

# Vario flow Transfer System

Automotive components



New energy



3C



 Nitrans

Food and Healthcare



Other



 Nitrans

# Vario flow Transfer System

## Vertical curve

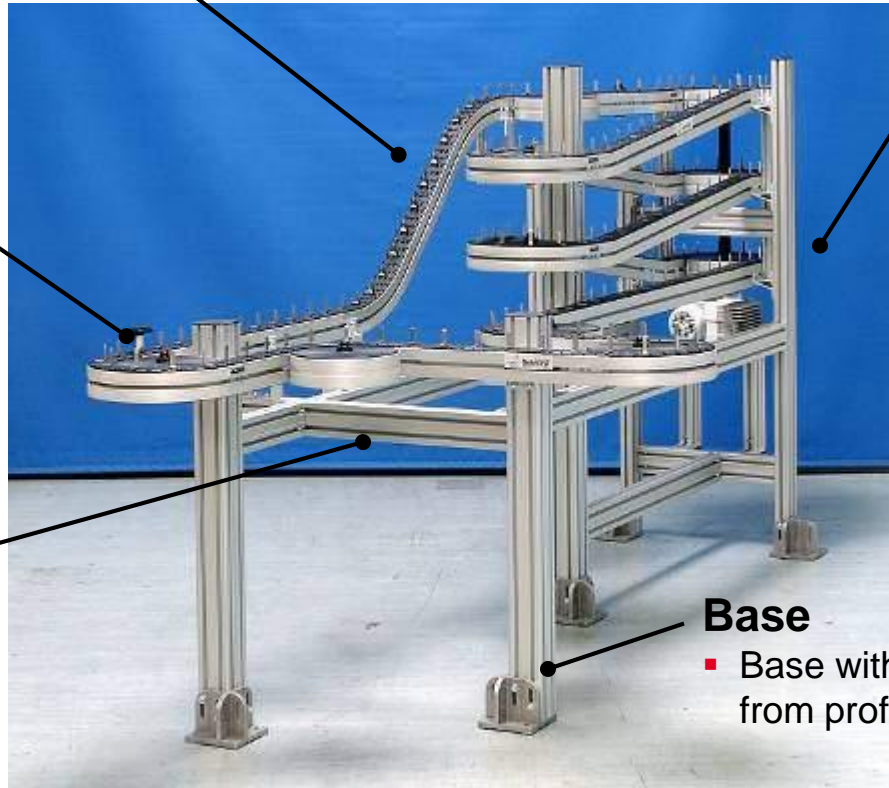
Allowable tilt angle range from 5° to 90°

## Curve unit

30°, 45°, 90°, 180°

## Drive unit

- Integrated installation, saving space
- High driving performance, making the driving line longer and heavier in load

