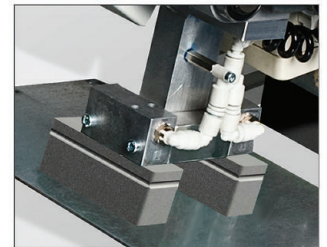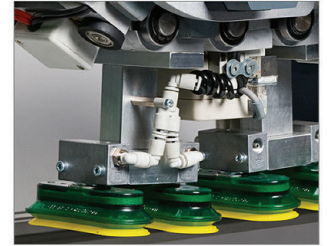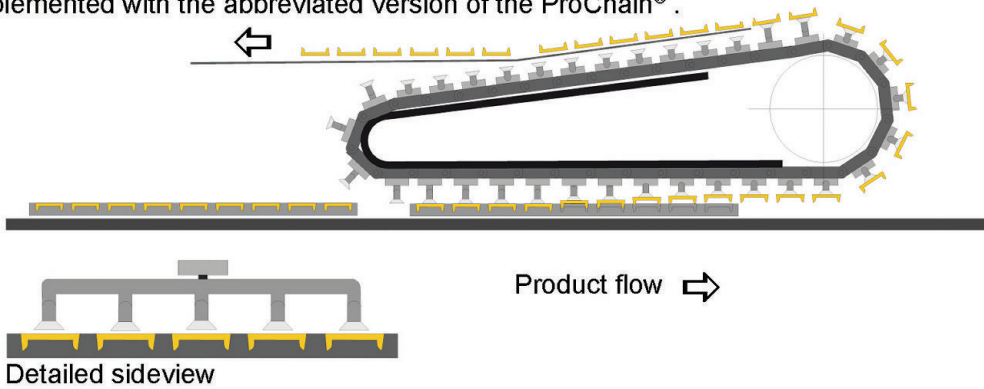# ProChain®

Applications

Tartlets turn over.
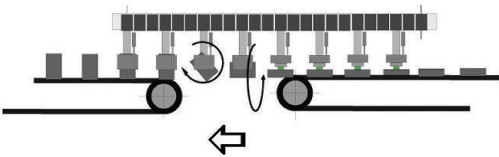
Removing of tartlets shapes and transport out of the casting mold.
Implemented with the abbreviated version of the ProChain® .
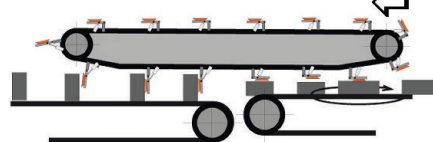

Product flow ⇨

Detailed sideview

Item rotating

ProChain® in horizontal position.
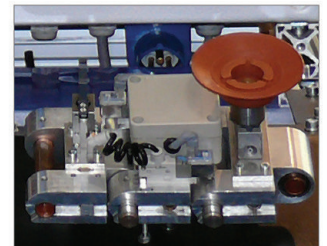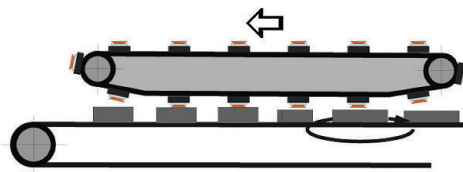Working area underneath or next to it.
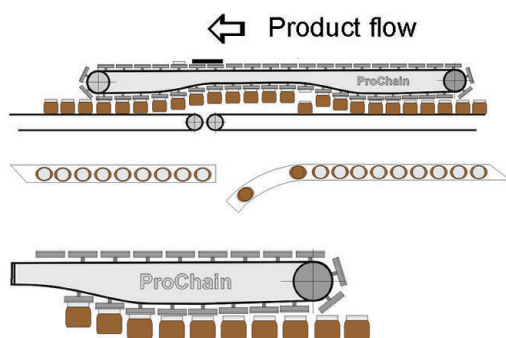Rotating items in any direction.

Isolating and rotating of products.

