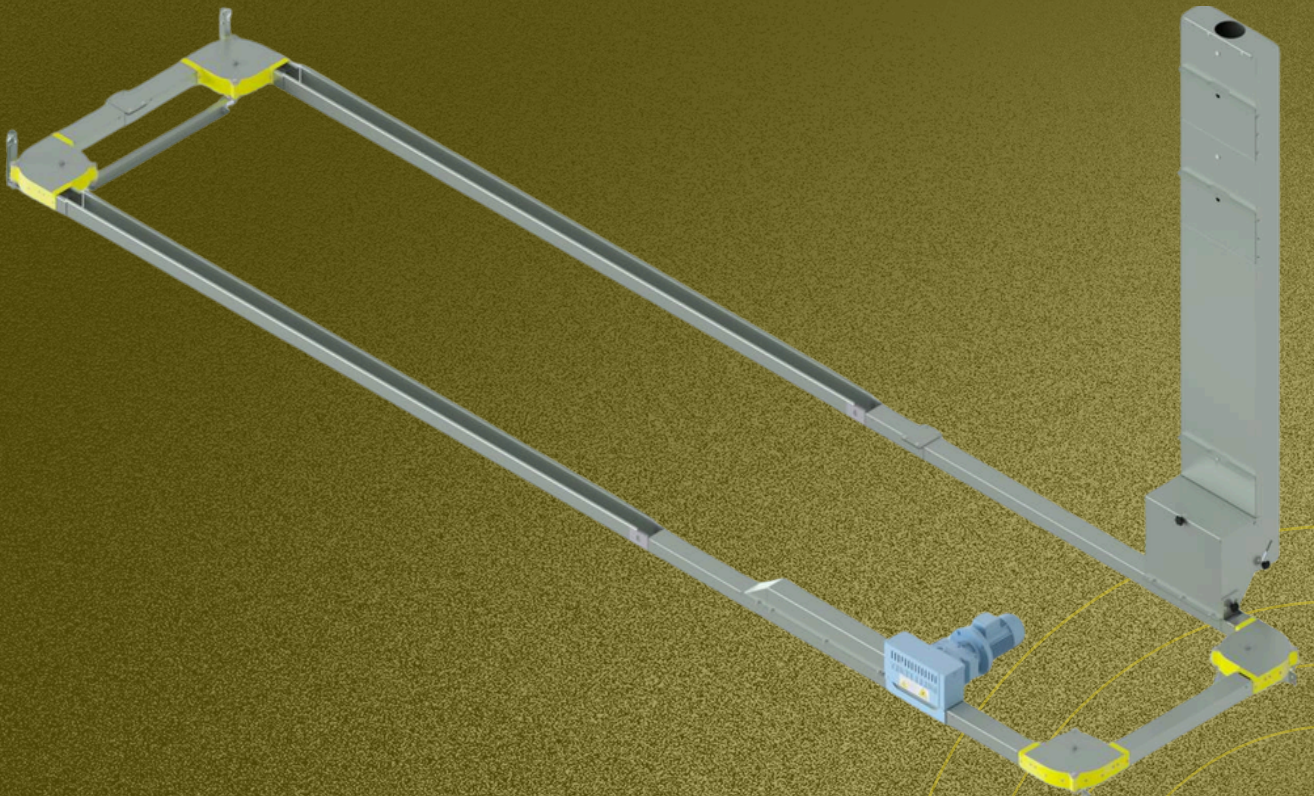


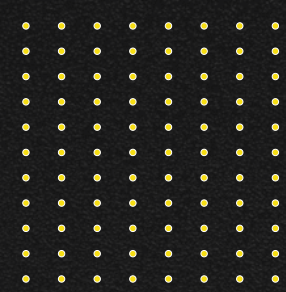
The logo for VALLI, featuring a stylized yellow 'V' followed by the word 'VALLI' in bold black capital letters, all enclosed in a black rounded rectangle. A registered trademark symbol (®) is located at the top right of the rectangle.

