



for color and printing

**LETTERO
FLEXO
STORAGE
SYSTEMS**



SMART STORAGE FOR **FLATBED & ROTARY DIES**

At Lettero, we design and build innovative storage solutions for flatbed and rotary dies and flexographic plates. Our systems protect your valuable tools, optimize warehouse space, and streamline everyday operations. With ergonomic handling, precision engineering, and Industry 4.0 compliant software, **Lettero gives your production the efficiency and safety it needs to grow.**



EFFICIENT. SAFE. FUTURE-READY.

FLATBED DIE STORAGES

The flatbed die storage system consists of storage racks equipped with rail guides and cassettes for holding the dies in place. Each cassette is placed in a designated location on the rack. Smaller rack systems are operated manually using a forklift truck, while larger ones use a stacker crane.

The crane is guided by the operator. It moves manually along the overhead rails, while vertical movement is motor-assisted for efficient lifting and lowering. This enables the operator to handle tools smoothly and safely, especially in tall storage setups. The crane supports 360-degree rotation. When not in use, the crane can be “parked” higher up to allow free passage in front of the storage.

The ergonomic control panel and surveillance cameras provide safe and quick access to all storage levels from the operator's position. The provided software is intuitive, user-friendly and can be upgraded by a storage management module. Selected system options comply with Industry 4.0 requirements.

The stacker crane can handle one or two rows of racks. The number of rack levels can be adjusted according to the user's needs, available warehouse space, and cassette dimensions. It can reach up to 5 levels for the largest cassette size, and even more for smaller cassettes, up to 10 meters in height.



The system's design and materials make it exceptionally rigid and durable. The flatbed die stacker system is available in semi-automatic or manual versions for cassette-rack positioning.



The flatbed die stacker system is available in semi-automatic or manual versions for cassette-rack positioning.

SEMI-AUTOMATIC VERSION

The manually moved crane is guided by intelligent software, ensuring precise positioning and safe handling. The operator selects or scans the required cassette using the touchscreen interface, and the system automatically identifies its exact storage location and guides the cassette gripper accordingly.



LOAD LOCATION PREVIEW

CONTROL PANEL

OPERATOR STATION

CODE SCANNER

MANUAL VERSION

The cassette is manually positioned on the rack with the use of an operator-manned crane, aided by monitoring cameras.



LOAD LOCATION PREVIEW

OPERATOR STATION

FLATBED DIE STORAGES KEY FEATURES



Adjustable rack system up to **10 m height** and multiple storage level



Easy operator control panel with camera monitoring



Semi-automatic or manual version available



Highly rigid construction



Optional photopolymer plate panels for added versatility

4.0

Industry 4.0-compatible for smart data-driven production

CASSETTES

Lettero cassettes are designed primarily for storing and transporting flat dies. Each cassette can contain everything required for one complete set of production tools. They are made of galvanized steel sheets. There are 4 available types of cassettes: **K1**, **K2**, **K3** and **K1-Foldable**. The foldable cassette is easy to assemble, and saves space and transportation costs.



GRIPPER

CASSETTE STORAGE RACKS

Cassettes can be stored in smaller racking systems using a standard forklift truck with a Lettero adapter and gripper, or an electric forklift truck with a cassette gripper and side shift.

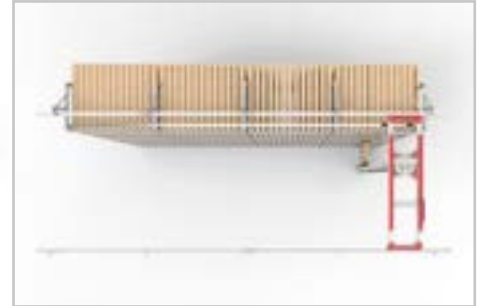
The racks are available in two heights, depending on the size of the cassettes, and can accommodate two or three storage levels.



