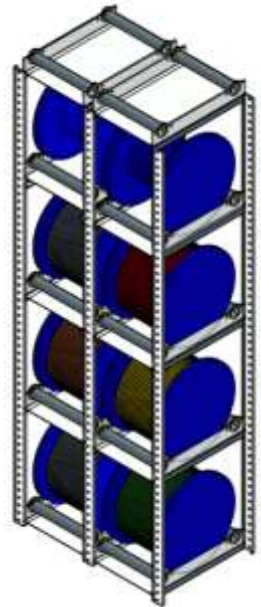
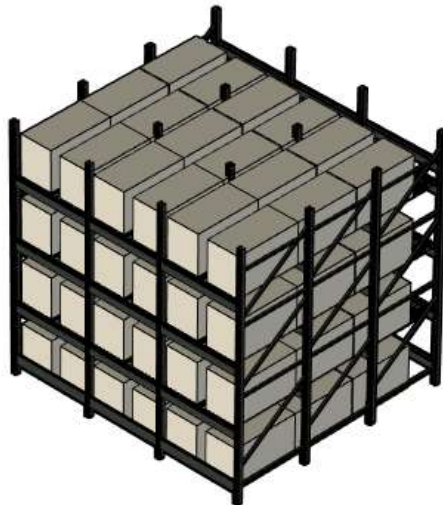
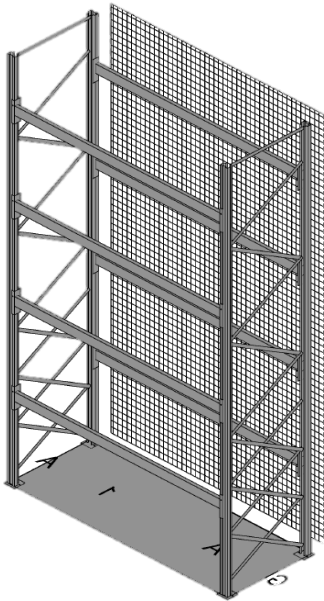


# 4 LEAN



4 | Warehouse

Vol. XII

We Build Lean

# Index

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# About us

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4Lean is a company dedicated to the creation and implementation of Lean solutions. We have a vast knowledge in Lean, we are able to implement a full supply chain with our vast portfolio that is developed in our Lean Lab.

All organization practice Lean everyday. We have regular training in Lean and we participate in Kaizen Events to understand customer needs.

We believe our *gemba* is at customer site, we are a natural extension of your organization.

4Lean é uma empresa dedicada à criação e implementação de soluções Lean. Temos um vasto conhecimento em Lean, somos capazes de implementar uma cadeia de fornecimento completa com o nosso vasto portfólio que é desenvolvido no nosso Laboratório Lean.

Todos na organização praticam Lean diariamente. Temos uma formação regular em Lean e participamos em eventos Kaizen para entender as necessidades dos clientes.

Acreditamos que o nosso *gemba* está à vista do cliente, somos uma extensão natural da sua organização.

4Lean è una società dedicata alla creazione e implementazione di soluzioni di Lean. Abbiamo una vasta conoscenza in Lean e siamo in grado di implementare una catena di approvvigionamento grazie alla nostra vasta gamma sviluppata nel nostro Lean Lab.

Tutta la nostra organizzazione, pratica Lean tutti i giorni. Abbiamo formazione regolare in Lean e partecipiamo a cantieri Kaizen, eventi per capire al meglio i nostri clienti.

Crediamo che il nostro *gemba* è presso il cliente, siamo una naturale estensione della vostra organizzazione.

4Lean es una empresa dedicada a la creación e implementación de soluciones de Lean. Contamos con un amplio conocimiento en Lean, somos capaces de implementar una cadena de suministro completa con nuestro amplio catalogo que se desarrolla en nuestro Laboratorio de Lean.

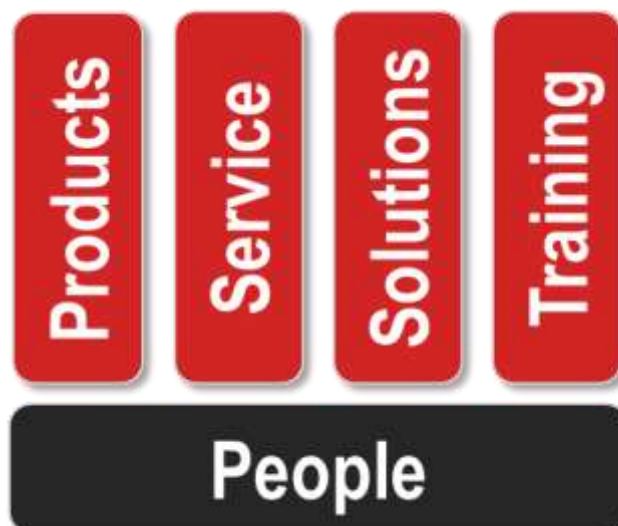
Todos en la organización practicam Lean diariamente. Tenemos una formación regular en Lean y participamos en Kaizen Eventos para entender las necesidades del cliente.

Creemos que nuestra *gemba* está en el sitio del cliente, somos una extensión natural de su organización.

4Lean est une société dédiée à la création et la mise en œuvre de solutions Lean. Nous avons une vaste connaissance dans Lean, nous sommes capable de construire une chaîne d'approvisionnement complète avec notre vaste portefeuille qui est développée dans notre Lean Lab.

Tout l'organisation pratique Lean quotidienne. Nous avons régulièrement des formations Lean, nous participons à chantier Kaizen pour comprendre les besoins des clients.

