



DUAL-TOWER SHEET METAL VLS

**Store Over
448,000 lbs of
Sheet Metal in
Just 280 Sq Ft**



- Recovers average of 80% of your floor space
- Double the storage density per square foot compared to single tower models
- 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

As North America's leading automated sheet metal storage rack, the Vidir Dual-Tower VLS is a high-density ASRS built for safety, efficiency, and reliability.

Featuring up to 68 storage positions (6,600 lbs each), the motorized lift delivers sheets to ground level at the push of a button, eliminating manual retrieval and increasing workplace safety, and improving material flow.

Material flow is enhanced through optimized storage density and automation that minimizes mechanical strain, increases throughput, and accelerates ROI.

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

**Toll Free: 800.210.0141
www.vidirsolutions.com**

FEATURES & BENEFITS



1 DUAL TOWER

The two-tower design doubles storage capacity in the same footprint while maintaining efficiency.

2 LOAD SIZE

The system accommodates multiple sheet sizes, 4x8, 5x10, 6x12, or 2 m x 4 m, with pallets rated to handle individual loads of up to 6,600 lb ($\approx$ 3,000 kg).

3 SPACING

Choose between two pallet spacing options: a narrow 3.5-inch spacing that yields up to 32 storage positions, or a wider 5-inch spacing providing up to 27 positions to suit different material thicknesses.

4 ACCESS RESTRICTION

Perimeter fencing and integrated light curtains safeguard the operating area. If anyone enters the guarded zone, the light curtain triggers an immediate halt, ensuring safe operation.

5 CHAIN DRIVE SYSTEM

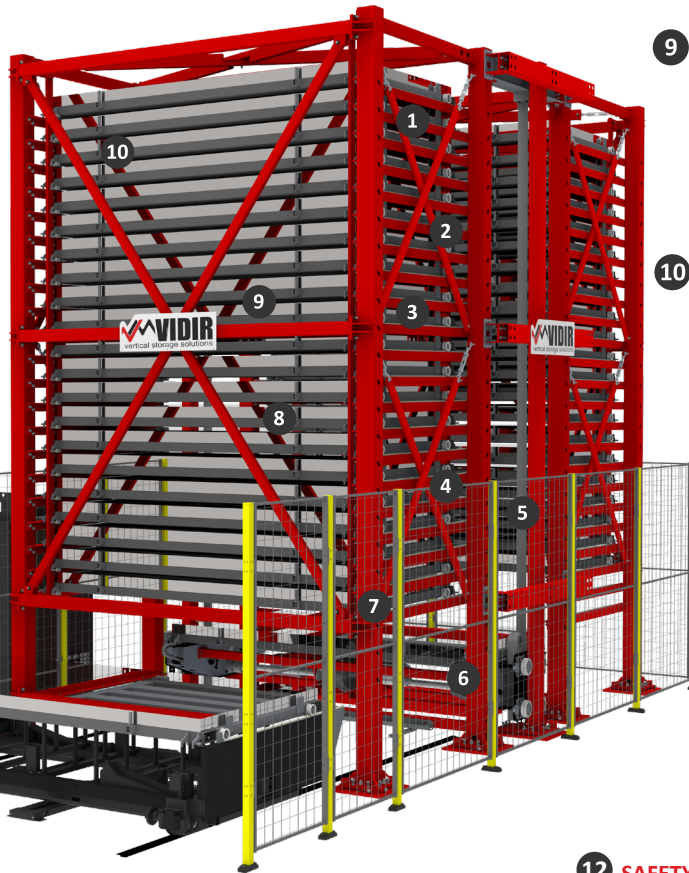
A durable chain drive mechanism powers the vertical lift. This robust design ensures dependable operation, long service life, and minimal maintenance.

6 MOTORS

High-precision servo motors drive the lifting and positioning mechanisms, providing smooth, accurate motion and consistent performance.

7 BRAKING SYSTEM

A built-in spring-applied brake automatically holds the lift in place whenever power is removed, ensuring safety and stability even in the event of a power interruption.



9 PALLET SAFETY

Each storage position is designed with a 2% decline to prevent unwanted movement until the lift is called to retrieve the pallet from its stored location.

10 OVERHEAD SPACE

By storing material vertically, the system maximizes overhead space and frees up valuable floor area. This allows you to increase capacity without expanding your footprint.

11 MOTORIZED CARTS

A powered cart moves pallets into and out of the unit, making loading and unloading easier and reducing the physical effort required by operators.

12 SAFETY SYSTEM

Designed to meet SIL3, C14, and Performance Level e safety standards, the system delivers reliable protection and compliance with stringent industrial requirements.

8 WEIGHT CALIBRATION

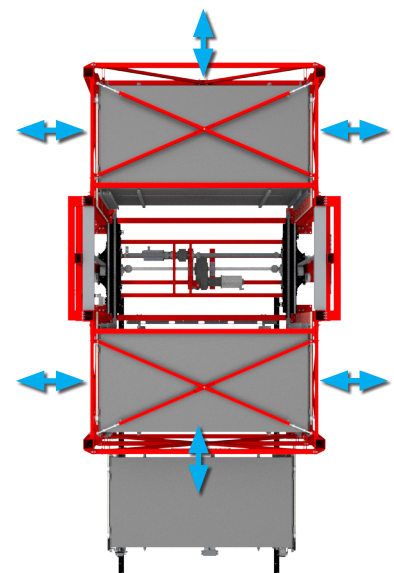
An integrated weight calibration system monitors the load on each pallet, providing real-time load data and ensuring that materials stay within safe lifting limits.

SPECIFICATIONS

TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
ELEVATOR SPECIFICATIONS		
Material Profiles Supported	4' x 8'	1219mm x 2438mm
	5' x 10'	1524mm x 3048mm
	6' x 12'	1829mm x 3658mm
	2M x 4M	2000mm x 4000mm
Max Height per Pallet	3.5" 5"	89 mm 127 mm
Max Load per Pallet	5,000lbs 6,600lbs	2,268 kg 2,994 kg
TOWER SPECIFICATIONS		
System Height	max 30'	max 9144 mm
Carts	Front and Side Carts available	

ACCESS POINTS

With access from all 6 sides, up to 2 carts per tower available, and 2 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

Toll Free: 800.210.0141
www.vidirsolutions.com