



GOLD WIND ENGINEERING (S) PTE LTD

# STAK STORAGE SYSTEM

HIGH EFFICIENCY

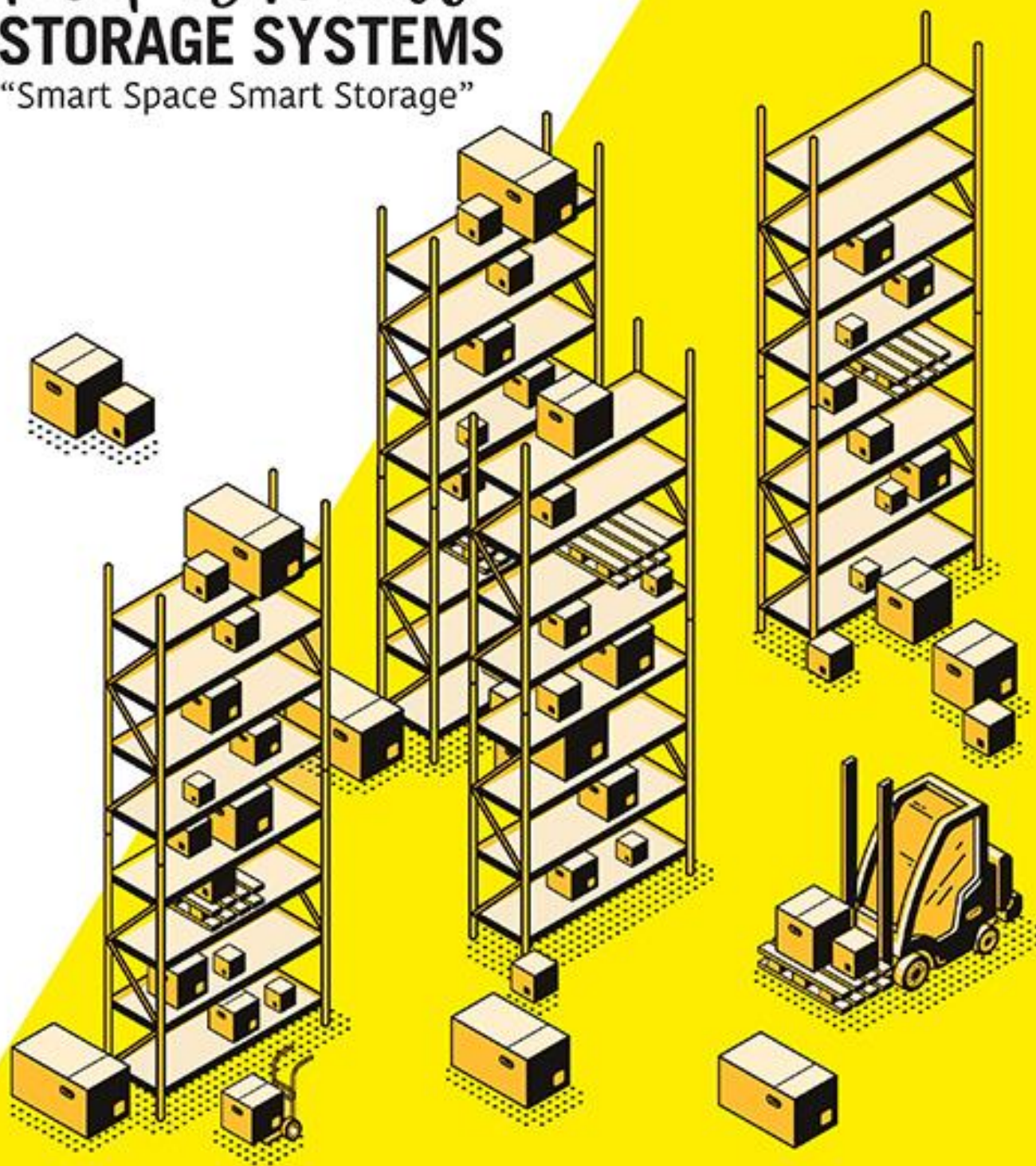
SPACE MAXIMUM

SMART SYSTEM

Industrial  
STORAGE SYSTEM  
"Smart Space Smart Storage"

