Vertical Lift System (VLS)

SHEET AND BAR STOCK HANDLING SYSTEMS



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VERTICAL LIFT SYSTEM

The Vidir **Vertical Lift System** (**VLS**) is an automated material handling and storage system designed for sheet metal and linear goods in industrial applications. It takes advantage of high ceilings, while implementing a goods-to-operator work-flow. The VLS is a smart investment, as it provides greater storage density over traditional racking. It makes use of otherwise unused vertical space, reduces retrieval times, and ultimately increases throughput.





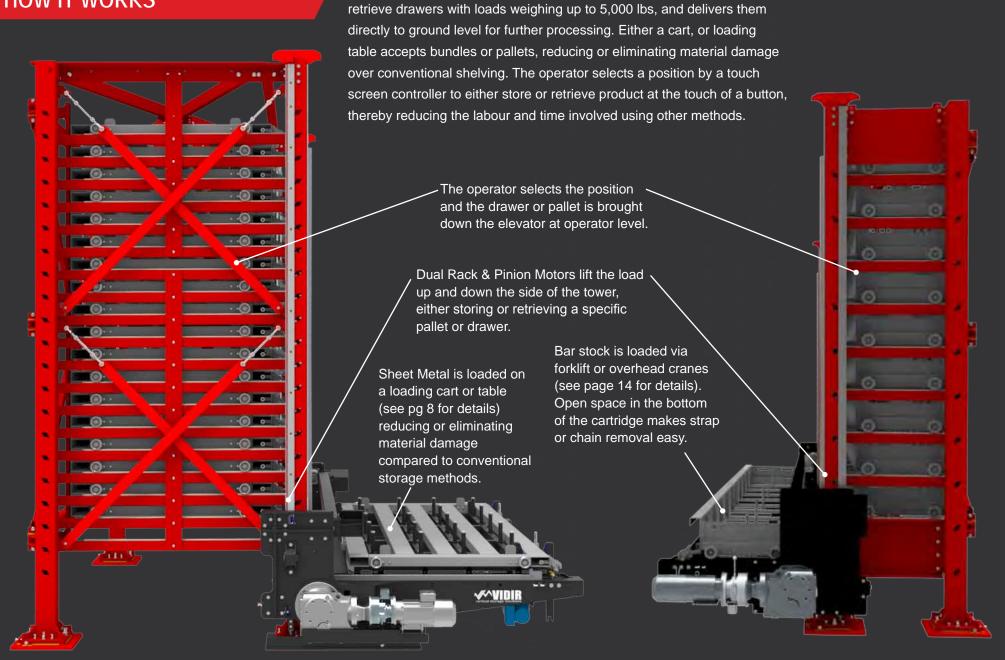
- Saves floor space by utilizing overhead space
- Meets SIL3/CAT4/PLe safety standards
- Eliminates the need for forklifts during standard operation (operator, spotter, forklift)
- Quick access to material
- Reduce material changeover time by as much as 75%

- Contained storage environment prevents material damage
- Ergnomic design increases workplace safety and prevents injuries
- Improved productivity with more efficient SKU picking



