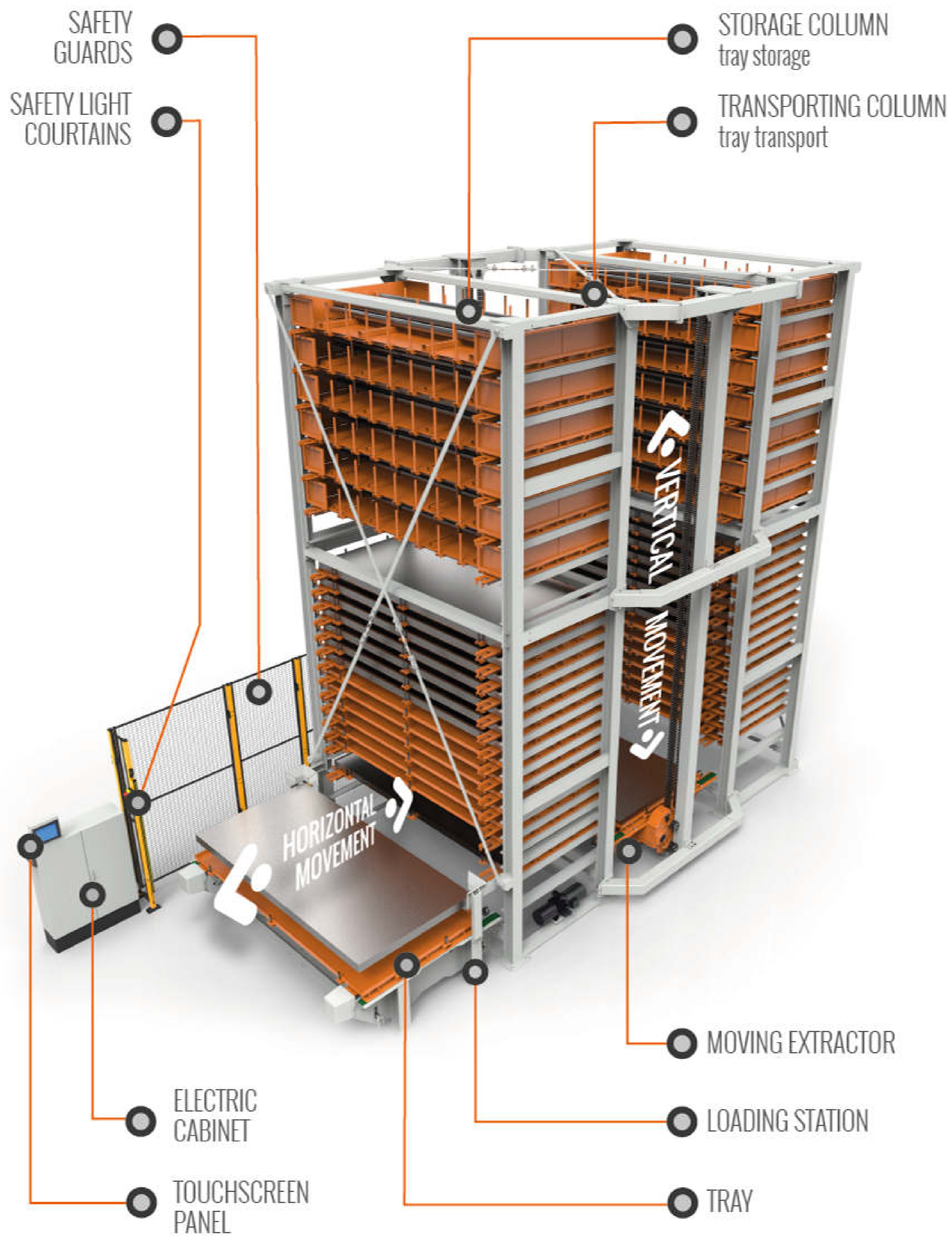


AUTOMATED
STORAGE
SYSTEMS

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AUTOMATED STORAGE SYSTEM TwinTower®



TECHNICAL DATA

TYPE OF STORED GOODS/MATERIALS	TRAY DIMENSIONS *)	MAX. LOAD CAPACITY	SYSTEM HEIGHT
STEEL SHEETS	2 m x 1 m 2.5 m x 1.25 m 3 m x 1.5 m 4 m x 2 m	up to 5000 kg	up to 20 m
BARS, PROFILES, PIPES	6.1 m x 0.62 m; 12.1 m x 0.62 m;	up to 5000 kg	up to 20 m
*) other dimensions available on demand			

LOADING AND UNLOADING

MANUALLY

It is possible to collect materials manually in case of storage of lightweight goods or if the process of picking is carried out straight from the tray. To improve the operator's work, special loading and unloading stations might be used.

There are many devices facilitating manual collection of materials e.g. roller protruding bars or device tilting the tray towards the operator. Appropriate selection of this type of devices allows for increased comfort and ergonomics of work.



