

CASE STUDY

Reference Chin Seng Huat; Thailand:
High throughput and improved picking
accuracy with semi-automated warehouse solution

ssi-schaefer.com



ABOUT CHIN SENG HUAT AUTO PARTS (CSH)

Chin Seng Huat's project was a successful turnkey solution implemented by SSI SCHAEFER. The solution combines the storage and delivery of automotive components with easy monitoring and traceability of their products.

The vertical and horizontal storage systems fitted with automated conveyors and work stations create an accurate and efficient picking and goods-in process that allows a higher throughput to be achieved.



Chin Seng Huat (CSH) started out as a distributor for Isuzu spare parts in Thailand during 1967. Over the last 50 years, CSH has expanded its business operations into a network of companies by investing in technology that improves its operations management. CSH now offers integrated services supplying spare parts for more than 30 over brands of automobile in the region, with digitalization affecting the speed of deliveries and demand, customers can place their orders online and receive their products anywhere and anytime.

PROJECT OBJECTIVES

- To relocate existing warehouse to a larger distribution centre
- To provide a storage system which is capable of handling high throughput during peak periods through conveyors
- To improve picking accuracy and achieve 100% picking selectivity
- To maximise utilisation of limited storage space by implementing a vertical storage solution



Carton and bin conveying system for economical transport



Mezzanine with 6,150 compartments



Selective pallet racking with 4,656 pallet locations

THE CHALLENGE

With online order fulfilment demands and the challenge to have an effective storage and stock management system, CSH relocated their existing warehouse to a 15 meters high bay warehouse, a larger distribution centre to increase the storage capacity. The aim is to handle high throughput during peak periods, improve the picking accuracy and achieve 100% picking selectivity.

CSH commissioned SSI SCHAEFER to provide a total solution that combines storage, delivery, monitoring and tracing of products easily.



Carton and bin conveying systems and Work Stations

THE SOLUTION

The solution comprises of the Selective Pallet Racks, Carton and bin conveying systems, Mezzanine, Work Stations and the SSI LOGIMAT®.

SSI SCHAEFER implemented an automated receiving and order picking process with transport conveyors. Not only was the workload reduced, the storage capacity was also increased to a total of 4,656 pallet

locations. The SSI LOGIMAT®, on the other hand, was installed with a tailor-made storage suitable for high value small parts items to utilise limited storage space in an ergonomic way. The vertical lift storage solution yields a total of 2,500 box locations. For small auto parts that require easy access, the Mezzanine shelving system is able to hold a total of 6,150 shelf compartments.

THE RESULT

SSI SCHAEFER's storage solution for CSH has successfully catered storage space for their wide range of products with over 50,000 SKUs. Order fulfilment particularly during peak hours and handling of goods-in from 30 suppliers per day is now manageable.



Mezzanine for storage of small auto parts

"For over ten years, we trusted SSI SCHAEFER as our integrated warehouse storage systems supplier. We became good business partners because of their professionalism."

Mr. Kittichai Chuarathanaphong
 Managing Director
 Chin Seng Huat Auto Parts Co., Ltd.



Vertical lift module SSI LOGIMAT® with 2,500 box locations



FACTS AND FIGURES

Scope of supply and services by SSI SCHAEFER

Static storage

Pallet racking

Interlock 600 selective pallet racking
4,656 pallet locations

Mezzanine

Regal system R 3000
6,150 compartments

Conveying system

Carton and bin conveying systems

Goods-to-person picking concept
Work Stations

Picking system

Vertical lift module SSI LOGIMAT®

2,500 box locations



Barcode scanning and conveyor system for picking

Goods-to-person picking





SIX REASONS FOR CHOOSING SSI SCHAEFER

- **Stability:**

As a financially independent family business, SSI SCHAEFER is committed to long-term solutions. You can trust that our team of experts will be there for you today, tomorrow and in years to come.

- **Efficiency:**

SSI SCHAEFER solutions are scalable and able to grow with your business. You can always upgrade or retrofit.

- **Quality:**

As a systems specialist and original equipment manufacturer, SSI SCHAEFER provides tailor-made and high-quality solutions from a single source, specifically designed to meet your challenges.

- **Reliability:**

Thanks to our worldwide Customer Service & Support network, SSI SCHAEFER ensures smooth operation of your system, both during and after installation.

- **Know-how:**

SSI SCHAEFER solutions are always up-to-date with the latest technological standards and can be easily integrated into an existing (IT) landscape.

- **Internationality:**

As a global organization, SSI SCHAEFER has local offices worldwide. With over 70 operative subsidiaries, our team of experts speak your language.

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