



# SLS600

3D Shuttle Robot System

# System Introduction



CONVEYOR LOGISTICS

The HWArobotics SLS600 3D multi-layer shuttle robot system offers exceptional reliability and compatibility, establishing a distinctive competitive advantage in the industry.

The SLS600 possesses excellent warehouse sharing capabilities. This allows the shuttle to efficiently handle overall operational requirements while accommodating temporary local surges in demand.

With the outstanding differentiated technological superiority and relatively high comprehensive cost advantage, HWArobotics SLS600 3D shuttle robot can deliver more reliable, economical and flexible solutions to customers.





# Advantages And Features

## SLS600 Advantages

- Available for both variable size and fixed width shuttle robot to share the same aisle. As well as allow two-way shuttle robot and 3D shuttle robot share the same aisle. Such rack configuration give more flexibility for either existing warehouse renovation or newly built warehouse.
- High efficiency vertical lift with higher integration degree, allowing compact integration of transfer platform, goods lift and shuttle lift within relatively small space.



- All the rails are Roll Down processed, with increased reliability and cost effectiveness.

## SLS600 Features

### Flexible configuration

Supporting line side transportation, single or multiple totes position depths, adapts to fixed width and/or variable width storage units, shuttles can run on different levels.



### Saving energy and protecting environment

The drive units are made of DC servo motors from Germany, and combined with the independently developed energy recovery technology.



### Compatibility with multiple specifications of case containers

(L\*W\*H): 200\*200\*160~850\*650\*500 (mm)  
7.8\*7.8\*6.3~33.46\*25.59\*19.69 (in)



### High efficiency and flexibility

Unique high reliability and high efficiency layer changing solution



### Patented flip fork parts with service life over 12 million times.



### New integrated power supply, with shorter charging time and longer standby operation time.





Item	Parameter
Throughput efficiency of single aisle	100~1000boxes/hr
Rated Load	Standard-35kg (Max-50kg) Standard-77lb (Max-110lb)
Vertical moving speed (Max)	≥ 4m/s (13ft/s)
Horizontal moving speed (Max)	≥2m/s (6.56ft/s)
L*W*H	200~850mm*200~650mm*160~500mm 7.8~33.46 (in)*7.8~22.59 (in)*6.2~19.69 (in)
Suitable containers	cartons/totes/other approximate cube items



# Application Scenario

The 3D tote-handling shuttle robot system SLS600 is suitable for low throughput and higher density scenarios.



E-commerce

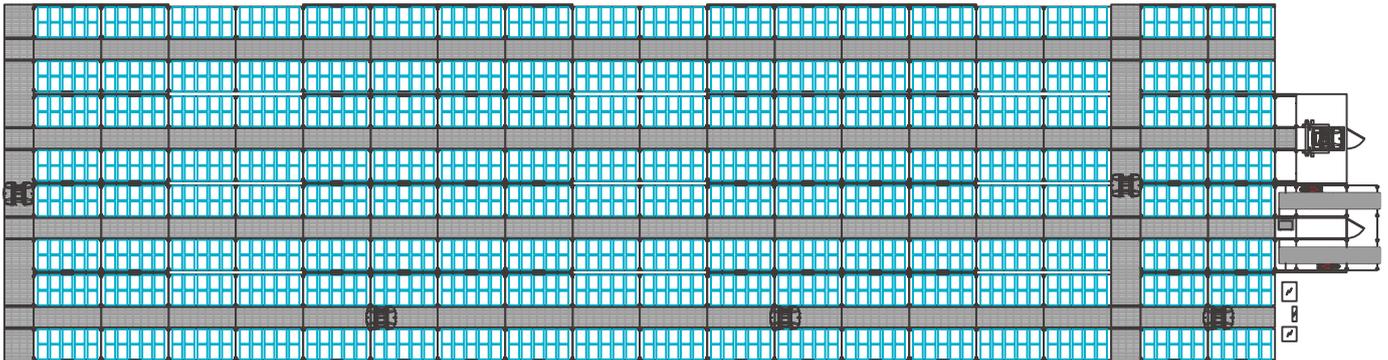


Media



Electronics

## SLS600 Storage Rack



# Case Study

A well-known large household appliance manufacturing enterprise intelligent warehouse project

## Project Features

- 3D tote-handling shuttle robot AS/RS
- Shuttle crosses different floor with goods

## Core Configuration

### Multi-shuttle AS/RS:

3 aisles, double deep storage position 2144 tote positions

Shuttles: 2

Shuttle Lifts: 1



# CONVEYOR LOGISTICS

Web: [www.conveyorlogistics.com.au](http://www.conveyorlogistics.com.au)  
E-mail: [sales@conveyorlogistics.com.au](mailto:sales@conveyorlogistics.com.au)



**CONVEYOR LOGISTICS**