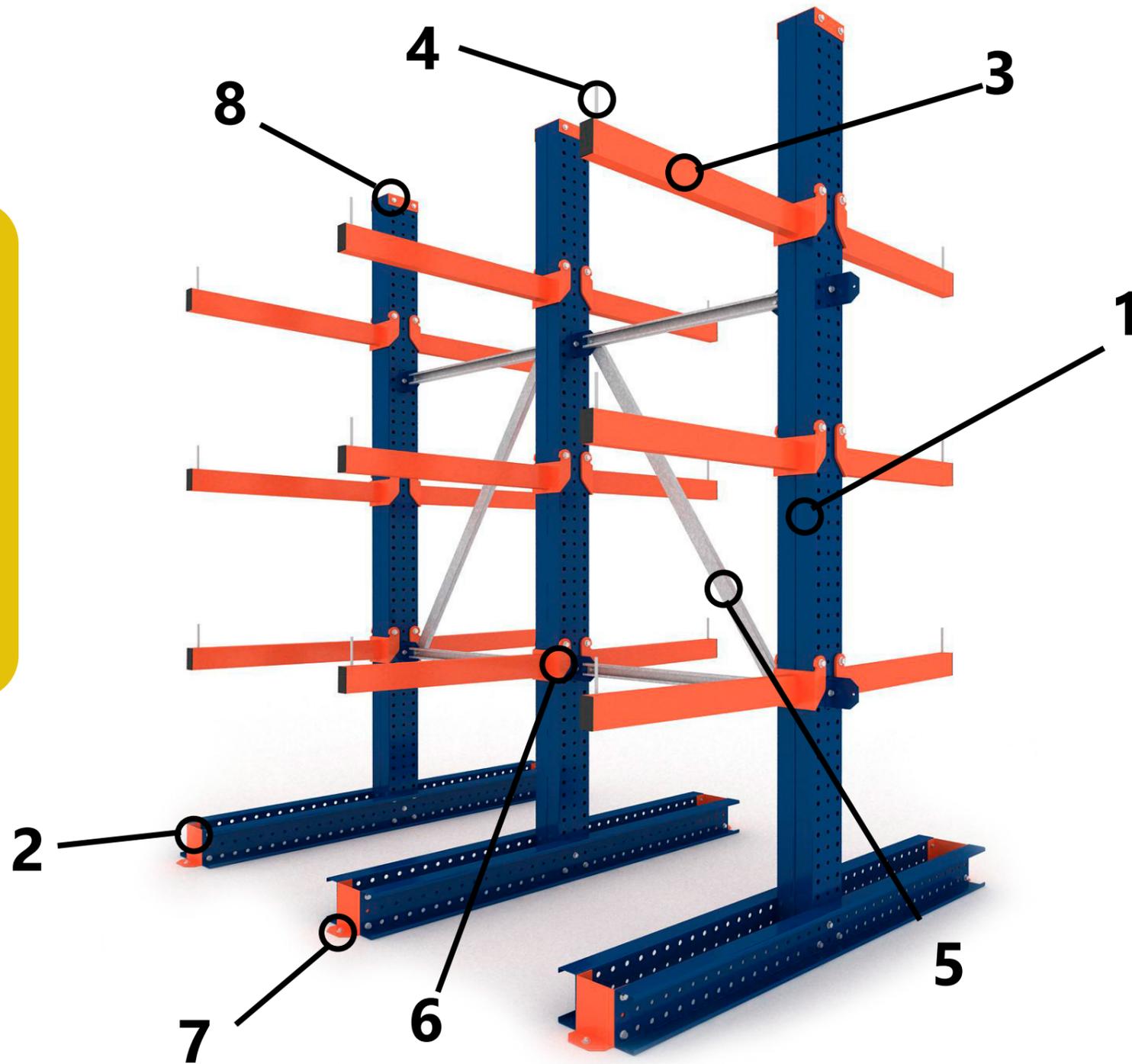
Painting with flame-retardant paint, class M-1 according to UNE-23.727-90, applied via electrostatic spraying.



<b>Bases and columns</b>		<b>Arms and protectors</b>	
	Blue RAL 5003		Orange RAL 2004
	Galvanized		

# System components

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- 1 COLUMN
- 2 BASE
- 3 ARM
- 4 ARM STOP
- 5 BRACING
- 6 ARM PIN
- 7 ANCHORS
- 8 COLUMN CAP

## R&D DEPARTMENT

Kimer works with the most advanced tools on the market, allowing us to meet even the most specific storage needs.

