



## SINGLE LINE

### INV. MONORAIL OVERHEAD CONVEYOR

The flexible and reliable, inverted system for demanding materials handling in tough working environments.

The **INVERTED SINGLE LINE** conveyor:

- can be used as a storage facility between different steps in the production flow
- is the perfect system for transportation of items through working processes in the plant
- only requires a minimum of maintenance and user training

The consequent use of tested high quality components increases functional dependability and lifetime of the system.

The use of easy combinable, modular standard components offer various customized solutions.

More than 50 years experience in meeting materials handling challenges, and our expert assessment of user's needs, will ensure that the design chosen contributes fully to a cost effective overall system.





**CALDAN conveyor solutions - simply perfect .**



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## SINGLE LINE

### TECHNICAL SPECIFICATIONS

The inverted SINGLE LINE conveyor 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 items are conveyed suspended either directly from the carriers, or in specially constructed suspension devices/work jigs (customized designs).

To avoid contamination of the work pieces (e.g. drops of oil or dirt) the single conveyor is designed with the track opening upwards. C-hooks are then attached to the cardan chain to carry the work pieces.

### Typical suspension versions are:

- one point turning device, with or without fixation
- load bar attached to 2 or 4 chain carriers

#### Chain pitch - S150 / S180 / S200:

5.90 / 7.08 / 7.87 inches  
(150 / 180 / 200 mm)

#### Chain pitch - S270 / S300:

10.62 / 11.81 inches (270 / 300 mm)

#### Chain bearings:

Open or sealed and greased version

**Max. temperature (surroundings):**  
482 °F

#### Max. load per carrier:

198 Lbs (50 kg)

#### Max. load per load bar, 8-wheeled:

794 Lbs (200 kg)

#### Standard length, straight profile:

118.11 inches (3.000 mm).

Available equipped with flanges

#### Horizontal curves - S150 / S180 / S200:

Degree: 90° / 45° / 30° / 15°

Radius: 12.40 / 19.68 / 27.55 / 39.37 inches  
(315 / 500 / 700 / 1.000 mm)

#### Vertical curves - S150 / S180 / S200:

Degree (depending on work-load):

15° / 30° / 45° / 90°

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

#### Horizontal curves - S270 / S300:

Degree: 90° / 45° / 30° / 15°

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

#### Vertical curves - S270 / S300:

Degree (depending on work-load):

15° / 30° / 45° / 90°

Radius: 39.37 inches (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° version with driving wheel. 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