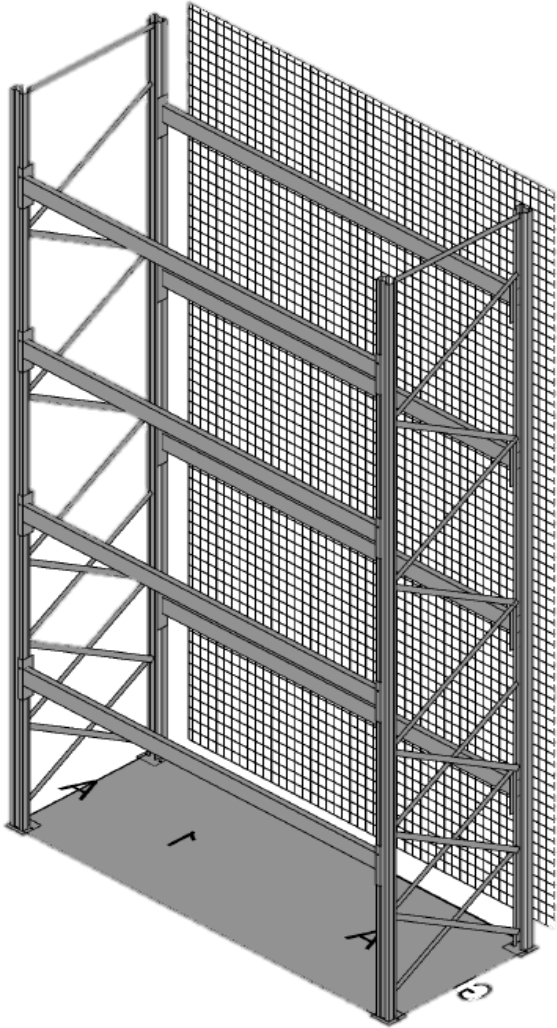
Nous croyons que notre *gemba* est le site du client, nous sommes un prolongement naturel de votre organisation



**We Build Lean !**

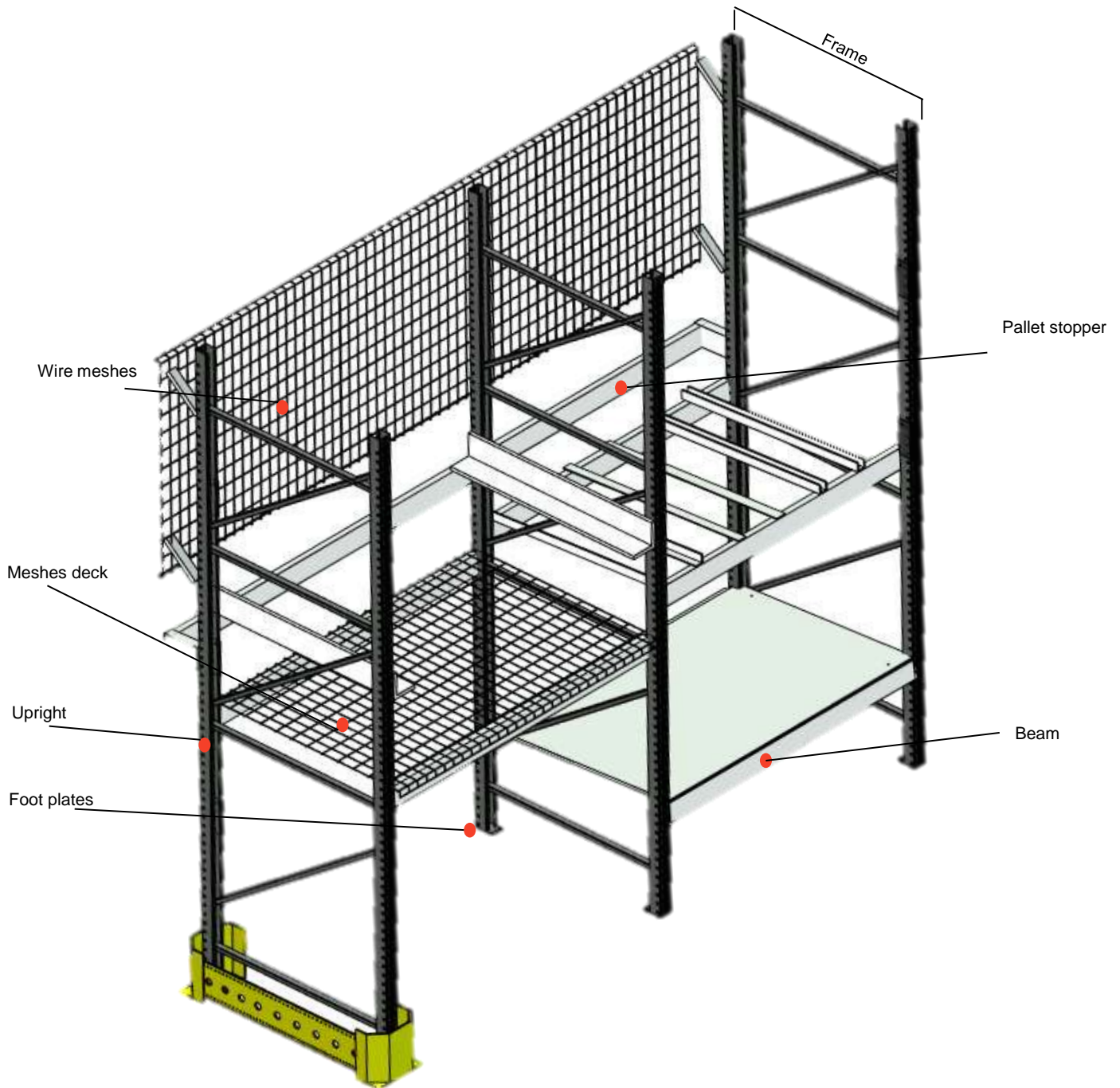
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# 4 | Warehouse



# Pallet racking system

| Sistema de estantes para paletes | Sistema di scaffalature per pallet | Sistema de estanterías de palets | Système de rayonnage à palettes|





