



Successful Logistics Concept

Dynamic Picking System (DPS)

- ▶ Cost-effective picking system for store supply, B2C supply, E-Commerce, and Omnichannel-Logistics
- ▶ Can be used in different industries and temperature ranges
- ▶ Optimal ergonomics
- ▶ Significant savings in personnel and footprint
- ▶ Can handle a broad article range

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DPS – Successful Logistics Concept

How does DPS work?

As a fully integrated logistics system, the storage and picking solution DPS (Dynamic Picking System) is based on the Pareto principle: 80% of the sales volume is achieved with some 20% of the article range.

The logical conclusion of this relation is: Based on their access frequency, only top selling articles (fast movers) need to be permanently available for picking. All other items (slow movers) will be presented on demand and order-related.

This is made possible through the different provision of articles. Fast mover articles are permanently presented to the picker in static flow channels. Slow movers, however, are only provided when required in dynamic pick locations, or stored in the AS/RS. Replenishment within the picking aisle is automated through the use of stacker cranes.

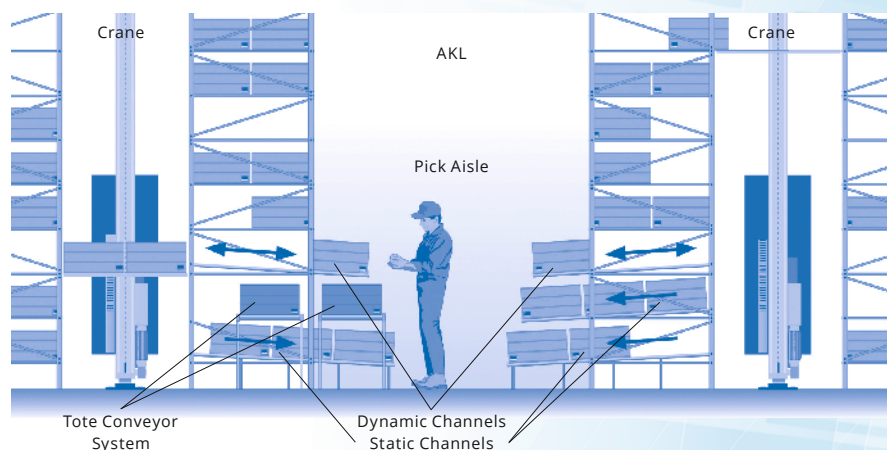
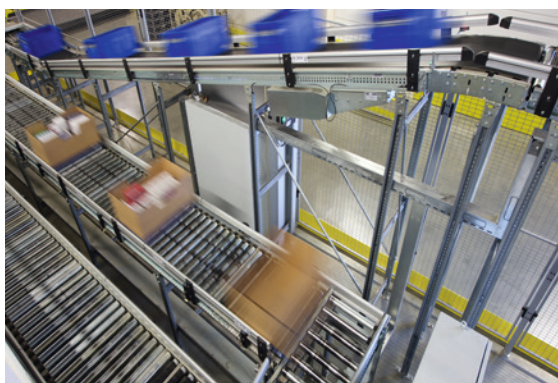
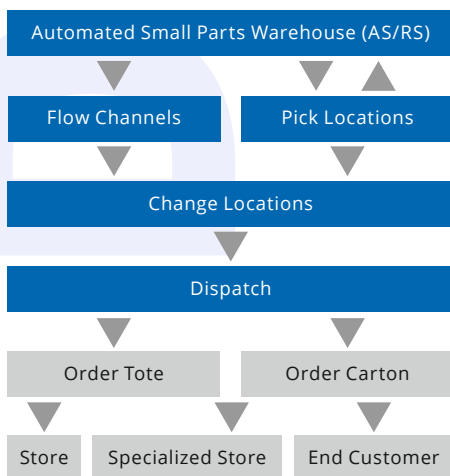
If the classification of an article changes (e. g. special offers or seasonal goods), DPS identifies this change through a consistent control of the article structure and automatically adjusts the pick slot for that article accordingly.

Because storage and picking are integrated, empty order totes / empty order cartons can be automatically provided at the picking workstation, saving additional investment and labor.

Pick-by-light displays located at every channel guide the picker to the correct items and display the proper pick quantity. A screen at the workstation provides additional information. Items are picked into either a shipping tote or a shipping carton. Integrated scales and volume contour checks ensure high pick accuracy.

