



TRANSFER TECHNOLOGY

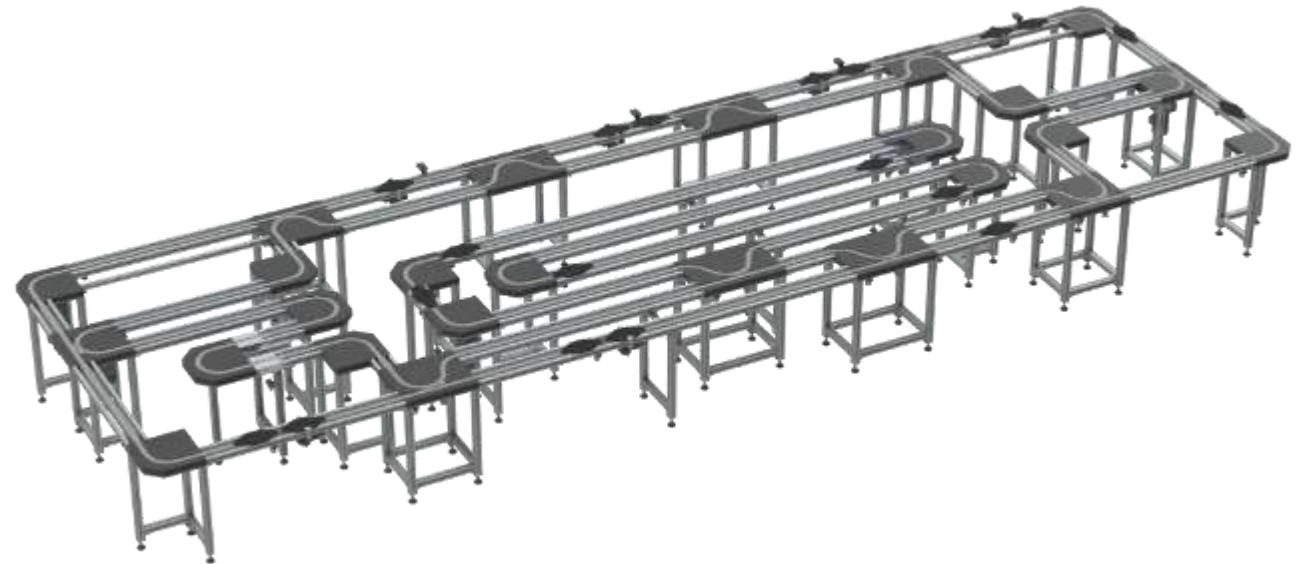
www.sigma.ch



COMPANY

Rodotec AG
Mühlebachstrasse 5
CH-6370 Stans

- Owner-managed company
- Founded in 2005
- Transfer and Assembly Technology
- 16 Employees
- Sales area: CH and EU-countries, International

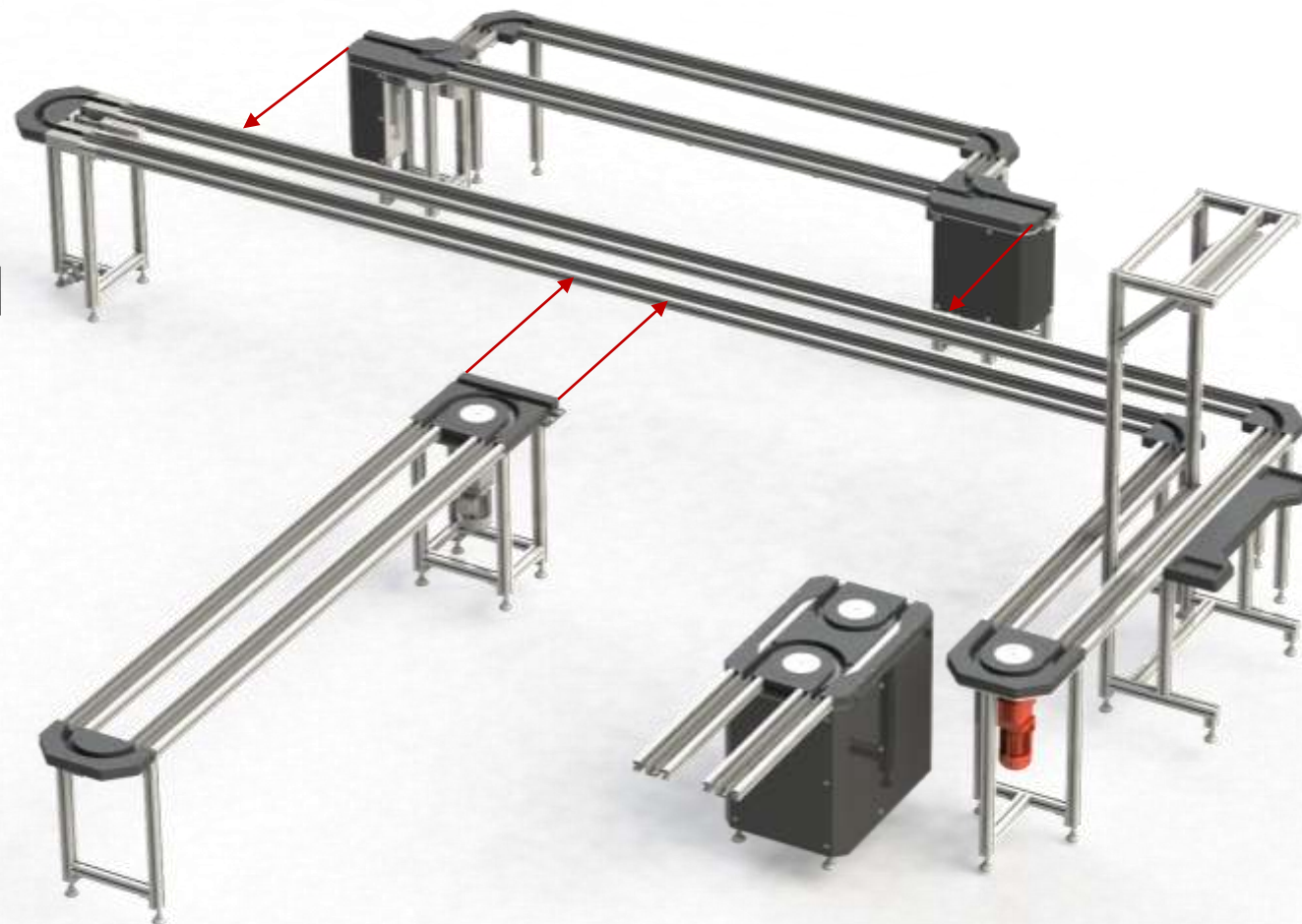


OUR SERVICES AS A SYSTEM SUPPLIER:

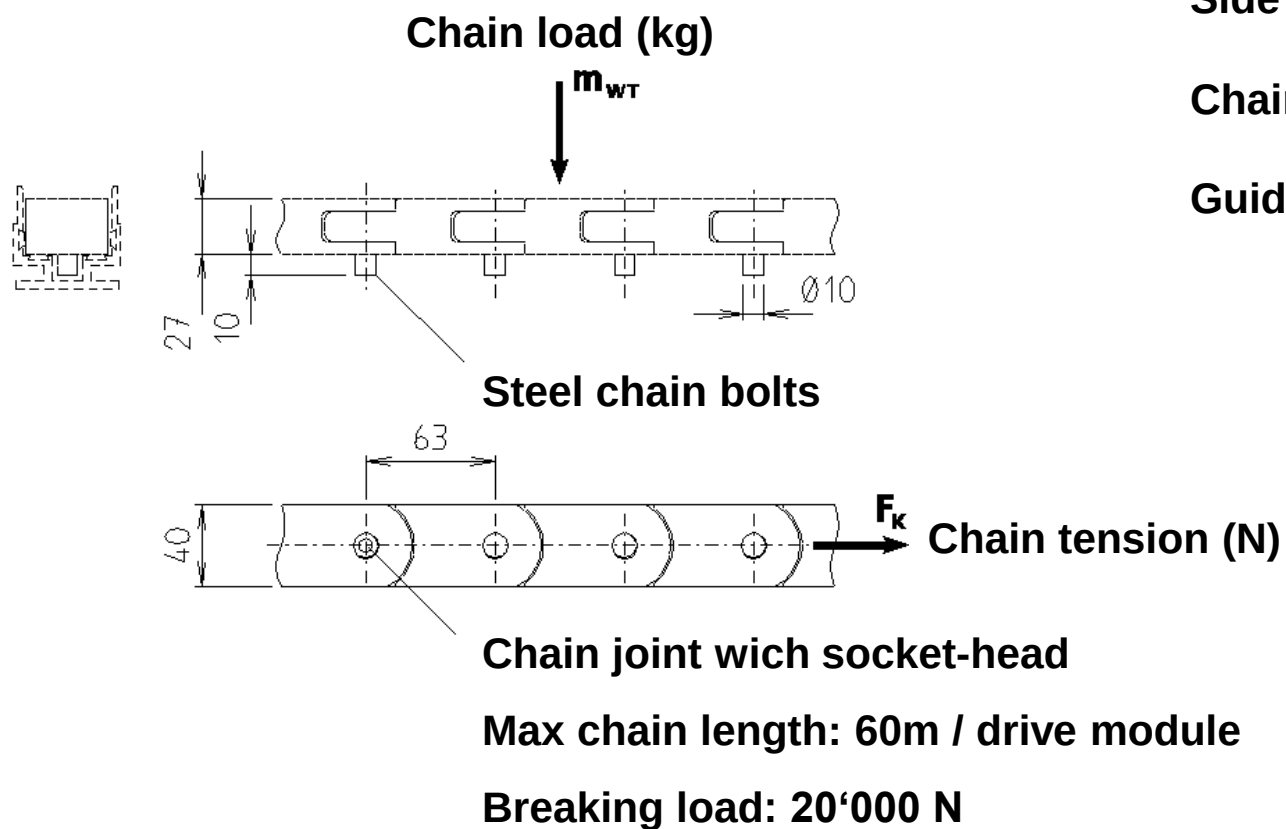
- Engineering
 - Construction
 - Project management
 - Concepts / Studies
 - Calculations
- Electric
 - Electrical planning
 - Cabinet construction
 - Wiring
 - Installation
- Software
 - PLC
 - Order management
 - Database
 - Remote maintenance
- Production / Assembly
 - CNC production
 - Complete assembly
 - Commissioning
 - Service

Characteristics

- Simple, robust transfer system
- Clear structure and design
- Modular and standardized
- Flexibly expandable
- High reusability
- Low maintenance effort
- Low noise level



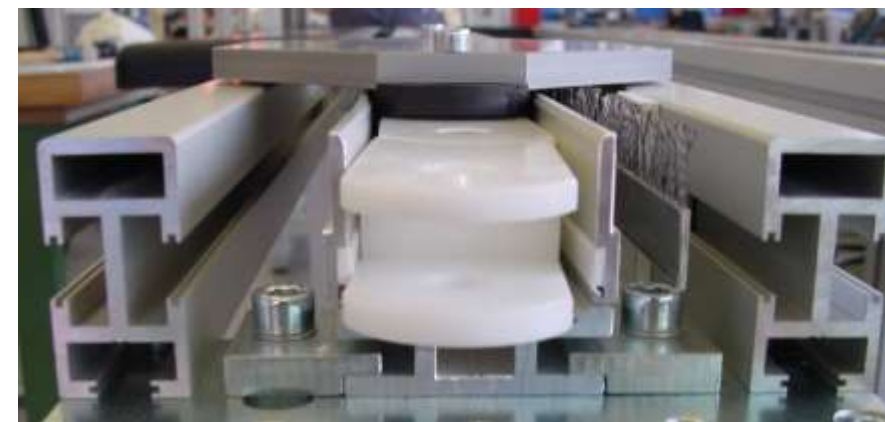
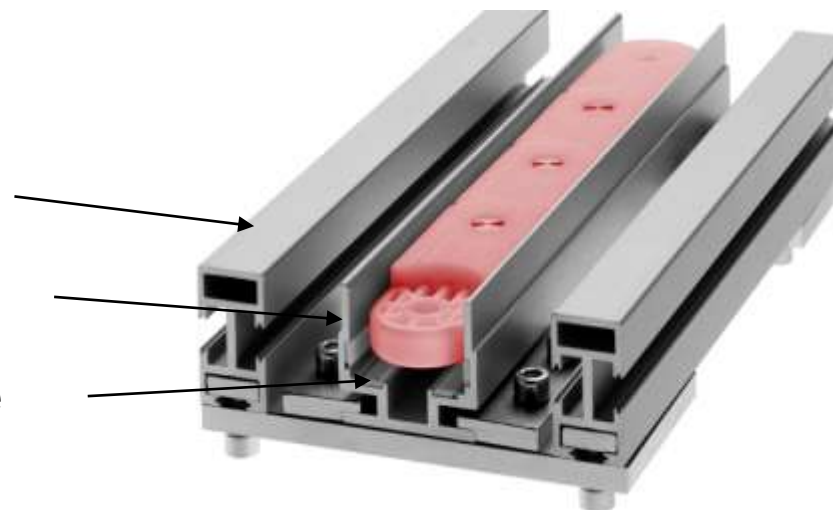
Chain and linear module