## Industrial STORAGE SYSTEMS

"Smart Space Smart Storage"







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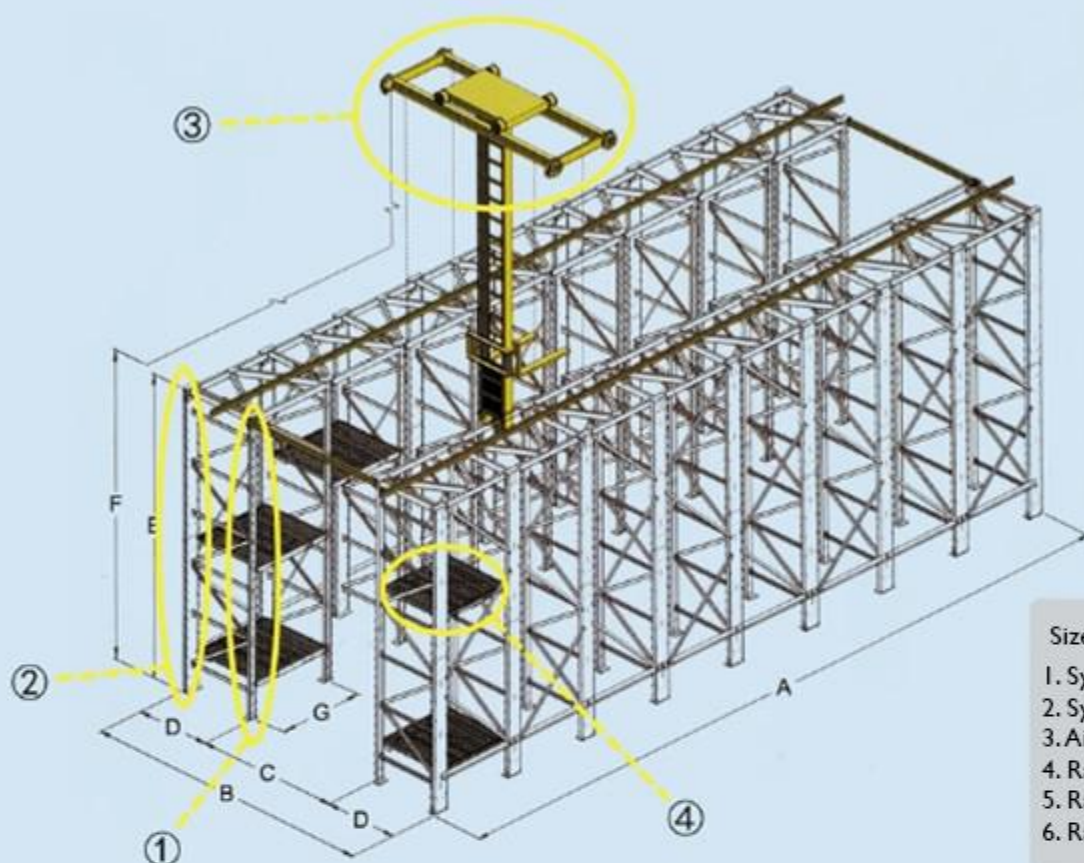
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Size Name :

1. System Length
2. System Total Width
3. Aisle Width
4. Rack Depth
5. Rack Height
6. Rack Entrance Width

## Product Description

STAK adjustable racking system. The Racking most important 4 parts on (1) front Post & (2) Back Support, (3) Skylift System, (4) Adjustable Tray to form up the whole system. Stak system fully maximum space high density storage. Each unit of storage space are fully use. No matter big or small, bulky or heavy load. It can make storing and finding large items easier than ever.

## Product Feature :

1. Fast retrieve storage in any size sharp & weight
2. Save space in every unit of vertical space. Reduce Floor space usage.
3. Value space to maximum your space use. Increase Productivity
4. High efficiency, 2 tons goods storage proceed only one man work requirement
5. Lifting and handling are ergonomically designed to make operation easier
6. Makes storage management easier, easily locates and finds access to goods
7. Accurate storage position, STAK system can adjust the tray every 100mm
8. Reduce fork lift access. Make workplace much safety. Skylift system do not required license controller.



