



HDI 100S

FLOOR CONVEYOR SYSTEM

A further development of the CALDAN “100 System Range” of floor conveyors is the HDI 100S - “Stepper”.

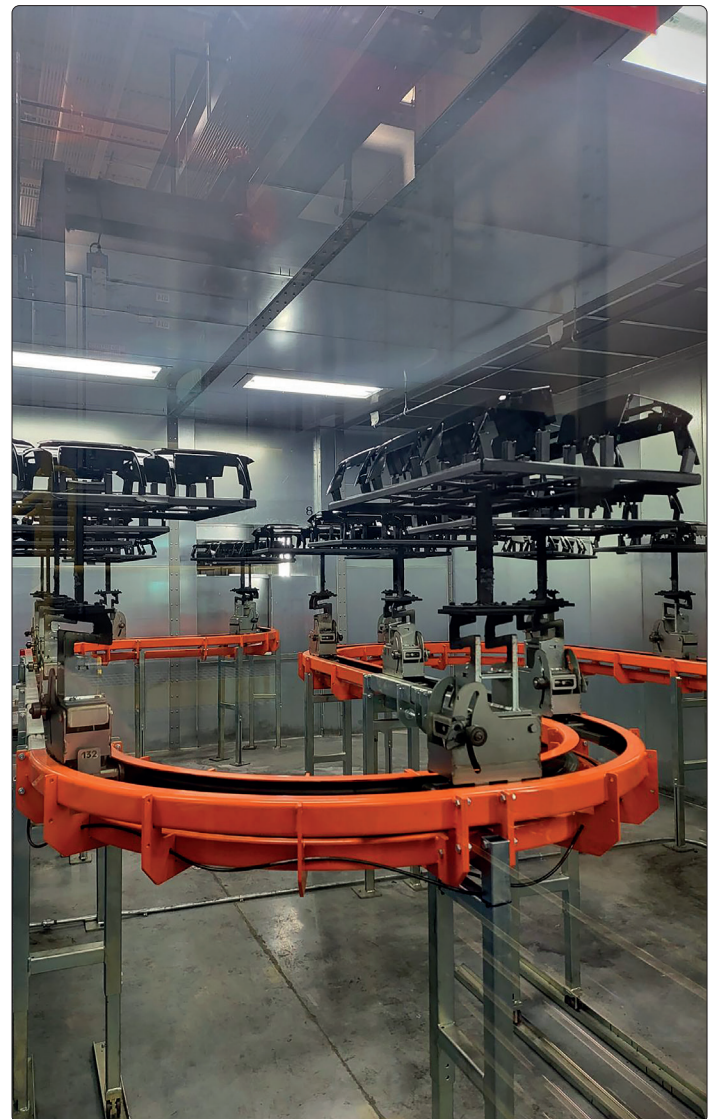
Based on the proven CALDAN triple rail system, and the design principle of high presentation accuracy and stability, the new HDI 100S takes floor conveyor technology to a new level.

The system allows for work pieces to be conveyed on vertical rise and fall sections without the tilting of the work piece, the work piece remains vertical at all times.

This allows for the system to be designed with less space requirements and thus requiring less energy in ovens etc., as the work pieces can be conveyed at closer pitches around the system.

Further advantages include the use of a more economical jig design, and the risk of parts falling from jigs in the vertical rise and fall sections is minimised.

As with all CALDAN products, the system has been designed and pre-built in our R&D department, and fully tested before being introduced to the market place.





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HD100S

TECHNICAL SPECIFICATIONS

The Floor conveyor type HD100S consists of three CALDAN standard profiles. The two upper profiles support the wagon which is equipped with 4 vertical track wheels and 4 horizontal guiding wheels.

In the underlying profile the cardan chain is driven by one or more drive units with fixed or variable speed.

The wagon body consists of 0.23 inches (6 mm) laser cut and folded plates assembled with a minimum of welding operations.

The high accuracy in the positioning of the wagon is guaranteed by the four guiding wheels - two placed on each side of the wagon.

Turning devices non-fixable or fixable in 90° or 180° positions are mounted on the top of the wagons to customer request.

Chain pitch:

7.08 / 10.62 inches (180 / 270 mm)

Trolley wheels / chain bearings:

Open or sealed and greased version

Max. temperature (surroundings):

482 °F (250°)

Max. load per trolley:

110 Lbs (50 kg)

Standard length, straight profile:

118.11 inches (3.000 mm) -
equipped with flanges

Horizontal curves:

Degree: 90° / 45° / 30° / 15°

Radius: 27.55 / 39.37 inches
(700 / 1.000 mm)

Vertical curves:

Degree (depending on work-load):

Maximum 30°
Radius: 98.43 (59) inches
(2.500 (1.500) mm)

All horizontal curves can be manufactured in special radii on request.

Drive unit:

Straight version, double sided caterpillar drive. Gear motor with fixed or variable speed

Tension unit:

Manual or pneumatic/ weight-loaded

Pneumatic lubrication:

Semi- or fully automatic version.
Point- or fog lubrication of the cardan chain

Special equipment:

Motorized or pneumatic turning stations

Accumulation possibilities:

None