ProChain® in vertical position.
Rotating items in any direction.
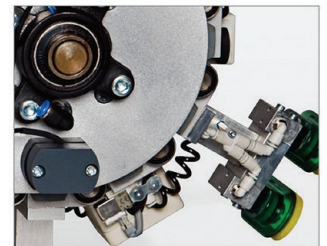
Seperating and transfering of covers
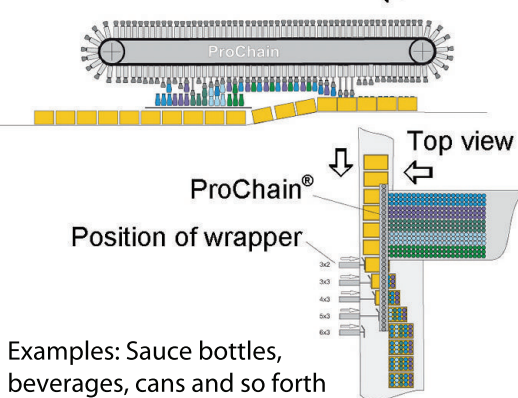
⇦ Product flow

Consignement of bottles

Top view

ProChain®

Position of wrapper

Examples: Sauce bottles,
beverages, cans and so forth

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ProChain®

Applications

Apply multi-functional work tasks
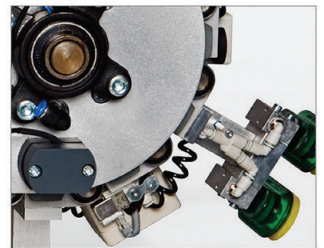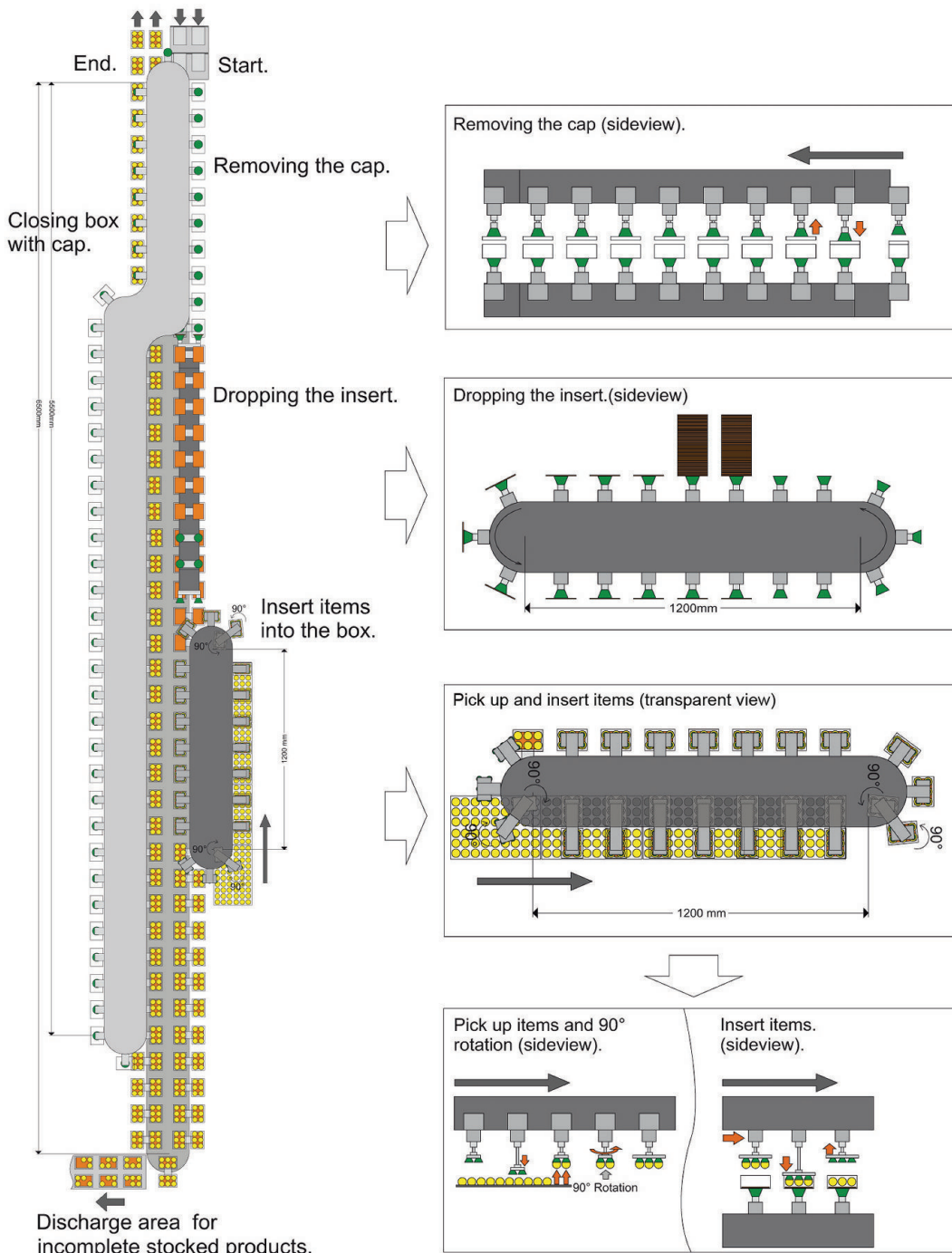
End. — Start.

