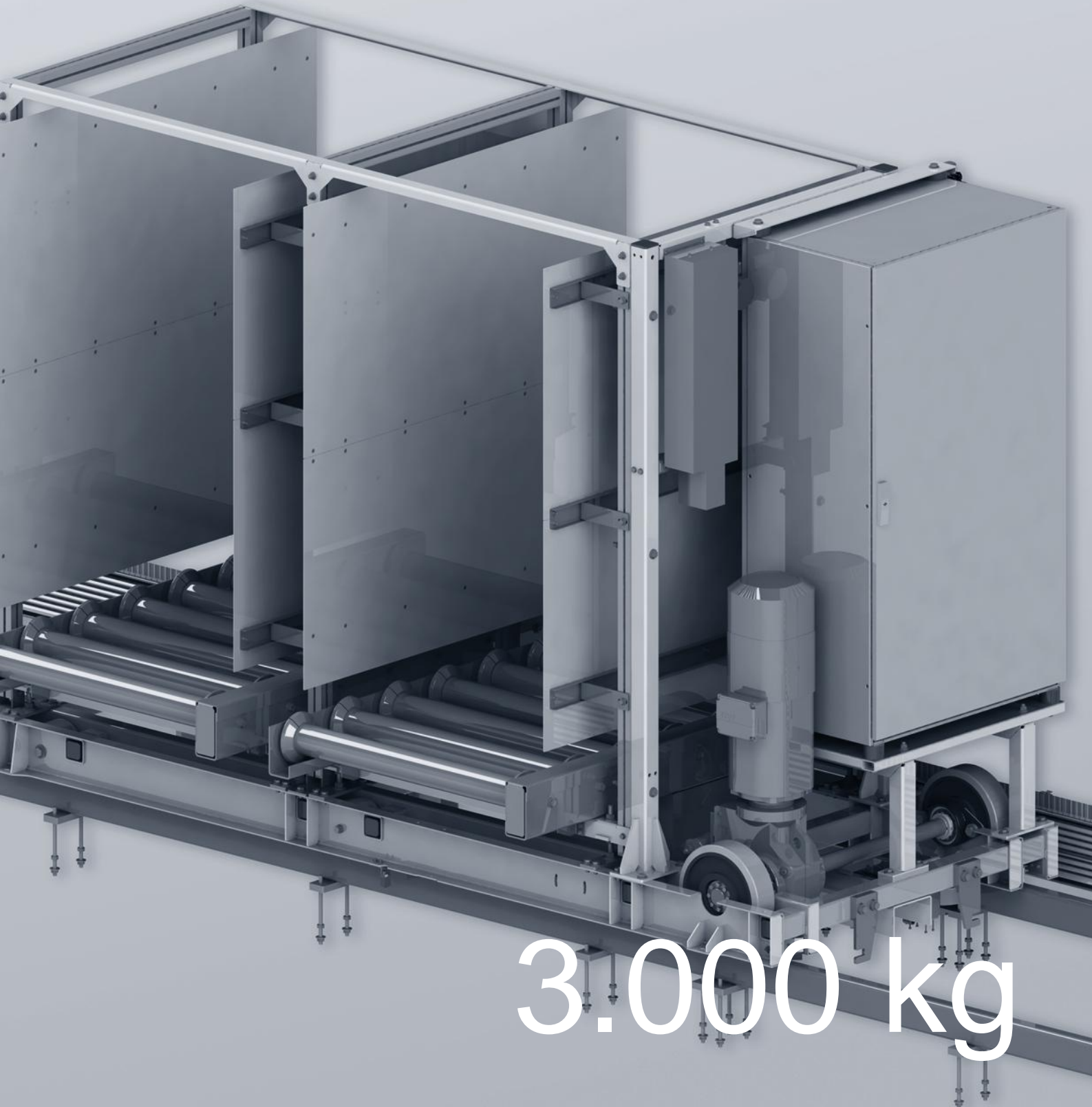




Storage-/ distribution systems up to 3.000 kg



