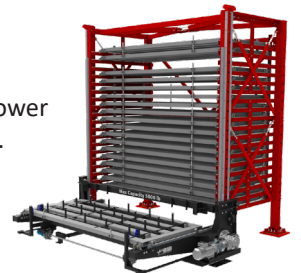


## SHEET METAL VLS

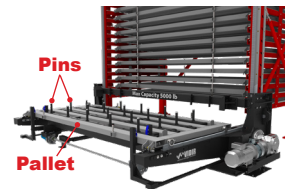
The Sheet Metal Vertical Lift System (VLS) is an automated storage and retrieval system (AS/AR) that utilizes an elevator to climb the front of the tower to deposit and retrieve cartridges weighing up to 5,000 lbs and deliver them directly to the ground level for further processing, increasing material 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.



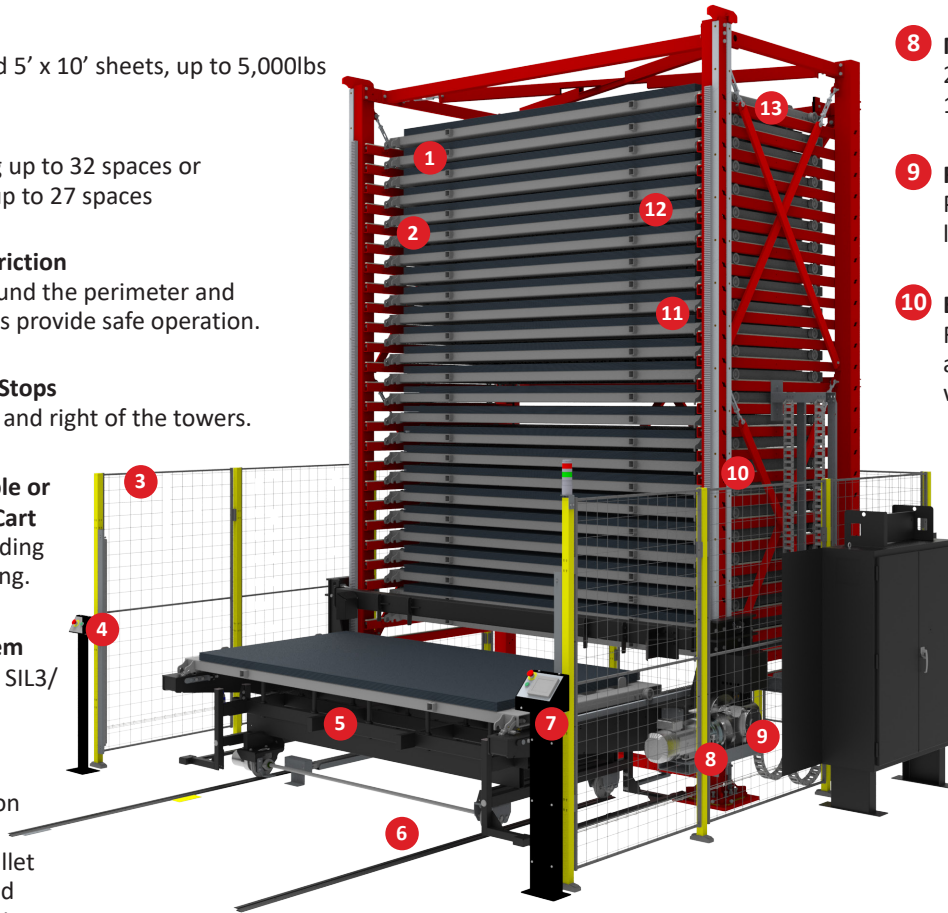
4. The lift raises the pallet, lifting the sheets from the pins, and continues to raise the pallet and sheets to place them in the tower at the designated position.



- 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

# 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.



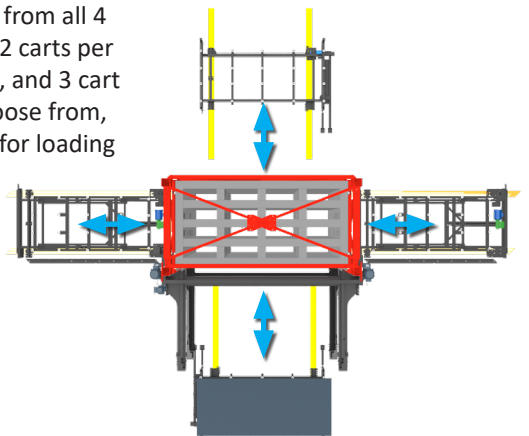
- 8 Motors**  
2 x SEW KAF87 5hp motors &  
1 x SEW KAF47 3/4hp
- 9 Rack & Pinion Drive System**  
Precisely aligns and balances  
lift automatically.
- 10 Braking System**  
Features a process brake and  
a redundant brake engaged  
with the safety system.
- 11 Overload Sensing**  
Lift returns to the  
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
<b>ELEVATOR SPECIFICATIONS</b>		
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
<b>TOWER SPECIFICATIONS</b>		
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.



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

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