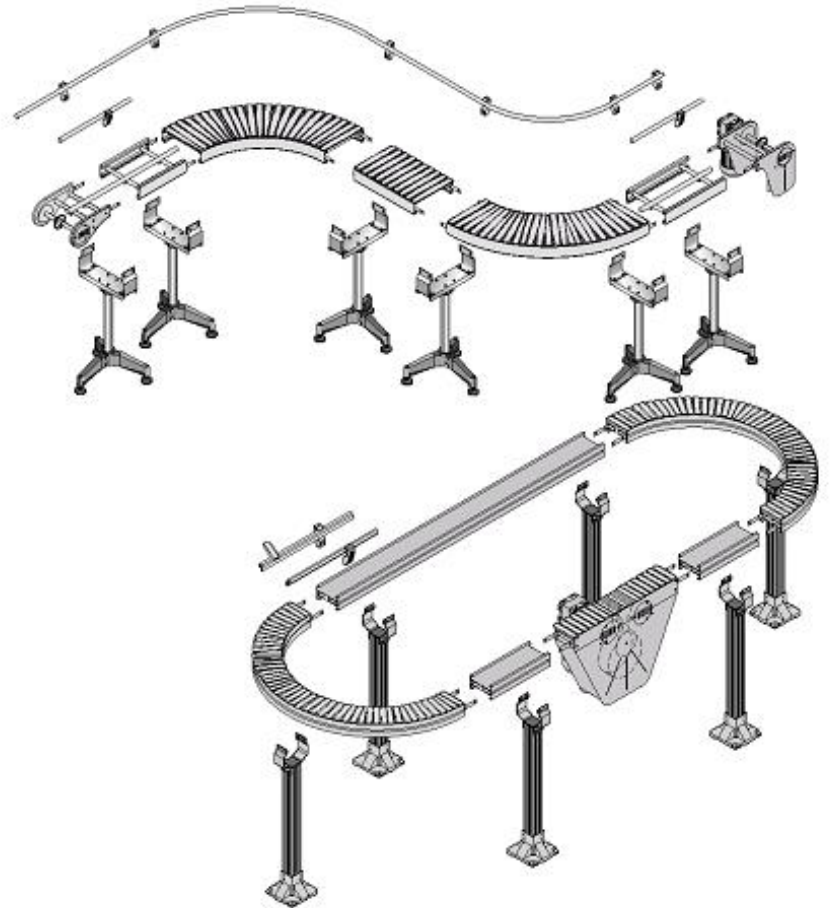
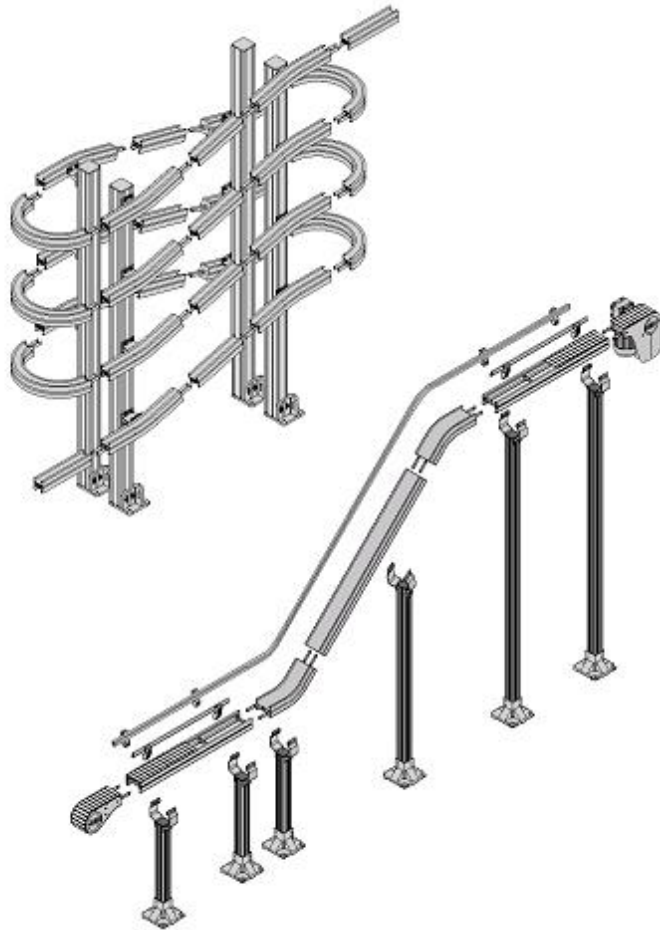


