



# CASE STUDY\_FURNITURE

IKEA(CHINA)



## Company Introduction

The project has driven according to IKEA's expansion and distribution strategy in Northeast Asia with an investment of US\$82 million. And the building site, in Songjiang Country, west Shanghai, was identified as a location with the right mix of elements to suit IKEA's need.

**IKEA**

**Founded in 1943**

**Headquartered in Sweden**

**Business area : Home furnishings**

**285 stores in more than 35 countries**

**More than 550 million visitors around the world**

## PROJECT OVERVIEW

<b>Company</b>	<b>IKEA</b>
<b>Location</b>	Songjiang, China
<b>Load</b>	Furniture
<b>ASRS Storage Capacity</b>	77,392 locations (Euro pallet: 61,152 / IKEA pallet: 16,240 )
<b>Rack</b>	Free Standing Rack W 99 x L 141 x H 29 (M)
<b>Stacker Crane</b>	<ul style="list-style-type: none"><li>• 8 Vehicles / Euro Pallets/ Double Deep</li><li>• 4 Vehicles /IKEA Pallets/ Single Deep</li></ul>
<b>Automated Materials Handling Equipment</b>	2 vertical lifts, 2 RGVs, Storing and retrieval conveyors

# EQUIPMENT SPECIFICATION



## Stacker Crane

- Handling size: 900~1,000 W x 1,400L x 1,200H, 2,300H (Euro pallet)  
900~1,000 W x 2,300L x 1,200,2,300H (IKEA pallet)  
900 W x 650L x 1,200H (Half pallet)
- Traveling speed: 220 m/min
- Forking speed: 60 m/min

## RGV (Rail Guided Vehicle)

- RGV overall dimension: 1,300W x 2,800L x 1,200H mm
- Speed: Traveling : 240 m/min / Loading: 30 m/min
- Speed control: by inverter



## Conveyor

- Load weight: Max. 850 kg/Pallet
- Power supply: Cable
- Conveying Speed: 12 ~ 30 m/min



## Company Introduction

By its accelerating the opening of stores, IKEA has planned to open the distribution center in Fengxian site where is being developed as a logistics hub for quick access to the Yangshan deep water seaport with a proposed investment in excess of US\$120 million.

# PROJECT OVERVIEW

<b>Company</b>	<b>IKEA</b>
<b>Location</b>	Fengxian, China
<b>Load</b>	Furniture
<b>ASRS Storage Capacity</b>	99,012 locations (Euro Pallet: 90,960, IKEA Pallet: 8,052 )
<b>Rack</b>	Free Standing Rack W 119 x L 188 x H 29 (M)
<b>Stacker Crane</b>	<ul style="list-style-type: none"><li>• 12 Vehicles/ Euro Pallet / Double Deep</li><li>• 2 Vehicles/ IKEA Pallets / Single Deep</li></ul>
<b>Automated Materials Handling Equipment</b>	2 Vertical Lift, 2 RGVs, Conveyors

# EQUIPMENT SPECIFICATION



## Stacker Crane

- Handling size: 900~1,000 W x 1,400/1,700L x 1,200H, 2,300H (Euro pallet)  
900~1,000 W x 2,300L x 1,200,2,300H (IKEA pallet)  
900 W x 650L x 1,200H (Half pallet)
- Traveling speed: 240 m/min
- Forking speed: 60 m/min

## RGV (Rail Guided Vehicle)

- Load weight: Max. 850 kg (Incl. pallet)
- Traveling speed: 270 m/min
- Loading speed: 32 m/min



## Conveyor

- Conveyor type: Chain / Roller conveyor
- Handling weight: Max. 850kg
- Traveling speed: 12 m/min
- Controller: PLC