



Components





Content

Every FAB logistics concept, no matter how complex, is based, among other things, on the expert combination of individual, custom-made conveyor technology components to form a functional unit. The basic principle of the FAB components is briefly described on the following pages.

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Roller conveyor

Function

The FAB roller conveyor is used for the automatic conveying of transport units in single or bulk operation. It consists of rigid steel profiles in which the drive chain slides on fixed plastic strips. The drive chain tangentially drives each conveyor roller individually and thus ensures an even load on the conveyor rollers and drive pinions.

The side profiles are at the same time lateral guides which can be replaced by flanged wheels on the conveyor roller when changing transport units.

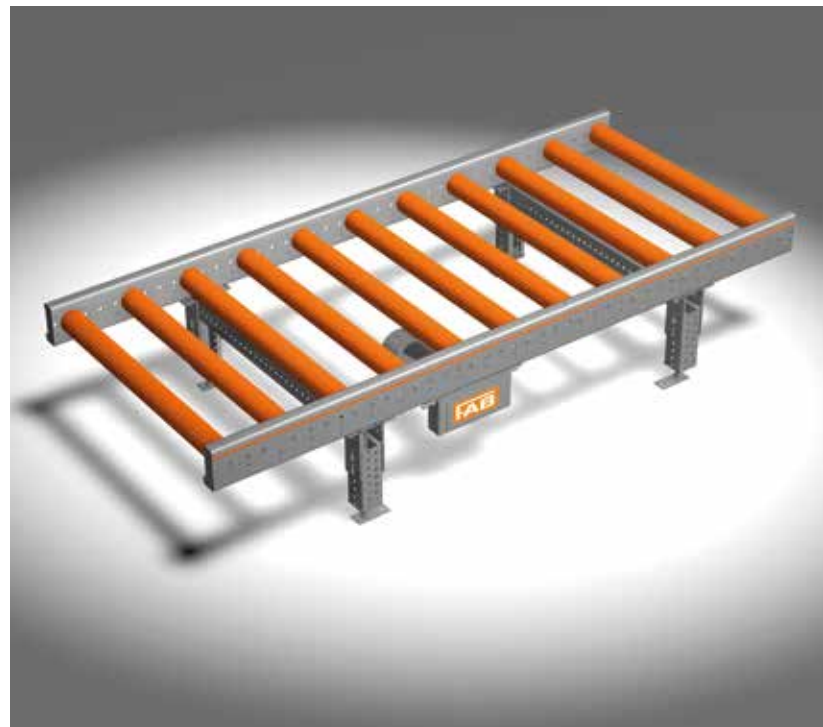
The drive unit can be mounted either under the conveyor or laterally beside the conveyor.

FAB features

- Modular design
- Low basic construction height
- Roller drive with chain based on the omega principle, chain deflection with spring tensioner
- Flexible design based on the material to be conveyed
- Maintenance-friendly design

Technical specification

- Loading capacity single: 50–2,000 kg
- Loading capacity bulk: max. 4,000 kg
- Conveyor speed: 0.1–0.3 m/s
- Drive: three-phase synchronous gear motor



Transport units

- EURO pallets according to DIN
- Industrial pallets according to DIN
- CP 1-9 -mesh boxes according to DIN
- Grids, trays, racks, boxes, baskets, etc.
- Customized means of transport

Options

- Floor-level loading
- Heavy duty version for higher loads
- Lateral guide with flanged wheels
- Roller drive with toothed belt
- Use of friction rollers
- Version for explosion-proof areas



Chain conveyor

Function

The FAB chain conveyor is supported by extruded aluminum profiles. The supporting spars are provided with profiled plastic strips on which the conveyor chain can glide with excellent running smoothness.

Lateral guides and holders for sensors can be easily mounted in the aluminum profile. The number of supporting profiles is selected according to the load and nature of the transport units.

