

The logo for VALLI, featuring a stylized yellow 'V' followed by the word 'VALLI' in bold black capital letters, all enclosed within a black rounded rectangular border. A registered trademark symbol (®) is located at the top right of the 'I' in 'VALLI'.

VALLI®

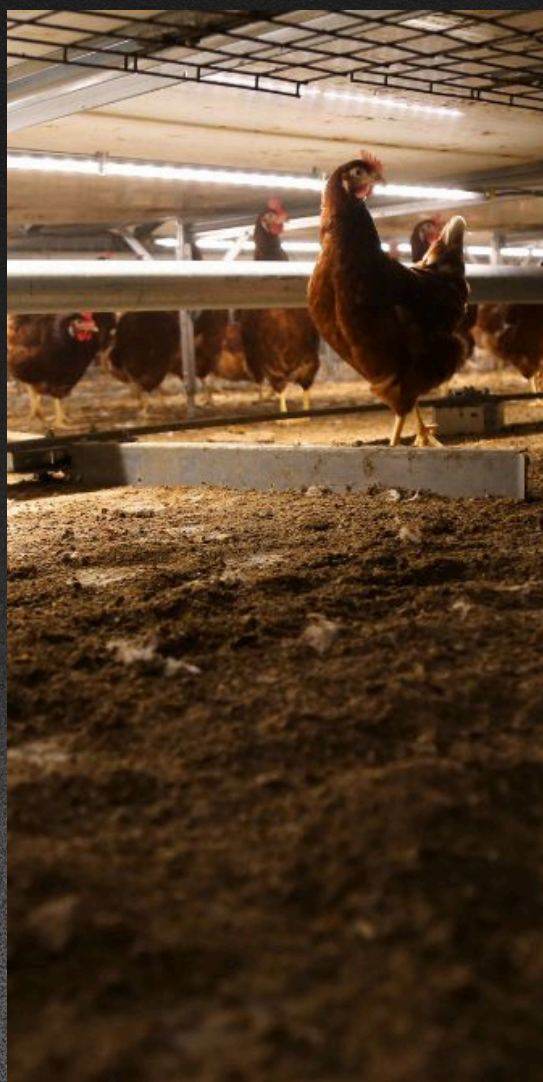
MANURE SCRAPER

A Clear and Simple Introduction
to Our Product





Introduction



VALLI scrapers for manure removal ensure efficient cleaning of residues under the equipment, keeping the environment clean and optimizing waste management within the facility.

Designed for reliability and continuous operation, the system effectively removes manure from under the cages or aviary systems, contributing to improved hygiene conditions, reduced ammonia levels and better overall animal welfare.

Manure SCRAPER – Technical Features

Scheme of operation

The machine is presented in a modular configuration and can work from a few meters to the entire length of the system where it is installed (up to 150 meters).

Speed 12 m/min

Noise level: Machine noise is less than $Leq \leq 70$ dB (A)

There is also an idler part consisting of a pulley mounted on bearings

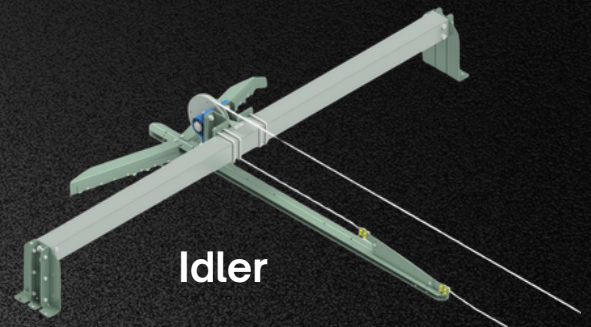
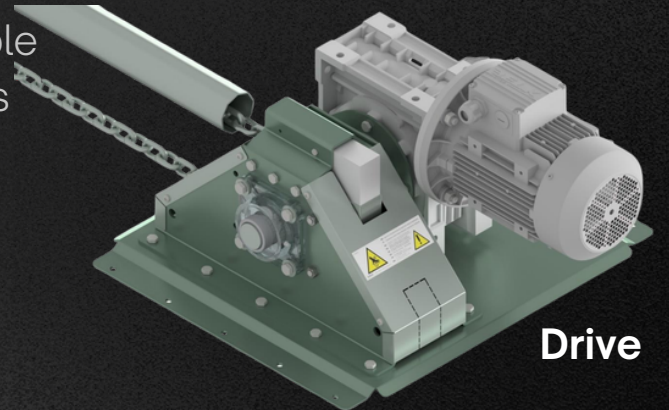
POT. (kW)	VOLTAGE (V)	STAGES	CYCLES (Hz)
2,2	230/400	3	50
3	230/400	3	50
3.60	208	3	60-CSA
3.60	230	3	60-UL
3.60	480	3	60-UL