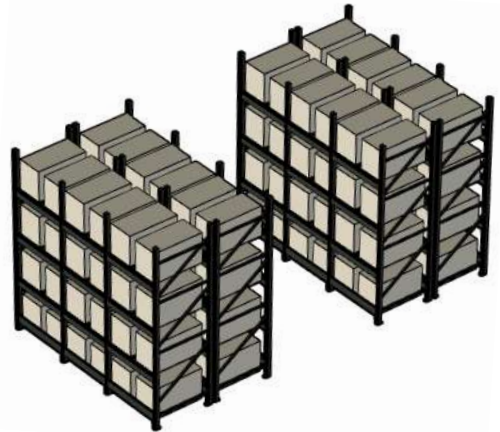
# Pallet racking system

| Sistema de estantes para paletes | Sistema di scaffalature per pallet | Sistema de estanterías de palets | Système de rayonnage à palettes|

## Standard Pallet Racking

### Characteristics

- No restrictive ordering system
- Unrestricted access to all pallets
- Suitable for all types of storage media



## Narrow-aisle high-bay racking

### Characteristics

- The space-saving option if floor space is limited
- Maximum storage capacity
- Fast accessibility and quick order-picking
- Straight from the pallet



## Drive-in racking

### Characteristics

- The ideal for storing large quantities of the same type of goods
- Your existing space can be used up to 90% more effectively than with conventional pallet storage systems



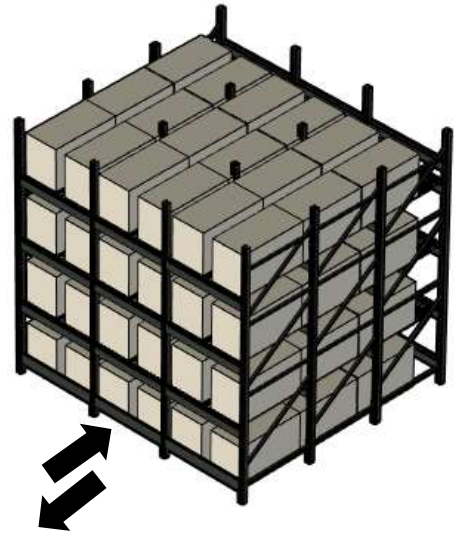
# Pallet racking system

| Sistema de estantes para paletes | Sistema di scaffalature per pallet | Sistema de estanterías de palets | Système de rayonnage à palettes

## Push-back Racking

### Characteristics

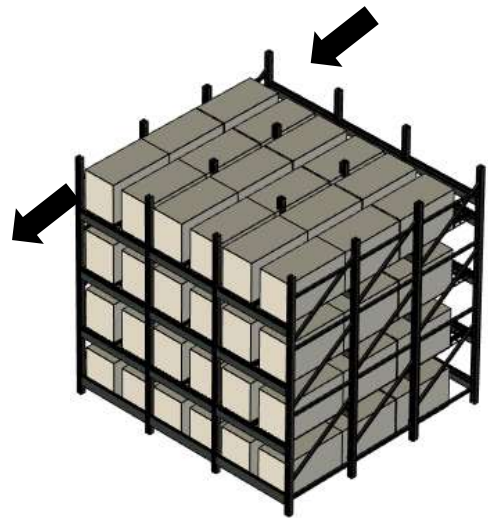
- Especially suitable for storing goods in large quantities
- Fewer operations, shorter distances and an increase in storage capacity of up to 75%



## Push-through racking

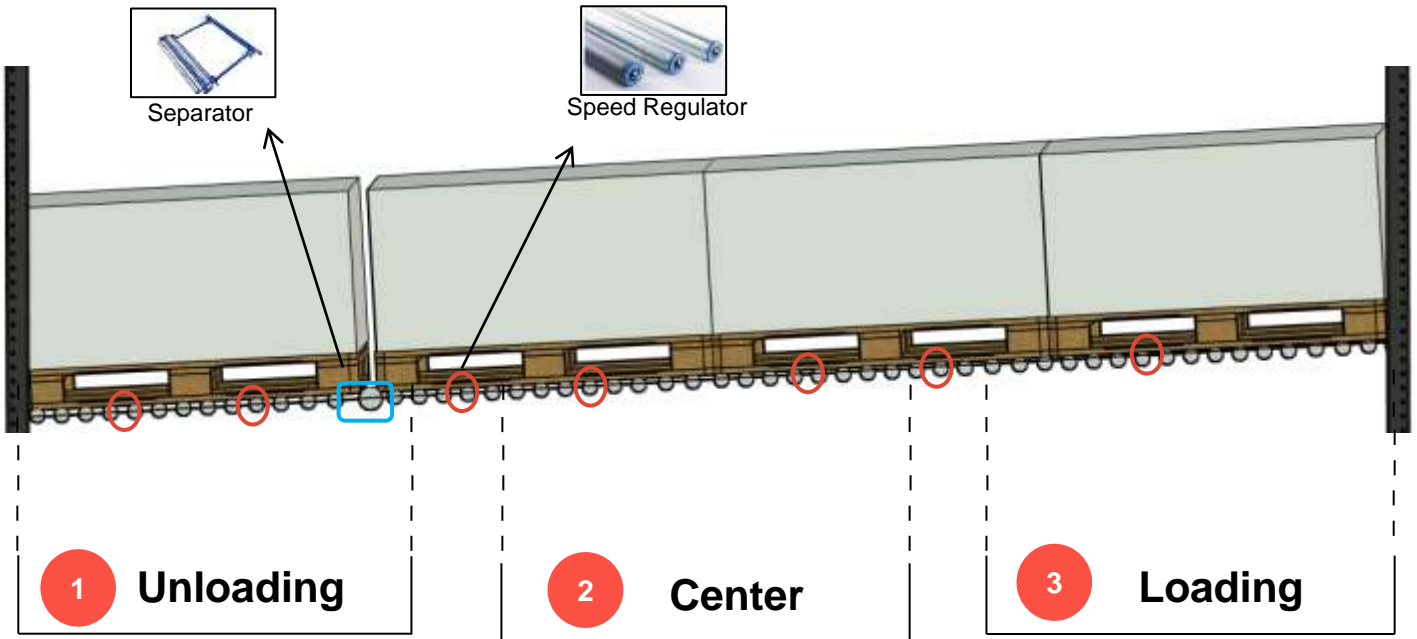
### Characteristics

- High rate of turnover and fast access to goods
- Since no more than two lanes are needed, this option requires up to 60%
- Less space than a conventional pallet stacking warehouse