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## BEFORE



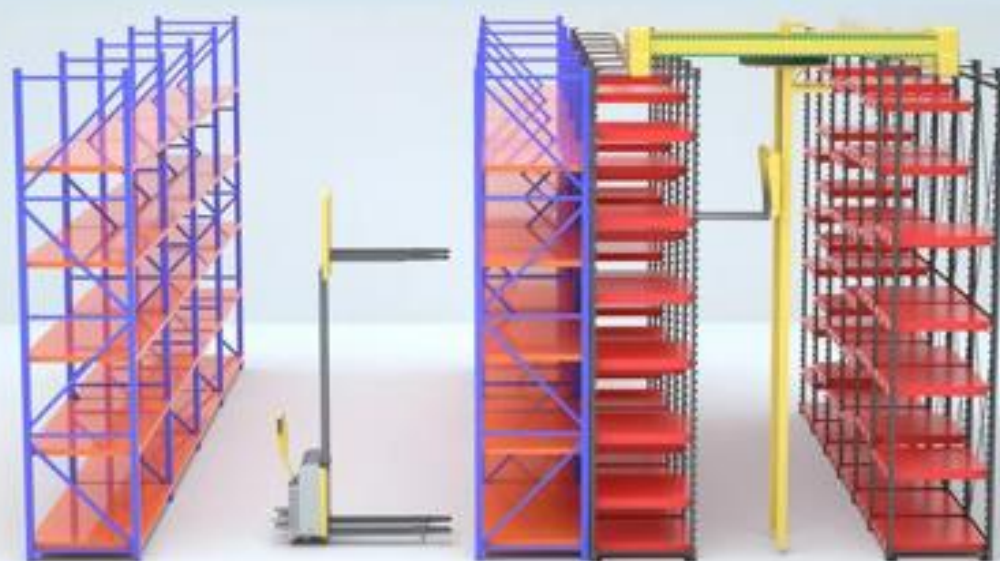
Gap Space Lost

## AFTER



Approx: 30~40% increased

The height of the storage space can be adjusted instantly, and the pallet storage height can be adjusted up and down by 100mm in real time when needed. By effectively arranging trays on adjustable shelves. Irregular goods of the same volume can be concentrated in the storage space, occupied about half of the before.



Due to the space requirements of the steering and driving space of the traditional forklift, the aisle width will be larger than 3.3 meters

The width of the aisle of the STAK three-dimensional shelf system can be as narrow as 2 meters, which maximizes the three-dimensional space. Save valuable floor space