FLATBED DIE STORAGES

1 Single rack storage for flatbed dies

- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



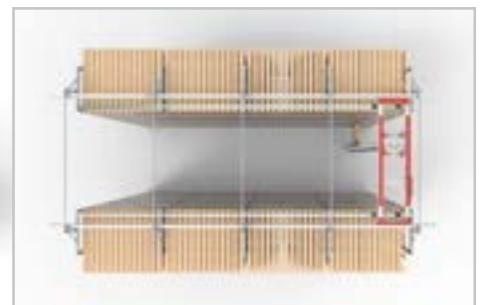
2 Single rack storage for flatbed dies and printing plates

- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



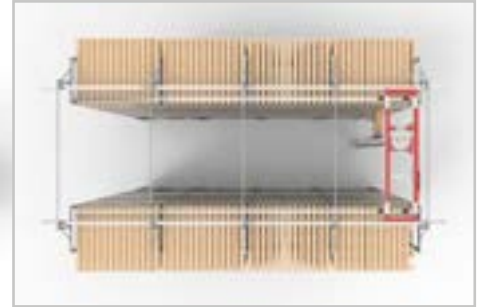
3 Double rack storage for flatbed dies

- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



4 Double rack storage for flatbed dies and printing plates

- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



5 Cassette rack type RS for forklift handling

- Simple and organized
- Two rack heights
- Two or three storage levels
- Photopolymer hanger panels
- Forklift compatible
- Cassette side protection



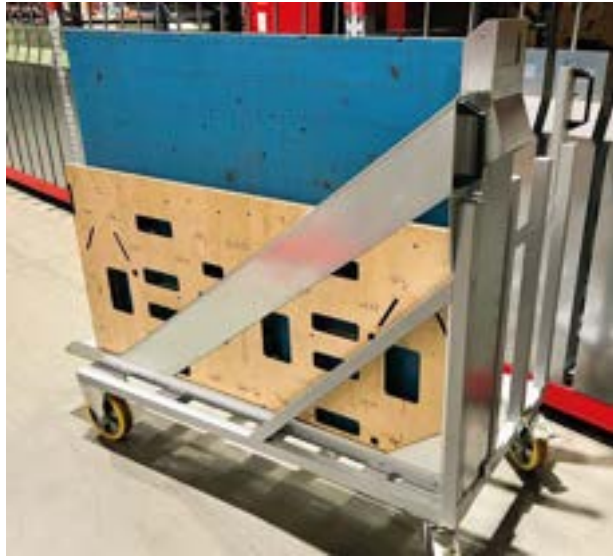
6 Cassette rack type TS for forklift handling

- Simple and organized
- Two rack heights
- Two or three storage levels
- Photopolymer hanger panels
- Forklift compatible



CASSETTES TRANSPORT TROLLEYS

A transport trolley for cassettes is designed to transport flat die cassettes between the storage and the converting line during the production process. It has a standard capacity of three cassettes. The trolley has large rubber wheels with front-mounted brakes to ensure stable and safe operation.



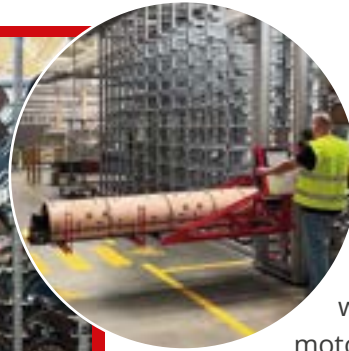
HANGER PANELS

The lowest level of the racks in all systems can be equipped with hanger panels intended for storing photopolymer plates. These panels are fitted with guide rails that allow the plates to be easily inserted and securely held in place.



ROTARY DIE STORAGES

The rotary die storage system consists of storage racks with special guide rails which allow for the direct placement of dies. Smaller rack systems are operated manually using a forklift truck, while larger ones come equipped with a stacker crane.



The stacker crane for rotary dies is guided by the operator. It moves manually along a rack in one-rack systems or between racks in double-rack systems, while vertical movement is motor-assisted for efficient lifting and lowering. This enables the operator to handle tools smoothly and safely.

The ergonomic control panel and surveillance cameras provide a quick access to all storage levels from the operator's position. The software is intuitive, user-friendly and can be extended with a storage management module. The selected system options comply with Industry 4.0 requirements.

The stacker crane can handle one or two rows of racks. The number of rack levels can be adjusted according to the user's needs, the available warehouse space, and the number of dies. It can reach up to 10 meters in height. The system's design and materials make it exceptionally rigid and durable. The rotary die stacker system is available in semi-automatic-plus or semi-automatic or manual versions.



The rotary die stacker system is available in semi-automatic or manual versions.



SEMI-AUTOMATIC PLUS

The manually moved crane is guided by intelligent software. The operator selects or scans the required rotary die using the touchscreen interface, and the system automatically identifies its exact storage location and guides the die carriage accordingly. The horizontal movement of the rotary die in and out of the rack is performed automatically.



