

## *Suggestion to carry Machine Tools on Super Rack Container*



*Reliable Container Carriers*



*Innovative solution for  
Machine Tools logistics*

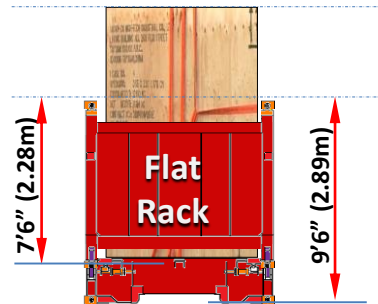
## **Machine Tool Manufacturers**

- *Can save logistics cost. (5~10%)*
- *Can deliver machines quickly to buyers on time.*
- *Can have no stocks in back yard.*

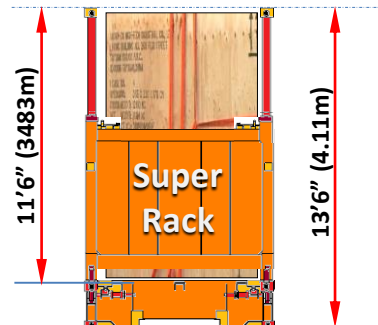


# Flat Racks and Super Racks for Machine Tools

- Machine Tools were carried on container ships by using Flat Rack containers.
  - Machine Tools on Flat Racks are taller than Flat Racks.
  - Over High problems are causing extra cost on container ships.
- But we are using our own height extendable Super Rack containers.
  - Machine Tools on Super Racks will not be taller than Super Racks.
- Machine Tools** can be shipped and carried safely and in lower cost on Super Racks.



Machine Tools  
are taller  
than  
Containers.



Machine Tools  
are not taller  
than  
Containers.

# Photos of Machine Tools on Flat Rack Containers





# Problems of Over High Flat Racks

- Over High Flat Racks are causing several problems on container ships.

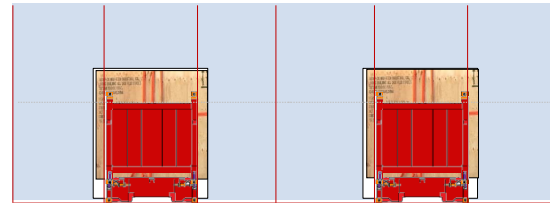
## 1. They cause extra handling cost.

- They need Over Height Attachments and it causes extra cost.



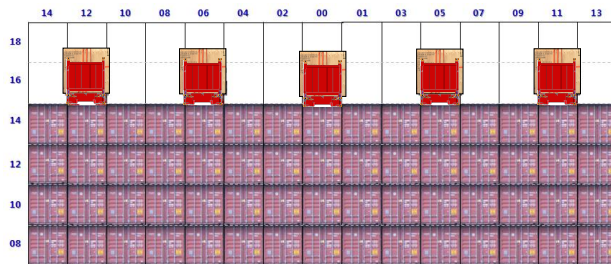
## 2. They cause big dead space cost.

- They have to be stowed in 6 spaces and it causes big dead space cost.



## 3. They cause loadable quantity problem.

- They have to be stowed at top tier in holds and it causes loadable quantity problem.



Thus,

- Machine Tool Manufacturers had to pay high cost for Machines Tool transportations.

**However Super Rack containers can reduce these cost.**

# Operation for Machine Tools on Super Racks

- *Machine Tools on Super Rack could be handled like dry containers by normal spreader.*
  - *They are not causing extra cost.*



*Yard Operation*



*Ship Side Operation*



*Stowing on Board*









- *Machine Tools on Super Rack can be stackable in the hold like dry containers.*
  - *They are not causing problem of loadable quantity.*



*Various Machines Tools stacked in container ship hold*

# Differences between Flat Rack and Super Rack

- *Super Rack can carry Machine Tools much cheaper than Flat Rack or RORO ship.*

	Flat Rack	Super Rack
Height Difference	 <p>Over High</p>	<p>Not Over High</p> 
Yard Operation	 <p>Need <b>OHA</b> Cause extra cost</p>	<p>No Need <b>OHA</b> Not cause extra cost</p> 
Ship Side Operation	 <p>Need <b>OHA</b> Cause extra cost</p>	<p>No Need <b>OHA</b> Not cause extra cost</p> 
On Board Stowing	 <p>Causing Dead Spaces</p>	<p>Saving Dead Spaces</p> 