VALLI®

FLAT CHAIN feeding system

A Clear and Simple Introduction
to Our Product



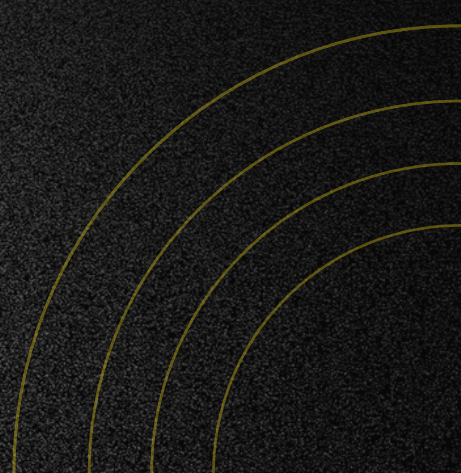


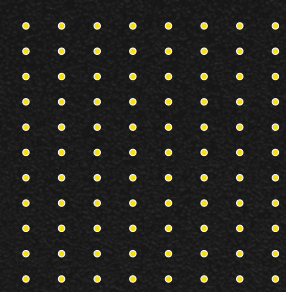
Introduction



The flat chain enables precise feed distribution thanks to the graduated level adjustment and the option to install one or two loading hoppers per circuit, making it ideal for long rows of colonies.

In the colony system, it is installed in the external Valli trough, while in the aviary system, it integrates with the dedicated internal trough





