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Merchandise handled in Hard Disc mode

Whether in E-Commerce, classic retail business or store logistic – low lot sizes, laborious handling of returns and high logistic costs per unit do downgrade the result. Often enough this is caused by inflexible conveyor and warehouse logistic systems that cannot or only hardly be adapted to changing markets and assortments. While computers perfectly control the order processing, the fulfillment seems to be the main challenge at every edge and end....

...unless the entire in-plant warehousing and distribution concept will be re-organised – using novel and patented modules – and a „hard disc for all kind of merchandise“ will be implemented at manageable investment costs.

Schönenberger Systeme GmbH, located in 86899 Landsberg/Lech, Germany has developed such system and has successfully realized it for a french retailer running several thousand shop-in-shop „points of sale“. The Schönenberger Intra-Logistic-System ILS 2100 can particularly be compared to a hard disc for merchandise as it can be installed just like a computer hard disc: with partitions for storage or interim storage of merchandise, accumulation and sortation functions, providing fast access to any merchandise in the system and also with the possibility to adjust processes to changing demands during full plant operation and at low labour cost.

Whilst the basic components of the ILS 2100 have for almost 40 years been worldwide used in textile industries and trade, in furniture, automotive and many other industries for light weight merchandise, a recently developed product carrier now provides new solutions to businesses in e-commerce, spare parts logistics and to many businesses being bothered by „returns“.

Compared to mini-load and shuttle systems at high investment and energy costs, demanding lots of space as well, the Schönenberger System ILS 2100 combines the functions „receiving and quality control of merchandise“, „conveying“, „storing“, „sorting“ and „picking“ up to „dispatch“ and „truck loading“ in just one technology.

Moreover, with the new developed carrier, this technology virtually turns logistic upside down: anything lying and using up valuable space – like cartons, flat merchandise in polybags or unpacked hardware – is automatically or manually put into a „rucksack“ kind of bag. The bag is turned upright and then conveyed, stored or sorted in space saving manner; or – in case of returns – it gets resorted back into the system for immediate availability. Even the qualification of returns can be tied-in smoothly .

Compared to the partitions of a computer hard disc the storage and sorting circles can also be configured in most any number and dimension – like hard discs on an internal computer bus.

Returns of single items that are part of a multi-items sale or logistic unit (e.g. a grip unit of 8 or 12 items) are collected in a „file“ and once the unit is completed it will be conveyed „en bloc“, stored and automatically picked.

Another feature speaks for the comparison to a computer hard disc:

All data – say merchandise – at any random position within the system, can reliably be accessed immediately.

And – just like with the hard disc – all movements, sortations and picks are at low energy consumption.

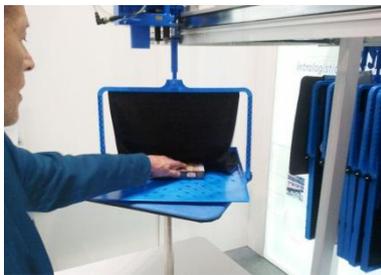
Each circle is operated by one central drive with start-stop function.

Plus, many switches are directly operated by the trolleys and are therefore self-contained.

„Grip-units“ - ready-to-ship - can be identified within the system even without a label.

At the latest possible point of time, just right before truck loading, each packing unit will be assigned to a recipient and get an address tag. Thereby the tour capacities can be expanded while the costs for fleet and store supplies can be lowered.

All these advantages result in an attractive return-on-invest-time and do reflect the potential held within such a modern „hard disc for merchandise“.



Hanging or flat merchandise, cartons, even voluminous and delicate products can be put into the „bags“ that were recently presented at the Logimat exhibition in Stuttgart.

For manual or automatic loading and unloading the bags are tilted; for transport and storage the bags are turned upright to save space.



The patented bags are part of the Intralogistic System ILS 2100, the latest product of SCHÖNENBERGER; who has furnished some twothousand plants within the textile and garments industry, as well as in automotive, furniture and generell in leight weight merchandise industries, leading to considerably lower logistic unit costs.



The Schönenberger-System ILS 2100 allows to organize a company's logistic in terms of computer hard discs. With partitions, files, buffers and sorting alternatives. Independent from the current position of the merchandise, a fast access to any stored item is provided.



For lack of space the 3rd dimension can be used: the available space under the roof.
This facilitates an integration of the Schöenberger ILS 2100 in existing plants and the installation can be done during continued operations/production.



Customer-specific carriers are one of Schöenberger's core competences, whereby often a modification of standard products provide a great plus in functionality.

Backgrounder

Schöenberger Systeme GmbH can look back on almost 40 years of experience in overhead material handling technology. The approach of Rolf Schöenberger (Dipl.-Ing., Dipl.-Wirtsch.-Ing. / Graduated Mech. and Industrial Engineer) to first and foremost focus on customers' organisational demands and to optimize their logistic processes, rather than thinking in terms of steel and iron components draws a distinction to other logistic suppliers.

This philosophy is also followed by his son Stefan Schöenberger (Dipl.Ing. / Grad. Mech. Engineer).

Schöenberger Systeme currently employs approx. 60 team members and has realized some 2.000 logistic concepts world wide.

The focus is put on the centrally suspended overhead transportation track. The systems serve production and storage applications and ensure a just-in-time and/or just-in-sequence provision to production, assembly and dispatch work stations.

Customer specific logistic solutions and carriers developed to application, „tailored“ software systems and their integration into customers' host systems are further Schöenberger characteristic competences.

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