



Insight in our competencies

Depending on the task, we develop optimal storage concepts for you with the right automation technology and at the best possible location for you. Building solutions, attractive financing options and possible utilisation models are all part of our portfolio. Upon customer request, we also take on the role of general planning, including building planning and all architectural services. From an independent and neutral point of view, we support you in the selection of storage technology and its manufacturer and accompany you until commissioning. High-performance IT applications for warehouse management and material flow control are also essential components of our consultancy services. Use of Industry 4.0 and digitalisation solutions to implement highly efficient warehouse processes is a particular focus for us.

Insight in current topics

Highly automated shuttle warehouse for efficient production supply

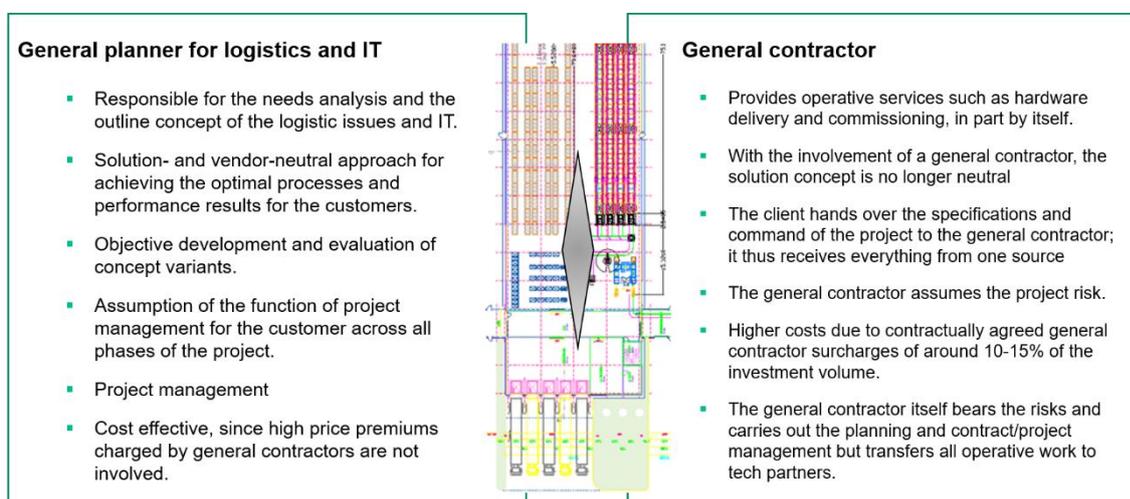
A range of automated solutions are available to ensure outstanding warehouse and order picking performances. There are all kinds of manual racking systems, classic automatic small parts warehouses and shuttle warehouses, each of which has particular benefits within certain application scenarios. Not only will modern shuttle technology handle storage and removal processes, it will also manage transports to the necessary destinations within manufacturing and assembly. Our proprietary solutions, developed in several projects across various industries and application cases, provide essential advantages. For instance, there is no handling stage between order picking in transport, hence leading to a reduction in logistical costs. The shuttle vehicles also manage on-transport of semi-finished products or the storage of finished products.

Construction of new warehouse facilities without investment costs

Growth or modernisation necessitates a new warehouse/logistics centre which should, ideally, be planned and designed according to the particular, individual requirements. The inclusion of highly automated warehousing and picking technology can quickly turn the plan into an investment-heavy project involving exacting demands and making savings potential essential for a positive business case. A modern and attractive solution for reducing or possibly completely avoiding investment costs and nevertheless realising an in-house logistics property is the “sale and lease back” approach. This involves the company incorporating a property it already owns or a new one to be acquired together with the concept for the new construction of the warehouse into a special-purpose company to be established by the company itself. A financing partner and lessor is its principal shareholder, whilst the company planning the new warehouse acquires a limited partnership as the lessee. The warehouse to be established is thus leased for a definite time-frame and can either be reabsorbed as company property after a certain period by means of a so-called access option through dissolution of the special-purpose company or, alternatively, leased further or repurposed for third-party utilisation. This “sale and lease back with access” approach is a very attractive solution, especially given the current interest situation and financing partners’ high degree of readiness to invest, and is one that is encouraging ever more companies to realise a new warehouse.

General planner vs. general contractor

The possibilities for executing the warehouse construction or reorganisation projects are diverse. From a best-of-breed approach with self-responsibility to overall responsibility of a general contractor: there are various options available. To summarise, the roles are differentiated as follows: The general planner operates with a neutral and independent eye in terms of solutions and providers with a view to the employment of warehouse technology and materials handling and implementation of suitable real estate. The general contractor stands for a turn-key solution and assumes the project risk. However, this involves not insignificant costs and most are no longer quite independent in their conceptual decisions since they are often closely affiliated with various manufacturers of the technology involved. Below is a brief comparison:



Competencies of ebp-consulting

A selection

Whether it's for restructuring, optimisation or planning of warehouses & logistics centres – we analyse, plan and assess all aspects to identify process quality, feasibility, efficiency and viability. This is how we support you in the design and implementation of sustainably economical warehouse logistics.

1. Creation of warehouse strategies

- Strategic alignment of the warehouse in the supply chain network
- Definition of warehouse functions
- Definition of performance indicators and requirements
- Make-or-buy analysis
- Greenfield planning vs. brownfield optimisation
- Assessment of in-house operation vs. third-party operation operator models
- Review of different investment models, such as sale & lease back

2. Location concept and general development for warehouses of any kind

- Location analysis and selection
- Location concept and use of space
- Development planning

3. Warehouse planning and optimisation of logistics centres

- Design of optimal warehouse processes (material and information flow)
- Warehouse productivity enhancements, e.g. reduction in throughput times and increase in the “picks per hour” performance indicator
- Implementation of ABC/XYZ analyses
- Warehouse dimensioning
- Floor space planning
- Development of detailed layouts for the warehouse structure
- Identification of purposeful degrees of automation
- HR and technical resource planning
- Implementation of warehouse simulations
- Process cost calculation, for example, on the basis of MTM analyses
- Feasibility analysis and investment calculations

4. Planning of warehouse technology

- Preselection of automation variants (manual, semi-automated, automated)
- Requirements specification and preparation of technical specifications
- Selection and assessment of technical variants (e.g. automated small parts warehouse as shuttle warehouse or with RBG, automated pallet warehouse or narrow aisle)
- Preparation and implementation of tenders, pre-selection of technical suppliers

5. Planning of warehouse management systems and material flow control systems

- Definition of requirements for warehouse management systems and material flow control systems (WMS such as SAP-WM, SAP-EWM)
- Preparation of specifications

- Support in calls for tender and vendor selection
- Implementation of required adjustments

6. Architectural services for warehouses

- Definition of the building structure
- Development of functional development plans
- Preparation of building specifications
- Support in planning applications
- Fire protection concept

7. Order picking planning

- Selection of order picking and sorting systems
- Selection and integration of loading/unloading systems and packing systems
- Definition of order picking principles, e.g. pick-by-light or pick-by-voice
- Route optimisation
- Pick optimisation

8. Implementation planning and support

- Logistical relocation concept
- Support during commissioning
- Tendering of warehouse and logistics services to service providers

9. Logistical benchmarking and warehouse optimisation

- Inventory optimisation and management in the warehouse
- Optimisation of replenishment concepts and days of inventory
- Process evaluation on the basis of MTM analyses
- Calculation of target costs for warehouse processing and processes
- Warehouse logistics benchmarking based on process costs

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