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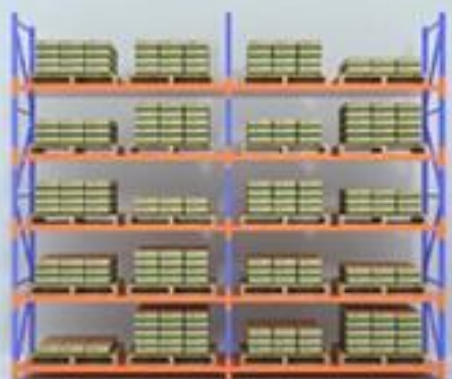
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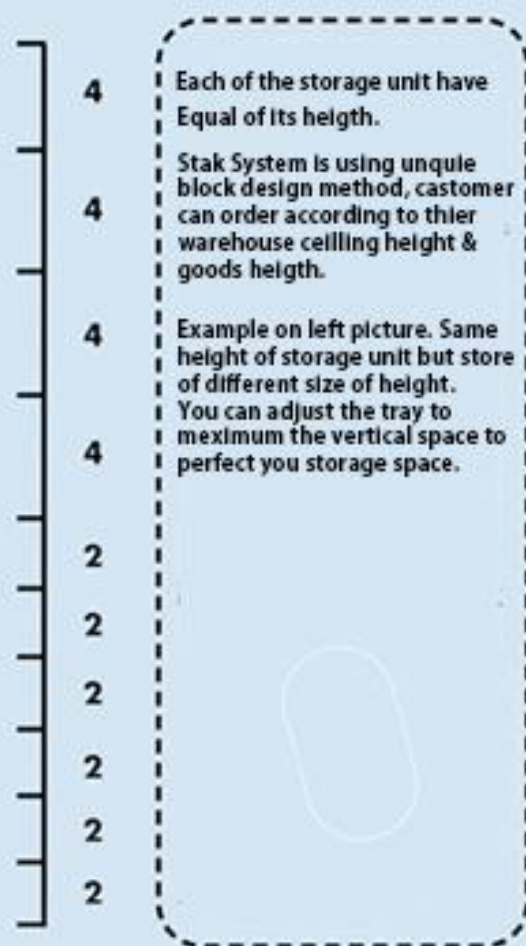
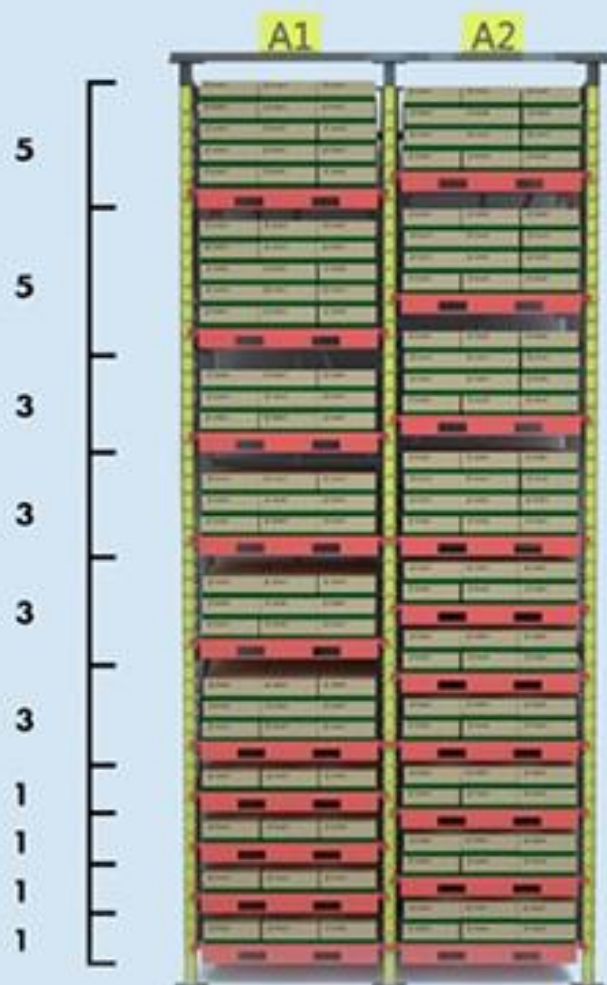
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CONVENTIONAL PALLET RACKING



STAK STORAGE SYSTEM





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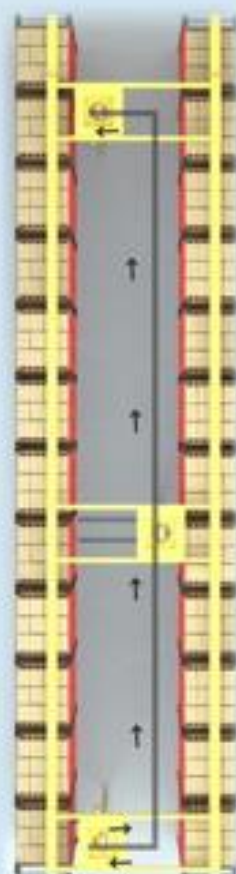
FORKLIFT OPERATION DIAGRAM

Forklifts need to take a lot of space and time to complete the turn during storage and adjustment, and there is a danger of damage the rack

Taking the figure on the right as a sample, a simple stock adjustment involves multiple reversing and turning steps, which wastes a lot of time.

The STAK crane system can perform in-situ rotation during the bay transfer process when accessing goods. Its excellent rotation structure supports the crane to perform 360 degree unobstructed rotation in place.

