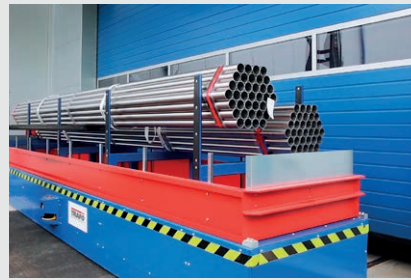


Storage technology and automation Long material storage



Sheet metal storage



Long goods storage



Customised solutions



Storage and retrieval machines

PORTFOLIO

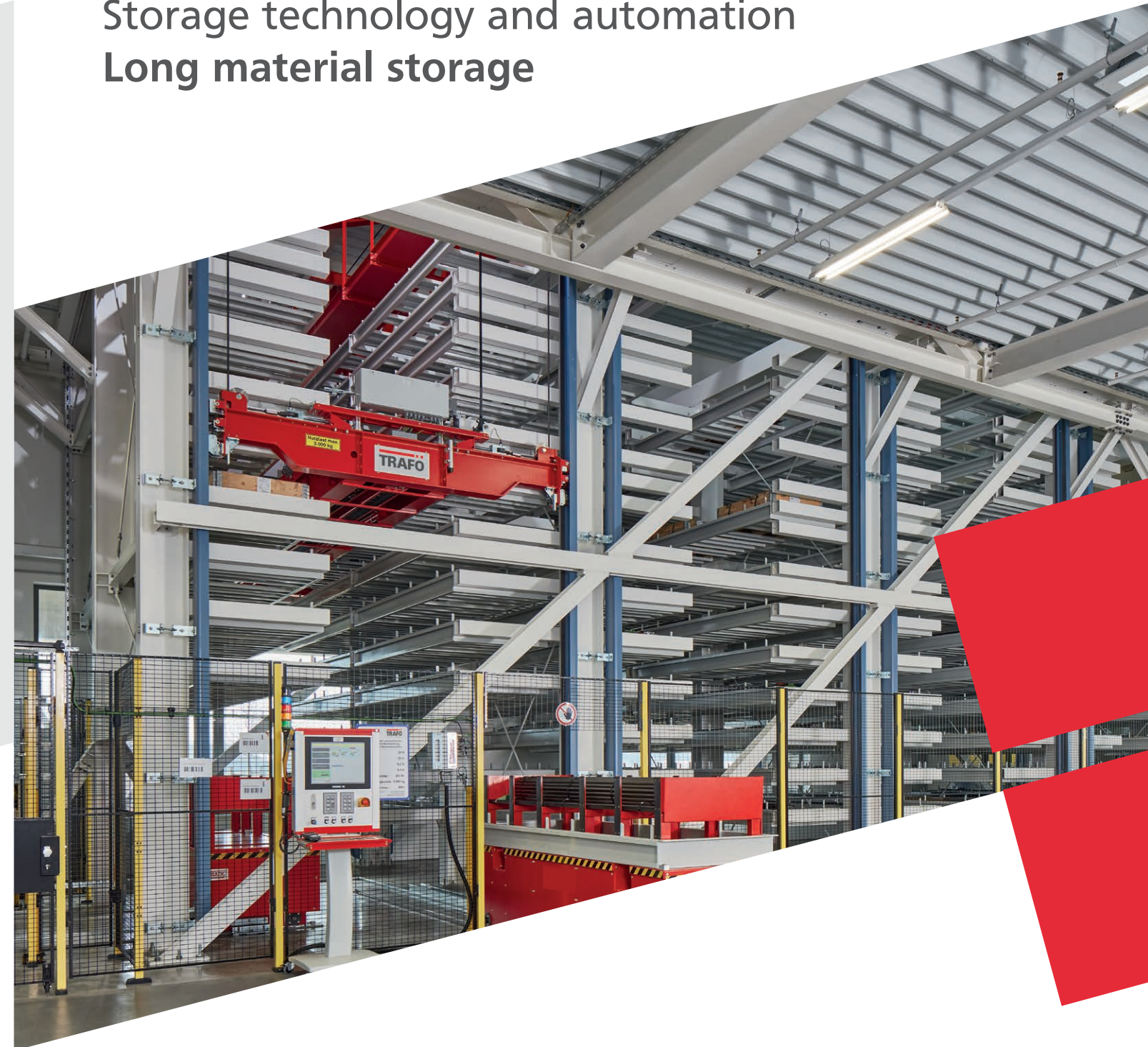
Our product portfolio covers stored material of all kinds.

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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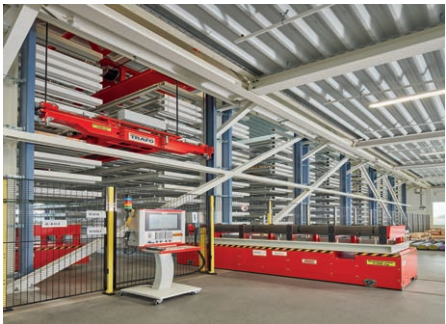


LONG MATERIAL STORAGE

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

Müller Präzision GmbH in Cham works in the entire range of machining metal processing. High-quality production takes place in-house. The special requirements of a modern production were met by implementing a fully automated storage solution for raw material in the form of bunches. The free-standing steel shelf is divided into two storage lines with 6 shelf aisles each, including 303 storage bins. The payload per stored cassette is 3,000 kg, corresponding to a total capacity of about 910 tons of material on an area of only 230 m².

The climbing storage and retrieval machine is a technical masterpiece of the facility. With a special movement device, it can supply both shelf lines within an aisle, which permits an extremely compact build. A telescoping system on the lifting crossbeam moves the robust system cassettes within the facility. The system cassettes are designed so that the different materials, such as pipe bundles, boxes and euro pallets can be stored and transported securely. A transverse carriage in the roofed-over outdoor area loads the storage system. Secured with a safety laser scanner, the carriage moves fully automatically in this area. An additional longitudinal carriage presents the requested cassettes with the required material within production.

Project Data Long material storage

Year of construction	2017
Storage length	25 m
Storage width	8,5 m
Storage height	9 m
Number of system cassettes	303 units
Payload per system cassette	3 t
Total warehouse payload	909 t
Number of storage and retrieval machines	1 unit
Number of stations	2 units

Control and software solution

The central unit that controls all processes is the warehouse management system (Lagerverwaltungssystem; LVS). An intuitive software interface installed on touchscreen terminals at the stations serves to operate the system. The operator is able to send requests for new material or empty cassettes to the warehouse administration via mobile barcode scanners on the stacker or the machine already. In this case, the warehouse management system communicates with the host system, ensuring additional efficiency at the system. Material postings, demand requisitions and the current warehouse status can still be viewed and executed at every terminal. The LVS command centre coordinates all processes and movements in the system and submits all data inventories to the superordinate ERP system.