3.000 kg



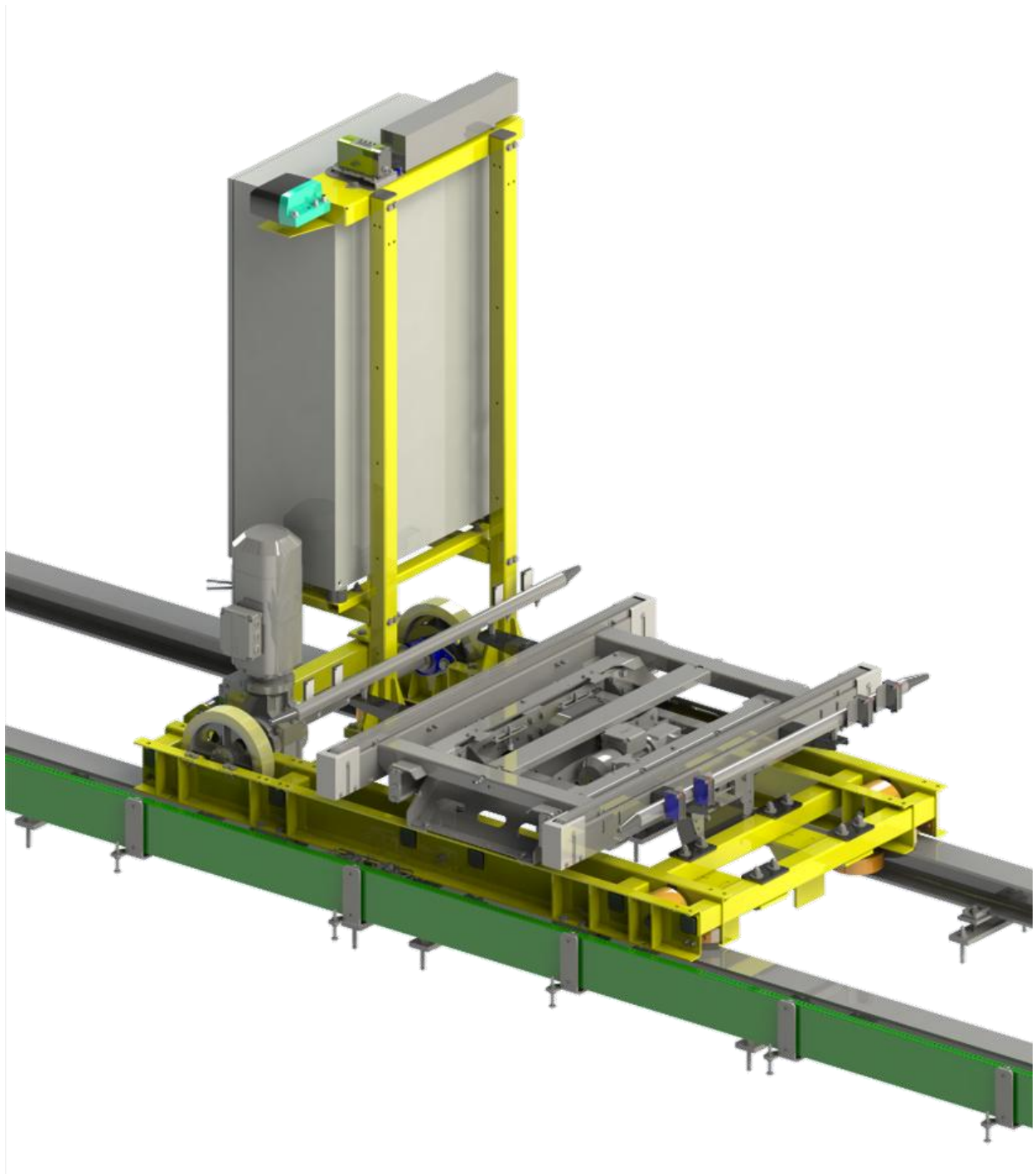
## Storage-/ distribution systems up to 3.000kg