WITH CRANE OR GANTRY CRANE

A crane with magnetic or vacuum clamp is a convenient way to collect materials. It guarantees easy and fast shifting of parts of material from the system to neighbouring machines. It is also possible to mount the crane straight on the system's structure.



WITH FORKLIFT LOADER

In case of storing materials on pallets, a forklift loader is often the fastest method of loading. Operating with this machines requires mounting of relevant protection - bumper blocks and shields.

Moreover, leading elements have to be mounted to assure that the materials are properly located on a tray. The use of special frame with lifting bars enables fast removing of pallets and loading materials without pallets.



DESCRIPTION OF SYSTEMS AND EXTERNAL STATIONS



TwinTower® STORAGE SYSTEM WITH FIXED EXTERNAL STATION

Fixed external loading and unloading station provides easy access to stored material. It has to be used in case of loading with crane or gantry crane.



MonoTower® STORAGE SYSTEM

This system consists of single storage column and transporting column. Loading and unloading is carried out directly from extractor.

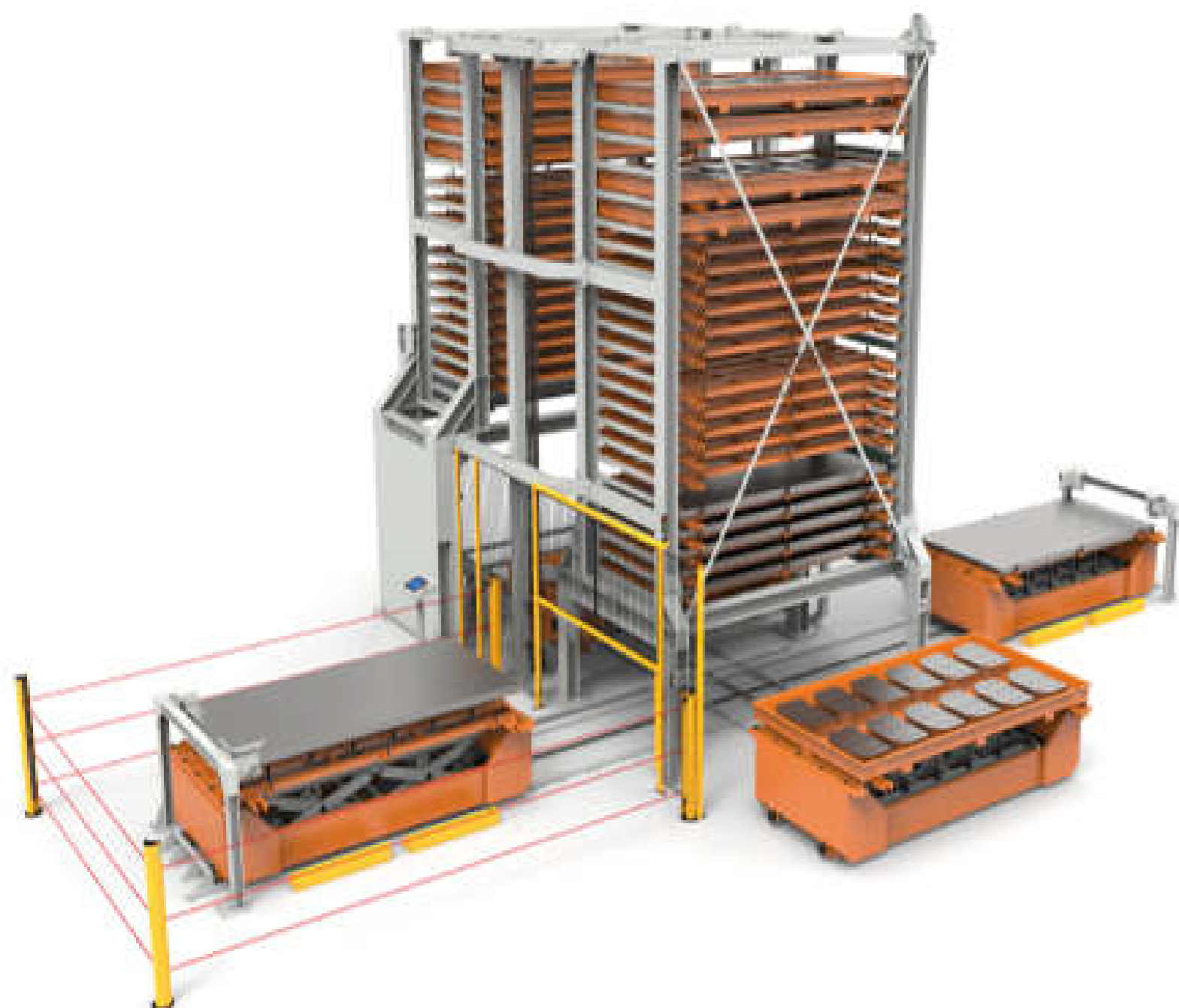


TwinTower® STORAGE SYSTEM WITHOUT STATION

The system consists of two storage columns and one transporting column. The access window can be installed in front or back storage column.