Our R&D team will develop the right solution for your warehouse requirements.



## Components

### Column

Kimlever columns act as the central axis of the system. The arms are mounted on them, transmitting the load to the ground.

They are custom-developed structural elements, adaptable in both height and load capacity, using K300 profiles for heavy loads and K150 for medium and light loads.

Available finishes:



Blue RAL 5003



Galvanized

### Base

Connects the column to the floor and anchors it using a base-to-floor fastening system. Two profiles are placed horizontally, with the column positioned between them.

The base-to-floor fastenings at the ends anchor the base to the ground, ensuring installation safety.

Available finishes:



Blue RAL 5003



Galvanized

Fastening finishes:



Orange RAL 2004



### Bracing

Braces the cantilever structure longitudinally. Depending on the load and forklift used, Kimer can adjust the distance between columns.

Available finishes:



Galvanized

### Arm

The arms are connected to the column using pins, allowing the arm to pivot upward. In the event of an impact, the force is not transmitted to the column.

Available finishes:



Orange RAL 2004



### Arm stop

Located at the outer end of the arm, the arm stop is highly recommended to ensure cantilever system safety by preventing stored items from falling.

Available finishes:



Galvanized





## Regulations

## Calculations

**Kimlever's cantilever systems are among the safest on the market**, as we apply the most stringent regulations. The key elements of the system are tested. For cantilever calculation, Kimer applies the following standards:

**FEM 10.2.09** Cantilever racking design.

**EUROCODE 3** Application and maintenance of storage systems.

### SAFETY & DEFLECTION COEFFICIENTS:

**Safety coefficient:** 1.4

Allowable deflection on the last load level.

$$\delta = \frac{H}{100+H^2 / 2000000} \quad (\text{where } H \text{ is in mm})$$

Allowable deflection at the end of the arms: L/200.