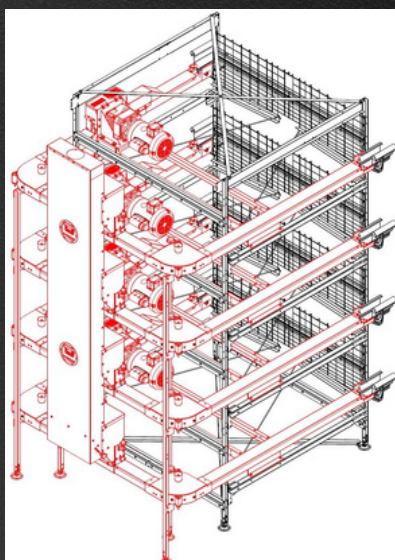
Pullets

laying hens

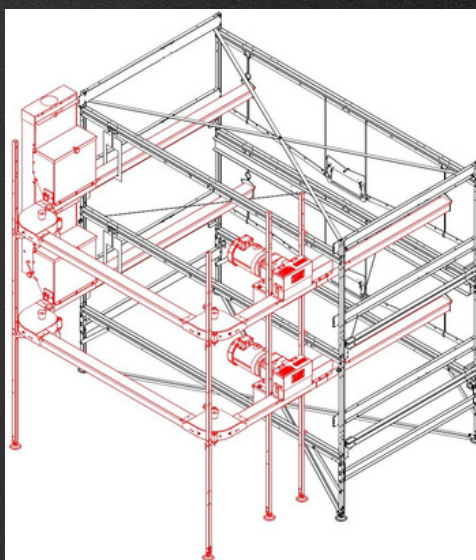
breeders



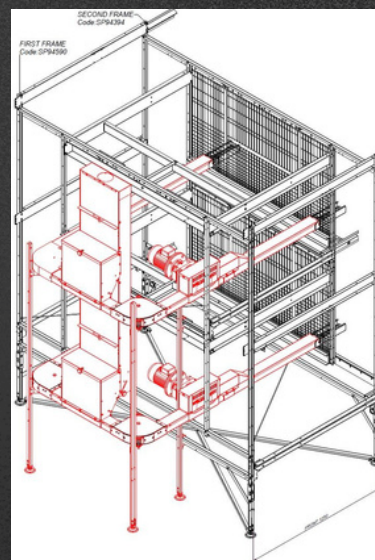
Modulo



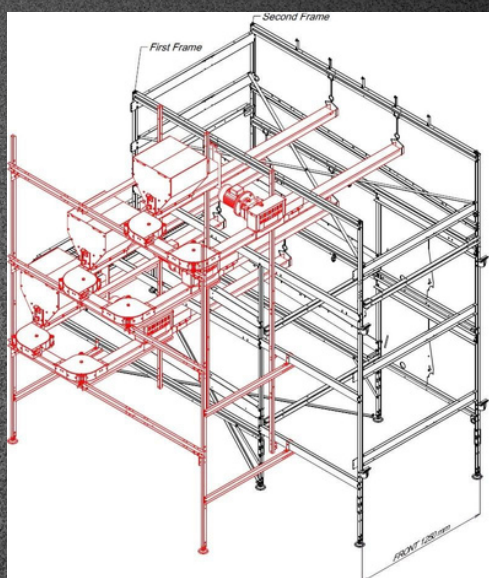
Volo Vita



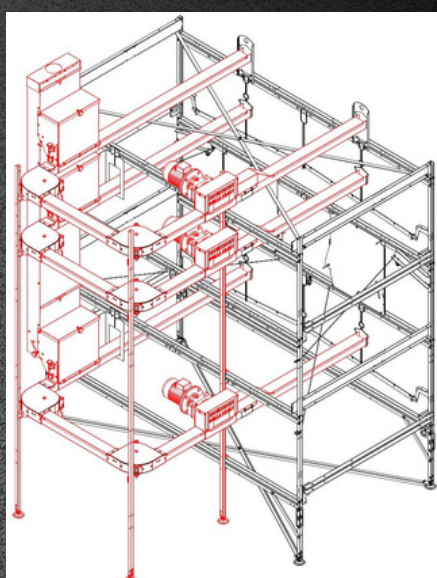
Volo Baby Area



Volo Piramide



Volo VLV



**Flat Chain
Feeding
System
Applicable to
All Our Aviary
and Cage
Systems**

Chain Drive Units

Sizing and Positioning

The number and positioning of chain drive units depend on the total loop length (forward + return) and the required operating speed.

Single drive unit configuration

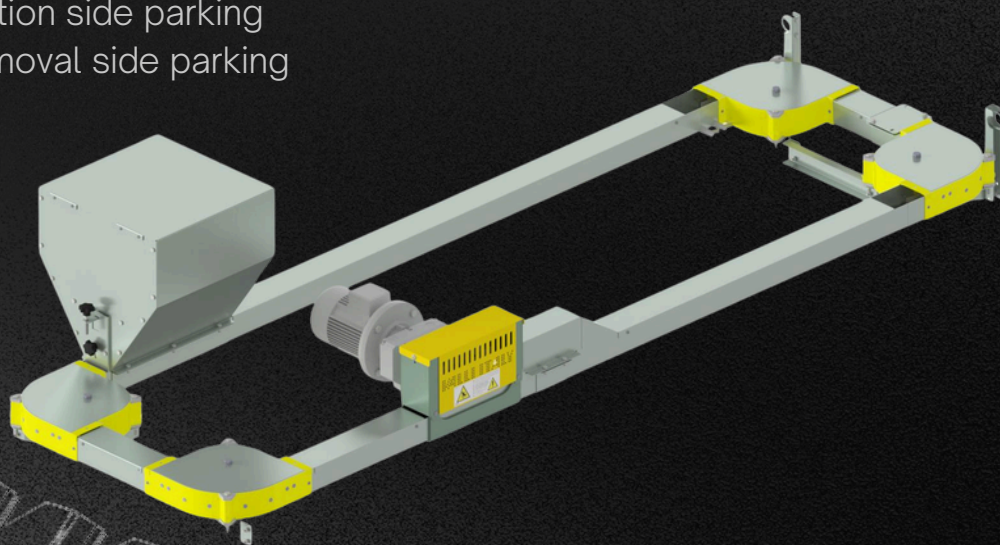
- **Up to 250 m** total length, with speed **12 m/min** → **1 drive unit** is sufficient, installed at the egg collection side parking
- **Up to 200 m** total length, with speed **18 m/min** → **1 drive unit** is sufficient, installed at the egg collection side parking

Two drive units configuration

- **Over 250 m** (at 12 m/min) or over 200 m (at 18 m/min) → **2 drive units** are required

Positioning with two drive units

- 1 drive unit at the egg collection side parking
- 1 drive unit at the manure removal side parking



MOTORS

Drive Units

50 Hz

- Motor 0.75 kW – speed 12 m/min
- Motor 1.10 kW – speed 18 m/min

60 Hz

- Motor 0.90 kW – speed 12 m/min
- Motor 1.30 kW – speed 18 m/min

Protection rating: IP44

Weights

Drive weight: 30 kg (excluding engine weight)

Chain weight: 12 kg (weight per 10 m roll)

Curve weight: 6 kg



The departures of the floors are NOT simultaneous; They are scheduled to scale from the 4th, 3rd, 2nd and 1st. Generally, at the end of one plan the next one starts.