Side profile

Chain profile

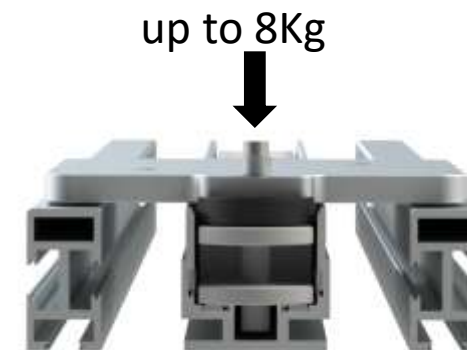
Guide profile



Pallet drive principle

■ ST-600 bis ST-715

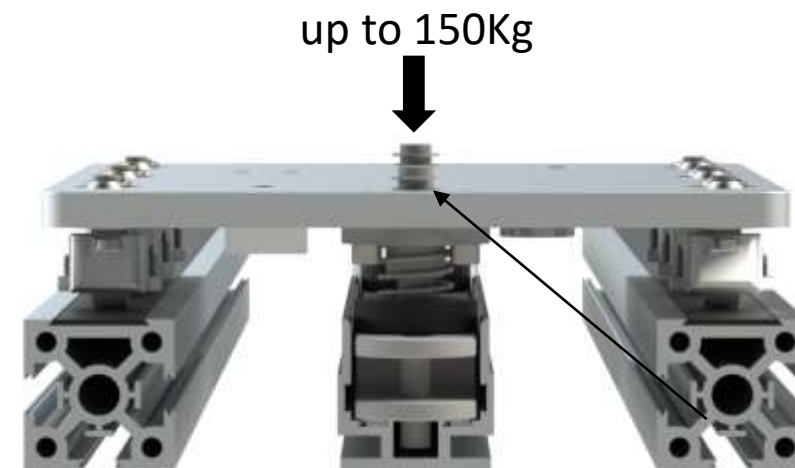
- Pallet(weight) lies directly on the chain
- Moving due to friction between sliding shoe and chain



The entire pallet weight carried by the chain

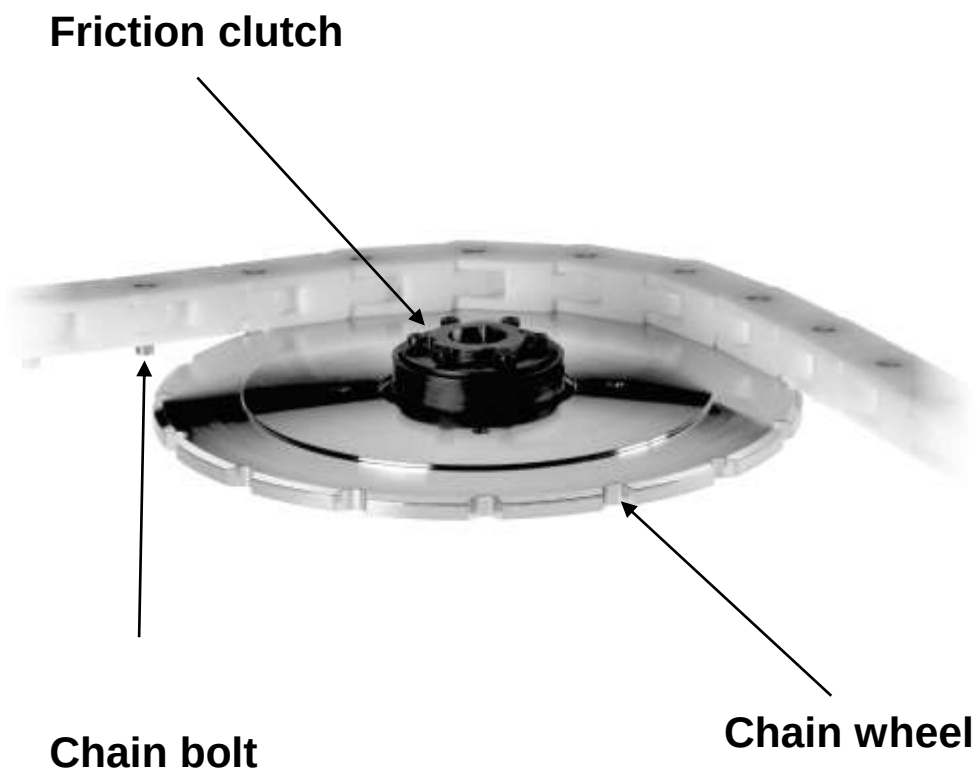
■ ST-815 bis ST-840

- Pallet(weight) lies directly on the rollers, except the weight to ensure the friction
- Moving due to friction between sliding shoe and chain



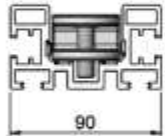
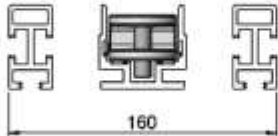
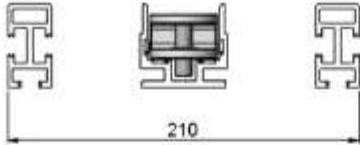
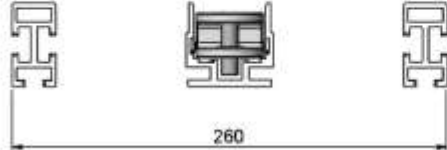
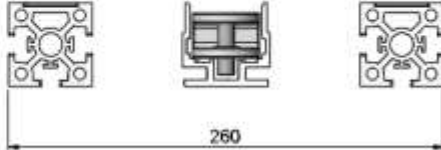
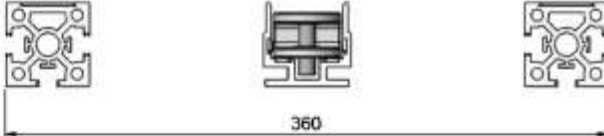
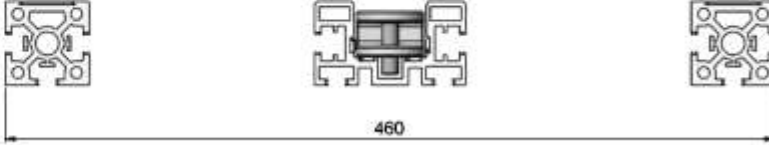
Only the spring load is carried by the chain (2x40N)

The drive mechanism



- The transfer chain is guided through a chain wheel within a 90° or 180° idler.
- The chain wheel is driven by a gearmotor.
- The power is transmitted by the 10mm chain bolts on each single chain link.