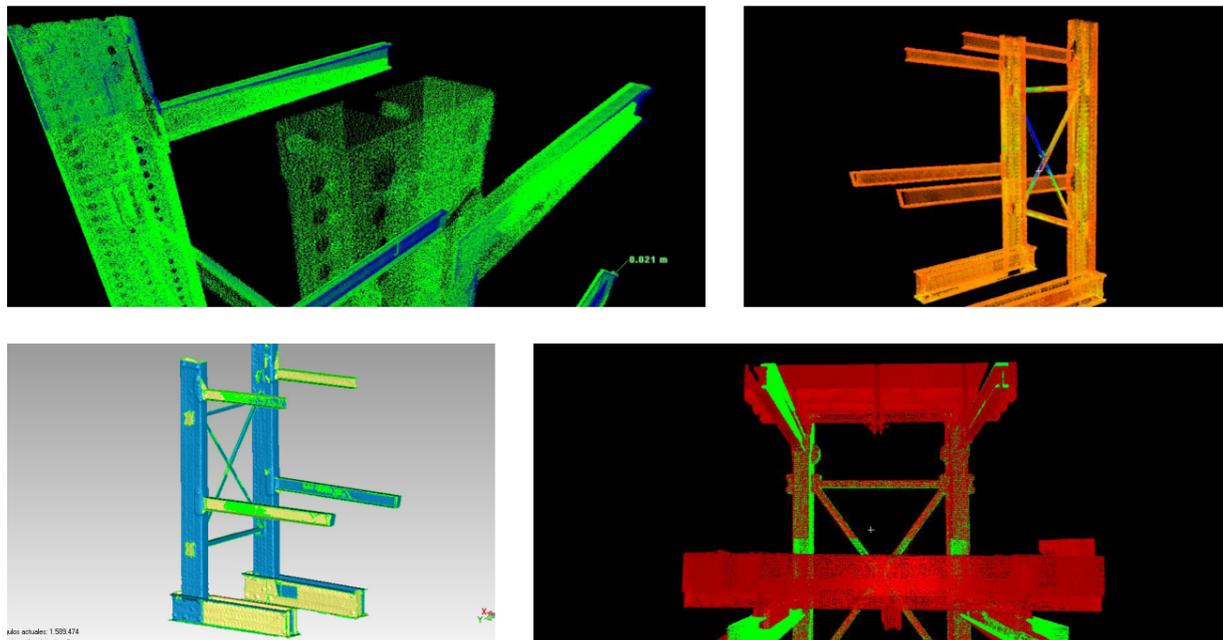
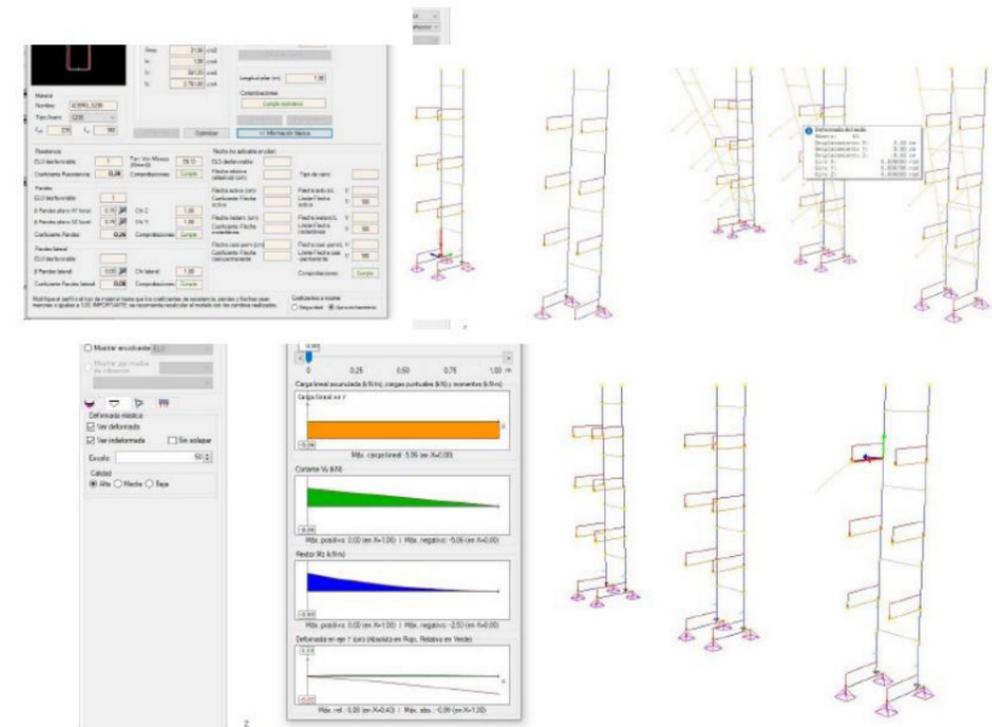
**In cantilever racking calculations, several factors must be considered to ensure total safety.** This requires studying both the structure itself and performing tests on the components and materials used in manufacturing.

The structural calculation process is mainly divided into two stages:

► **Structure analysis.** Verifies the stability of the installation and its components, with special attention to the behavior of the upright connections (with both the beam and the floor).

**Component analysis.** Each structural component is individually verified in this phase.

We must also take into account other factors that may influence the structure, such as its own weight or the weight of its load.



IMAGES OF THE TECHNICAL SOFTWARE TO CALCULATE OUR **KIMER STRUCTURES**

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## REASONS TO CHOOSE **KIMER**

### QUALITY

**Kimer** only uses certified high-quality steel to manufacture its products. We are ISO 9001 quality certified.

### SERVICE

Our engineering department will design your storage system tailored to your needs, providing the best possible solution.

### GUARANTEE

**Kimer** is a member of FEM and applies the strictest standards throughout the entire product development process. We are also EN 1090 certified, allowing us to CE-certify self-supporting structures.

### PRODUCT RANGE

**Kimer** manufactures everything from light-duty systems to complex engineering installations, such as self-supporting structures. We offer storage systems to suit all needs.



## REASONS TO CHOOSE **KIMER**

### PRICE

**Kimer** manufactures all of its products, which allows us to offer the best value for money on the market.

### DURABILITY

Designed and built to last.

### EXPERIENCE

**Kimer** has been designing and manufacturing storage systems for over 60 years. This extensive experience is at your service.

### ENVIRONMENTAL CARE

**Kimer** is committed to the sustainability of our planet and holds ISO 14001 environmental certification.

### CUSTOMER SERVICE

**Kimer** has a professional sales team ready to advise and assist in any of your requirements.



# THE BRAND

At Kimer, we have been designing and manufacturing storage systems for over 60 years.