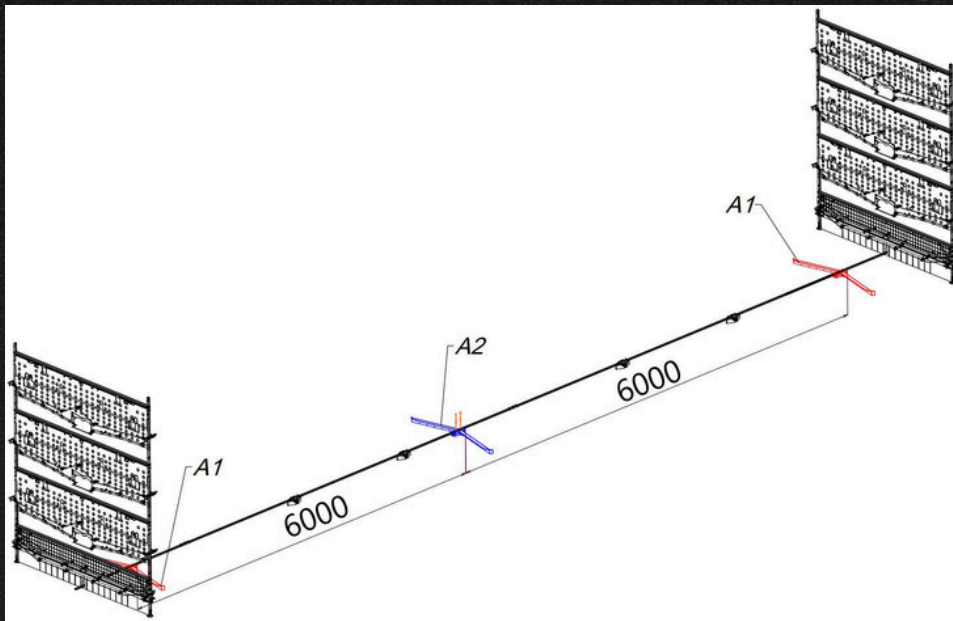
The chain is wound on the gear wheel of the tow and then connected to the cable that is wrapped by the idler pulley, thus creating a closed loop allows the movement of the material coming from the system, continuously.

In the intermediate part between drive and idler are placed scrapers, The material arriving by gravity from the plant, is deposited on the pavement and is conveyed to the manure pit .

On the drive side is installed the gear motor that drives the belt. In the referral there is a system of cleaning the pulley from manure, pens and other elements that could lead to accumulations of material with consequent malfunction of the system. The adjustment of the belt draft is possible, through two threaded bars connected in a closed loop to the system.

Acting on the nuts by means of a key performs the draft of the system; the alignment is guaranteed by the track on the tow and by the pipe installed under the crossbar of the systems.