SEMI-AUTOMATIC

The manually moved crane is guided by intelligent software, ensuring precise positioning and safe handling. The operator selects or scans the required rotary die using the touchscreen interface, and the system automatically identifies its exact storage location and guides the die carriage accordingly.



MANUAL VERSION

The position of the rotary die on the rack is achieved by manually moving the crane by the operator, with the support of the monitoring cameras.

ROTARY DIE STORAGES

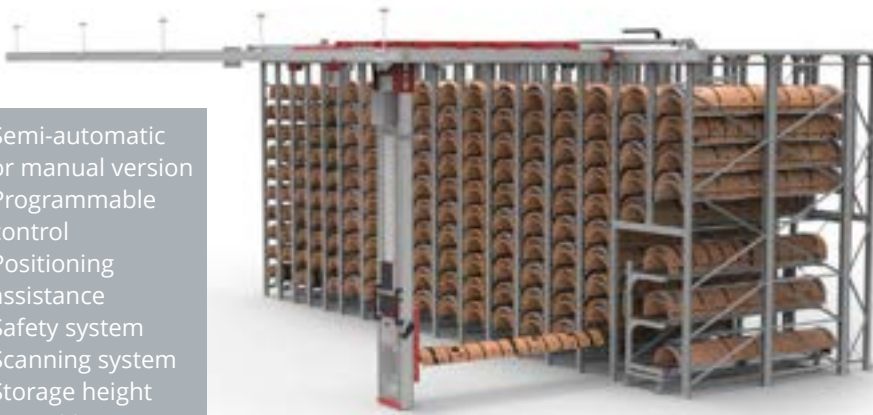
1 Single rack storage for rotary dies Semi-automatic Plus



- Semi-automatic version
- Automatic die movement in the rack
- Programmable software
- Automatic positioning assistance
- Safety system
- Scanner system



2 Single rack storage for rotary dies



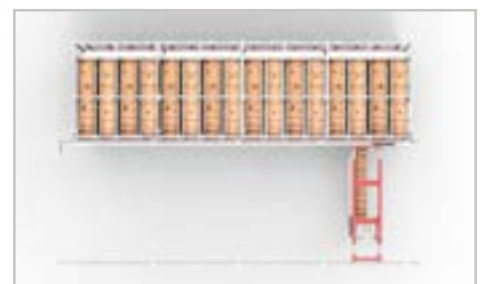
- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



3 Single rack storage for rotary dies and printing plates



- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



4 Double rack storage for rotary dies



- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



5 Double rack storage for rotary dies and printing plates



- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m



6 Rotary die rack for forklift handling



- Simple and organized
- Limitless rows of racks
- Die protection
- Forklift compatible



FLAT AND ROTARY DIE STORAGES

1 Mixed double rack storage for flat and rotary dies

- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m
- Perfect for various tools



2 Mixed double rack storage for flat and rotary dies and printing plates

- Semi-automatic or manual version
- Programmable control
- Positioning assistance
- Safety system
- Scanning system
- Storage height up to 10 m
- Perfect for various tools



