

CASE STUDY

Reference DSV Healthcare, Johannesburg
South Africa: a State-of-the-Art Warehouse for
the African Pharmaceutical Distribution Giant

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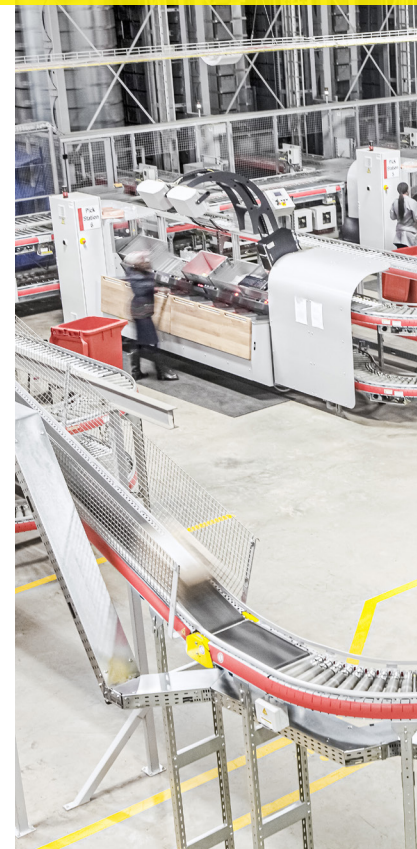


SSI SCHÄFER

HEALTHCARE AS A RIGHT AND NOT A PRIVILEGE



DSV Healthcare Facility



SSI Carousel

DSV Healthcare is Africa's leading distributor of pharmaceutical and healthcare products, and is part of DSV Healthcare Worldwide, a global supply chain management company. DSV Healthcare partners with more than 38 clients, representing more than 50% of the private pharmaceutical market in South Africa and a growing share of other healthcare markets generics such as ophthalmic, diagnostics & devices, surgical, retail, OTC & consumer, nutritional, cosmetics and beauty, skin protection, and animal health.

DSV Healthcare distribution centre in Meadowview is a bold statement of its intent to lead the pharma and healthcare logistics market within a period where there were significant government investment in healthcare.



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SUCCESSFUL PARTNERSHIP THINKS GLOBALLY, ACTS LOCALLY



SSI Carousel system enables highly efficient storage and picking processes in the smallest possible space - discover more information about carousel system

<https://www.ssi-schaefer.com/en-za/products/storage/small-load-carriers/storage-shuttle-systems-bins-cartons-trays/ssi-carousel-63172>

In 2011, DSV Healthcare had a goal to build a new distribution centre (DC) in Meadowview, Sandton, Johannesburg ZA. The new centre will replace the 3 existing warehouses and dramatically increase the company's distribution capacity.

The company approached SSI SCHAEFER to plan and build a state-of-the-art warehouse that would help DSV Healthcare optimize space and productivity and keep up with the ever growing pharmaceutical demand in the country.

SSI SCHAEFER realized that in order to better answer the customers' needs locally, it was essential to plant some roots in South Africa and therefore opened its first subsidiary in Bryanston, Johannesburg in 2011. The establishment of SSI SCHAEFER in the region was regarded by DSV Healthcare as a key factor for commissioning the company with this project. With this newly established office, SSI SCHAEFER is now able to provide local maintenance and support as well as a complete sales & engineering office.

PROJECT OBJECTIVES / REQUIREMENTS:

- Handle two times the original throughput yet reduce 50% of the work time
- Handle cross docking orders and pharmacy orders
- Increase picking capacity and bulk storage locations
- Reduce land footprint through space optimization
- Handle increasing number of SKUs
- Increase overall productivity
- Achieve more efficient and cost-effective service

VIRTUALLY ERROR-FREE PICKING



Carton erection



Pallet conveying system

SSI SCHAEFER adapted a solution that is personalized for the pharmaceutical industry. The concept is future-proof, making it scalable with DSV Healthcare business growth and expansion plans. The solution allows for the support of full pallet, case and single piece picking operations and is able to process approximately 30,000 orders lines per day. The systems installed in Johannesburg South Africa were the

Goods-to-Person workstations, combined with the SSI Carousel and the ergonomic decanting stations. This concept provides the best product handling and distribution capacity in the industry as well as a virtually error-free picking and movement operation from receiving to the shipping area.