# Pallet Flow - Flow System

| Fluxo de paletes | Flusso di pallet | Flujo de paletas | Flux de palette |



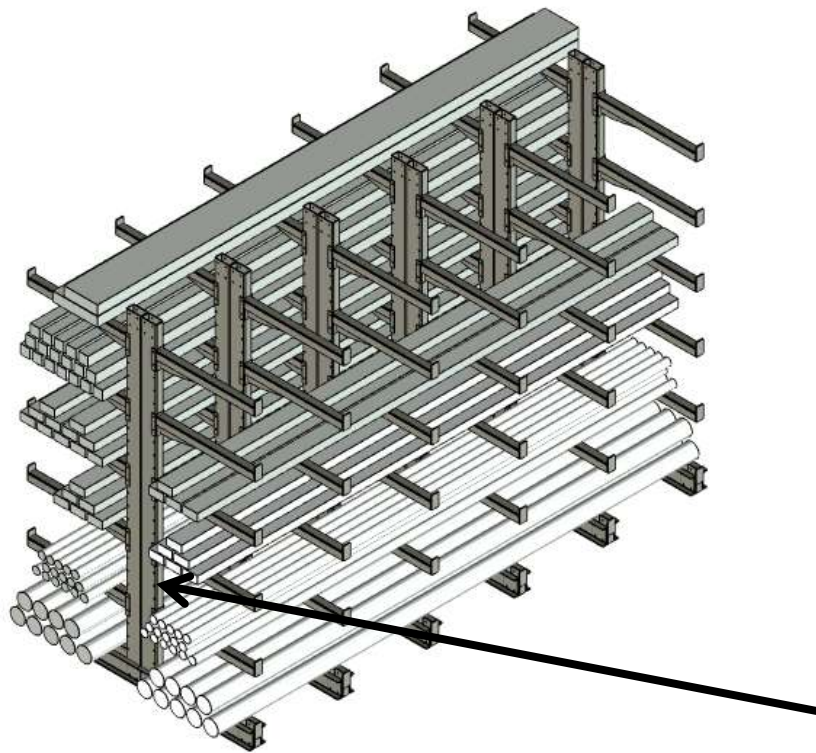
Flow System		
	Description Descrição/ Descrizione Descripción/ La description	Image of the Product Imagem do Produto / Immagine del prodotto Imagen del producto / Image du produit
1	<b>Loading element divided</b> Elemento com rolos divididos   Elemento di caricamento diviso   Elemento de carga dividido   Élément de chargement divisé	
	<b>Loading element with full width rollers</b> Elemento de carregamento com rolos de largura total   Elemento di carico con rulli a larghezza piena   Elemento de carga con rodillos de ancho completo   Élément de chargement avec rouleaux pleine largeur	
2	<b>Center element</b> Elemento central   Elemento centrale   Elemento central   Élément central	
3	<b>Unloading element with full width rollers</b> Elemento de descarga com rolos de largura total   Elemento di scarico con rulli a larghezza piena   Elemento de descarga con rodillos de ancho completo   Élément de déchargement avec rouleaux pleine largeur	
	<b>Unloading element with divided rollers</b> Elemento de descarga com rolos divididos   Elemento di scarico con rulli divisi   Elemento de descarga con rodillos divididos   Élément de déchargement à rouleaux divisés	
	<b>Unloading element on floor</b> Elemento de descarga no chão   Elemento di scarico sul pavimento   Elemento de descarga en el piso   Élément de déchargement au sol	