System sizes

Up to 2 Kg	Up to 8 Kg	Up to 150 Kg
ST-600 	ST-700 	
	ST-710 	
	ST-715 	ST-815 
		ST-820 
		ST-840 

Pallet shape

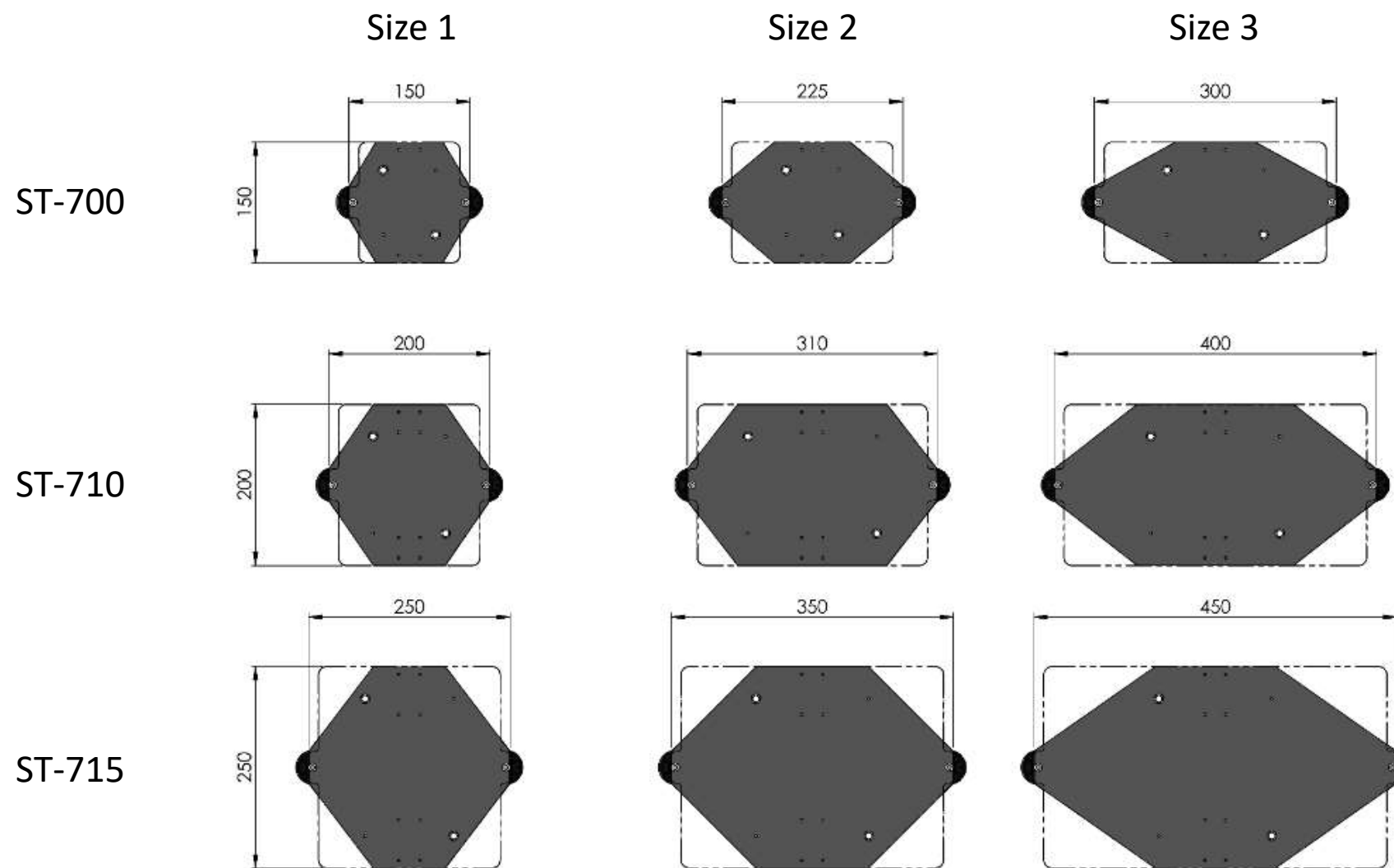


- Hexagonal shape
- Stoppable in curves
- Allows to piling up in curves

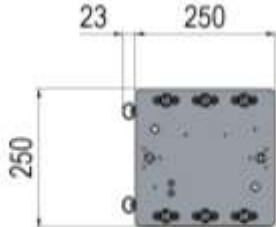
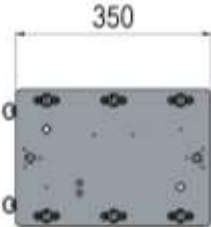
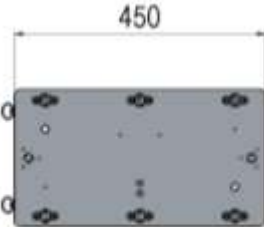
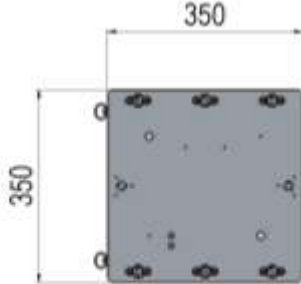
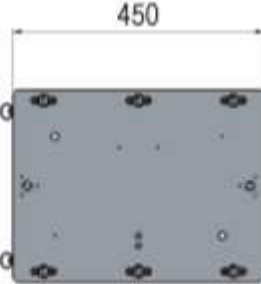
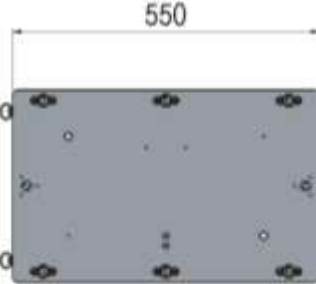
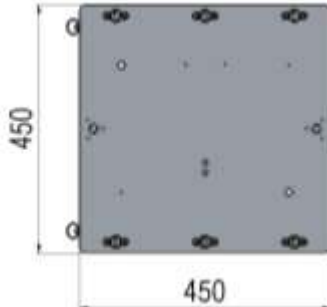
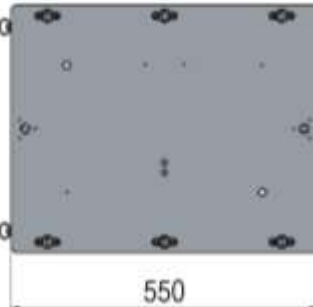
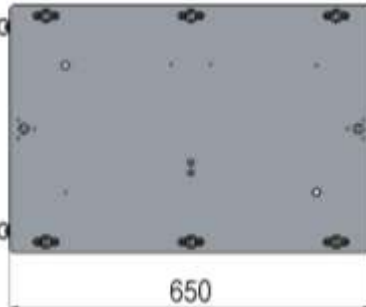