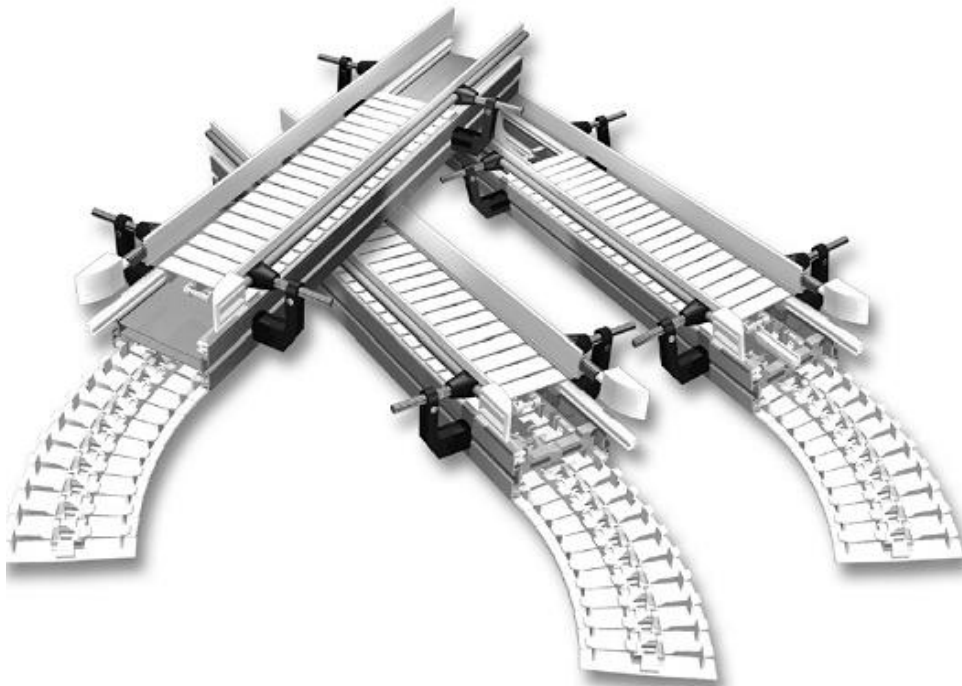
## Basic frame

## Base

- Base with simple connection from profile pillars

# Vario flow Transfer System





## Specification

43

63

83

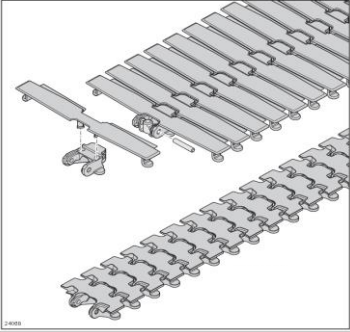
103

140

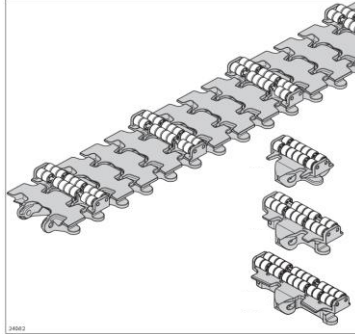
175

295

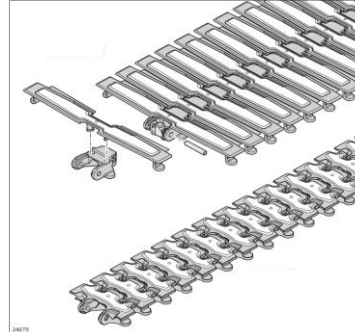
# Vario flow Transfer System



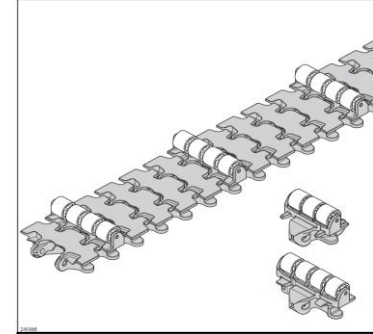
Flat chain



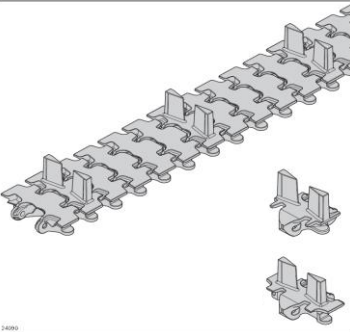
Stacked roller chain



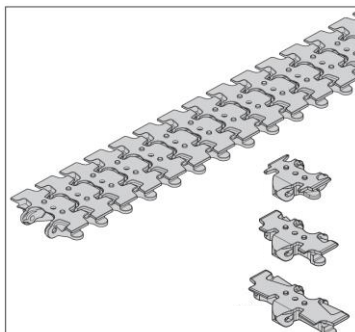