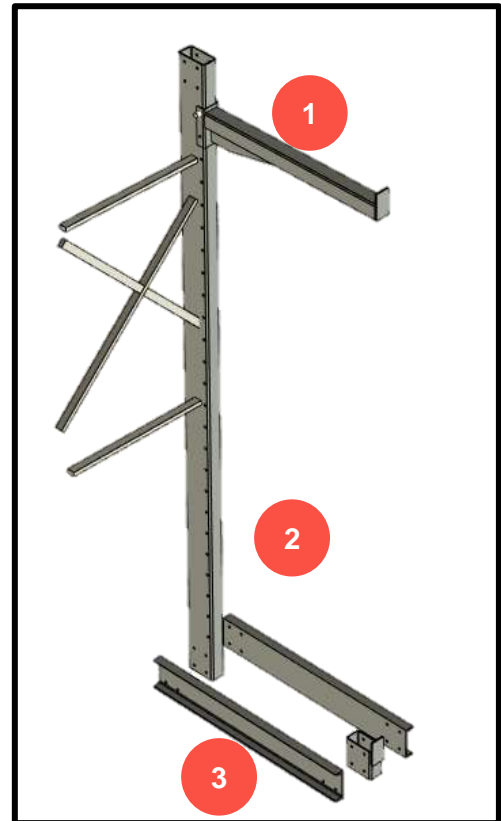


# Cantilever

| Cantilever | Cantilever | Cantilever | Cantilever |



**CUSTOMIZED SOLUTION**



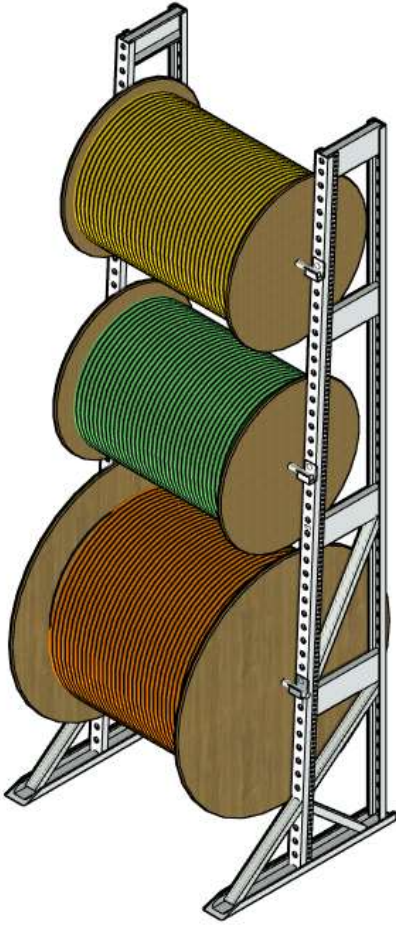
Cantilever		
Description Descrição/ Descrizione Descripción/ La description	Dimension (mm) Dimensions Dimensões / Dimensioni / Dimensiones / Dimensions	
<b>Arm</b> Braçol Braccio   Brazo   Bras	800 - 2000	1
<b>Column</b> Colunal Colonna   Columna   Colonne	3000 - 7200	2
<b>Base</b> Base   Base   Base   Base	2400 - 9400	3



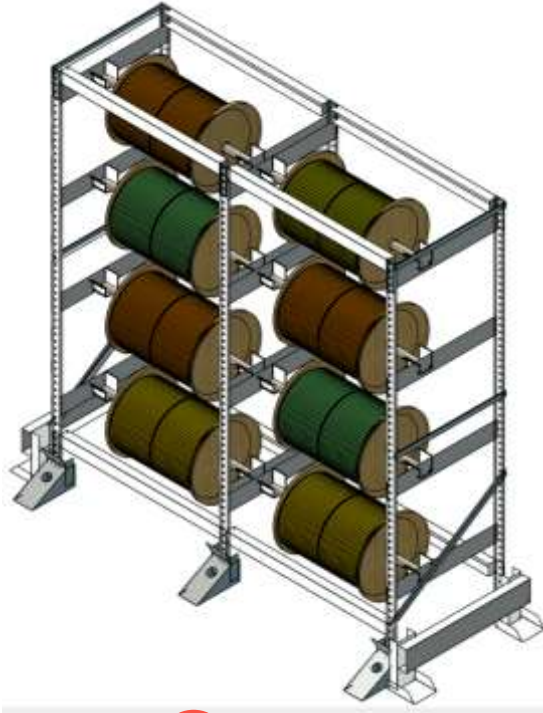
# Reels racking system

| Sistema de estantes para bobinas | Sistema di racking di bobine | Sistema de estanterías de carretes | Système de rayonnage à bobines |

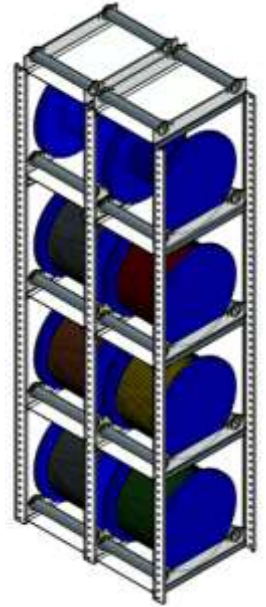
**CUSTOMIZED SOLUTION**



1



2



3

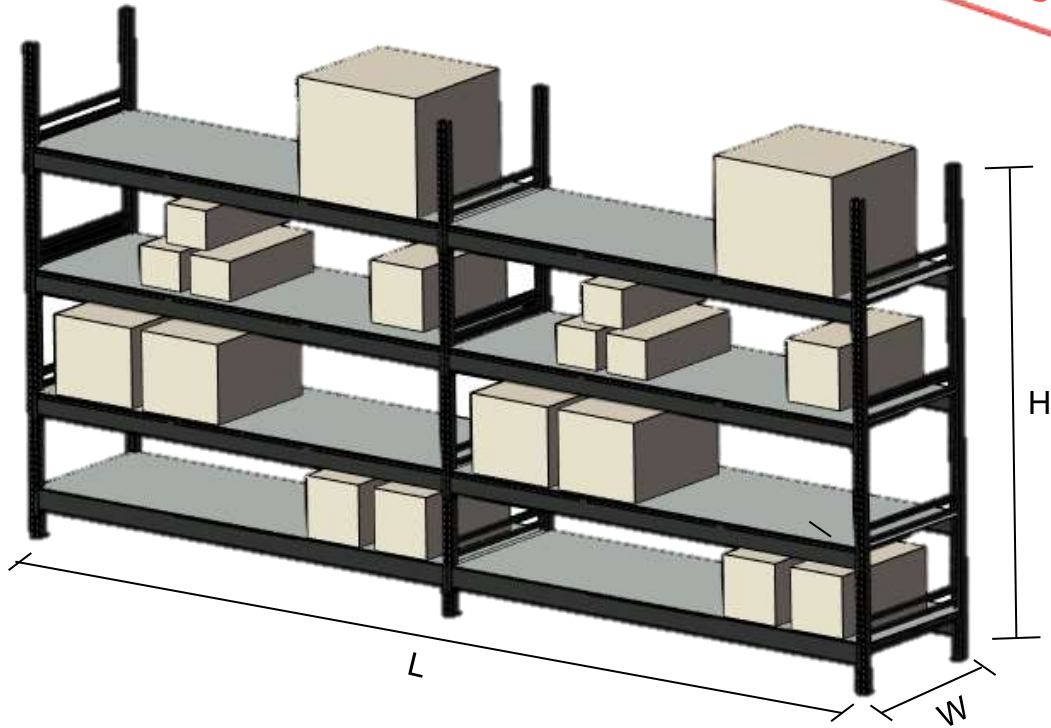
Reels Racking System		
Description Descrição/ Descrizione Descripción/ La description	Reels dimension Ø (mm) Dimensões bobinas Ø (mm) / Dimensioni di bobine Ø (mm) Dimensiones de carretes Ø (mm)/ Dimensions bobines Ø (mm)	
<b>Dynamic colector rack</b> Rack colector dinâmico   Rastrelliere priervo dinamico   Rack colector dinâmico   Rack collecteur dynamique	800-2500	1
<b>Light Rack</b> Rack ligeiro   Rastrelliere leggera   Rack ligero   Rack léger	630 máximum	2
<b>Dynimic picking shelving</b> Estantes de picking dinâmicas   Scaffalature di raccolta Dynimic   Estantería de recogida dinámica   Rayonnage de cueillette Dynimic	200-400	3