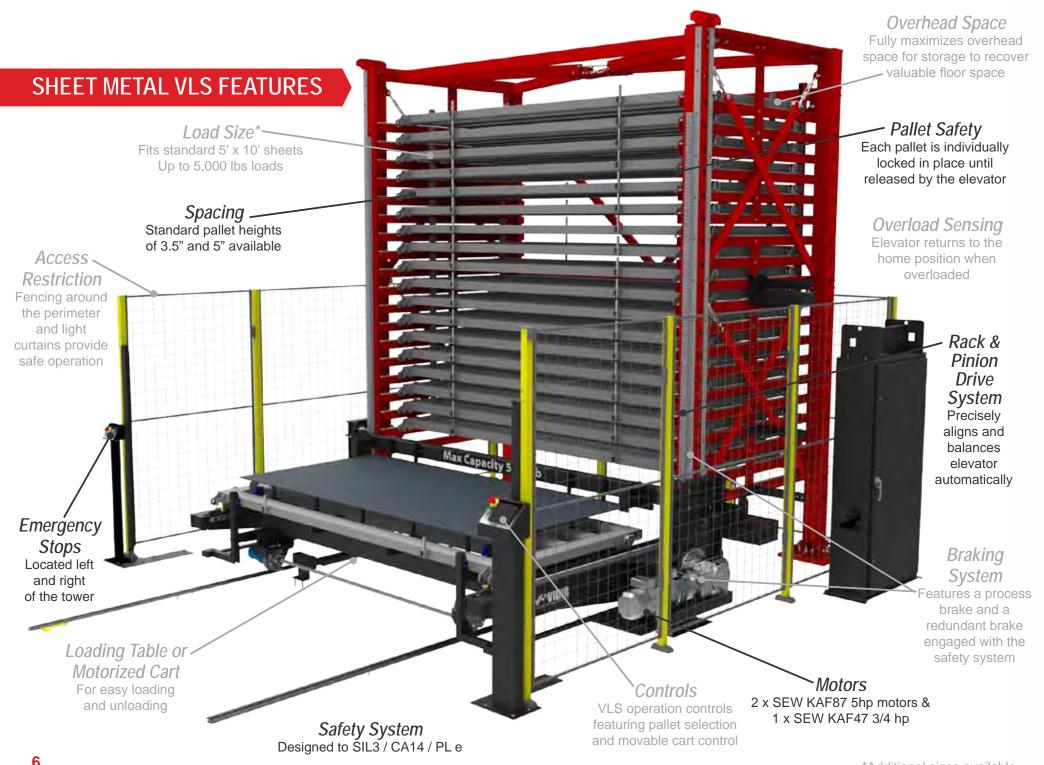


HOW IT WORKS



The VLS uses an elevator to climb the front of the tower to deposit and







SHEET METAL VLS SPECIFICATIONS

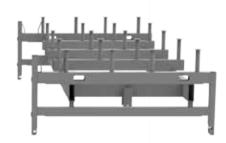
TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
ELEVATOR SPECIFICATIONS		
Storage Width	120"	3,048 mm
Storage Depth	60"	1,524 mm
Max Height per Pallet	3.5" 5"	89 mm 127 mm
Max Load per Pallet	5,000 lbs	2,268 kg
Lifting Speed	22 ft/min	6.7 m/min
Push/Pull Drive	42 ft/min	12.8 m/min
TOWER SPECIFICATIONS		
System Height	12' - 24'	3.65 m - 7.32 m
Loading Table		Optional
Load/Unload Carts		Optional

SHEET METAL VLS CART CONFIGURATIONS

DE-PALLETIZING SHEETS FROM SKIDS USING THE VIDIR LOADING TABLE

The Vidir loading table is the ideal accessory to the VLS as it aids the process of de-palletizing sheet metal from its wooden skids. The table consists of a series of movable pins that can be positioned across the table to fit properly in between the wood on a skid. Once the whole skid with the sheets is lowered onto the table the pins will hold the sheets up as the wooden skid falls down in between the pins. The sheets can then be easily lifted up with a forklift or crane while the wood can also be removed from the loading table.

1.



2



3.



4.