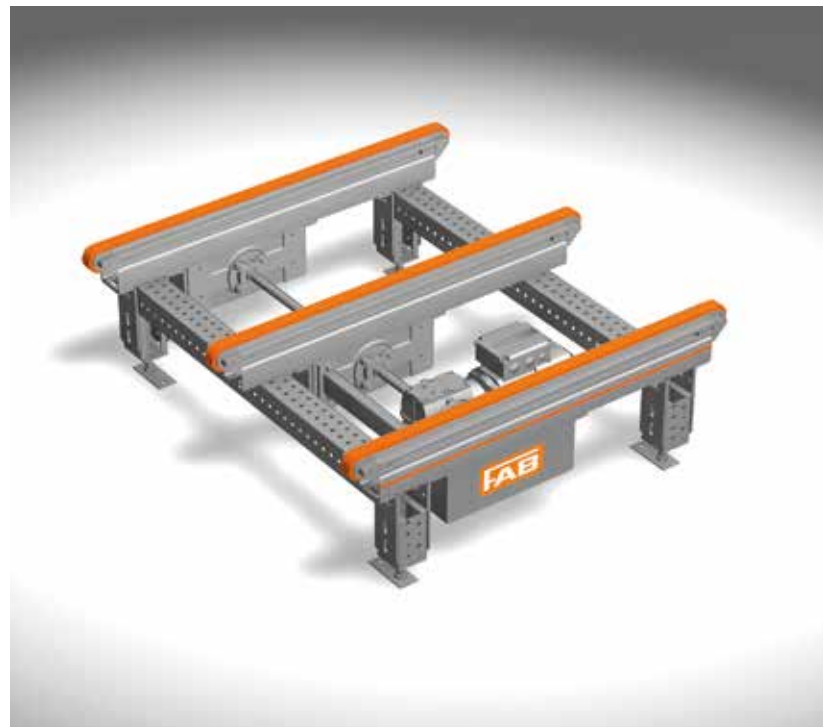
The drive unit installed under the aluminum profile can be mounted at any position of the conveyor. The omega drive ensures excellent synchronization of the transport units across all supporting profiles.

FAB features

- Modular design
- Low basic construction height
- Chain drive based on the omega principle
- Spar position adjustable according to the requirements of the transport unit
- Conveyor chain with straight flat links for large contact surface
- Small deflection radii at the transition from conveyor to conveyor
- High variability for attachments
- Maintenance-friendly design

Technical specification

- Loading capacity single: 50–2,000 kg
- Loading capacity bulk: max. 4,000 kg
- Conveyor speed: 0.1–0.3 m/s
- Drive: three-phase synchronous gear motor



Transport units

- EURO pallets according to DIN
- Industrial pallets according to DIN
- CP 1-9
- Mesh boxes according to DIN
- Grids, trays, racks, boxes, baskets, etc.
- Customized means of transport

Options

- Heavy duty version for higher loads with 1" chain and steel profile
- Special design, for example with toothed chains for special requirements
- Version for explosion-proof areas



Right angle transfer deck

Function

The FAB right angle transfer deck is a combination of roller and chain conveyors or chain and chain conveyors. In connection with the lifting device, it serves to automatically change the direction of transport units at a 90° angle. In doing so, the conveying direction changes from longitudinal transport to transverse transport or vice versa.