# Box racking system

| Sistema de estantes para caixas | Sistema di scaffalature a scatola | Sistema de estanterías de caja | Système de rayonnage à caisses

**CUSTOMIZED SOLUTION**

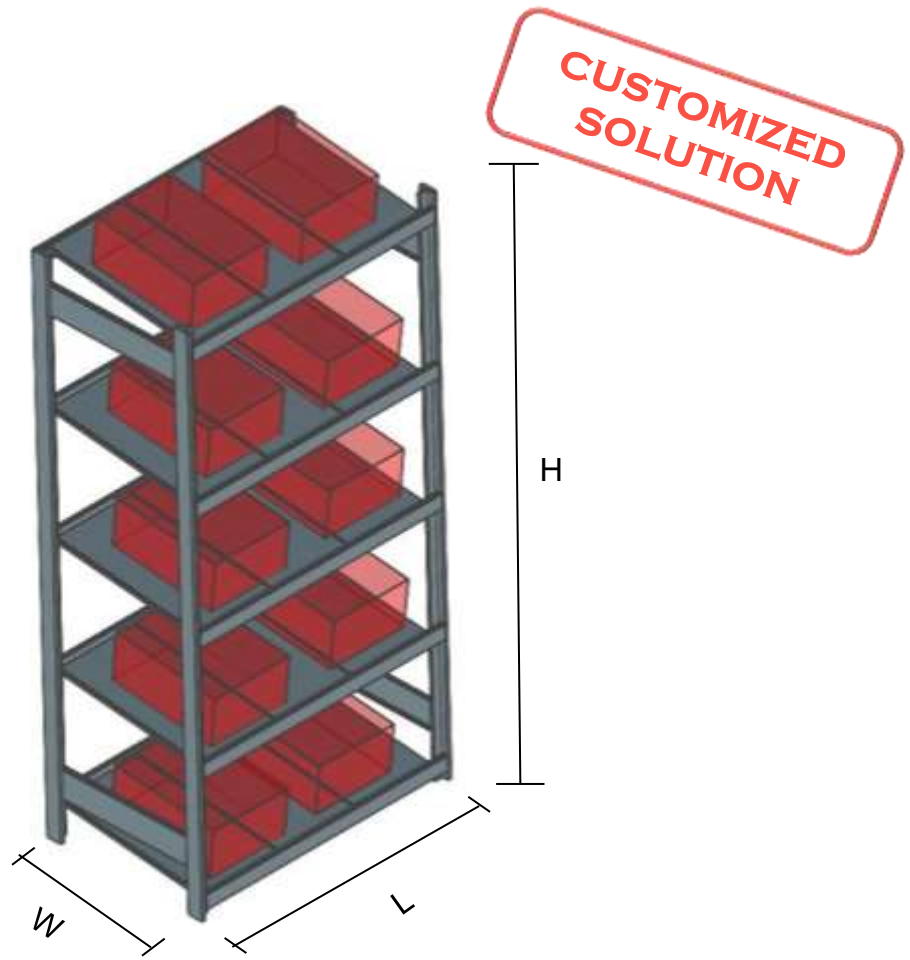


Box racking system		
Dimensions Dimensões / Dimensioni / Dimensiones / Dimensions		
H (mm)	L (mm)	W (mm)
1800 - 9000	900-2100	300-1200



# Box racking tilted system

| Sistema inclinado de estantes para caixas | Sistema inclinato per scaffalature scatole | Sistema de estanterías de cajas inclinadas | Système incliné de rayonnage à caisses



Box racking tilted system		
Dimensions Dimensões / Dimensioni / Dimensiones / Dimensions		
H (mm)	L (mm)	W (mm)
1800 - 9000	900-2100	300-1200



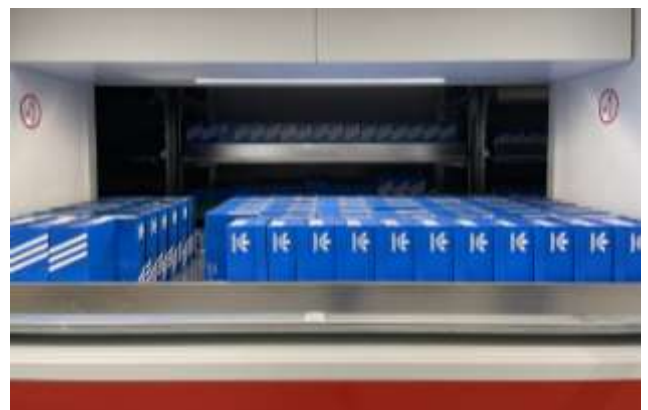


# Automated Warehouses

| Armazéns automáticos | Magazzini automatizzati | Almacenes automatizados |  
Entrepôts automatisés



**CUSTOMIZED  
SOLUTION**





# Shelves system designed to store sheets

|Sistema de prateleiras projetado para armazenar placas| Sistema di scaffali progettato per conservare i piatti| Sistema de estantes diseñado para almacenar platos|Système d'étagères conçu pour ranger les assiettes