- Rectangular shape
- Stoppable in curves
- Needs to be separated in curves

Pallet ST-700 to ST-715



Pallet ST-815 to ST-840

	Size 1	Size 2	Size 3
ST-815			
ST-820			
ST-840			

Basic construction

1  Drive module



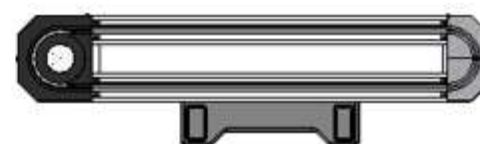
2  Linear module



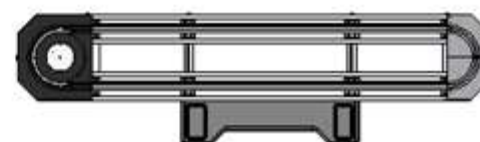
3  Idler 180°



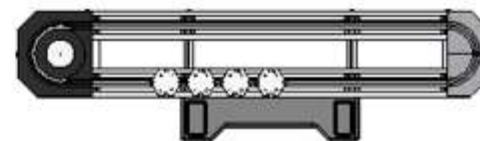
4  Manual workplace / Automatic station



5  Support module



6  Stopper



8  Pallet

Expansion possibilities

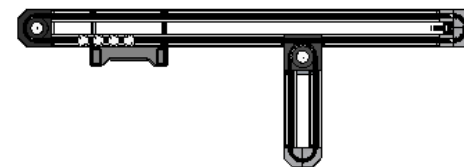
1 Basic system



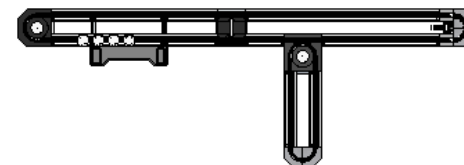
2  Chain tensioner



3  Intersection module 2



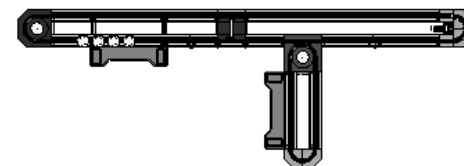
4  Cross transfer module

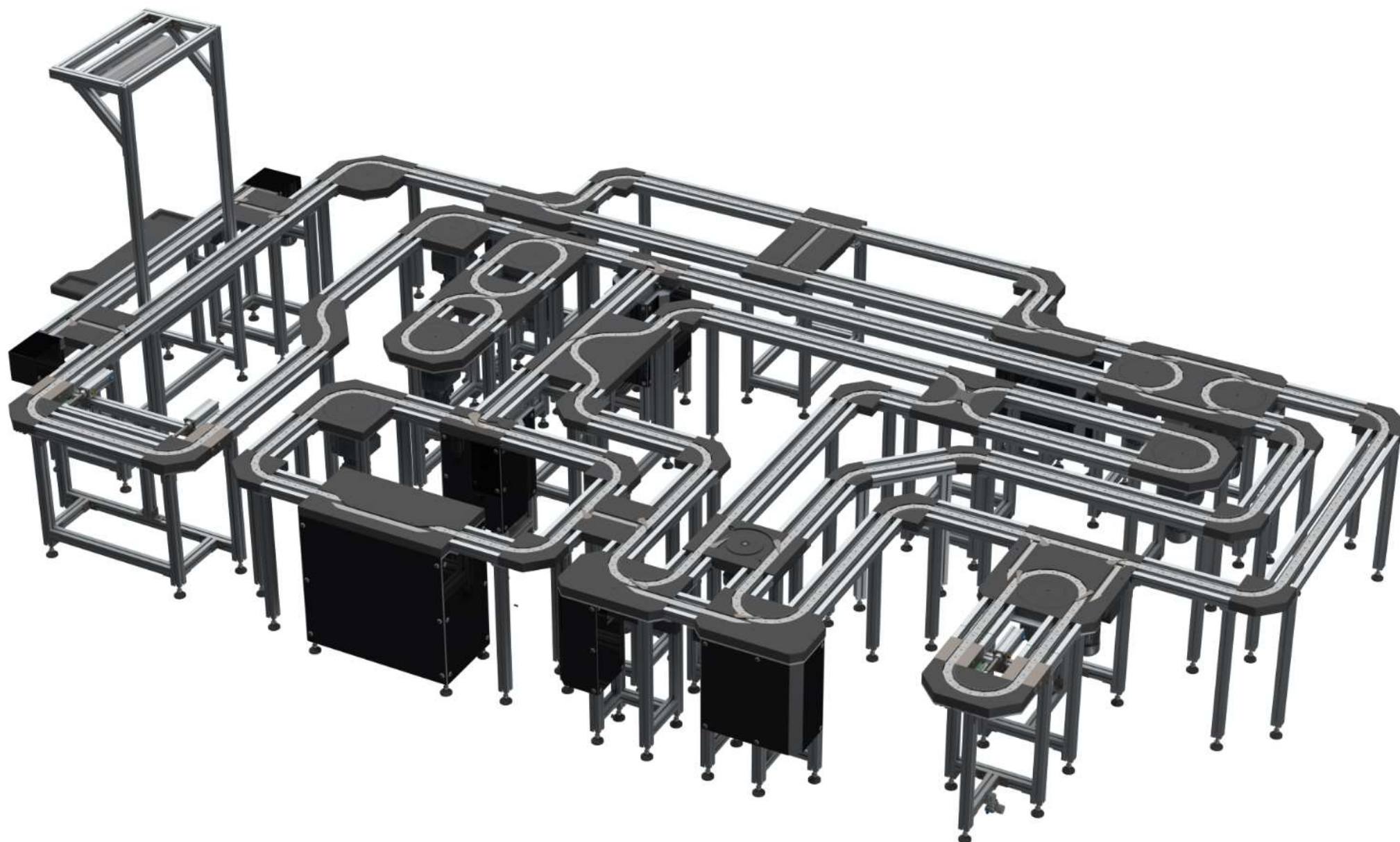


5  Stopper

6  Indexing module

7  Manual workplace /
Automatic station





ATM Drive module

■ Characteristic

- Up to 60 meter chain per drive
- Just one drive for each circuit
- Friction clutch for safety
- Speed up to 350mm/sec



ULM Idler

■ Characteristic

- To change direction
- Fixed / Rolling / Rotary
- Other angles possible
- Reduced resistance between chain and idler due to rollers or rotating wheel



KSM Chain tensioner

■ Characteristic

- Ensures the optimal chain tension
- Fixed / Rolling / Rotary
- Needed from approx. 20 meters chain, depending on the number of idlers
- Force adjustable with pressure reducing valve



VZM Intersection module 2 & 4

■ Characteristic

- To connect main and secondary circuits
- Little need of place
- Low control effort
- Integrated drive module



UEM Handover module

■ Characteristic

- To connect two circuits
- Designed for long distances
- Optionally with integrated drive module



KZM Cross module

■ Characteristic

- To connect main and secondary circuits
- Little need of place
- To bypass cells, manual or automatic workstations
- Fixed / Rolling / Rotary
- Same direction of chain is mandatory



DTM Turntabel module

■ Characteristic

- To connect main and secondary circuits
- Little need of place
- Integrated drive module
- Opposite direction of chain is mandatory