It is possible to start two or more planes at a time depending on the flow rate of the feed auger.

The duration time of each feeding cycle on each floor is programmed by default and is calculated according to the overall length of the equipment.

Inside the electrical panel there are specific instructions for setting the timers.

Through the selectors "FLAT CHAIN MOTORS ROW 1.2.3 – FLOOR 1, 2, 3, 4" placed in the "MAN" position (1,2,3,4), the various planes are enabled to operate MANUAL or TEST

➤ Technical Features

The selector allows you to select the operating mode of the tapes:

- **MAN:** management via inverter, the speed is regulated by the potentiometer
- **0:** Feed chains disabled;
- **AUTO:** the feed chains are managed directly, they always work at maximum speed.

Select the plans chosen for the feed dispensing using the selectors "FLAT CHAIN MOTORS ROW 1.2.3

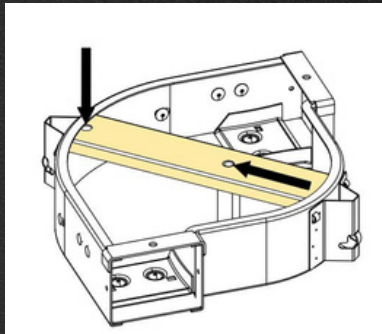
– FLOOR 1, 2, 3, 4": on the "AUTO" position (1,2,3,4).

Using the selector "FLAT CHAIN CONTROL" select "AUTO"

Through the selectors "FLAT CHAIN MOTORS ROW 1.2.3 – FLOOR 1, 2, 3, 4" placed in the "MAN" position (1,2,3,4), the various floors are enabled for a MANUAL or TEST operation for the verification of correct functioning.

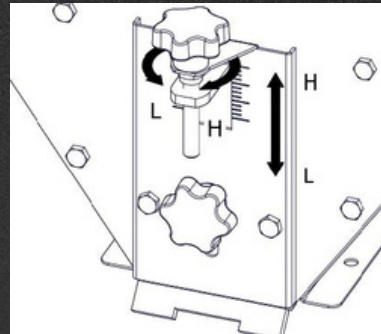


Additional Features



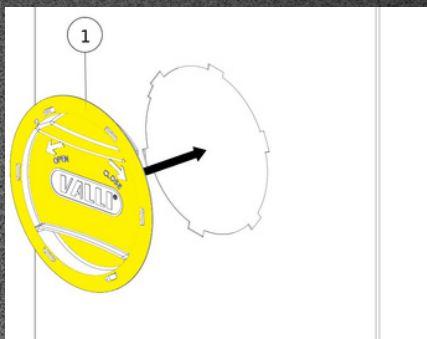
Reinforced curve

Each bend is equipped with a reinforcement bar to improve efficiency, durability and reliability.



Feed Regulation

LEVEL	12 m/min	18 m/min
0	375 kg/h	560 kg/h
0,5	405 kg/h	610 kg/h
1	500 kg/h	750 kg/h
1,5	645 kg/h	965 kg/h
2	785 kg/h	1180 kg/h
2,5	900 kg/h	1350 kg/h
3	1015 kg/h	1465 kg/h



Feed Hopper Closing

Transparent round cap installed on the feed tower side, allowing visual inspection of the feed level; removable by simple rotation.

Flat Chain Feeding System – Overview



The system is based on a simple and reliable concept, including feed hopper, drive unit, corners, trough and feed chain, designed to ensure efficient and uniform feed distribution.

Key Advantages

- Flexible conveying speeds (12, 18 or 36 m/min) to match different operational requirements
- The chain can run even when the trough is full, stimulating bird activity and increasing feed intake
- Suitable for all feed types: meal, pellets or crumbles
- Uniform and reliable feed distribution, ensuring equal access to quantity and quality for all birds, with minimal waste
- Trough design provides ample space on both sides, allowing birds to feed comfortably without stress
- Cost-effective feeding solution
- Easy and thorough cleaning
- Low labour and maintenance requirements
- Robust construction for long service life