ROTARY DIE STORAGES KEY FEATURES



Single or double rack configurations



Adjustable storage up to **10 m height**



Semi-automatic and manual versions available



Semi-automatic Plus version with automatic horizontal die movement



Photopolymer plate storage option

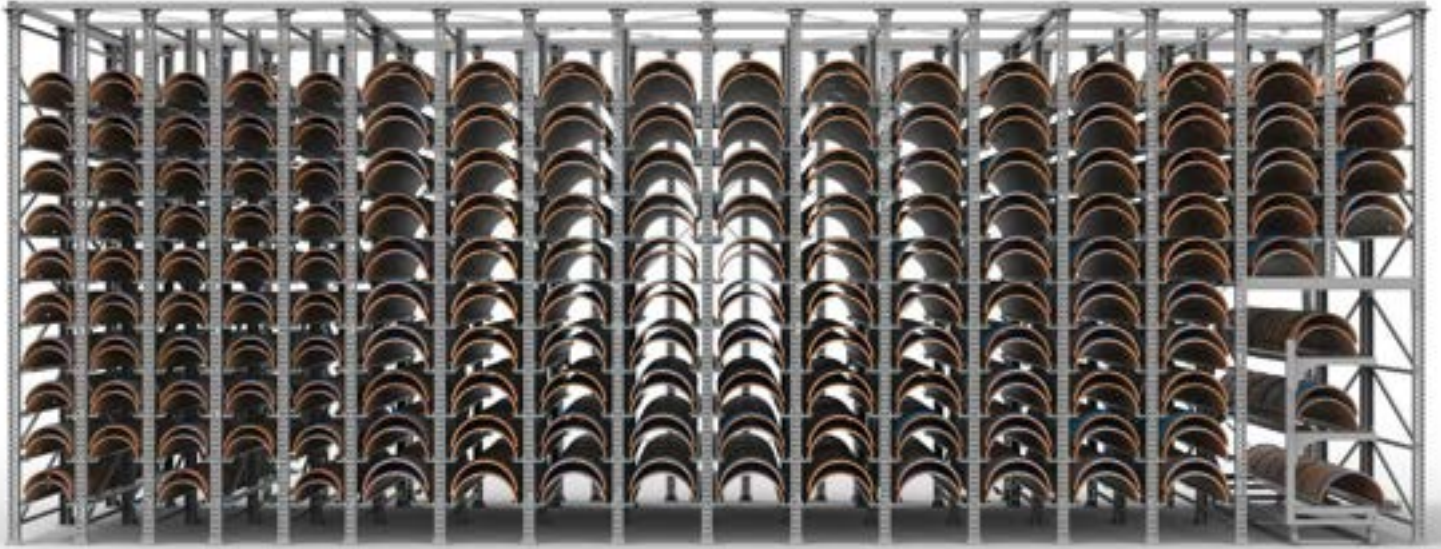
4.0

Industry 4.0- compatible for smart, data-driven production

ROTARY DIE STORAGE RACKS

Rotary dies can also be stored in smaller racking systems using a standard forklift truck with Lettero adapter and gripper, or an electric forklift truck with a lettero die gripper and side shift.

The lowest level of the racks in all systems can be equipped with hanging panels intended for storing photopolymer plates. These panels are fitted with a guide rail that allows the plates to be easily inserted and securely held in place.



TRANSPORT TROLLEYS FOR ROTARY DIES

The Lettero trolley for rotary dies is constructed to ensure a safe and efficient transport of the dies between the storage and the converting lines in the production. It can be efficiently loaded and unloaded.

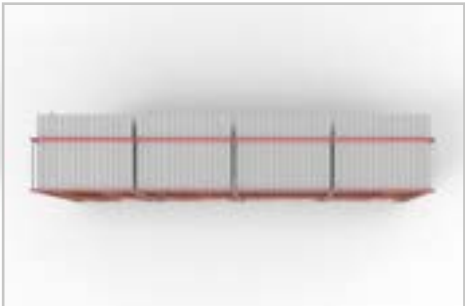
There are two types of trolleys with stationary or movable die shelves.



PRINTING PLATE STORAGE

Printing plate storage rack

- Simple and organized
- Photopolymers protection
- Die rack compatible
- Two storage levels



CASSETTES

Lettero cassettes are designed for storing and transporting flat dies. Each cassette can contain everything required for one complete set of production tools (cutting die, stripping die, guillotine board and printing drawing). There are 4 available types of cassettes: **K1**, **K2**, **K3** and **K1-Foldable**. The foldable cassette is easy to assemble, and saves space and transportation costs.

K1	1500 x 1100 x 140/ 170/290
K2	1100 x 900 x 140/ 170/290
K3	900 x 600 x 140/ 170/290
K-Foldable	1500 x 1100 x 170

* dimensions are given in millimeters



CASSETTE TRANSPORT TROLLEY

The trolley for cassettes is designed to safely transport of flat dies between the storage and the converting line during the production process.

- Easy to handle
- Standard capacity of three cassettes
- Large rubber wheels with front-mounted brakes



ROTARY DIE TRANSPORT TROLLEY

The Lettero trolley for rotary dies is designed to safely transport of rotary dies between the storage and the converting lines in the production.

- Easy to handle
- Standard capacity of 3 dies
- Large rubber wheels with front-mounted brakes
- Efficiently loaded and unloaded
- Stationary or movable shelves option



FORKLIFT TROLLEY

The lettero cassette storage racks are complemented by a electric forklift with side shift. The forklift has a manual drive and electric lifting of a special gripper for cassettes.