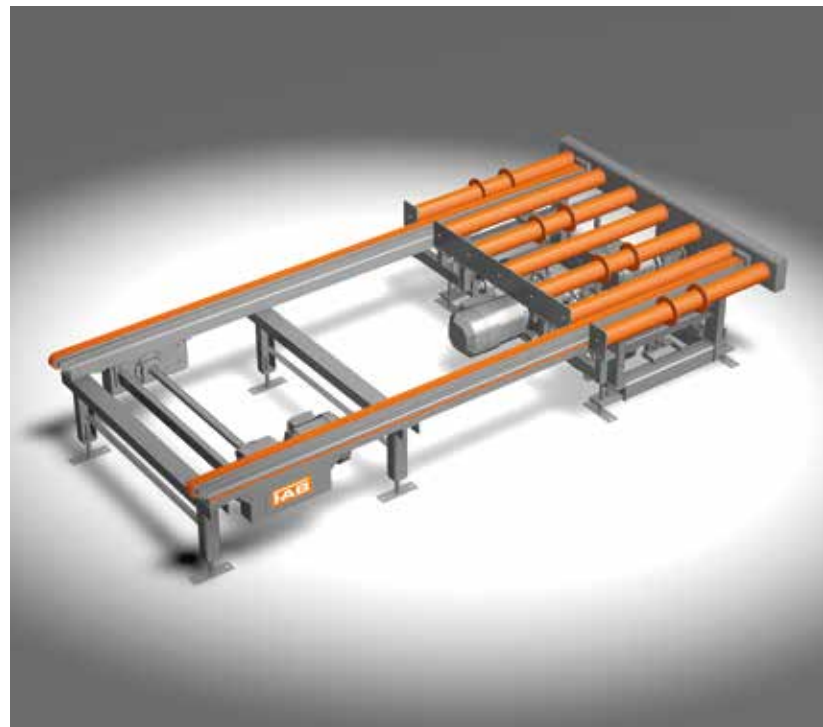
The necessary lifting movement for changing the conveying element is carried out electromechanically via eccentric technology. The variability of the lifting device allows to lift both the chain conveyor and the roller conveyor.

FAB features

- Modular design
- Low basic construction height
- Transformation from rotary to linear motion for an optimized and gentle lifting motion
- Requires little lift drive power
- Very smooth running

Technical specification

- Loading capacity: 50–2,000 kg
- Lifting motion: approx. 3 sec
- Drive: three-phase synchronous gear motor
- Positioning: INI



Transport units

- EURO pallets according to DIN
- Industrial pallets according to DIN
- CP 1-9
- Mesh boxes according to DIN
- Grids, trays, racks, boxes, baskets, etc.
- Customized means of transport

Options

- Fixed stop
- Lowerable stop
- Suitable for loads greater than 2,000 kg
- Version for explosion-proof areas



Rotary device

Function

FAB rotary devices are used to automatically change the direction of transport units at different angles to the entry position. In the standard setting, the transport unit is turned by 90°. For a change of a transport unit's running direction, a change by 180° is also possible. The turning device can serve several incoming and outgoing conveyor lines like an intersection.

The rotary motion is generated by a drive wheel pressed on by spring force.

Depending on the type of transport unit, the rotary device is equipped with chain/roller/belt or support profile conveyors.

FAB features

- Low basic construction height
- Stress-optimized frame construction
- High-precision fit, low-maintenance rotary drive with friction wheel
- Low drive power required for rotary drive
- High positioning accuracy
- Excellent running smoothness

Technical specification

- Loading capacity: 50–2,000 kg
- Rotational speed: 30°/sec
- Drive: three-phase synchronous gear motor
- Positioning: INI



Transport units

- EURO pallets according to DIN
- Industrial pallets according to DIN
- CP 1-9
- Mesh boxes according to DIN
- Grids, trays, racks, boxes, baskets, etc.
- Customized means of transport

Options

- Positive rotary drive
- Protection device
- Suitable for loads greater than 2,000 kg
- Version for explosion-proof areas



Traversing carriages

Function

The FAB traversing carriage is used for the automatic transfer of transport units at various loading and unloading points in distribution centers, continuous buffer systems and transport routes.

Also known as traversing cars or transfer vehicles, they can be used to redistribute transport units to other conveyor lines at high speed.

Depending on the application, chain/roller/belt or support profile conveyors are mounted to the traversing carriage at minimum conveying heights.