Static friction chain



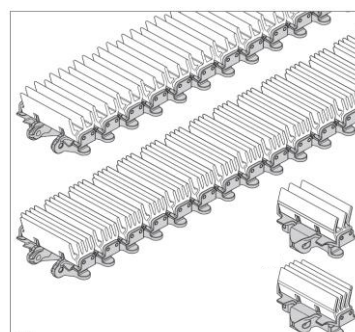
Roller baffle chain



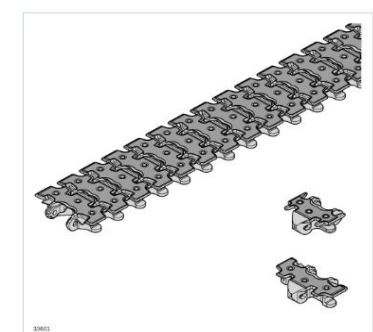
Baffle chain



Universal chain



Splint chain



Steel top chain

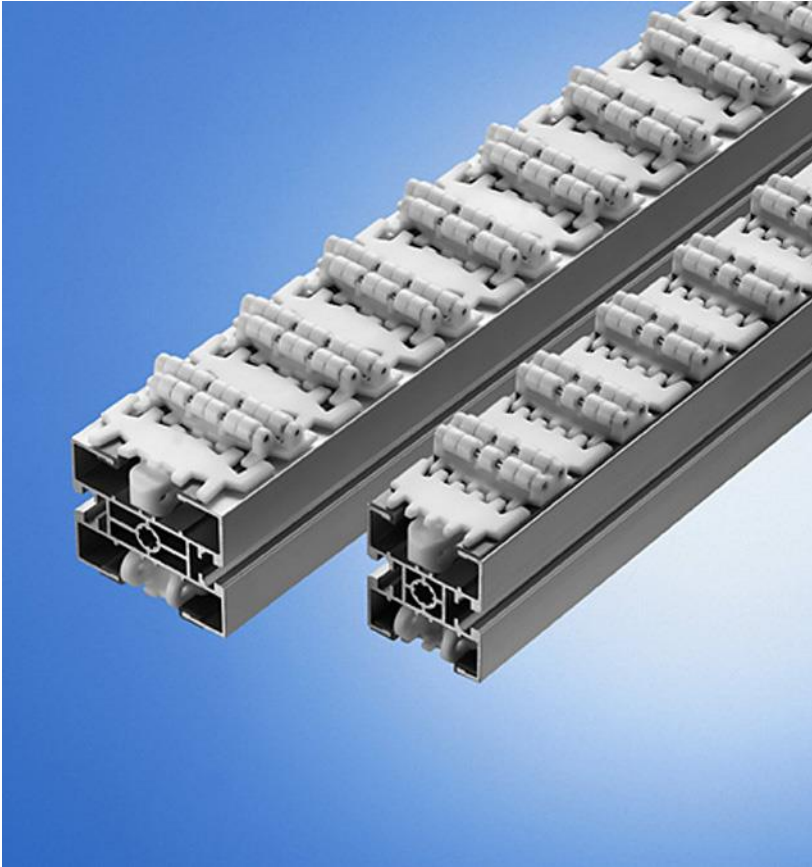




## Flat chain

Flat chain is used for direct transportation of products or indirect transportation through workpiece pallets.

- Product can be transported on an uphill or downhill section with a slope of approximately  $7^\circ$  (testing is required)
- Allow stacking, depend on the product