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## Storage-/ distribution systems up to 3.000kg

### 1 Transfer car with frictional drive





## Storage-/ distribution systems up to 3.000kg

TECHNICAL DATA: Transfer car with frictional drive	
Type	Single/ Double T-Car
Quantity of T-cars per aisle	1/ 2
Transmission type	Frictional drive
Payload	Max. 3.000 kg
Conveying level	Min. 80 mm
Aisle length	Max. 150.000 mm
Speed	max. 5,0 m/ sec
Acceleration	Max. 0,9 m/sec <sup>2</sup>
Drive	Max. 25 KW Frequency converter power rating
Position control	Absolut encoder system + 1 x reference sensor
Control cabinet	On board/ stationary
Data transmissions	Infra-red data transmission photo cell/ Drag chain
Power supply	Double collectors and bus bar 7 contacts/ Drag chain
Electrical equipment	2 x Emergency switch for over run 2 x Magnetic switch for speed control
Rails	2 x I-beams/ height adjustment with threaded bar +/-25 mm
Shock absorbers	Cellulose / Hydraulic
Rail cleaning	4 x Brushes
Load retention	Option: statically with two fixed plates/ dynamical with two plates adapting to the maximum size of the pallet load
Load handling device	Roller conveyor (with tilting unit) Chain conveyor Modular belt conveyor Telescopic twin forks Satellite

## Storage-/ distribution systems up to 3.000kg

### 2 Transfer car with tooth belt drive





## Storage-/ distribution systems up to 3.000kg

TECHNICAL DATA: Transfer car with tooth belt drive	
Type	Single/ Double T-Car
Quantity of T-cars per aisle	1/ 2
Transmission type	Omega-Drive with tooth belt tensioned along the aisle
Payload	Max. 3.000 kg
Conveying level	Min. 80 mm
Aisle length	Max. 100.000 mm
Speed	max. 5,0 m/ sec
Acceleration	Max. 2,5 m/sec <sup>2</sup>
Drive	Max. 25 KW Frequency converter power rating
Position control	Absolut encoder system + 1 x reference sensor
Control cabinet	On board/ stationary
Data transmissions	Infra-red data transmission photo cell/ Drag chain
Power supply	Double collectors and bus bar 7 contacts/ Drag chain
Electrical equipment	2 x Emergency switch for over run 2 x Magnetic switch for speed control
Rails	2 x I-beams / height adjustment with threaded bar +/-25 mm
Shock absorbers	Cellulose / Hydraulic
Rail cleaning	4 x Brushes
Load retention	Option: statically with two fixed plates/ dynamical with two plates adapting to the maximum size of the pallet load
Load handling device	Roller conveyor (with tilting unit) Chain conveyor Modular belt conveyor Telescopic twin forks Satellite



## Storage-/ distribution systems up to 3.000kg

### 3 Transfer car with hoist





## Storage-/ distribution systems up to 3.000kg

TECHNICAL DATA: Drive unit	
Type	Single/ Double T-Car
Quantity of T-cars per aisle	1/ 2
Transmission type	Frictional/ Omega-Drive with tooth belt tensioned along the aisle
Payload	Max. 3.000 kg
Conveying level	Min. 400 mm
Aisle length	Max. 150.000 mm
Speed	max. 5,0 m/ sec
Acceleration	Max. 2,0 m/sec <sup>2</sup>
Drive	Max. 40 KW Frequency converter power rating
Position control	Absolut encoder system + 1 x reference sensor
Control cabinet	On board/ stationary
Data transmissions	Infra-red data transmission photo cell/ Drag chain
Power supply	Double collectors and bus bar 7 contacts/ Drag chain
Electrical equipment	2 x Emergency switch for over run 2 x Magnetic switch for speed control
Rails	2 x I-beams/ height adjustment with threaded bar +/-25 mm
Shock absorbers	Cellulose / Hydraulic
Rail cleaning	4 x Brushes