Removing the cap.

Closing box with cap.

Dropping the insert.

Insert items into the box.

Discharge area for incomplete stocked products.

Removing the cap (sideview).

Dropping the insert.(sideview)

1200mm

Pick up and insert items (transparent view)

1200 mm

Pick up items and 90° rotation (sideview).
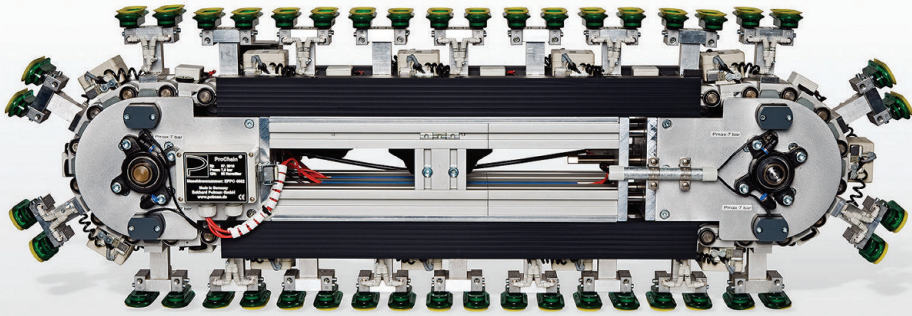
Insert items. (sideview).

90° Rotation

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ProChain®

▶ **No empty return as linear axle or linear applications**
▶ **Low operating cost through increased efficiency**
▶ **Significant increase in production (up to 75%)**
▶ **Exceptional capability**