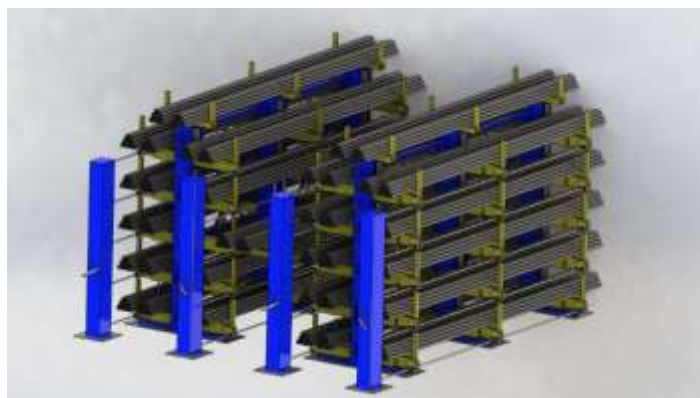
**CUSTOMIZED SOLUTION**



# Designed to store small quantities of material

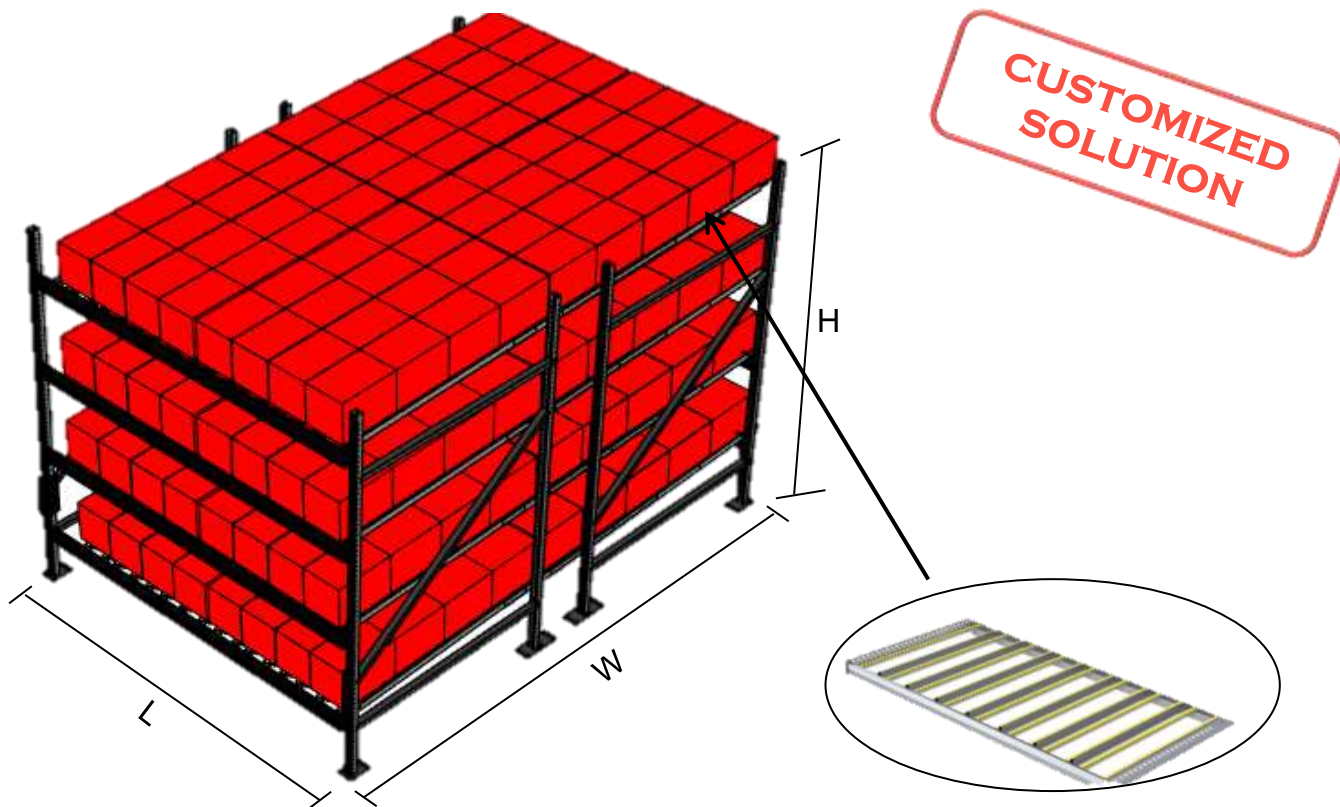
|Projetado para almacenar pequeñas cantidades de material| Progettato per immagazzinare piccole quantità di materiale| Diseñado para almacenar pequeñas cantidades de material  
|Conçu pour stocker de petites quantités de matériel|

**CUSTOMIZED  
SOLUTION**



# Carton Flow

| Fluxo de caixas | Flusso di cartone | Flujo de cartón | Flux de carton



## Standard Continuous Flow Bed

Elemento com rolos divididos | Elemento di caricamento diviso |  
Elemento de carga dividido | Élément de chargement divisé

Carton Flow		
Dimensions Dimensões / Dimensioni / Dimensiones / Dimensions		
L (mm)	W (mm)	H (mm)
1825	1200 / 2400	2000
2700		
3575		