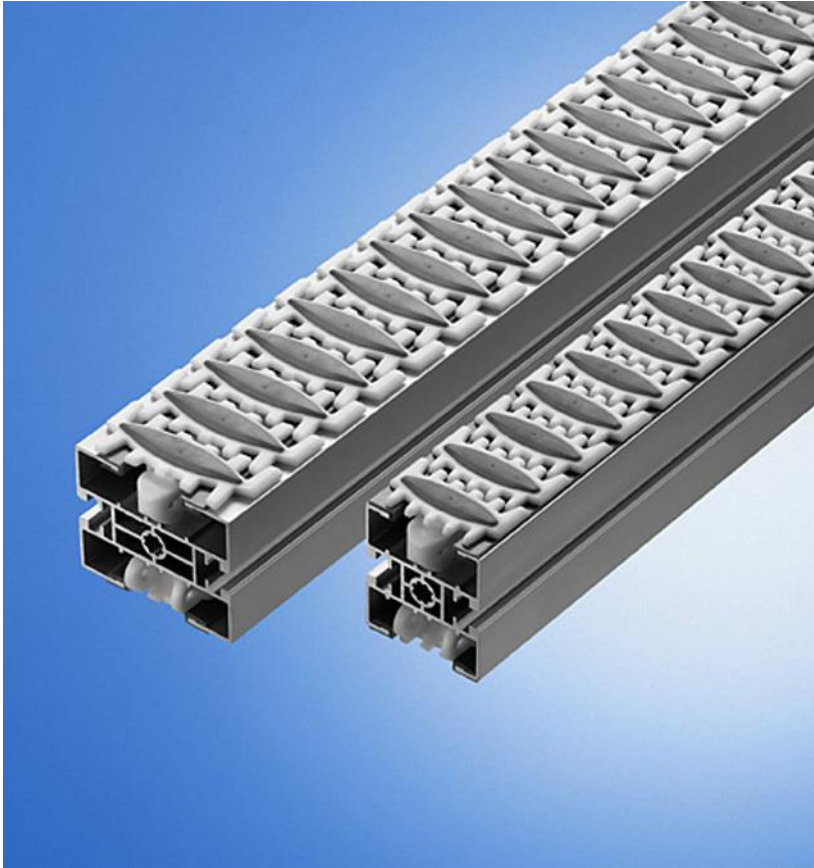


## Stacked roller chain

It can transport sensitive products horizontally and protect the surface of the product, stacking is allowed.

It can vertically transport small products with roller spacing  $\geq 2$ .

- The maximum slope depends on the product geometry (testing is required).
- When stacked roller chain, roller spacing should be 1mm.



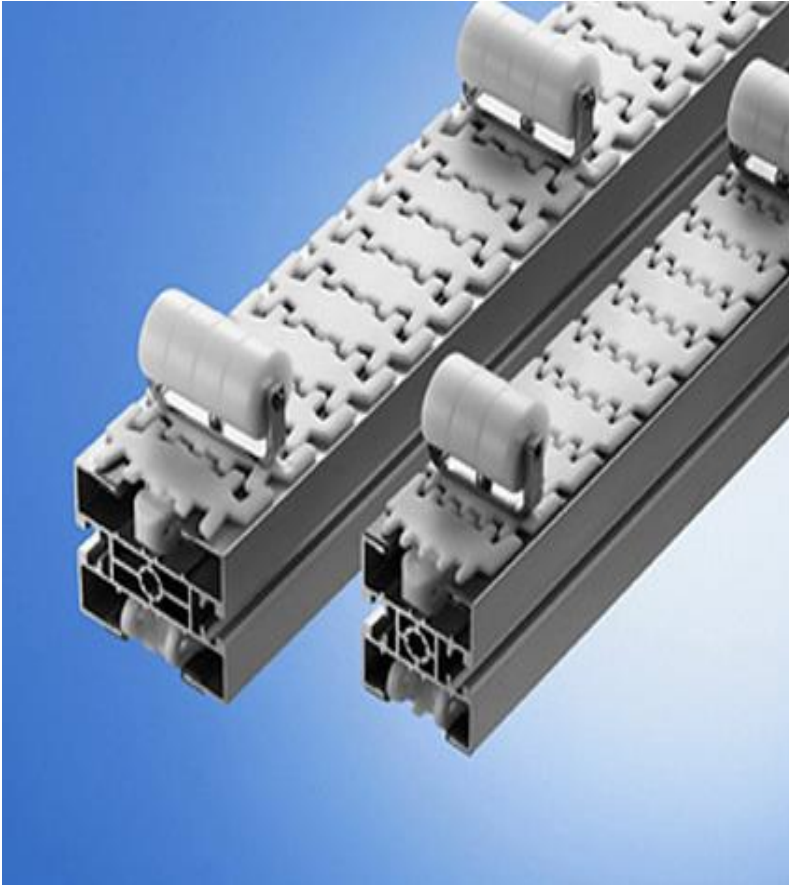
## Static friction chain

Static friction chains can be used for downhill situation.

Choosing the number of chain links based on the size, weight, and slope of the product.