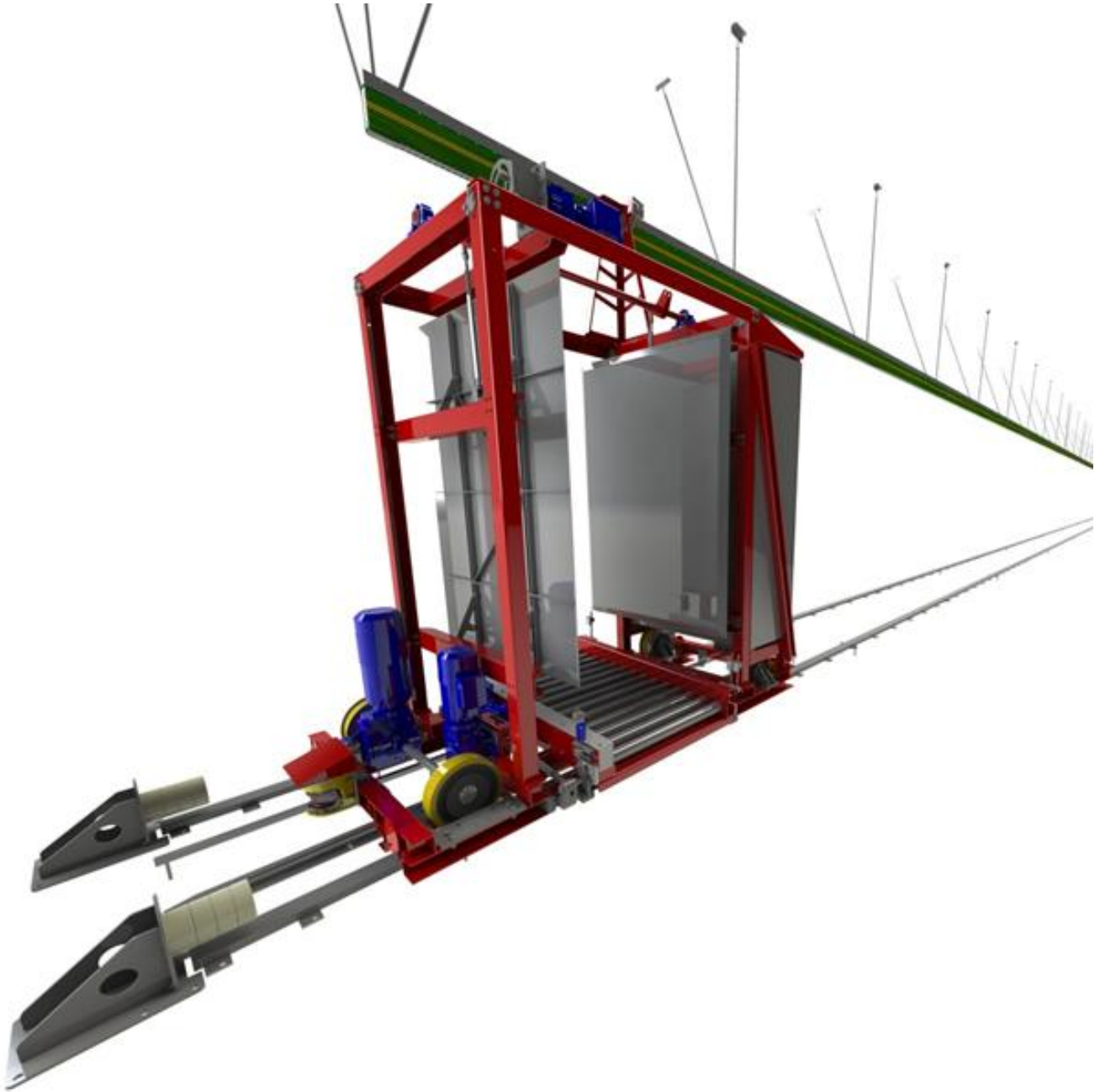
TECHNICAL DATA: Hoist unit	
Hoist unit	2 x Chains/ Tooth belts
Payload	Max. 3.000 kg
Drive position	Bottom
First level	Min. 400 mm
Stroke	Max. 8.000 mm
Speed	Max. 1,2 m/sec
Acceleration	Max. 1,2 m/sec <sup>2</sup>
Drive	Max. 40 KW Frequency converter power rating
Position control	Absolut encoder system + 1 x reference sensor
Drag chain	Yes
Emergency switch	2 x Over run 2 x Hoist medium breakage detection
Load retention	Option: statically with two fixed plates/ dynamical with two plates adapting to the maximum size of the pallet load
Load handling device	Roller conveyor (with tilting unit) Chain conveyor/ Modular belt conveyor Telescopic twin forks Satellite





