



Sectional view -VLD

SINGLE LINE FLOOR CONVEYOR

TYPE VLD

The single line floor conveyor type VLD is developed by Caldan to handle smaller unit loads, such as mobile telephones, which need to be processed effectively and in high volume.

Typically fitted with our high-speed rotation system for automated coating processes.

The VLD offers a unique jig stability and accuracy of presentation, even when working in rough environments.

The Caldan VLD is:

- Cost effective through the use of standard chain components, and low need for both maintenance and staff training
- Space saving as the VLD can be designed with tight horizontal curve radii

“The Very Light Duty System”

Specifications:

The VLD floor conveyor system is a fixed pitch floor conveyor system designed for either continuous or stop/go operation.

The high accuracy in positioning of the jig is guaranteed by a horizontal guide bearing, mounted directly on the chain carrier.

Double sided guide rails ensure the sideway stability of the jig wherever required, e.g. in loading, painting or robot handling areas.

The VLD consists of a standard Caldan profile, combined with horizontal and vertical curves.

A cardan chain with fixed carriers is driven in the standard profile - the chain is powered by one or several drive units, with fixed or variable speed.

The customer product is conveyed either directly on the carriers, or in specially constructed devices/work jigs (customized designs).

Maximum load per carrier – 5 kg.

Technical data:

Chain pitches

Type S150 / S180 / S200: 150 mm / 180 mm / 200 mm
 Type S270 / S300: 270 mm / 300 mm

Chain bearings: Open or sealed and greased version
 Max. temperature (surroundings): 250°
 Max. load per carrier: 5 kg
 Standard length, straight profile: 3.000 mm. Available equipped with flanges

Horizontal curves

Type S150 / S180 / S200:
 Degree: 90°/ 45°/ 30°/ 15°
 Radius: 315 / 500 / 700 / 1.000 mm
 Type S270 / S300:
 Degree: 90°/ 45°/ 30°/ 15°
 Radius: 700 / 1.000 mm

Vertical curves

Type S150 / S180 / S200:
 Degree (depending on work-load): 15° / 30° / 45° / 90°
 Radius: 700 / 1.000 mm
 Type S270 / S300:
 Degree (depending on work-load): 15° / 30° / 45° / 90°
 Radius: 1.000 mm

All horizontal / vertical curves can be manufactured in special radii on request

Drive unit:

Straight version with double or single sided caterpillar drive or 90° / 180° version with driving wheel. Gear motor with fixed or variable speed

Tension unit:

Manual or pneumatic or counterweight version

Pneumatic lubrication:

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