- It can be used for downhill section with a slope of about  $30^\circ$ . The maximum slope depends on the product surface, conveyor section length, and speed (testing is required)
- Not stacking

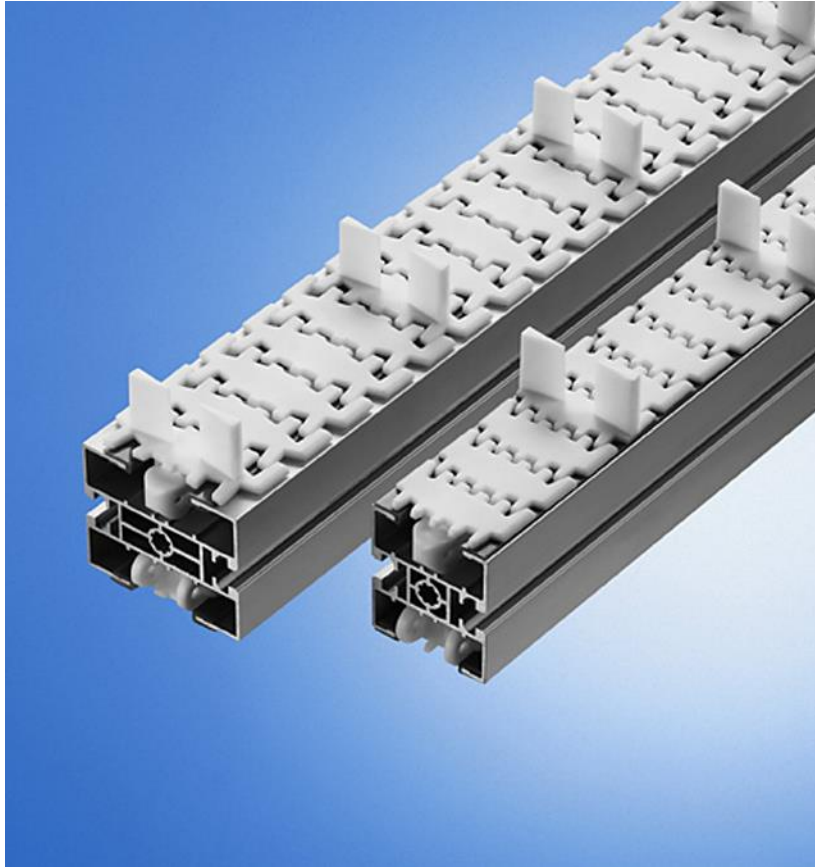




## Roller baffle chain

It can transport products on the up and down slopes.

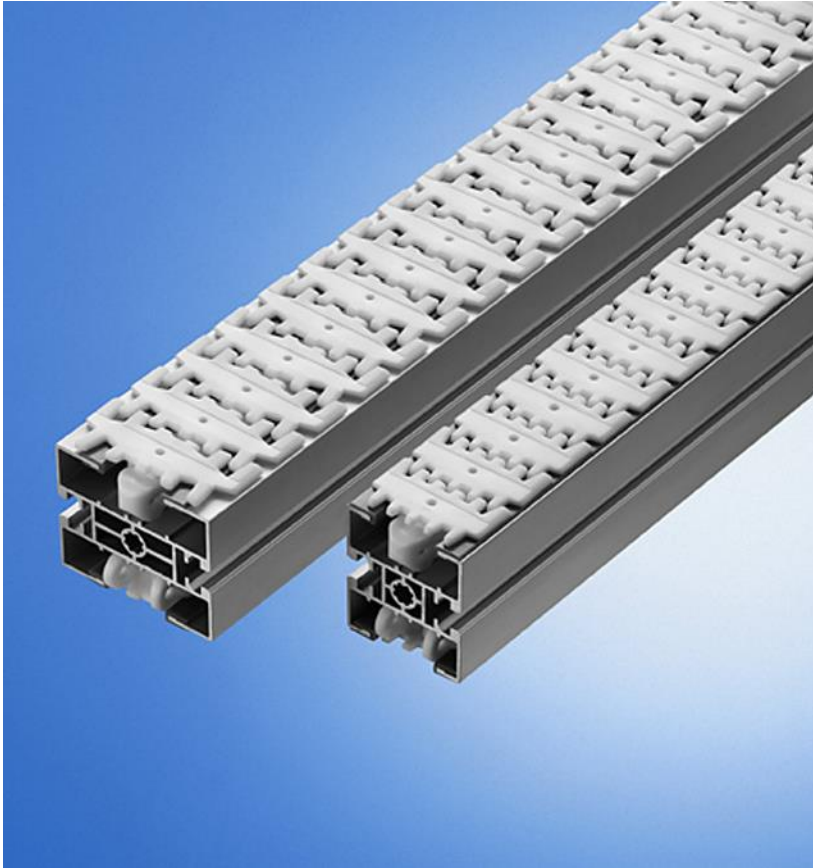
- The maximum slope depends on the product geometry (testing is required)
- Not stacking