FORKLIFT ADAPTER WITH GRIPPER

The storage systems can be operated using a standard forklift truck thanks to the use of the Lettero adapter with a cassette gripper.



STACKER CRANE MAIN FEATURES

FLAT DIES STACKER CRANE SINGLE AND DOUBLE RACKS			
	MANUAL	SEMI-AUTOMATIC	SEMI-AUTOMATIC PLUS
vertical movement	A	A	X
moving along the racks	M	M	X
cassette positioning	M supported by cameras	M on-screen instructions, scanner	X
cassette feeding	M supported by cameras	M supported by cameras	X

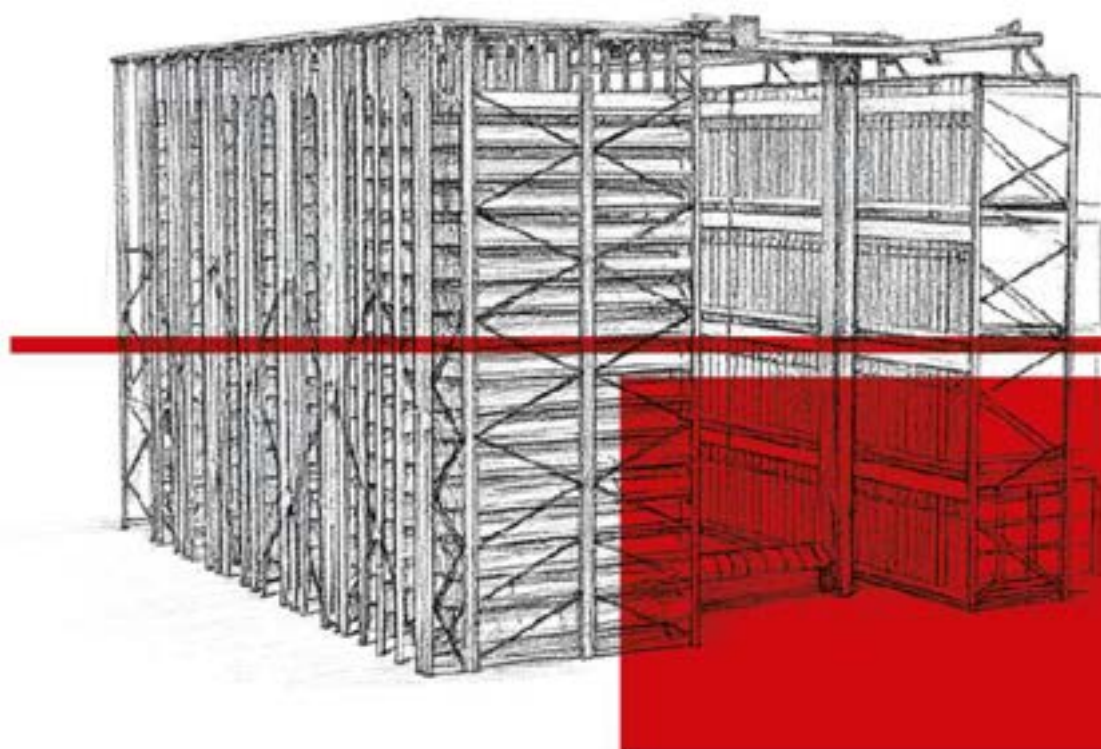
ROTARY DIES STACKER CRANE SINGLE AND DOUBLE RACKS			
	MANUAL	SEMI-AUTOMATIC	SEMI-AUTOMATIC PLUS
vertical movement	A	A	A
moving along the racks	M	M	M
rotary die positioning	M supported by cameras	M on-screen instructions, scanner	M on-screen instructions, scanner
rotary die feeding	M supported by cameras	M supported by cameras	A

MIXED SYSTEM STACKER CRANE (FLAT AND ROTARY DIES) SINGLE AND DOUBLE RACKS			
	MANUAL	SEMI-AUTOMATIC	SEMI-AUTOMATIC PLUS
vertical movement	A	A	X
moving along the racks	M	M	X
cassette/rotary die positioning	M supported by cameras	M on-screen instructions, scanner	X
cassette/rotary die feeding	M supported by cameras	M supported by cameras	X

A automatic
M manual
X not available

KARON lettero

for color and printing



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