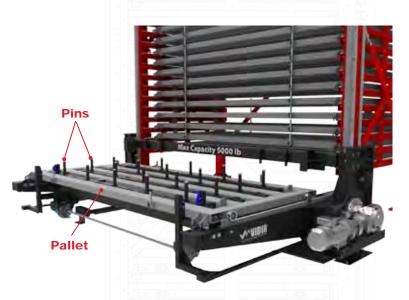


SHEET METAL VLS HOW TO LOAD

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 lowered onto the pins with



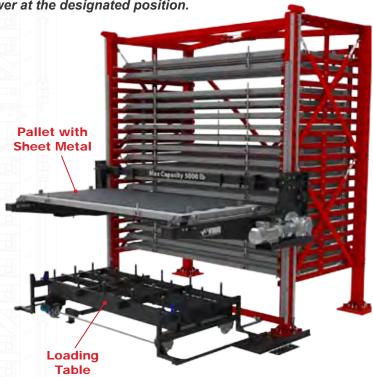
REDUCE RETRIEVAL TIME

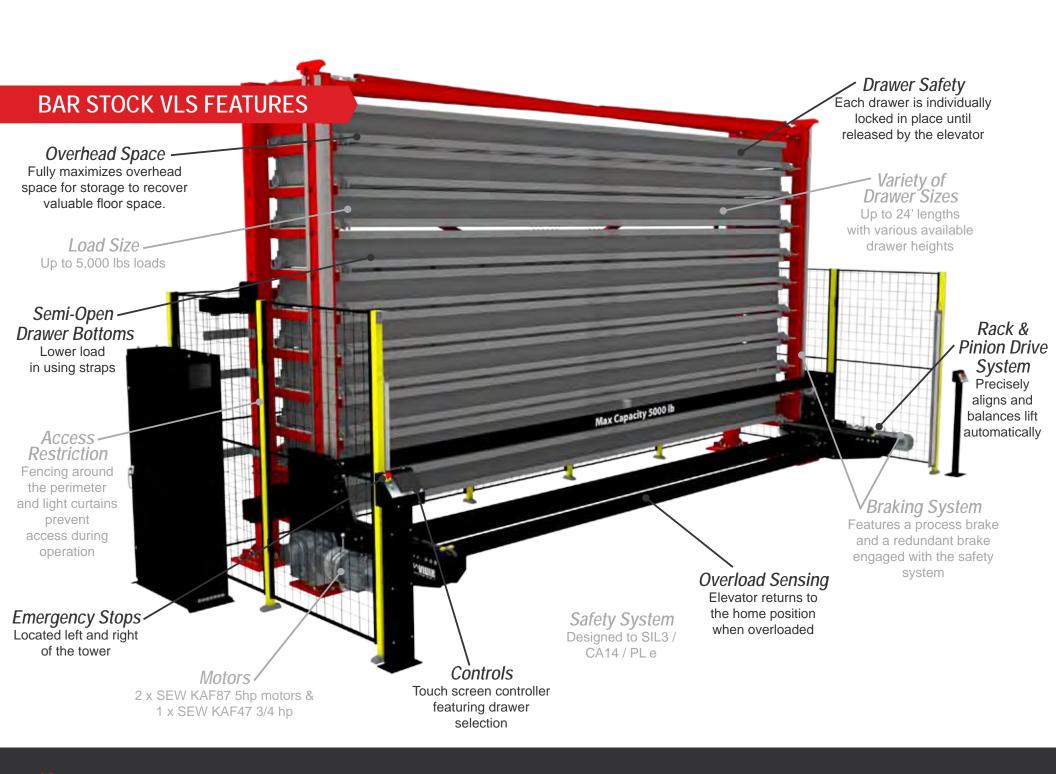
d, the loading cart pins will protrude 5" above the surface of the pallet. Now the sheets can be a forklift or overhead crane.

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.











BAR STOCK VLS HOW TO LOAD

 Load an empty drawer on the elevator and return to home position.



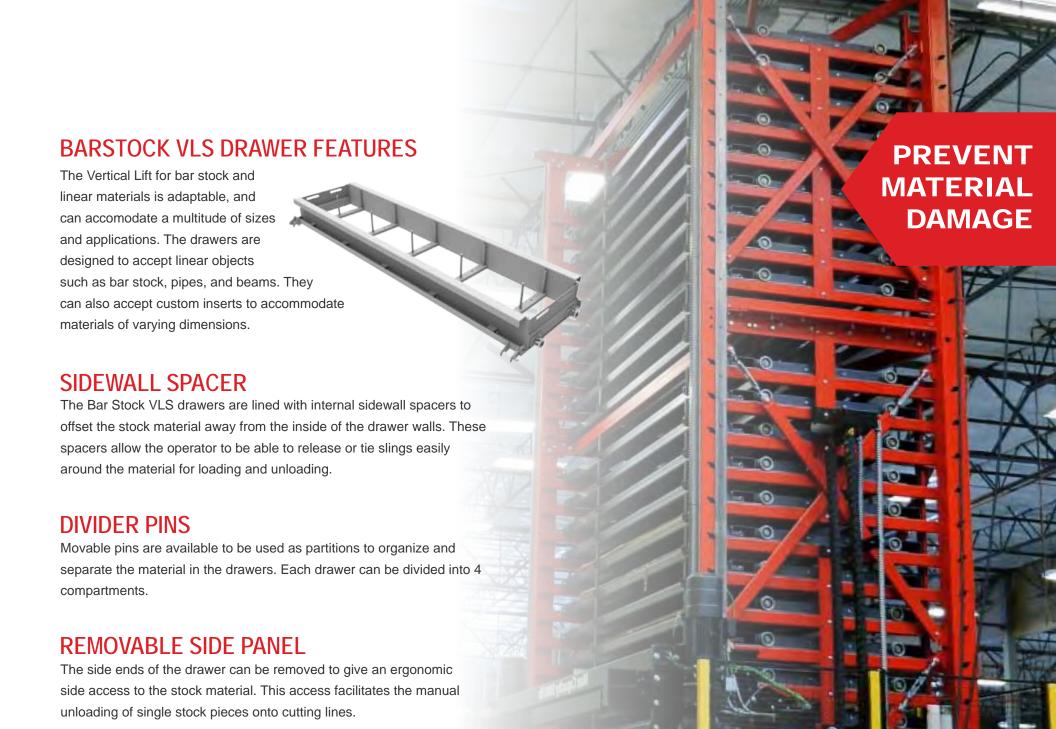
2. Load the bar stock material in the drawer using a forklift or overhead crane.