**OHA** : Over Height Attachment



# Machine Tools on Super Rack Containers I



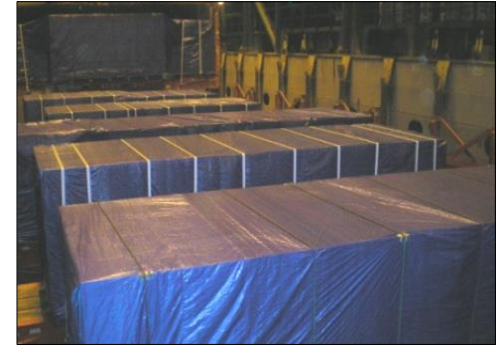


# Machine Tools on Super Rack Containers II





# Machine Tools on Super Rack Containers III



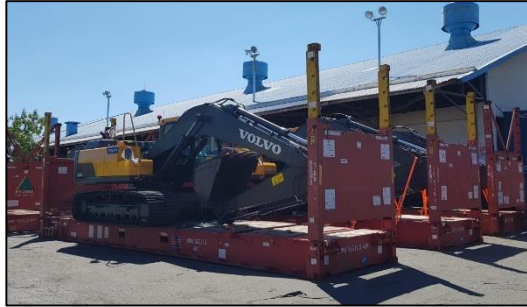


# Construction Equipment on Super Rack I



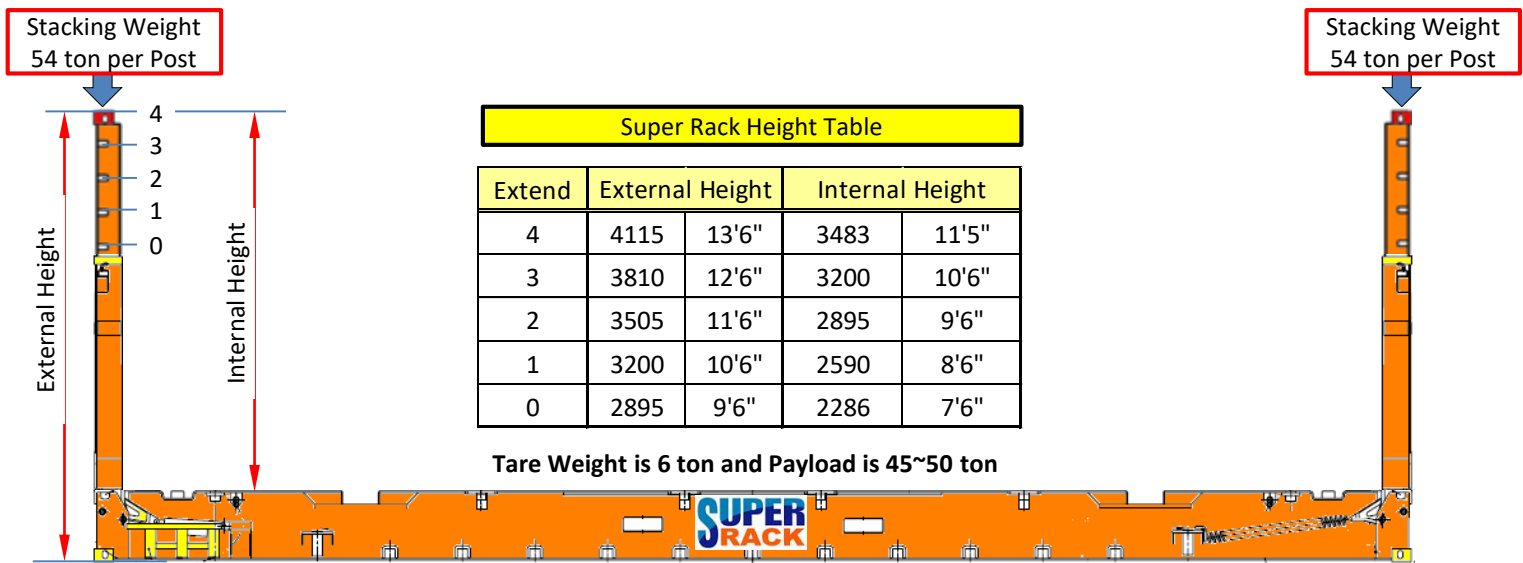
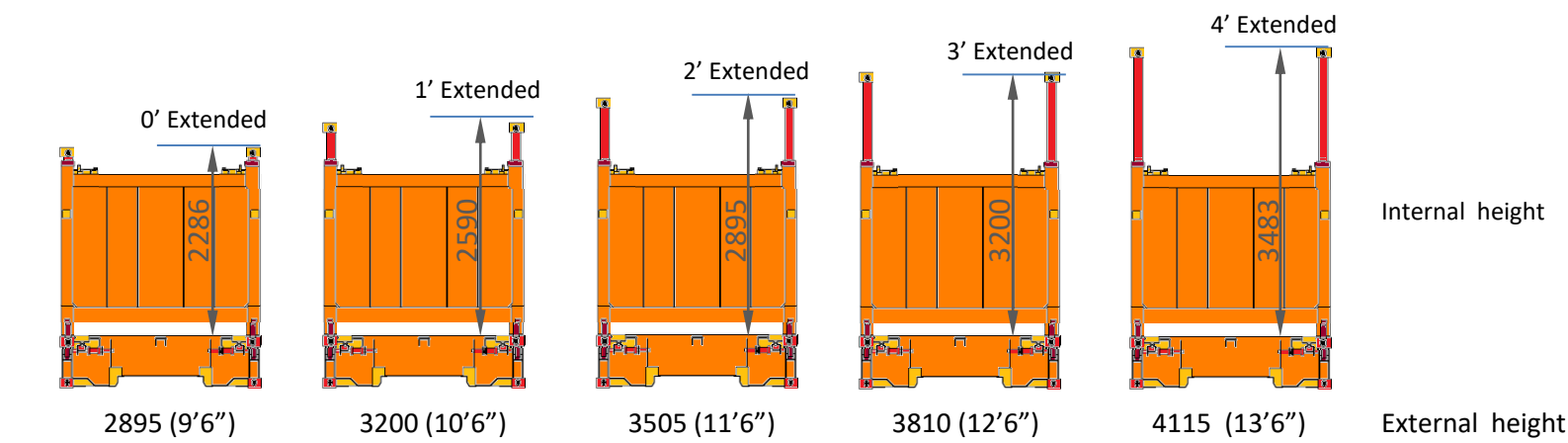


# Construction Equipment on Super Rack II



# Super Rack Container Specification

- Super Rack is extendable to 13'6" from 9'6" depending on Machine Tools height.*





# THANK YOU VERY MUCH

We are ready to ship and carry Machine Tools on height extendable Super Racks



JUM GYU KIM

M/Director of Super Rack Co., Ltd.

[jgkim@super-rack.com](mailto:jgkim@super-rack.com), [www.super-rack.com](http://www.super-rack.com)

T: +82 2 6956 2828 F: +82 2 6956 2828

#620 Haenam BLDG, 64 Sejongdaero, Jung-gu, Seoul, Korea 04526

