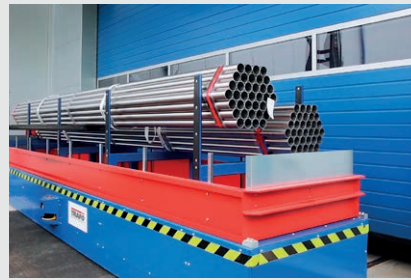


## Storage technology and automation Sheet metal storage



Sheet metal storage



Long goods storage



Customised solutions



Storage and retrieval machines

### PORTFOLIO

Our product portfolio covers stored material of all kinds.

System design, format sizes and payloads can be adjusted individually for all systems.

Additionally, you may use options that perfectly match your storage requirements.

### Your competent partner for customized solutions:

- Complete systems
- Plant components
- Modernisation
- Service



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# SHEET METAL STORAGE

TRAFÖ logistic systems –  
Precisely adjusted to your needs

- Planning
- Production
- Assembly
- Commissioning
- Service

## Your benefits:

- Highest economic efficiency
- Quick access times
- Reliable delivery times
- Saving time and money



## Project Description

Oswald Elektromotoren GmbH has been developing and producing special motors for the industry in Miltenberg am Main for more than a century. In the scope of production optimisation at Oswald, a new project was put on the company's agenda in 2014. 1,000 tons of material in the form of sheet and flat goods were to be stored and managed fully automatically to increase efficiency of production.

The challenge for logistics specialists was in the enormously limited space. On only 150 m<sup>2</sup>, a single-line sheet metal storage system with a height of approx. 8 m and a total capacity of about 1,000 tons was created. The sheet metal storage system was constructed on two levels to reach the required capacity. About 180 bins with a payload of 3,000 kg per pallet supply sheet and flat goods at different qualities and properties.

One special feature of the facility is the variable loading height of the pallets. A safety facility on the storage and retrieval machine records the load height of the pallet at every storage or retrieval. The pallet is then assigned to a matching bin by the smart warehouse management system. This permits storing load heights from 70 mm to 1,050 mm.

## Project Data

### single-line sheet metal storage system

Year of construction	2015
Storage length	35,5 m
Storage width	6,7 m
Storage height	8 m
Number of system pallets	173 units
Payload per system pallet	3 t
Payload of storage in total	519 t
Number of storage and retrieval machines	1 unit
Number of stations	5 units

## Control and software solution

The warehouse administration system acts as the centre for the entire plant technology. The warehouse management system ensures automated administration and provision of materials at the processing machines.

An intuitive software interface installed on touch screen terminals at the stations serves to operate the system. Material postings, demand requirements and the current status of the warehouse can be viewed and executed at each of the terminals. The WMS command centre coordinates all processes and running movements in the facility and communicates all data statuses through an interface to a superordinate ERP system.