CVFA | **FLOOR CONVEYOR SYSTEM**

The CVFA conveyor was originally designed to meet the specific needs of glassmakers, cosmetic manufacturers, and decorators working on glass or plastic substrates Since then, it has been successfully adapted for a wide range of other industries.

The CVFA conveyor is a special-purpose system developed for the transfer of products through surface treatment and paint application processes. This unique conveyor operates as a floor-mounted system, ensuring stability and versatility in demanding industrial environments.

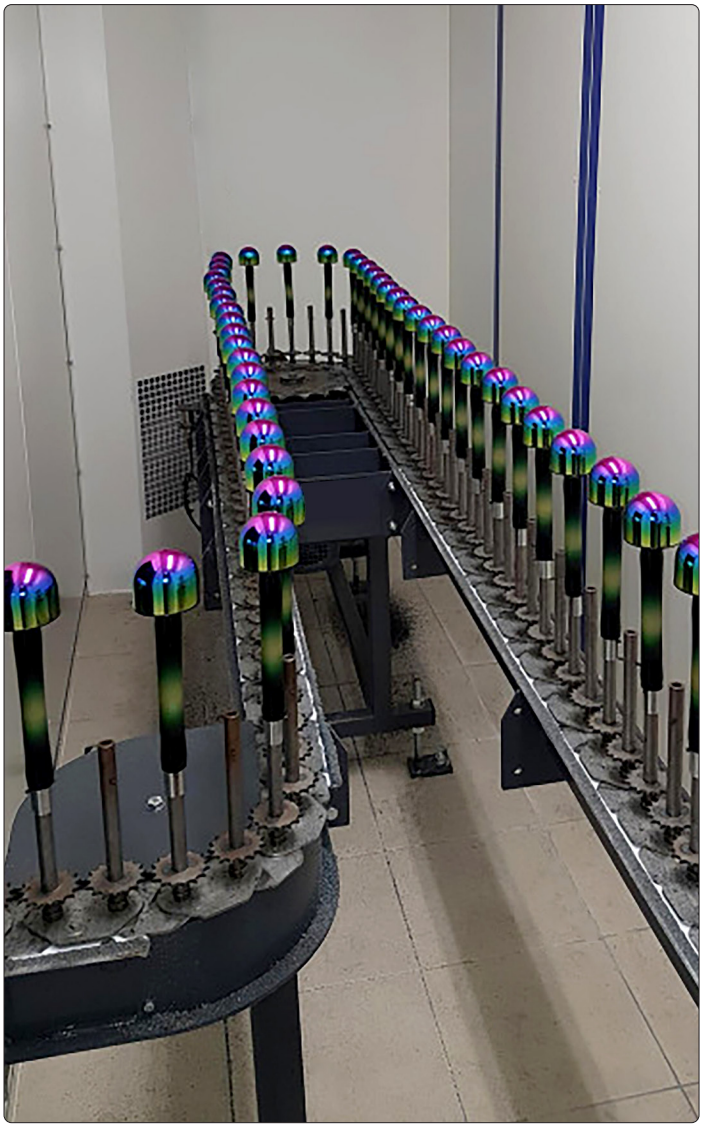
It is composed of several modular sections, return wheels of various dimensions (selected according to part size, position within different process chambers, and required heating or cooling times), a main drive unit, and an independent tensioning unit or a combined motor-tensioning group.

Multiple rotation systems (“rotators”) can be integrated on the same line, and purely mechanical rotation systems can also be installed in specific chambers (for example, infrared zones).

Today, the CVFA stands out as the only conveyor system offering this level of robustness and stability, defined by:

- High load capacity per carrier element
- Perfect balance of transported products on their supports
- Strict compliance with size and clearance requirements

Its design ensures exceptional durability while keeping maintenance fast and minimal.



CVFA

TECHNICAL SPECIFICATIONS

The CVFA is a floor-mounted conveyor with overhanging axes, fitted with turntables (which can accommodate an intermediate "support" piece for client-specific products). Its modular design allows adaptation to production requirements and to the desired pitch spacing. The conveyor can operate either continuously or in step-by-step mode, depending on process needs.

The CVFA offers turning radii up to 75% smaller than most conventional conveyors. This innovation enables the design of smaller, more energy-efficient ovens, and allows the entire circuit to fit within a smaller building footprint for the same production capacity.

Easy to use & maintain: All subassemblies are designed for simplicity and low maintenance, with a safe and clean design free of retention zones.

High-performance materials: Self-lubricating PTFE sliding plates, suitable for temperatures up to 200°C. Optional automatic lubrication system with steel sliding plates for high-temperature applications. Perfect stability of customer parts is ensured in all key zones - loading, unloading, painting, and robotized sections.

Applications and Operation: The CVFA conveyor is ideal for transporting bottles, flasks, and other plastic containers for surface treatment, painting, or decorative coating applications. Products are mounted on specially designed carriers, loaded manually or by robot. The conveyor speed can be adjusted from 2 to 6 m/min, ensuring smooth and steady movement - essential for robotized operations.

In certain configurations, loading and unloading can be performed without stopping the conveyor, increasing overall productivity. This is made possible by an integrated compensation loop between the loading/unloading area and the rest of the line.

Chain pitch:
25.4, 50, or other pitches unless specifically requested by the customer.
Maximum temperature:
280°C with steel sliding plates.
Load capacity:
12 to 15 kg per linear meter.
Design:
Consists of sections with a maximum length of 3 meters, supported by adjustable feet.
Horizontal curves:
Constructed using specific rims or sprockets according to the required pitch.

Degrees: 45°, 60°, 90°, and 180°.
Radius:
All horizontal curves can be manufactured with custom radii upon customer request, depending on line process requirements, operating rate, etc.
Drive System:
Drive Unit: Positioned at 180°.
Motorized tensioning unit:
Equipped with a linear actuator for chain tensioning.
Tensioning:
Tensioning group ensures chain tension via linear actuator.

Main Chain:
Chain movement is achieved by sliding on lubricated steel plates or self-lubricating PTFE plates.
Lubrication:
Provided by an inline oiler equipped with 2 to 4 nozzles, operating with a highly specific oil mixed by a simple pneumatic or electric mixer.
Conveyor Length:
20 to 100 meters.