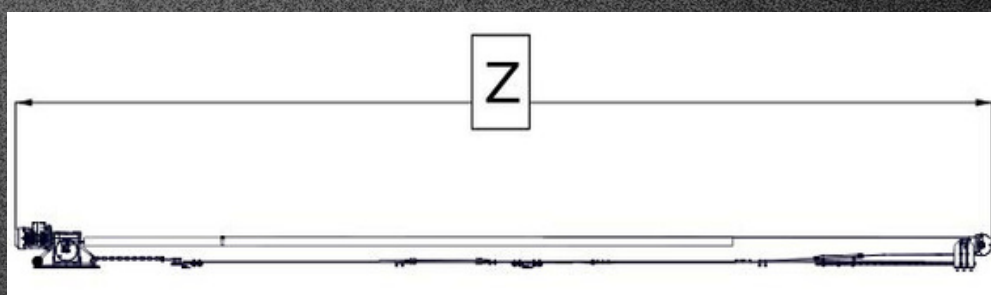
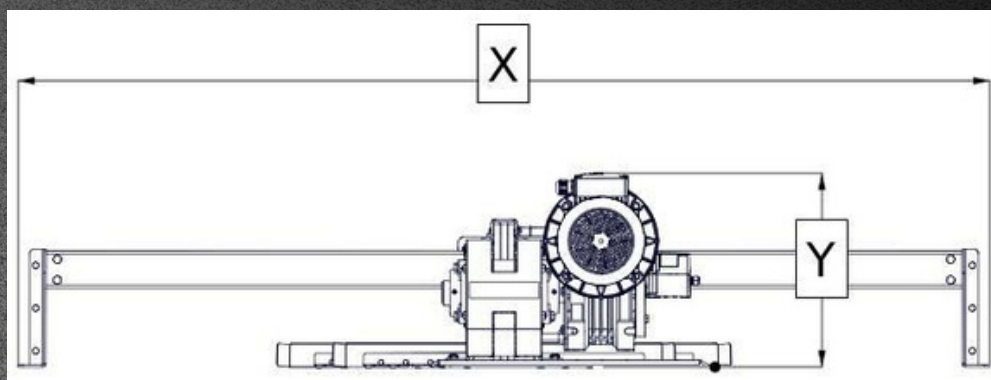


➤ Technical Features

In relation to the number of floors in simultaneous collection and the width of the egg belt leaving the elevator, different configurations of width, height and depth are available for the pollen conveyor belt

The machine provides a modular installation with the following configurations:

- Available widths: 1400 mm AC (X)
- Crossbar widths: 2100 MM AC (X1)
- Development in maximum height 1 meter (Y)
- Maximum machine length 150 m AC (Z)