Depending on the article spectrum and the picking volume, several DPS modules can be integrated according to a modular principle, and several pick levels can be stacked on top of one another.

DPS Material Flow



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Omnichannel / E-Commerce

The intra-logistics experts will face new challenges as the mail order business demands creative answers on an almost daily basis, and trade companies must be able to react very fast on current and future developments. The customers' needs change rapidly. Therefore, logistics and picking systems require very high process flexibility throughout the entire material flow - and especially at workstations. And here too, the DPS system speaks for itself with its functional and extremely flexible workstations. These workstations allow a fast and purposeful reaction to each individual customer requirement. The consequence: DPS is optimal for state-of-the-art distribution channels like E-Commerce or Omnichannel-Logistics.

Customers about the DPS benefits:

"The Omni-Channel solution designed by the family-owned company WITRON allows us to have a flexible, efficient, and sustainable supply chain - both for the store-friendly supply of our stores and the fast-growing online food business. With this investment, we are taking a big step towards the future together with WITRON and are strengthening the competitiveness of the entire Axfood family."

Klas Balkow, President and CEO from Axfood (Sweden)

"The most important reasons for this investment decision were both ecological and economic factors. This includes a high level of cost-efficiency along the supply chain as well as a long-term guarantee of an excellent supply of our markets, even in times of crisis. Our sustainability strategy also includes other aspects such as ergonomic workstations, the reduction of CO2 emissions through optimally packed load carriers and, as a result, the reduction of trailer tours. And last but not least, the construction of the warehouse and administration site in accordance with the DGNB Gold Standards (DGNB = German Sustainable Building Council)."

Lars Siebel, REWE-Business Unit Manager Logistics National / Supply Chain Management (Germany)

"Our expectations of the benefits of the DPS system have been met. One major challenge for our business is the guarantee of next-day delivery. Articles that are ordered before 05:30 p.m. are picked by no later than 11:00 p.m. and arrive at the customer on the following day. With WITRON's DPS system, we can guarantee this overnight delivery. Since the system was introduced, customer satisfaction has increased due to the fact that it is much easier for us to prioritize orders and respond quickly and flexibly to changes in the order structure."

Bart Schoonderwoerd, Logistics Director, Technische Unie (The Netherlands)

"The new logistics center plays a central role in the optimization of the entire supply chain within our highly dynamic fresh goods distribution. With WITRON's DPS system, we are able to react optimally to changing market requirements. The productivity in the new warehouse has more than doubled compared to the previous working methods and the pool costs for fresh good totes could be reduced significantly. Picking errors are nearly eliminated. Also, energy consumption has been reduced significantly".

Vincent de Hertogh, Manager Supply Chain Strategy, DELHAIZE (Belgium)

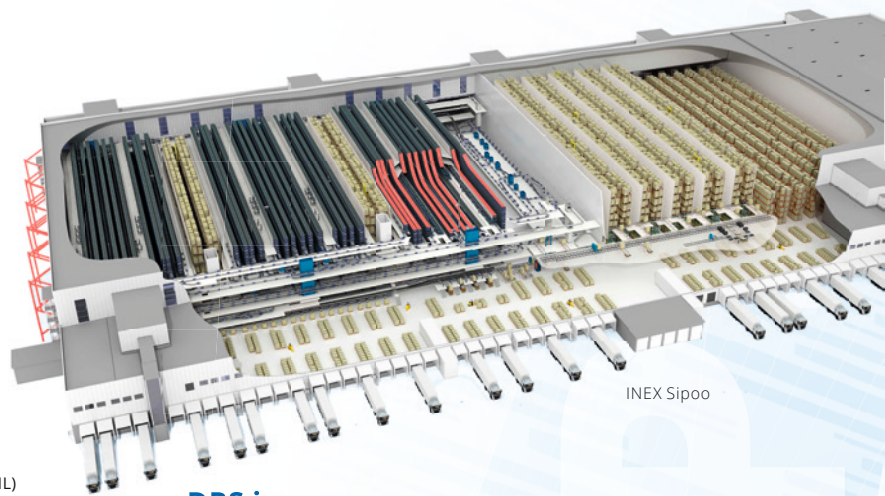
Customer benefits:

With DPS you can achieve high **cost-effectiveness** and sustainable **competitive advantages:**

- ▶ **High flexibility** through the support of different store-friendly pick options like: from tote into tote, pick and pack from tote into dispatch carton, from pallet into tote, from storage carton into dispatch carton
- ▶ **Optimum technology** for: store supply, end customer supply, E-Commerce, Multi-Channel-Logistics
- ▶ **Reduction of logistics costs** through significant savings in footprint and personnel
- ▶ **Increased customer satisfaction** and pick quality based on low error rates
- ▶ **Increase of the article assortment** based on dynamic article provision at the pick location
- ▶ **Optimal performance values** at the pick locations, reduction of walking distances by 75%, ergonomic workstations
- ▶ **Optimal logistics operation** through software-based management of fast movers and slow movers („ABC balancing“) as well as controlled use of employees at the pick locations
- ▶ Use of **energy-efficient technology**

Selected DPS-References

ALBERTSONS	Food Retail	Hopkins (USA)
ALTANA	Pharmacy	Konstanz (GER)
ASKO	Food Retail	Vestby (NO)
AXFOOD	Food Retail	Stockholm (SE)
BERNER	Coupling Technology	Künzelsau (GER)
BOOTS	Chemist	Nottingham (UK)
BUDNIKOWSKY	Chemist	Hamburg (GER)
CVS PHARMACY	Chemist	Ennis (USA)
CONDIS	Food Retail	Barcelona (ES)
COOP Norge	Food Retail	Oslo (NO)
DBK	Book Trade	Kopenhagen (DK)
DELHAIZE	Food Retail	Asse-Zellik (BE)
DISTRELEC (TECO)	Elektronics	's-Hertogenbosch (NL)
EDEKA	Food Retail	various locations (GER)
GARDENA (HUSQVARNA)	Gardening Tools	Ulm (GER)
HEMA	General Merchandise	Utrecht (NL)
HOOGVLIET	Food Retail	Bleiswijk (NL)
INEX	General Merchandise / Food Retail	Sipoo (FI)
JUMBO	Food Retail	Nieuwegein (NL)
KEUCO	Bathroom fittings	Hemer (GER)
KRUIDVAT	Chemist	Heteren (NL)
LIBRI	Book Trade	Bad Hersfeld (GER)
LR COSMETICS	Cosmetics	Ahlen (GER)
MERCADONA	Food Retail	various locations (ES)
MIGROLINO	Food Retail	Suhr (CH)
NEDAC SORBO	Household articles	Duiven (NL)
NETTO	Food Retail	various locations (GER)
PAULMANN	Illuminants	Springe-Völkxen (GER)
PEYTON'S	Food Retail	various locations (USA)
PLUS	Food Retail	Oss (NL)
REMA	Food Retail	Vinterbro (NO)
REWE	Food Retail	various locations (GER)
SAINSBURY'S	Food Retail	various locations (UK)
SALUTAS	Pharmacy	Barleben (GER)
SOBEYS	Food Retail	Quebec (CA)
SPAR	Food Retail	Wels (AT)
SUPERVALU	Food Retail	Brea (USA)
TECHNISCHE UNIE	Food Retail	Alphen (NL)
T.J. MORRIS	Food Retail	Warrington (UK)



DPS is:

- ▶ Industry-independent
- ▶ Successful in different sizes of logistics systems
- ▶ Successful as a stand-alone system
- ▶ Successful in combination with other logistics systems
- ▶ Modular and expandable



About WITRON:

WITRON Logistik + Informatik GmbH, established in 1971 (headquarters Parkstein, Bavaria, Germany), designs, realizes, and operates customized logistics and material flow systems that generate sustainable competitive advantages for its clients. WITRON has all the decisive key elements of a successful project under one roof: logistics design, information and control technology, mechanics design and production, as well as functional responsibility as general contractor for logistics.

The WITRON Corporate Group has 5,100 employees worldwide. WITRON's annual revenue in 2021 amounted to 1,05 billion Euros. Other WITRON branches are located in Rimpar (Germany), Arlington Heights, Illinois (USA), Toronto (Canada), Venray (The Netherlands), Stoke-on-Trent (UK), Madrid (Spain), Strasbourg (France), Singapore and Sydney (Australia).

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