QFM Cross transfer module

■ Characteristic

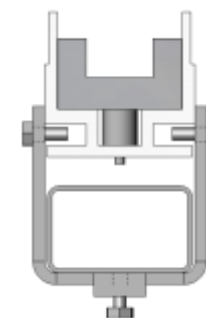
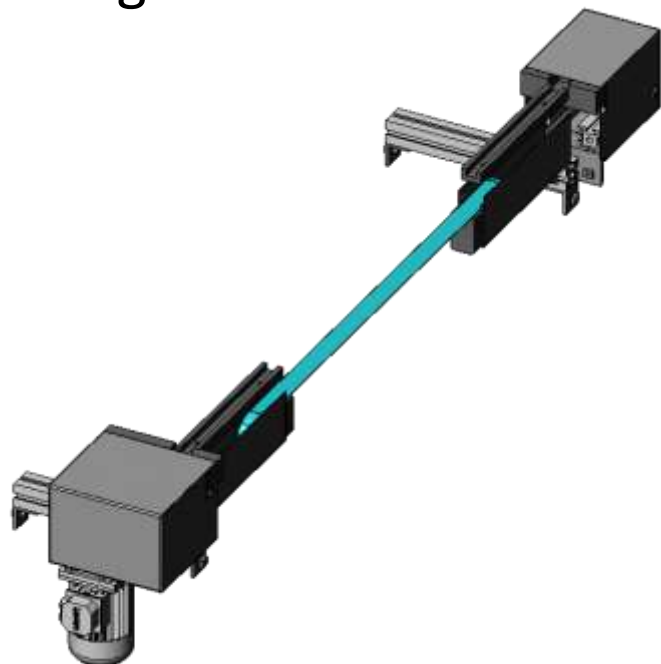
- To connect main and secondary circuits
- Can be combined with linear conveyor module
- 323mm, 563mm, 600mm+
- Reversible or one-way



PBM Linear conveyor module

■ Characteristic

- Straight, vertical moving chain
- Autonomous secondary line
- Integrated drive module



VZM Intersection modul 1 & 5

■ Characteristic

- To connect main and secondary circuits
- Little need of place
- Low control effort
- Integrated drive module



Soft motion conveyor

■ Characteristic

- Speed free programmable
- Gentle, vibration-free stopping and acceleration of pallet
- Reducing cycle times
- Reversible



KAM Chain deflection module

■ Characteristic

- Enable access or machining from below
- Low control effort



FTE External part remover

■ Characteristic

- Removes foreign objects, such as dirt, screws or dust
- Above, next to and underneath the chain
- Two versions available



HAP Manual workstations

■ Characteristic

- Surface for assemblies, storage for tools and mounting material
- Ergonomic, smart and easily integrated
- Expandable with containers, boxes, etc.
- No additional safety activities necessary



ZEM Indexing module

■ Characteristic

- Standard / Precision / Elevated / Overtaking
- Pallet lifted between 1mm up to 300mm
- Accuracy up to +/- 0.02mm
- Optional with a force absorption frame



AHM Stop module

■ Characteristic

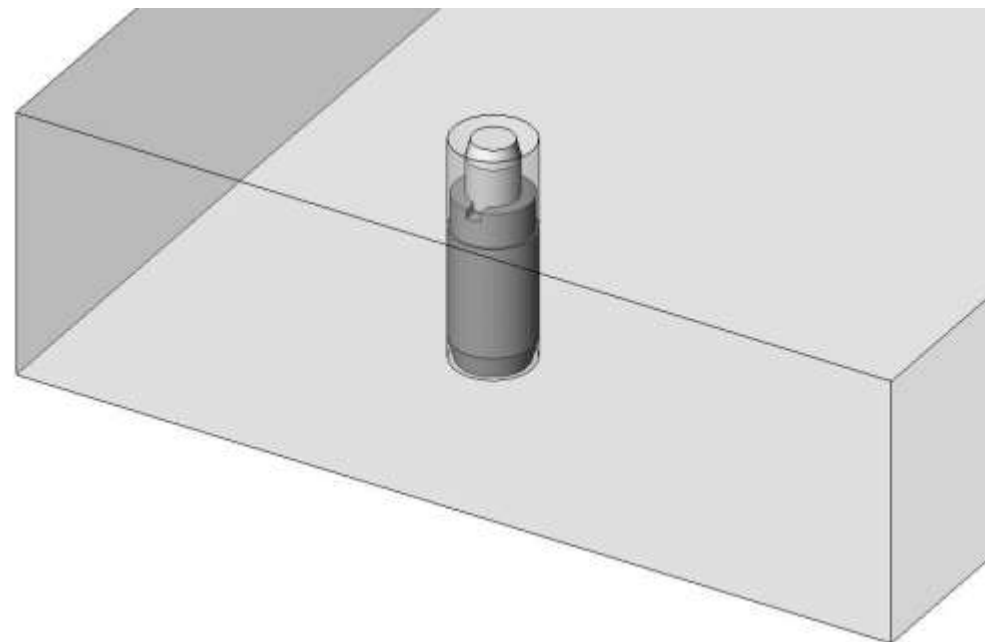
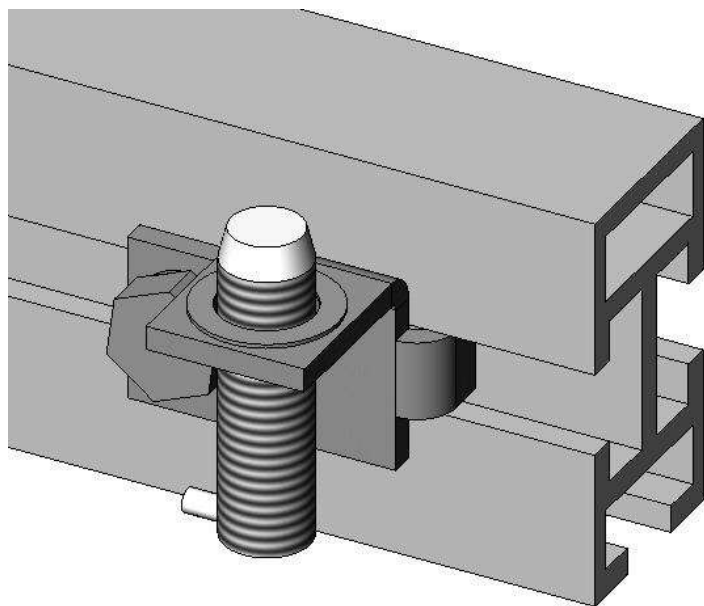
- Fix or damped version
- Controlled stopping and release of pallet