The diagram of the position adjustment route on the right can be clearly compared with the right.



SKYLIFT OPERATION DIAGRAM

Integrating the overhead crane system with the rack can make you more benefit from the adjustable STAK rack system.

It is equipped with a main bracket, a guide rail and an adjustable-pitch fork. Any operator needs only a small amount of training to use the crane system.





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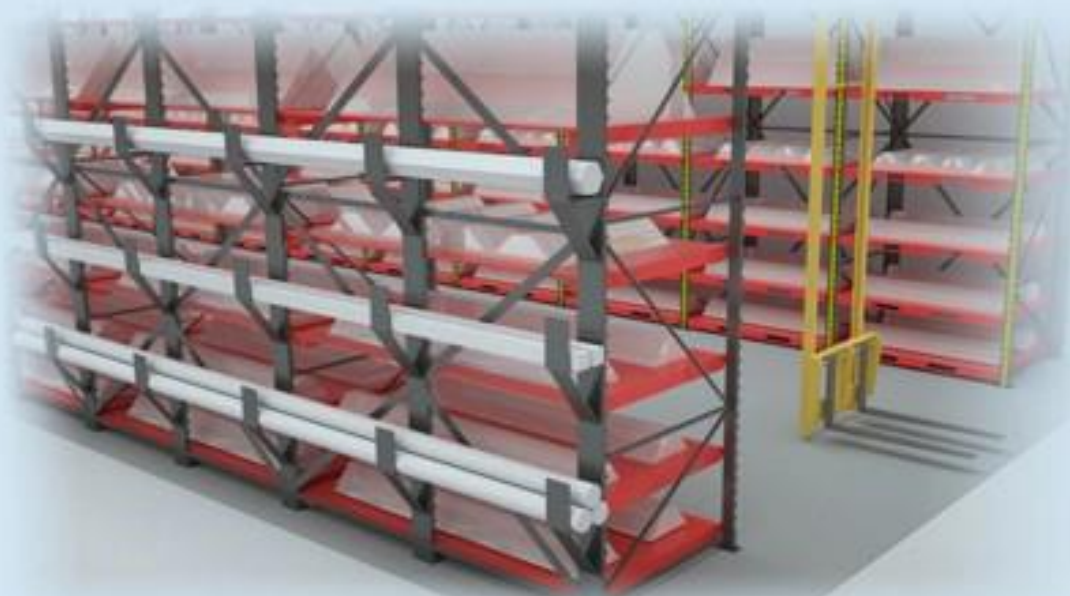
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At the back of the STAK Rack can add Cantilever Arm for long items storage.



The top of the rack can add rack position signage to identified rack location

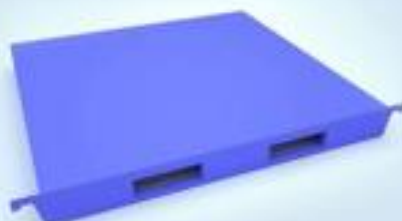


STAK Storage System using bolt & nuts connection with bracing. it's design for future easy dismantle and relocation work.



## LIGHT DUTY TRAY

This type mesh tray be hand adjustment ideally for small and light goods design load approx 225kgs per tray.



## STANDARD TRAY

This flat and smooth surface easy for irregular size of goods . its also easily combine other accessories.



## STANDARD MESH TRAY

This type of mesh storage allowing sprinkler water pass through each of the shelves.

To reduce the fire hazard to minimise level.



## HEAVY DUTY RED TRAY

This special design for heavy load, the bottom of the tray increase reinforcement bar and it's connector.

The thickness of the slot connector also difference from standard.



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## STANDARD STRUCTURE: SKYLIFT & STAK RACK SYSTEM

2 rows of STAK Racking with Skylift. This is basic of structure. The Planing layout fuffill most of the requirement. provided high density of storage space.



### Standard System

Diffrence combination  
Structure to suit client  
storage requirement

The following pages  
are explainting .







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## STRUCTURAL : COLLECTION OPENING

### Single Asile way opening



### Double Asile way opening



#### Collection Point

Maximum collection point width. can be desing one or more picking aisles.