We work every day to help you make the most of your space. We manufacture all types of storage racking systems, applying the same dedication and enthusiasm to every project, regardless of its size.

Everyone at Kimer is confident in our ability to help you find everything you need for your new warehouse installation.

If you want to learn more about our company or our products, these QR codes will take you to our website and our corporate video, respectively.



WEBSITE QR



VIDEO QR

# HISTORY



When Kimer opened its first factory in Quart de Poblet in 1963, it contacted local artist **Nassio Bayarri** to create a piece that would reflect the company's image and aspirations.

As a result, Nassio created the artwork that now crowns our façade, made from our very first product: the slotted angle profile. The piece represents the Moon landing, and was completed in 1968. Apollo 11 landed on the Moon in 1969—one year after Kimer installed this sculpture. From that moment until today, Kimer has remained at the forefront of technology and development.

Looking to the future, **Kimer** continues to focus on growth based on quality, environmental awareness, and technological innovation.

# R&D DEPARTMENT

At **Kimer**, we have an R&D department that designs all our products using the most advanced structural analysis software.

We study stress, deformation, and tension distribution to ensure our installations are **100% safe** while offering **the most competitive prices**.

To validate our calculations, the main components of our products are tested for breakage, deflection, and fatigue, both internally and by independent laboratories.



# KIMER QUALITY



### EN 1090 Certification

Kimer is certified to issue CE marking for self-supporting structures. This standard includes regular testing of welding penetration on both robotic and manual welds.

### ISO 9001 Certification

Ensures ongoing quality controls and the traceability and registration of our products.



All our products are 100% manufactured by Kimer.

We use only certified premium-grade steel.

We guarantee full traceability of all components.

100% Spanish manufacturing.

We apply the most rigorous design standards on the market.

Our key components are regularly tested by independent, highly regarded laboratories.

We do not use harmful components in our painting processes.

We recycle all process water using reverse osmosis.

We treat contaminated elements via pyrolysis for later recycling.



# ENVIRONMENT

# FAMILY-OWNED COMPANY

At Kimer, we are deeply aware of the current environmental crisis and strive to be part of the solution.

That's why we are committed to the following actions:

- ▶ A 714 kWp solar self-consumption installation, preventing the emission of 400 tons of CO<sub>2</sub> per year.
- Eliminating all harmful components from our painting processes.
- Recycling all water used in our production through reverse osmosis.
- Pyrolysis treatment of contaminated elements for responsible recycling.
- Minimizing natural resource use and the generation of hazardous waste.

**KIMER HOLDS  
ISO 14001  
ENVIRONMENTAL  
CERTIFICATION**



At Kimer, we take great pride in being a **family business**. For over 60 years, we have evolved and adapted to changes in the market, always maintaining strong values and a family-oriented culture. This allows us to offer **close, personalized** service and find the right solution for every client.

**We are truly proud to be what we are: a family company.**

# INTERNATIONALIZATION

# TECHNOLOGY



Today, Kimer exports **80% of its production to over 45 countries.**

Our experienced commercial and logistics team allows us to meet both national and international demands in a constantly evolving industry.

Currently, Kimer operates two production plants totaling over 25,000 square meters, with a production capacity of 55,000 tons per year.

At Kimer, we use the latest technologies in the manufacturing of steel profiles. Our state-of-the-art CNC roll forming machines deliver clean cuts and precise punching.

We apply robotic welding controlled by artificial vision systems to ensure clean, uniform welds with virtually no spatter. We also have in-house laser cutting technology (for both tubes and sheets), allowing us to develop custom accessories to meet all our clients' needs.

With automated painting booths, we apply epoxy coatings that give our products high chemical resistance to corrosive substances, along with a high-quality aesthetic finish.

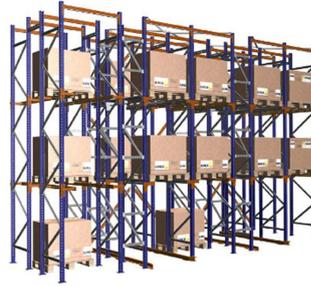
# KIMER Products



Picking



Easy rack



Compact Pallet Racking



Mezzanine



Pallet racking



Lockers



Slotted angle

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**KIMER**

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Since 1963

Website



Corporate video



Official dealer