Initiators / Proximity switch

■ Characteristic

- Standard or mounted in baseplate
- To detect the pallets



RFID Read module

- **Characteristic**

- RFID Head
- RFID Read system
- Control system
- Free programmable



Transport chain



Standard



ESD



Aluminium



Standard Short

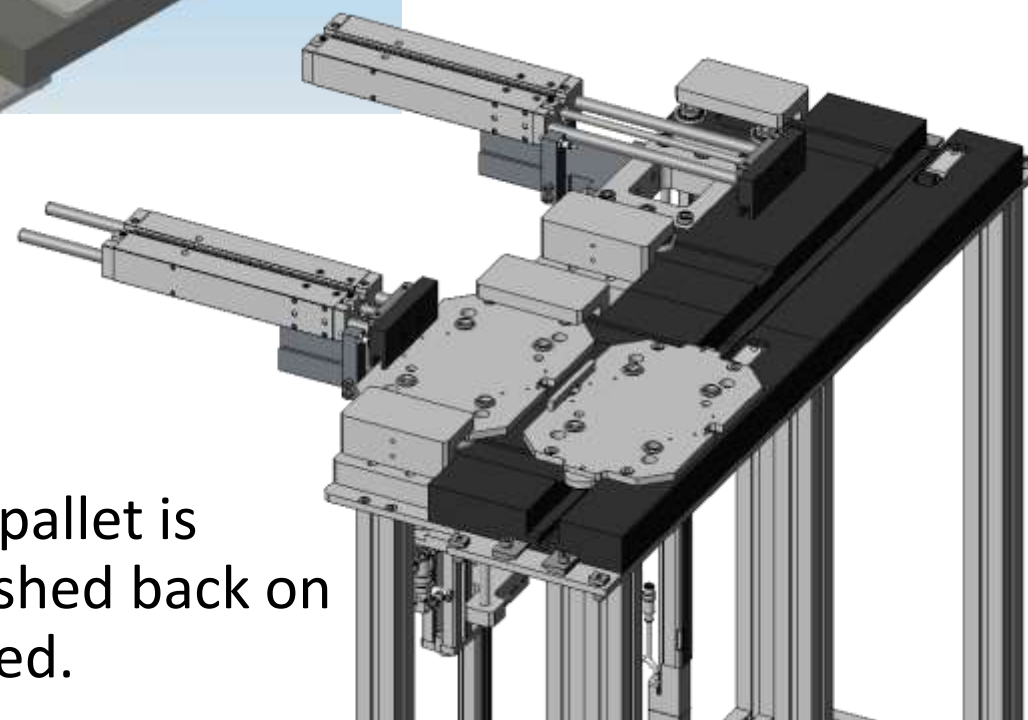
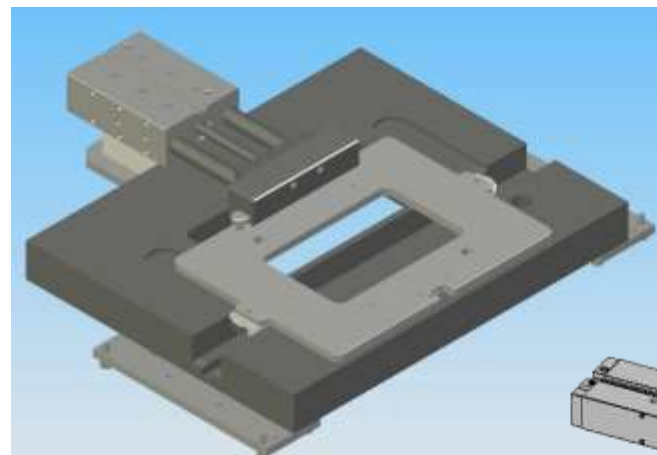
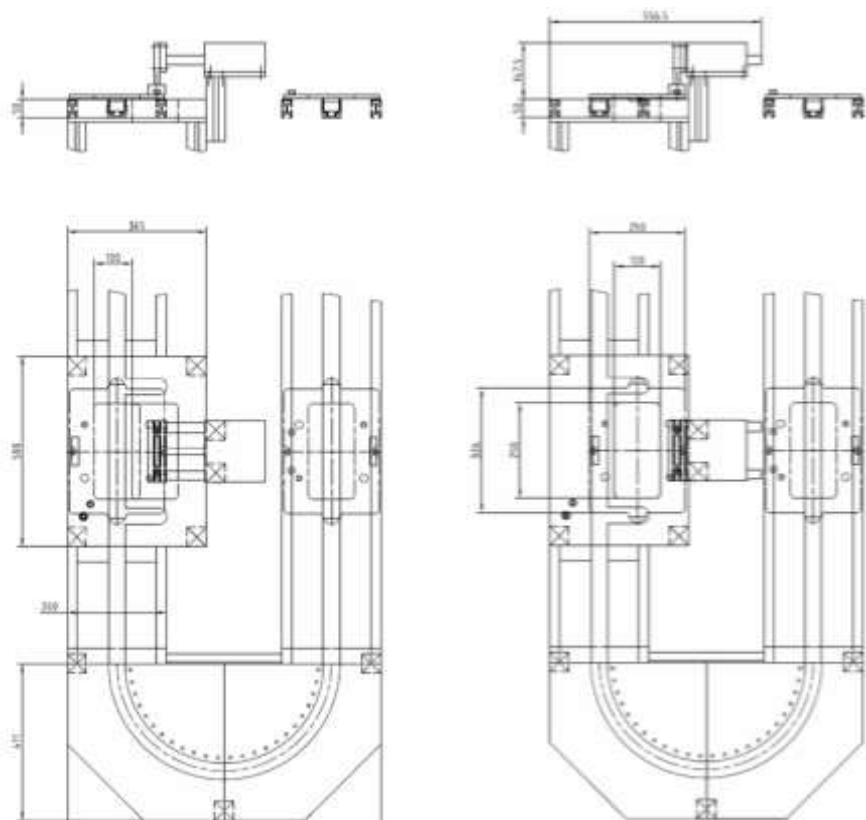