TwinTower® STORAGE SYSTEM WITH MOVABLE EXTERNAL STATION

Movable station works in exactly the same way as fixed one, but it hides inside the system when not used. Station can protrude from each storing column in any direction. It can also move to the next room or even outside the building.



TwinTower® STORAGE SYSTEM WITH STATION INTEGRATED WITH MACHINE LINE

Station can be fully integrated with machine line. Loading and unloading of the system can be carried out automatically. Station may transport e.g. selected type of steel sheet to laser cutting machine and receive ready elements.





AUTOMATED STORAGE SYSTEMS

Constant pressure of competitors and development of state of the art technologies forces companies to improve their standards continuously. This pressure stimulates motivation to seek the newest technological solutions that support production and allow for efficient storage management. The main drives of changes are automation of logistical procedures and saving on storage space.

MonoTower® and TwinTower® Automatic Storage Systems are perfect examples of modern solutions in warehouse management. They allow for multi-tier storage of heavy and oversize materials, such as steel sheets, profiles or bars.



SAVING
on warehouse space



SAVING
on time of logistics operations



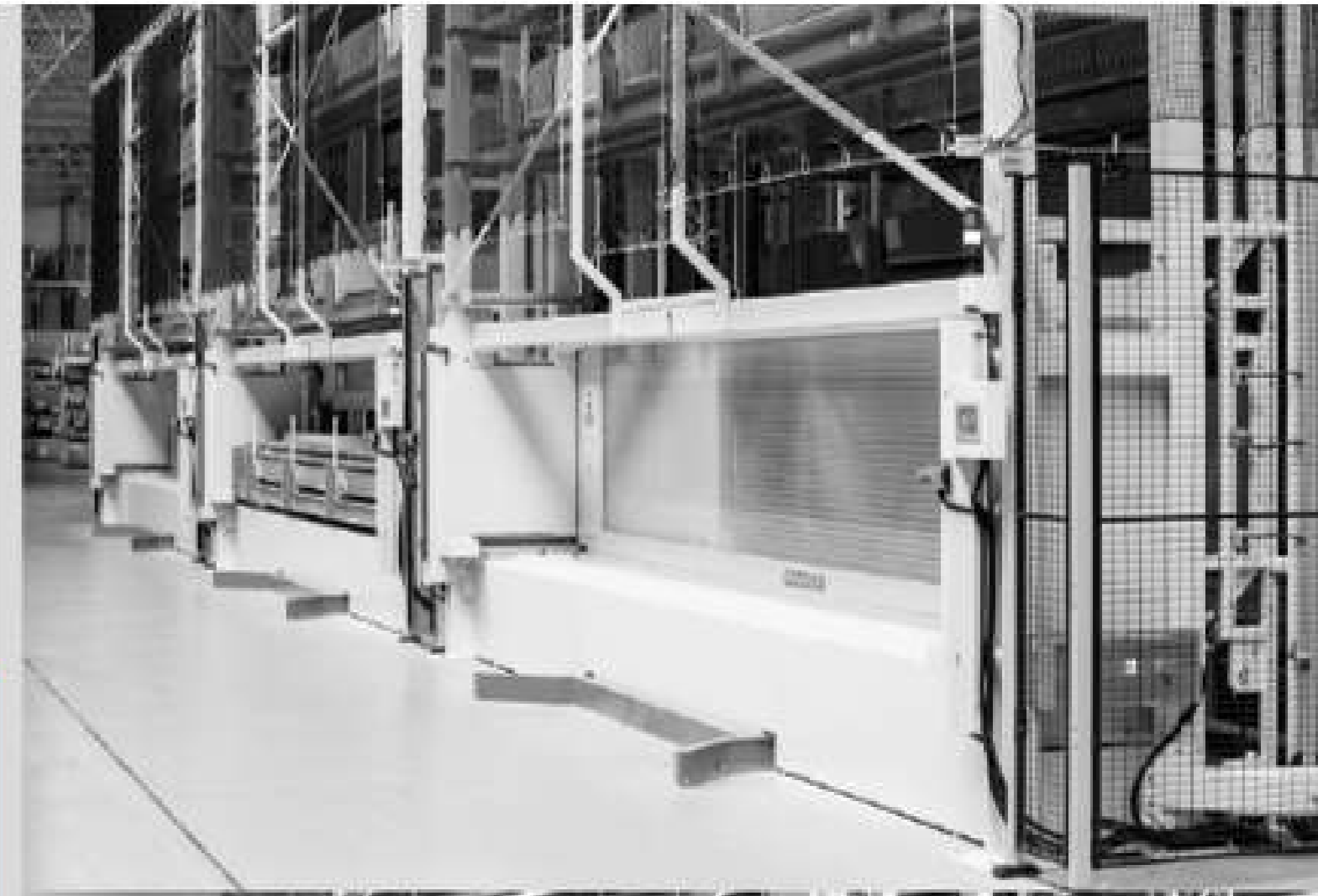
EASY AND FAST ACCESS
to storage materials and tools



IMPROVED SAFETY
in storage process



INTEGRATIONS WITH SYSTEMS
WMS, ERP class



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