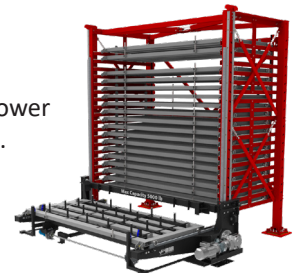


SHEET METAL VLS

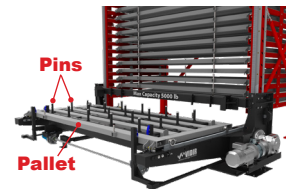
The Sheet Metal Vertical Lift System (VLS) is an automated storage and retrieval system (AS/AR) that utilizes an elevator to climb the front of the tower to deposit and retrieve cartridges weighing up to 5,000 lbs and deliver them directly to the ground level for further processing, increasing material storage and improving production flow. Further, integrating storage and processing can eliminate costly retrieval steps, increase production machinery uptime, and reduce associated labour.

CART LOADING

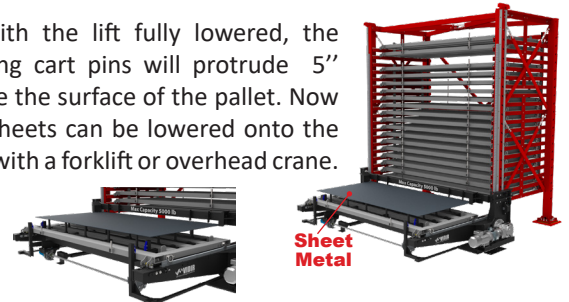
1. Call empty pallet from tower to go onto the loading table.



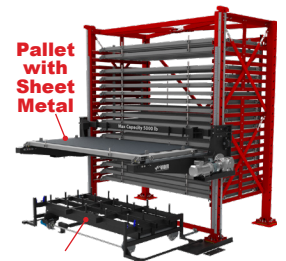
2. The lift will lower the pallet onto the table allowing the pins on the table to go through the open spaces of the pallet.



3. With the lift fully lowered, the loading cart pins will protrude 5" above the surface of the pallet. Now the sheets can be lowered onto the pins with a forklift or overhead crane.



4. The lift raises the pallet, lifting the sheets from the pins, and continues to raise the pallet and sheets to place them in the tower at the designated position.