Key Benefits

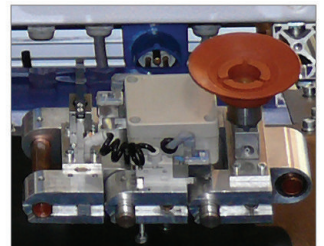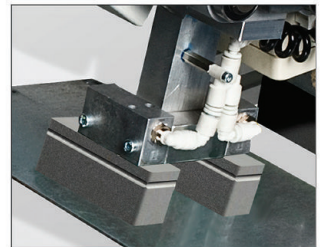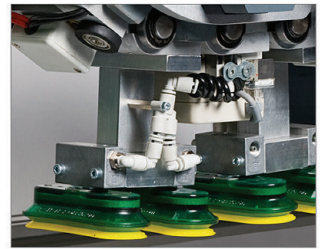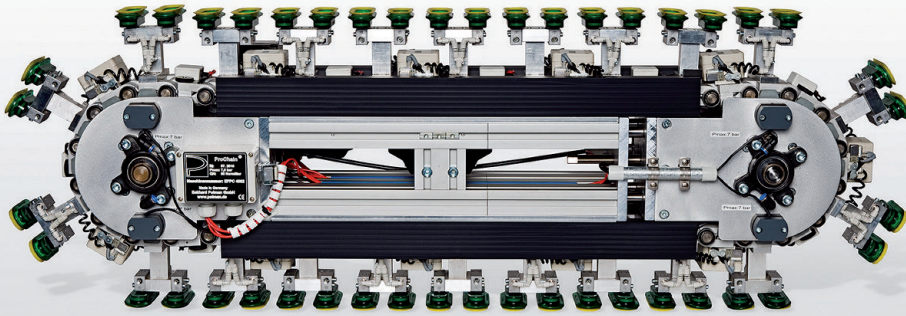- Continuous or pulsed operation
- Modular, standardized assembly
- Configurable Function Design
- Fast possibility of adjustment for product change
- High acceleration and rate of feedt up to 3m/s
- Arrive punctually switching with ASi-Bus at all speeds
- Products profile and material independent transported in all positions
- Any combined assembly possibilities of Pneumatic, Sensoric and Electronic
- Virtually wear-and maintenance-free operation
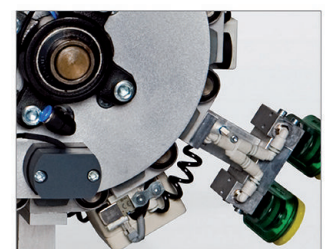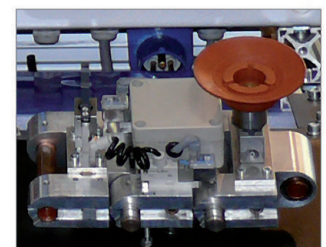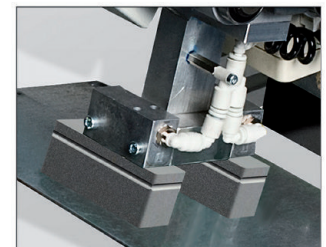- High flexibility

Operation

- Circulating, intelligent chain system with energy as compressed air, electricity and data
  - Air pressure by rotary in the air pressure channel (up to 10 bar)
  - Power supply (24 V DC) via slip ring contacts in line
  - Data transfer via Asi-bus

- Flexible execution of controlled functions at defined positions in circulation
  - Combined use of pneumatic products such as suction / gripper / cylinder
  - Switching of actuators, solenoids or e-drives
  - Integrated sensors and signal trans-mission for monitoring functions

Applications

- Transport of various products regardless of what Surface / material / Geometry
- Positioning functions of collection, processing, packaging, etc.
- Stacking and unstacking
- Discharge / separation of parts
- Packaging applications for example Carton
- Palletizing e.g. Cartons, boxes
- Mount e.g. Paste, screws, mounting
- Printing
- Check e.g. Leak, visual inspection

Technical Data

Output:	50 parts / sec or 3000 parts / min. (for example, at 60mm pitch 40mm size pieces) Other forms in consultation
Max speed:	2 - 3 m / s (target: 6 m / s)
Conveyor Chain :	Block or hinge chain
Guideway:	Roller or plain bearings
Tracked:	Standard: linear, curvilinear
Chain pitch:	Standard: 60 , 80, 100 mm or orbitrary
Dimensions Length:	Optional chain division under
Width:	Standard 100 mm or in consultation
Height:	Depending on the chain division
Mode:	Continuous or pulsed
Type of drive:	Unlimited
Protection:	Up to IP65
Control:	ASi (A/B Slave´s, specification 2.1)
Control interface:	ASi bus coupler
Max acceleration:	In pulsed mode depends on the conveyed
Repeatability:	+/- 0,1 mm
Ambient temperature:	-5°C bis +50°C
Operating pressure:	1 - 10 bar
Pneumatic connection:	Free choice, Flow-induced
Air consumption:	For each application
Operating medium:	Pressure air to the quality class DIN ISO 8573-1 Class 1-1-3
Material:	Aluminium, stainless steel or plastic
Corrosion resistance:	KBK class

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