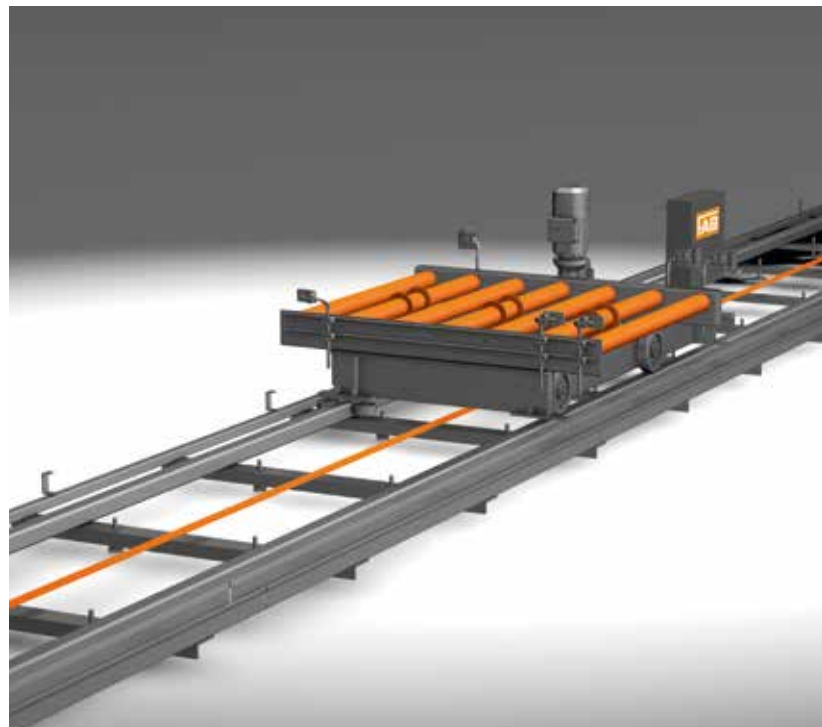
The toothed belt technology used by FAB is characterized by very quiet running, high performance and durability with low maintenance requirements.

FAB features

- Modular design
- Low basic construction height
- Use of toothed belt technology
- High driving dynamics
- High positioning accuracy
- Excellent running smoothness

Technical specification

- Loading capacity: max. 2,000 kg
- Driving speed: 0.3–1.5 m/s
- Acceleration: 0.2–0.75 m/s²
- Drive: three-phase synchronous gear motor, servo gear motor
- Positioning: absolute-value device



Transport units

- EURO pallets according to DIN
- Industrial pallets according to DIN
- CP 1-9
- Mesh boxes according to DIN
- Grids, trays, racks, boxes, baskets, etc.
- Customized means of transport

Options

- Heavy duty version for higher loads
- Version for explosion-proof areas



Vertical conveyor

Function

The FAB vertical conveyor is a lifting device for automatic transfer of transport units to different levels.

Also known as a hoist or lift, it differs from freight elevators in that the transport units are automatically loaded and unloaded. Depending on the application, chain/roller/belt or support profile conveyors are mounted to the lift carriage.

The flat belt technology used by FAB is characterized by high performance and durability with low maintenance requirements.

FAB features

- Basic version with balancing weight
- Lifting frame in optimized frame construction
- Use of flat belt technology
- Resource-friendly lifting drive
- High positioning accuracy
- Energy-efficient
- Excellent running smoothness
- Minimal maintenance effort
- Safe handling in case of maintenance

Technical specification

- Loading capacity: 50–2,000 kg
- Lifting speed: 0.3–1.5 m/s
- Lifting acceleration: 0.2–0.75 m/s²
- Drive: three-phase synchronous gear motor, servo gear motor
- Positioning: absolute-value device



Transport units

- EURO pallets according to DIN
- Industrial pallets according to DIN
- CP 1-9 – mesh boxes according to DIN
- Grids, trays, racks, boxes, baskets, etc.
- Customized means of transport

Options

- 4-Stand construction
- Safety device
- Monitoring device
- Load drop protection
- Protection device
- Suitable for loads greater than 2,000 kg
- Version for explosion-proof areas



Tool changing system

Function

The FAB tool changing system was developed for a quick and uncomplicated change of punching and pressing tools. The special gripping and coupling technology to the tool in connection with the operation enables a safe and hazard-free tool change for the operator.

The intermediate positioning of the next tool results in a short changeover time and the handling of small production batches becomes efficient.