# Notes

| Notas | Appunti | Notes

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# Notes

| Notas | Appunti | Notes

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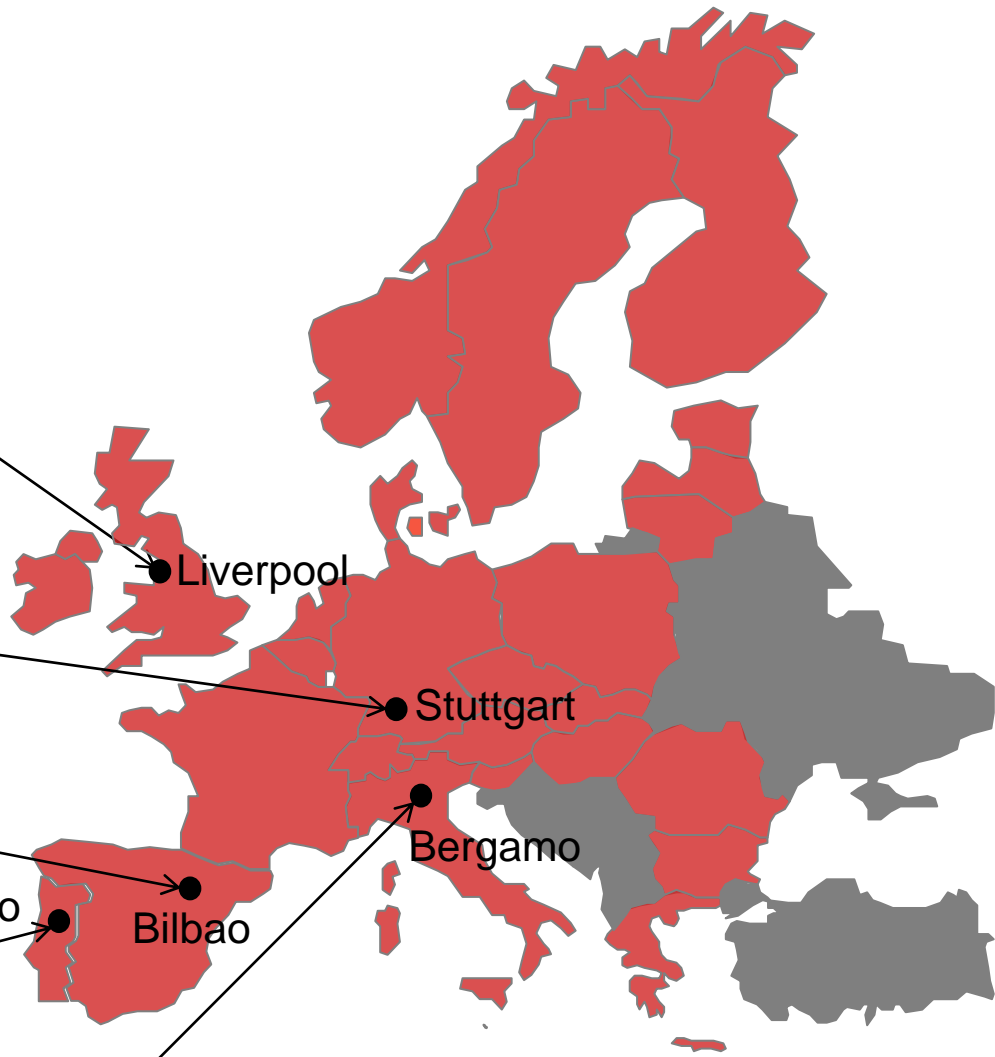
UK **LEAN**

DE **LEAN**

Iberia **LEAN**

**LEAN**

Italy **LEAN**



# Some of our clients

| Alguns dos nossos clientes | Alcuni dei nostri clienti | Algunos de nuestros clientes |  
Certains de nos clients

## Horeca Equipments



## Industrial and Agricultural Vehicles



## Power transmission



## Automotive



## Aeronautics



## Small Appliance



## E-Commerce & Warehouse



## Elevators



# We Build Lean

4Lean, Lda  
4lean@4lean.net  
www.4lean.net

# Some of our clients

| Alguns dos nossos clientes | Alcuni dei nostri clienti | Algunos de nuestros clientes |  
Certains de nos clients

## White goods

**POLIDORO**  
by arredo3

**sisme**

**METEOR**  
by arredo3

Whirlpool

**Electrolux**

**FABER**

## Bicycles

**SRAM**

**Maias**

**Micanda**  
The European Bike Fundamentals

**rte**

**ALUBIKE**

*Campagnolo*

**LOMBARDO**  
CC SRM

**ORBEA**

## Electrical

**ABB**

**CAME**

**bticino**

**efacec**

**OSRAM**

**WESTRAFO**

**EFAPEL**

**SIEMENS**

**simon**

## Electronics

**ALFA**  
ELECTRONICS

**TE**  
CARDIOLINE

**flex**

**KEMET**  
a YAGEO company

**CAREL**

**OLYMPUS**

**vision-box**

**VISHAY**

**ES**  
ELECTRONICS

## Fashion

**LVMH**  
LUXURY MANAGEMENT

**NIKE**

**YSL**

**YKK**

**SWATCH GROUP**

**BALLY**

**KERING**

## Process Industry

**Nestlé**

**BANCO DE PORTUGAL**  
SEGURIDADE

**NAVIGATOR**  
LOGISTICS

**Coca-Cola**

**thyssenkrupp**

**PESCANOVA**

**Tetra Pak**

**Recipharm**  
good for business

## Ventilation and refrigeration

**VERTIV**

**Parker**

**Swegon**

**EBT**

**kide**

**TROX** TECHNIK  
The art of handling air

**arneg**

**Keyter**

## WoodWorking

**IKEA**

**ALF**

**BRUGNOTTO**  
GROUP

**PIANCA**

**Arredo3**

**ernestomeda**

**TECNOFORM**

**Valcucine**

## Industrial Machines

**+GF+**  
GEORG FISCHER

**GEA**

**magic**  
MAGN APPLICAZIONI

**BOBST**

**salvagnini**

**MEGA**

**FRIUL**  
INTAGLI

**WAGNER**

# We Build Lean

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4lean@4lean.net  
www.4lean.net

# Some of our clients

| Alguns dos nossos clientes | Alcuni dei nostri clienti | Algunos de nuestros clientes |  
Certains de nos clients

## Services



## Healthcare



## Construction Components



## Coachworks



## HandTools



## Public Sector



**We Build Lean**

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4lean@4lean.net  
www.4lean.net