## Baffle chain

It can transport products on the up and down slopes.

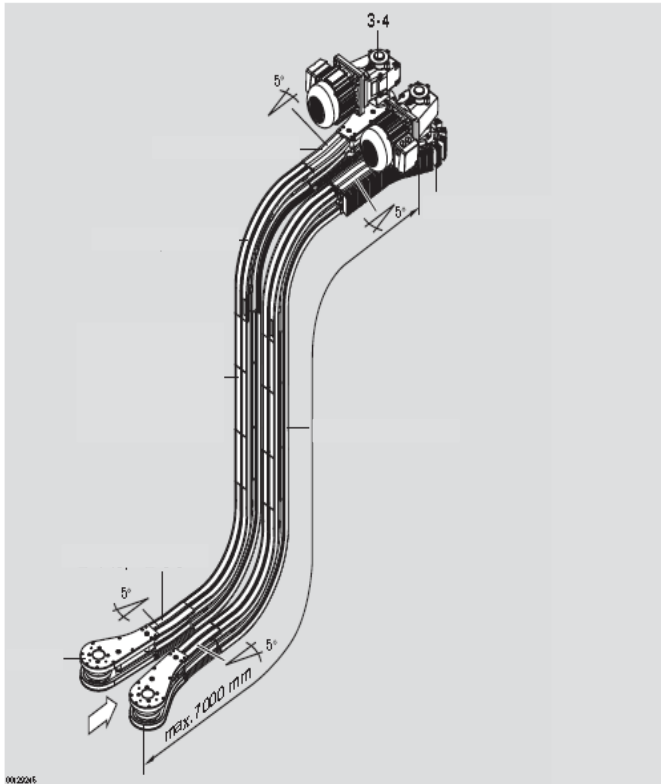
- The maximum slope depends on the product geometry (testing is required)
- Not stacking



## Universal chain

The universal chain is used as a substructure for installing customer specific baffles or structural components.

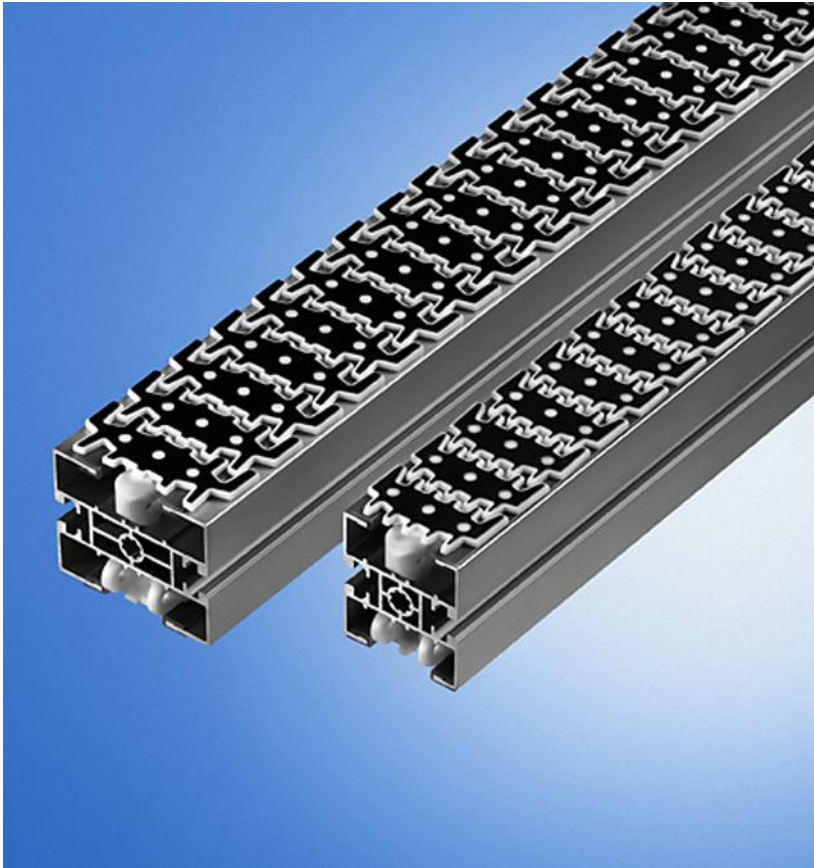
- The maximum slope depends on the customer's dedicated baffle (testing is required)
- Not stacking