3. Remove straps or chains from the bar stock bundle via the openings in the bottom of the drawer.



4. Direct the elevator to the desired position.





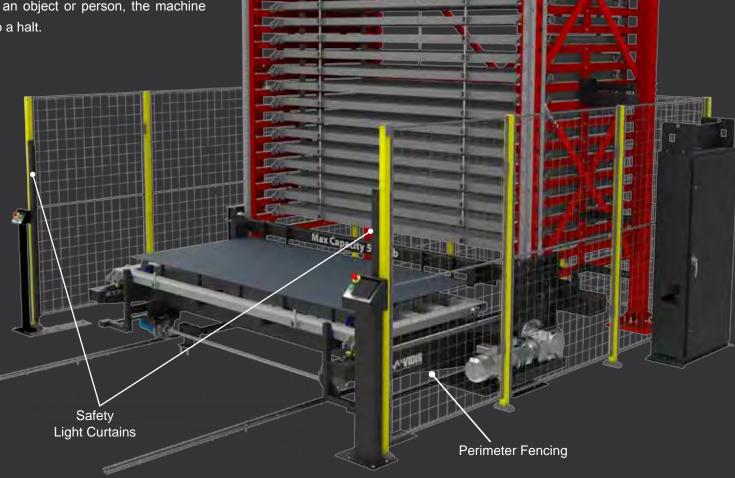
SECURITY & SAFETY

SAFETY LIGHT CURTAINS

Personnel protection is vital in automated processes. In this regard the Vidir VLS is equipped with the latest in photoelectric safety light curtains that meet the most stringent health and safety regulations. Light curtains come standard across the front of the elevator. Safety light curtains are typically used as electronic fences to detect personnel or large objects when they pass through the sensing field. Once the sensors detect an object or person, the machine operation immediately comes to a halt.

FENCING

The Vidir VLS comes equipped with perimeter fencing. Fencing provides a physical barrier that closes off the area around the VLS itself, allowing people to see the set perimeter of the work cell or system. These cages are several feet tall, and their design depends on the application and and the amount of area around that needs to be safeguarded.





OPTIONS & ACCESSORIES



SELF PROPELLED LONGITUDINAL INPUT/OUTPUT STATION

Cart that travels forward/reverse in front of the VLS to either receive material or feed sheet lasers. Features a zero corner for automated pickup by production machines.



SELF PROPELLED LATERAL INPUT STATION

Cart that can access the VLS from either side or the rear. Can travel up to 30' and features retractable pegs for ease of use with fork trucks and a zero corner for automated pickup by production machines.



PREVENTATIVE MAINTENANCE

An annual inspection program designed to extend the life of your vertical lift.



ABOUT VIDIR





wirding is a leading manufacturer and worldwide supplier of automated vertical storage and material handling systems. Vidir's vertical storage designs are versatile and flexible accommodating materials with diverse profiles ranging from rolled goods applications to printing plates. By altering the carrier design, we've developed models for storing tires, garments, cylinders, and manufacturing items like small parts and bar stock. To further optimize your use of space, Vidir's engineering staff can customize and adapt our standard line of carousel products for your specific storage and retrieval needs.



Installations in over 40 countries worldwide



40,000 + global installations



Industries served: Manufacturing, Aerospace, utomotive, Retail, Healthcare, Warehouse/Distribution and many more.



Vidir is a leading manufacturer and worldwide supplier of Automated Vertical Carousels.

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