Short ESD



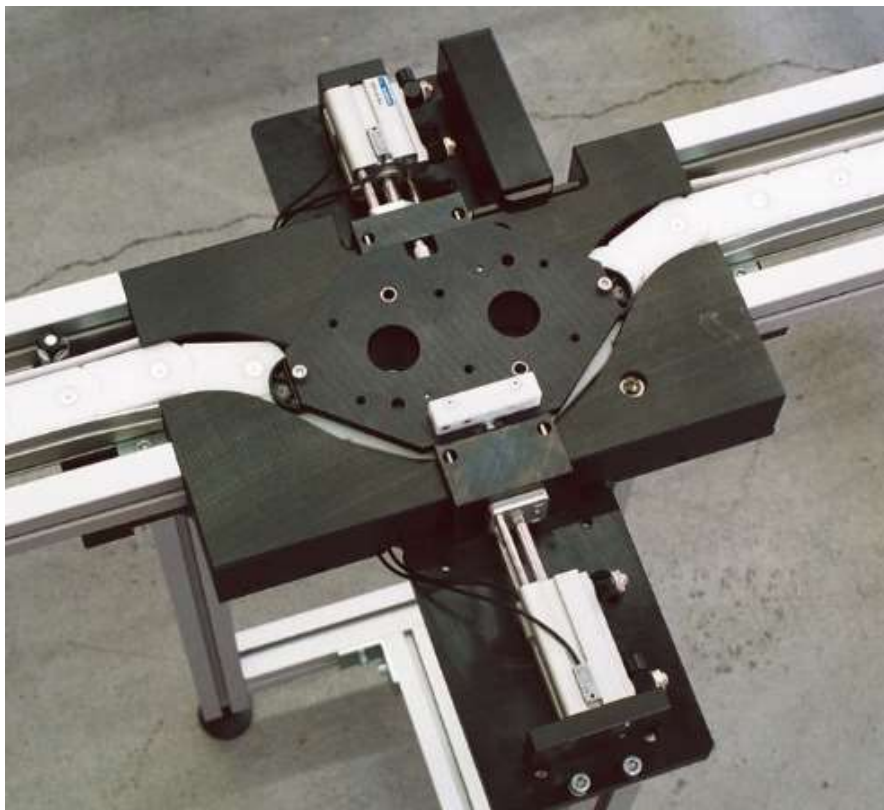
Brushed

Pull- / Push module



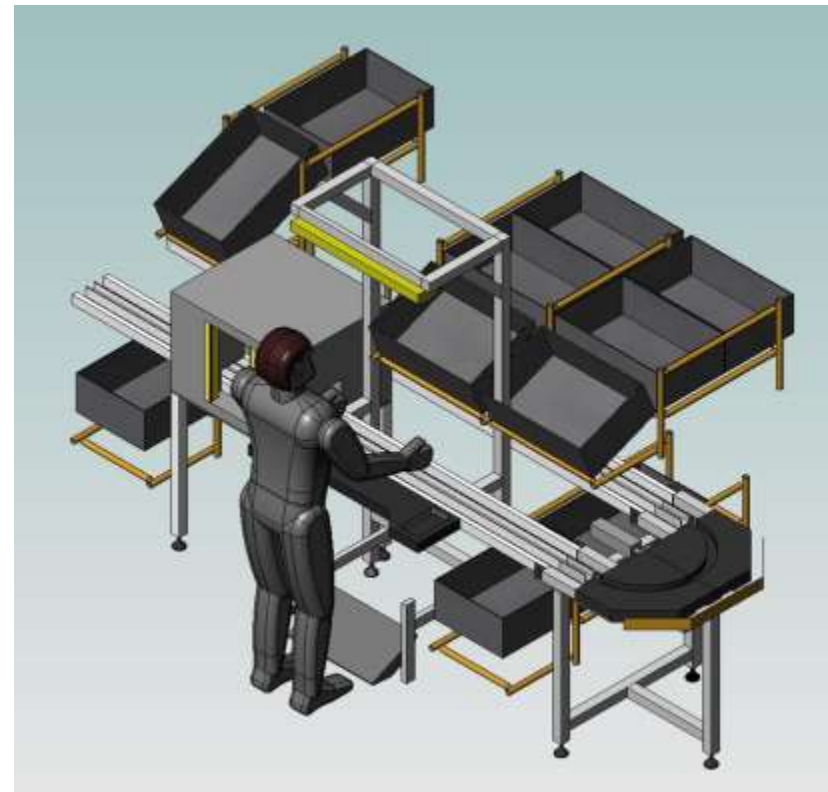
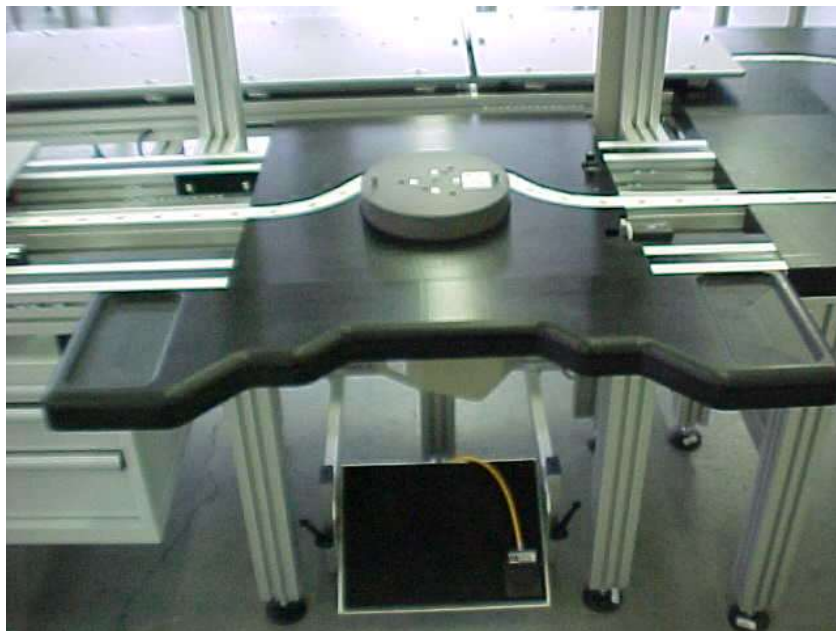
For manufacture processes from below. The pallet is pulled out with a pneumatic cylinder and pushed back on the transport chain after it's process is finished.

Chain deflection module incl. indexing (sideways)



The Pallet at the deflected indexing position enables the access from below.

Customer specific manual workstations



■ HAP with hub-/rotating unit

The hub-/rotating unit is used to lift and freely positioning the pallet by hand. By releasing the foot switch, the pallet is locked at it's position and the worker can assemble the required parts easily.

■ HAP with options

Download Products

- Technical data sheet (DE / EN)
- STEP-File
- Just for standard modules
- For any other data, please contact us

SIGMA
TRANSFER TECHNOLOGY

Home Transfersysteme **Produkte** Automation Referenzen Videos Firma  

Kategorien

- Medien
- ST-600
- ST-600-S
- ST-700
- ST-710
- ST-715
- ST-815
- ST-820
- ST-840

Filtern nach

- Anhaltmodule
- Antriebsmodule
- Drehtellermodule
- Indexing Modules
- Initiatoren
- Kettenspannmodule
- Längstreckenmodule
- Parallel Conveyors
- Querfahrmodule
- Überhol-Zentrier-Modul
- Umlenkmodule
- Verzweigungsmodule
- Werkstückträger
- Zentriermodule

Downloads

Es befinden sich keine Produkte im Warenkorb.

Anhaltmodul Fest

Download

Anhaltmodul Gedämpft

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Antriebsmodul 180°

Download

Antriebsmodul 90°

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Drehtellermodul

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Initiator in Kunststoff

Download

Initiator Links

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Initiator Links 90°

Download

Initiator Rechts

Download

Initiator Rechts 90°

Download

Kettenspannmodul 180° Drehend

Download

Kettenspannmodul 180° Rollend

Download

Conclusion

Getting together is a beginning,
Staying together is a progress,
Working together brings the success.

WE THANK YOU FOR YOUR ATTENTION!

YOUR RODOTEC TEAM