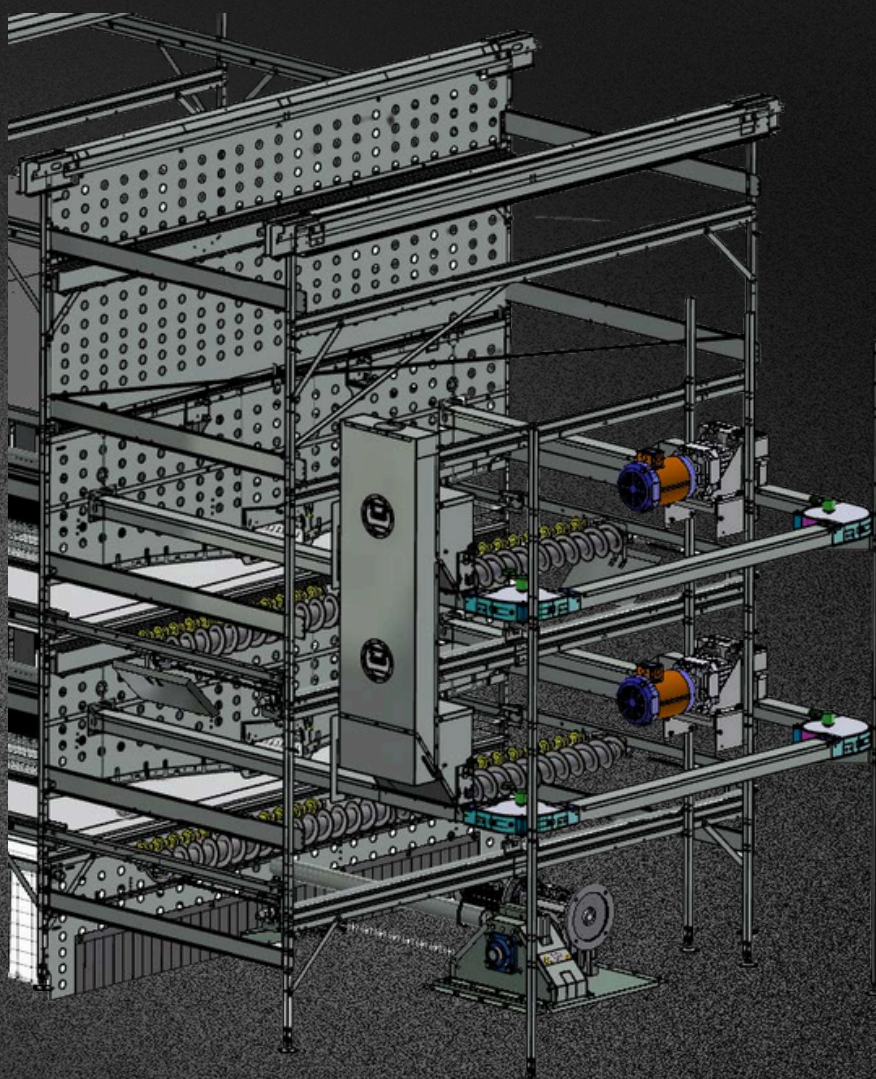
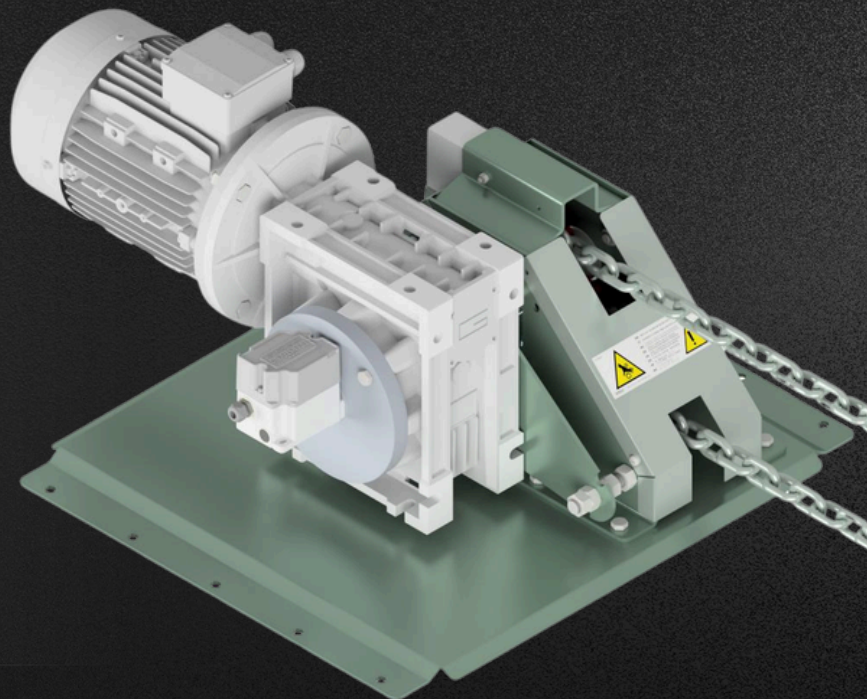


Additional Features

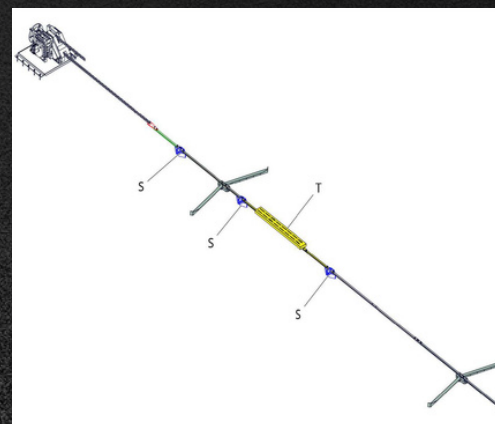


One drive unit is provided per row and per tier.

The drive unit is positioned near the first system divider, with proper alignment to the first-tier idler manure belt.



The system features a tensioner located between the first and second scrapers.



Feed Hopper System – Overview



Key Advantages

- Efficient and regular manure removal, preventing accumulation under the equipment
- Improved house hygiene and cleaner environment
- Contribution to lower ammonia emissions
- Reliable operation with minimal maintenance requirements
- Robust construction for long service life
- Optimized waste handling and easier downstream management
- System Features
- Suitable for installation under cage and aviary systems
- Designed to operate over long distances
- Uniform scraping action for consistent cleaning results
- Compatible with automated manure handling systems
- Single scraper / multiple scraper lines