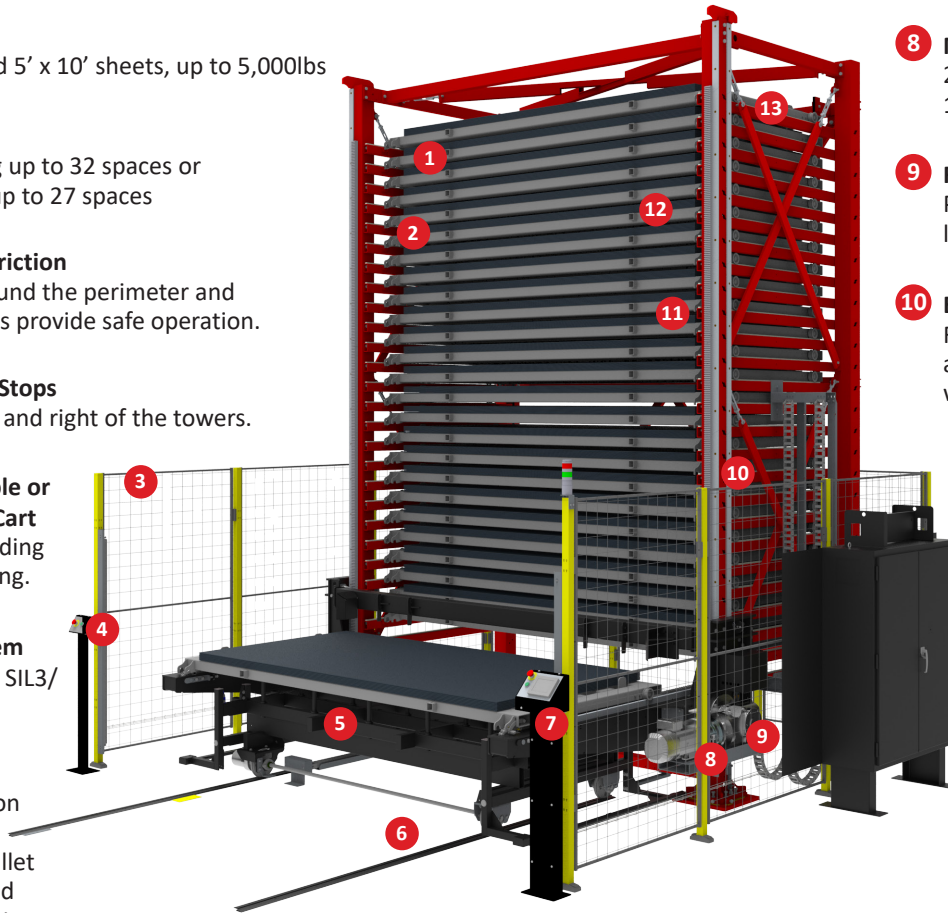


- Recovers average of 80% of your floor space
- Eliminates the need for forklifts during standard operation (operator, spotter, forklift)
- Reduce material changeover time by as much as 75%
- Utilizes overhead space for maximum storage density
- Contained storage environment prevents material damage
- Ergonomic design increases workplace safety and prevents injuries
- Improved productivity with more efficient SKU picking

Safe Handling • Easy Access • Maximum Storage • Fast Retrieval • Small Footprint

FEATURES & BENEFITS

- 1 Load Size**
Fits standard 5' x 10' sheets, up to 5,000lbs
- 2 Spacing**
3.5" spacing up to 32 spaces or
5" spacing up to 27 spaces
- 3 Access Restriction**
Fencing around the perimeter and
light curtains provide safe operation.
- 4 Emergency Stops**
Located left and right of the towers.
- 5 Loading Table or
Motorized Cart**
For easy loading
and unloading.
- 6 Safety System**
Designed to SIL3/
C14/PL e.
- 7 Controls**
VLS operation
controls
featuring pallet
selection and
movable cart
control.



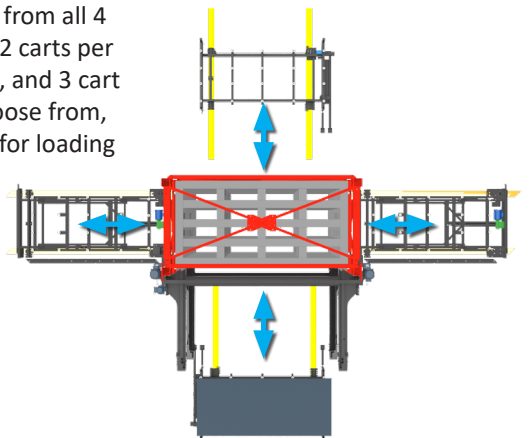
- 8 Motors**
2 x SEW KAF87 5hp motors &
1 x SEW KAF47 3/4hp
- 9 Rack & Pinion Drive System**
Precisely aligns and balances
lift automatically.
- 10 Braking System**
Features a process brake and
a redundant brake engaged
with the safety system.
- 11 Overload Sensing**
Lift returns to the
home position when
overloaded.
- 12 Pallet Safety**
Each pallet is individ-
ually locked in place
until released by the
elevator.
- 13 Overhead Space**
Fully maximizes
overhead space for
storage to recover
valuable floor space.

SPECIFICATIONS

TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
ELEVATOR SPECIFICATIONS		
Storage Width	120"	3048 mm
Storage Depth	60"	1524 mm
Max Height per Pallet	3.5" 5"	89 mm 127 mm
Max Load per Pallet	5,000lbs	2,268 kg
Lifting Speed	22 ft/min	6.7 m/min
Push/Pull Drive	42 ft/min	12.8 m/min
TOWER SPECIFICATIONS		
System Height	12' - 24'	3.65 m - 7.32 m
Loading Table	Optional	
Load/Unload Cart	Optional	

VLS ACCESS POINTS

With access from all 4 sides, up to 2 carts per lift available, and 3 cart styles to choose from, the options for loading and feeding production machines is limitless.



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