Can be easy pick out for lift truck or AGV System



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## STRUCTURAL: CANTILEVER ARM SUPPORT.

Extended cantilever support:

STAK Rack both end can be extend  
1.3 meters for cantilever support

This allow skylift can be move further  
out for storage.



Extended cantilever support:

Single Side support Cantilever.

### Extended Cantilever

Difference combination  
design to meet client  
requirement of storage  
usage.

The next pages show few  
difference type of  
standard.

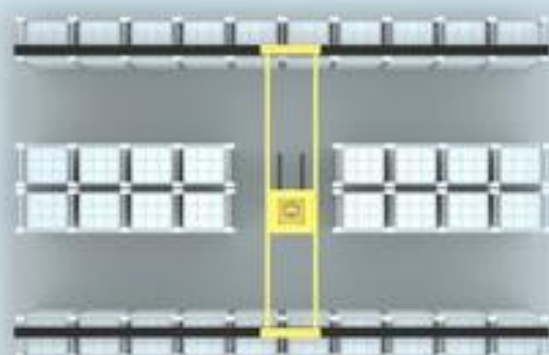




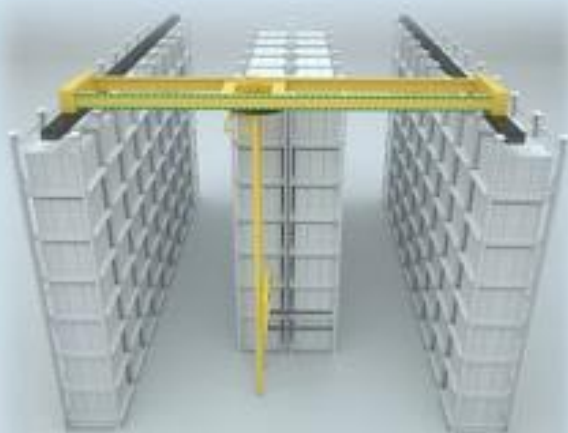


## STRUCTURAL: CHANGING AISLE

Center opening allow skylift change of aisle way



End Opening allow Picking or Packaging Area.



### Turning Aisle

Can be allow skylift. pick and transfer aisle.

- Don't need 2 Set Skylift.
- Reduce rack length
- reduce manpower



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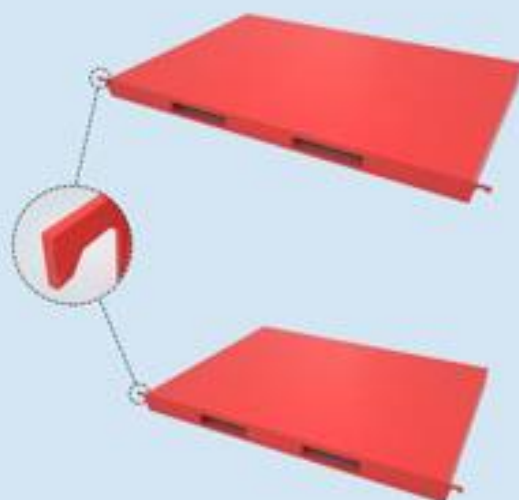
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## TRAY DESIGN

### Heavy Duty Tray

According to Industrial storage requirement. Our tray design sizes as following  
3000mm x 1500mm  
2000mm x 1500mm  
Loading: 2000kgs

Can be design according to your storage size  
Make to your standard.



## COLUMN DESIGN

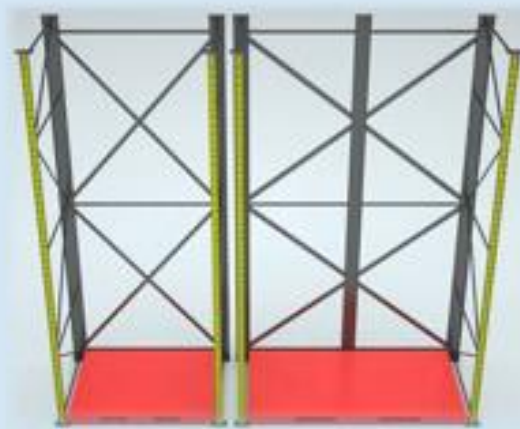
### Column

Storage Column Unit is base on tray size as standard. each column can be support up to 12 tons

Base on Tray size standard, rack depth is 1540mm and length is 2140 / 3140mm

Column height can be up to 5000mm

Come with Back Cross bar.