## Storage-/ distribution systems up to 3.000kg

### 4 Transfer car 80 mm conveying level





## Storage-/ distribution systems up to 3.000kg

TECHNICAL DATA: Fahrwerk	
Type	Single/ Double T-Car
Quantity of T-cars per aisle	1/ 2
Transmission type	Frictional drive
Payload	Max. 3.000 kg
Conveying level	80 mm
Aisle length	Max. 75.000 mm
Speed	max. 3,0 m/ sec
Acceleration	Max. 0,9 m/sec <sup>2</sup>
Drive	Max. 15 KW Frequency converter power rating
Position control	Absolut encoder system + 1 x reference sensor
Control cabinet	On board/ stationary
Data transmissions	Infra-red data transmission photo cell/ Drag chain
Power supply	Double collectors and bus bar 7 contacts/ Drag chain
Electrical equipment	2 x Emergency switch for over run 2 x Magnetic switch for speed control
Rails	Flushed into the slab
Shock absorbers	Cellulose / Hydraulic
Rail cleaning	Mit 4 Stk. Bürsten
Load retention	Option: statically with two fixed plates/ dynamical with two plates adapting to the maximum size of the pallet load
Load handling device	Roller conveyor

## Storage-/ distribution systems up to 3.000kg

### 5 Load handling device

#### 5.1 Roller conveyor

TECHNICAL DATA	
Se product overview	Conveyor systems

#### 5.2 Chain conveyor

TECHNICAL DATA	
Se product overview	Conveyor systems

#### 5.3 Modular belt conveyor

TECHNICAL DATA	
Se product overview	Conveyor systems

#### 5.4 Tilting unit for Roller conveyor



TECHNICAL DATA: Tilting unit for roller conveyor	
Transmission	Eccentric crank
Payload	Max. 3.000 kg
Conveying level	Min.230 mm for T-Car roller conveyor
Tilting angel	Max. +/- 4°
Tilting time	~ 1,50 sec
Drive	Max. 3,00 KW with brake
Position control	3 x Inductive sensors

## Storage-/ distribution systems up to 3.000kg

### 5.5 Dynamic load retention



TECHNICAL DATA: Dynamic load retention	
Function	Two plates keep the load stable
Stroke	~ 50mm for each side
Opening/ closing time	~ 1,5 sec
Drive	0,37 KW with brake
Position control	2 x Inductive sensors

## Storage-/ distribution systems up to 3.000kg

### 5.6 Telescopic twin forks



TECHNICAL DATA: Telescopic twin forks	
Transmission	Chain/ gear rack
Payload	Max. 1.500 kg
Fork width	180 mm
Fork height	60 mm
Fork pitch	375 mm (for Euro Pallet)
Stroke	1450 mm
Speed	Max. 1,2 m/s with load Max. 1,5m/s empty
Acceleration	Max. 1,0 m/s <sup>2</sup> with load Max. 2,5 m/s <sup>2</sup> empty
Drive	Max. 2,2 KW Frequency power rating
Position control	Absolute encoder
Position check	2 x Inductive sensors