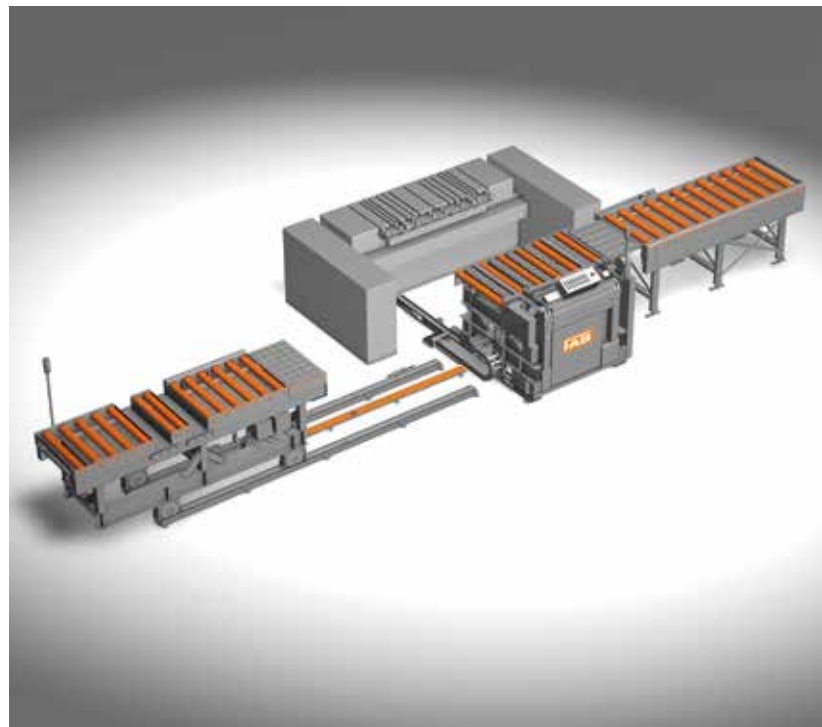
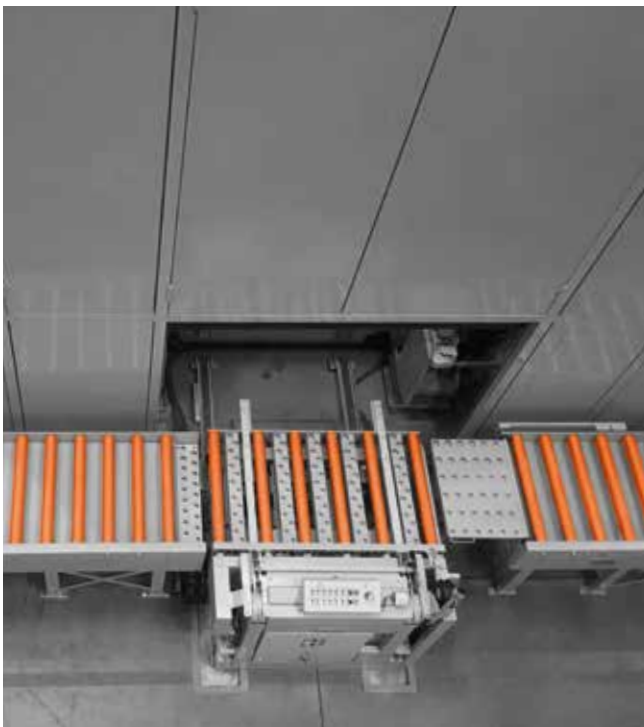
The system can be used in the metal and plastic processing sector as well as in other production areas.