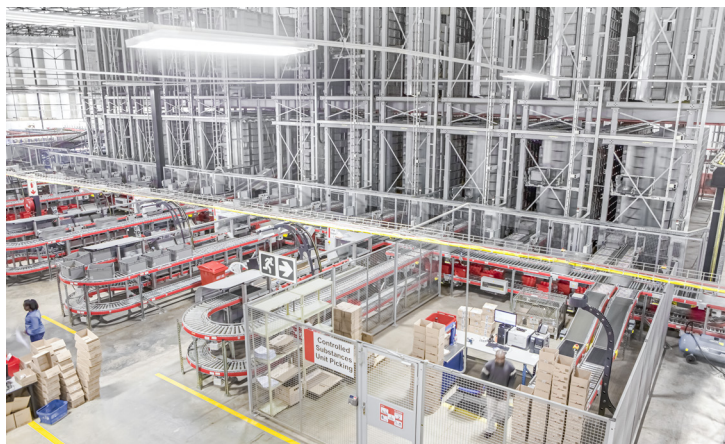
“DSV Healthcare needed a solution that not only catered to an increase in productivity but also the possibility of gradual expansion of the distribution capacity. We were able to deliver that due to our great experience in the pharmaceutical industry as well as our attractive product portfolio and thereby helped secure a bright future for DSV Healthcare on the South African market.”

Herbert Schorner
Sales Manager



Sorter

IMPLEMENTED SSI SCHAEFER SYSTEMS AND THE IMPACT ON THE CLIENT'S FACILITY



High Bay Warehouse with storage and retrieval machines

High Bay Warehouse Comprising Storage and Retrieval Machines:

SSI SCHAEFER implemented a solution comprising 10 aisles of pallet racks with approximately 38,400 pallet locations. Pallet handling, pallet storage, full pallet picking and out-of-aisle full case picking are operated by these automated storage and retrieval machines controlled by the SSI SCHAEFER Software. The system is a modular solution that is future-proof for DSV Healthcare to increase the speed of processing bigger volume of pallets during peak seasons and future growth.

SSI Carousel for Combined Storage and Picking:

SSI SCHAEFER installed a high performance picking system with 22 SSI Carousel systems combined with pick-to-tote workstations for the storage and retrieval of 23,040 totes. The system comprises 11 double high carousels, each equipped with 80 load carriers. It also has the capacity to be expanded at a later stage by simply adding more carousel modules.

The products are collected at the seven pick-to-tote workstations. At these stations, the required quantity of items can be picked from uniquely identifiable storage totes into shipping totes. The station is designed to meet the ergonomical expectations of DSV Healthcare and also to achieve a picking performance of up to 1,000 picks per hour. The goods-to-person workstation allows for

a guided and error-free picking of goods and is especially suitable for employees who are new to the warehouse operation.



Pick-to-tote workstation

Decanting Area with 6 Ergonomics Workstations

For small orders, the goods are transferred to the decanting area where workers repack the products into the storage totes. At these stations, the workers place the received SKUs directly into the storage totes according to the requirements of the different product groups, such as mixed cartons handling and dangerous goods. The replenishment of the decanting stations is carried out on demand with pre-sorted pallets from the high-bay warehouse.

"As the leading healthcare distributor in Africa, the new facility allows DSV Healthcare the opportunity to realign its infrastructure to meet the needs of a dynamic African market, increasing capacity to better service our current and prospective clients."

Keith Pienaar
Vice President, DSV Healthcare Africa

FACTS AND FIGURES

System Key Figures

Warehouse area	23,000 m ²
System size	14,300 m ²
SKUs	24 hours / day
Orders / day	15,000
Orderlines / day	41,000
Peak time	15:00 - 19:00
Degree of automation	Almost 100%
Working hours / day	2 x 8 hours

Scope of Supply and Services by SSI SCHAEFER

Conveying System	
Cartons & totes conveyor	3,800 m
Pallet conveyor	2450 m
Picking Systems	
Pick-to-tote Workstations	7
Storage Systems	
High Bay Warehouse with storage and retrieval machines (SRM)	10 aisles
System Components	
22 SSI Miniload	23,040 totes
Handling Systems	
Quality control	9 workstations
Pick packing slip	
Lidding machine	
Document insertion machine	
Carton erector	
Automatic order decant station	
Software	
WAMAS®	
Transport units	
Pallets, cartons and totes	



Case study:
Semi-automated Storage Facility for the Pharmaceutical Industry

https://pages.ssi-schaefer.com/en-za/dsv-healthcare_case-study



Invoice
Insertion
2

Lantech.com

Invoice
Insertion
1

Barcode
Label
Application



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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