TECHNICAL DATA: Hoist unit	
Transmission type	Eccentric crank, single rotation direction
Payload	Max. 1.500 kg
Conveying level	Min. 550 mm
Stroke	Max. 200 mm
Hoist time	~ 3,0sec
Drive	Max. 1,50 KW with brake
Position control	2 x inductive sensors

## Storage-/ distribution systems up to 3.000kg

### 5.7 Satellit

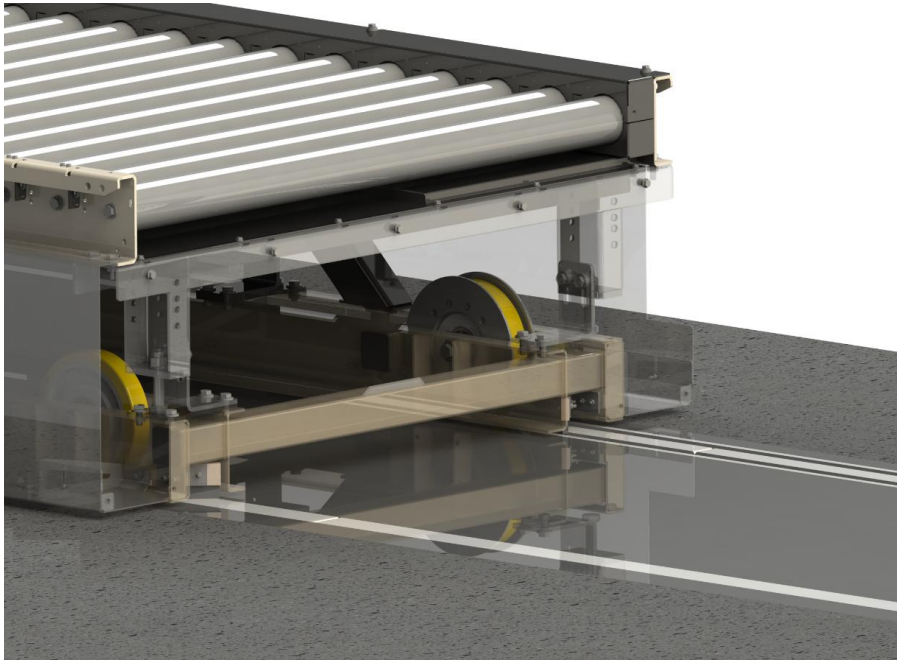


TECHNICAL DATA: Satellite	
Fördergut Ausrichtung	Long /Short side leading
Pay load	Max. 1.500 kg
Speed	max. 1,0 m/sec (loaded) max. 1,5 m/sec (empty)
Acceleration	max. 0,5 m/sec <sup>2</sup> (loaded) max. 0,8 m/sec <sup>2</sup> (empty)
Travel drive	Max. 0,75 KW controlled
Hoist drive	Max. 0,75 KW with brake
Cable reel drive	Max. 0,55 KW for ext. frequency converter
Travel distance	Max. 16.000 mm
Elektrische Ausrüstung	2 x Inductive sensor for hoist position 2 x Photo eye (channel occupied) 8 x Photo cells for accurate positioning 2 x Photo cells satellite in position 2 x Photo cells gap control 1 x Photo cells satellite loaded 1 x Photo eye end of cable
Position control	Absolute encoder
Power supply	With cable reel
Antrieb Kabelrolle	Max. 0,55 KW for ext. frequency converter
Load handling device	Chain conveyor

## Storage-/ distribution systems up to 3.000kg

### 6 Miscellaneous

#### 6.1 Rails flushed into the slab



#### 6.2 Suspended bus bar from the ceiling