FAB features

- Operator-led
- Special tool coupling
- Quick tool changeover, about 10–12 minutes
- Operator-friendly and safe tool handling
- Changeover procedure very gentle to the tool
- High system availability

Technical specification

- Loading capacity: max. 6,500 kg
- Driving speed: max. 0.5 m/sec
- Conveyor speed: max. 0.2 m/sec
- Conveyor acceleration: 0.2–0.75 m/s²
- Drive: three-phase synchronous gear motor
- Positioning: Sensors



Transport units

- Punching tools, pressing tools with a maximum dimension of 1,200 x 2,500 mm (W x L)
- Tool weight up to 6,500 kg

Options

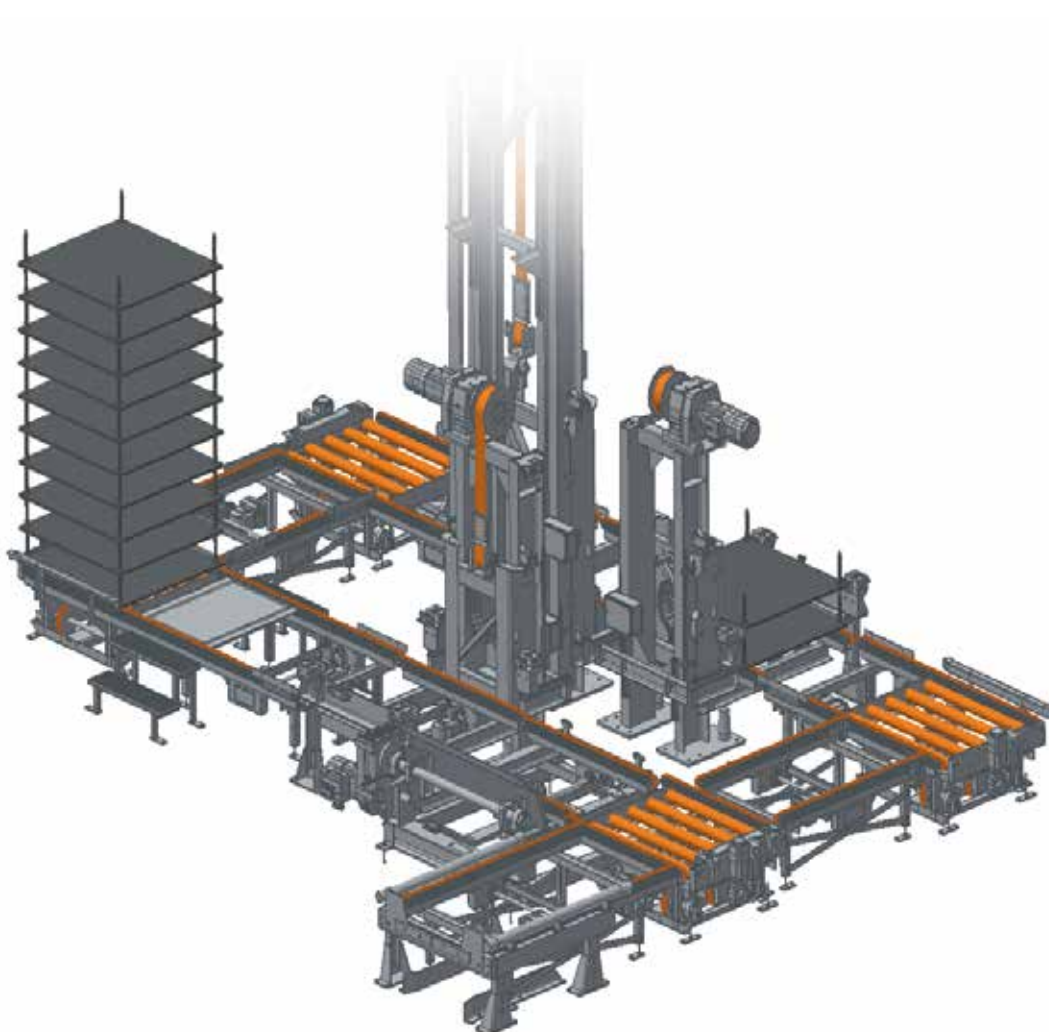
- Connection to tool storage
- Heavy duty version for transport units with higher loads



FAB. Simply consistent.

Logistics concepts with added value

FAB conveyor components are manufactured in the south of the Black Forest to meet the highest technical standards and offer you solid, outstanding quality. The components reach their maximum performance when we integrate them into complex material flow systems, which we plan and implement individually for your needs. In this way you achieve economic added value for your company. Do not hesitate to challenge us!





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