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## SINGLE OPENING AISLE

### Single Aisle Design

Storage Rack with 5 section  
column 0.8Meter x 0.8 Meter

There is two section of  
opening width.

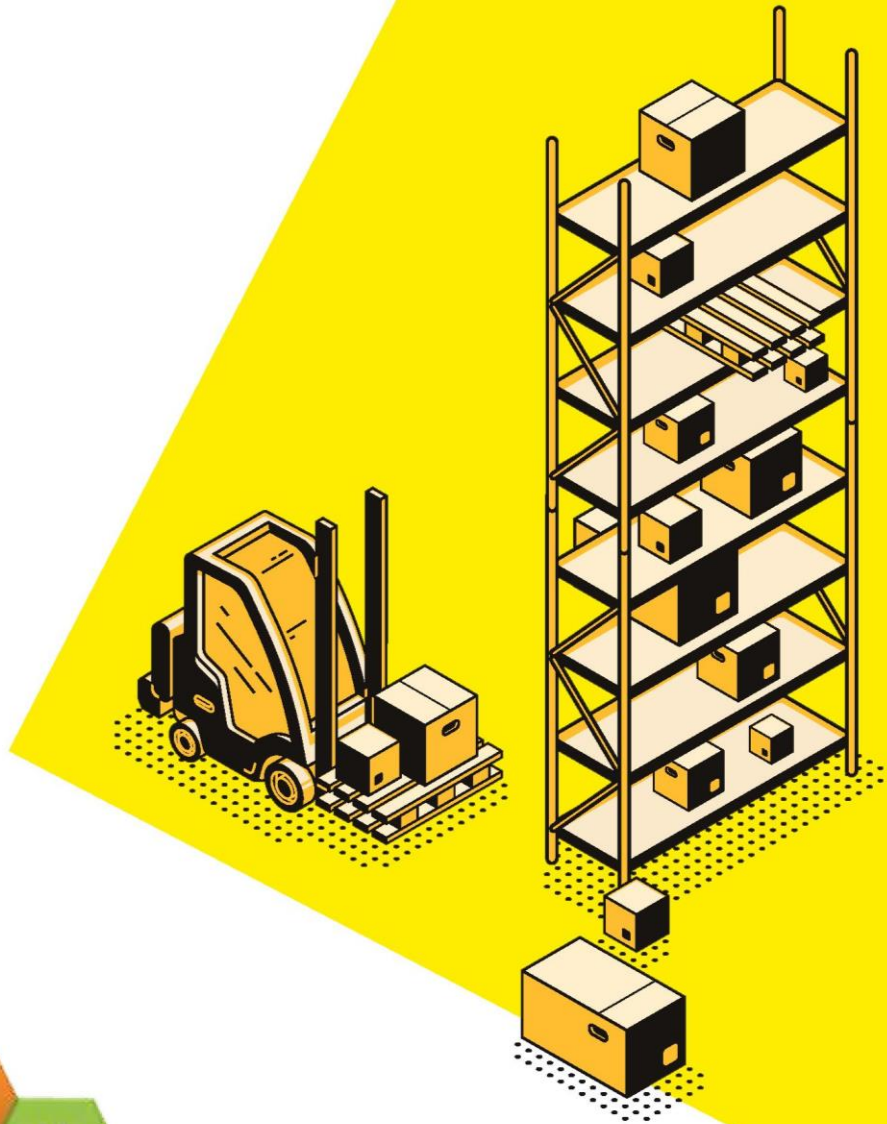
Can be using difference  
type of tray for each section  
unit .

## LAYOUT PLAN

### Storage Capacity

System total lenght is 38.8  
meters and total width is  
10 Meters. Normally aisle  
only required 2 Meters

You may remove or add  
row at the middle



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