## Splint chain

It is used to clamp products for transporting at different heights, levels, or distances.

- For vertically transporting
- When other chains cannot be used to transport products on steep slopes, splint chain can be used.
- For product surface is sensitive, splint chain can avoid damaging the product surface.
- Avoid product sliding during vertically transporting



## Steel top chain

It is used to transport products with special surfaces, such as sharp edges and rough surfaces



## Drive unit

- Maximum speed 18m/min
- High efficiency by bevel gears(>90%)
- The gear motor can be attached to the left or right side of the drive head
- Fully enclosed or semi enclosed



Fully enclosed



Semi enclosed



## Curve drive

- The integrated drive unit in the curved wheel can save installation space
- Uniform chain operation and high driving force through patented geometric chains
- Optional rotary wheels



## Curve

- The bending wheel uses a horizontal frictionless rotating chain.
- Available standard angles are 90 ° and 180 °
- The small radius curved wheel (150 mm) allows for transporting and stacking operation in a closed space



## **Vertical curve**

it can be flexibly used in situations with sloping installation requirements

Available standard angle  $5^\circ$  ;  $7.5^\circ$  ;  $15^\circ$  ;  $30^\circ$  ;  $45^\circ$  ;  $60^\circ$  and  $90^\circ$  .

The small radius allows it to run vertically in narrow spaces.

Users can customize angles and radius.



## Horizontal curve

- Available standard angle of  $30^\circ$  ;  $45^\circ$  ;  $60^\circ$  and  $90^\circ$
- Users can customize angles and radius.



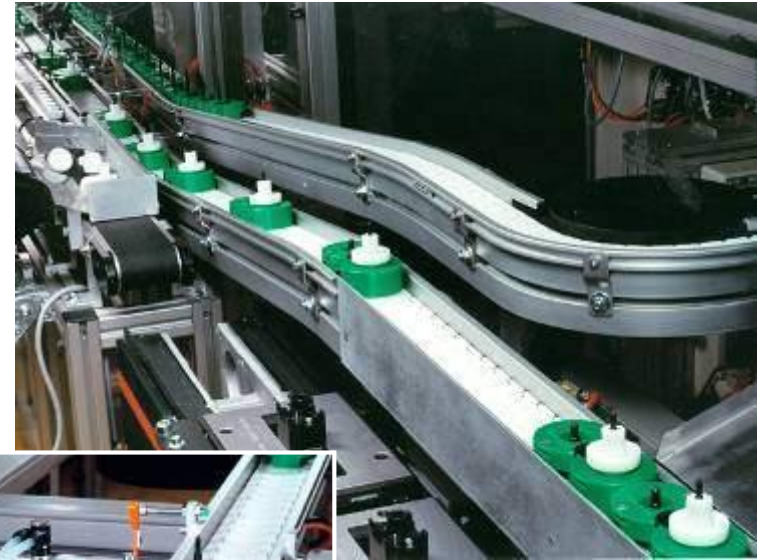


## Side guide

- Fixtures can be used as separate components
- Using a fully modular geometric profile slot compatible system



## Application



- Automotive parts

## Application



- Shoes

## Application



■ 3C



## Application



- Grinding machine workpiece tray feeding system



## Application



- The pharmaceutical industry

## Application



- Cache system

