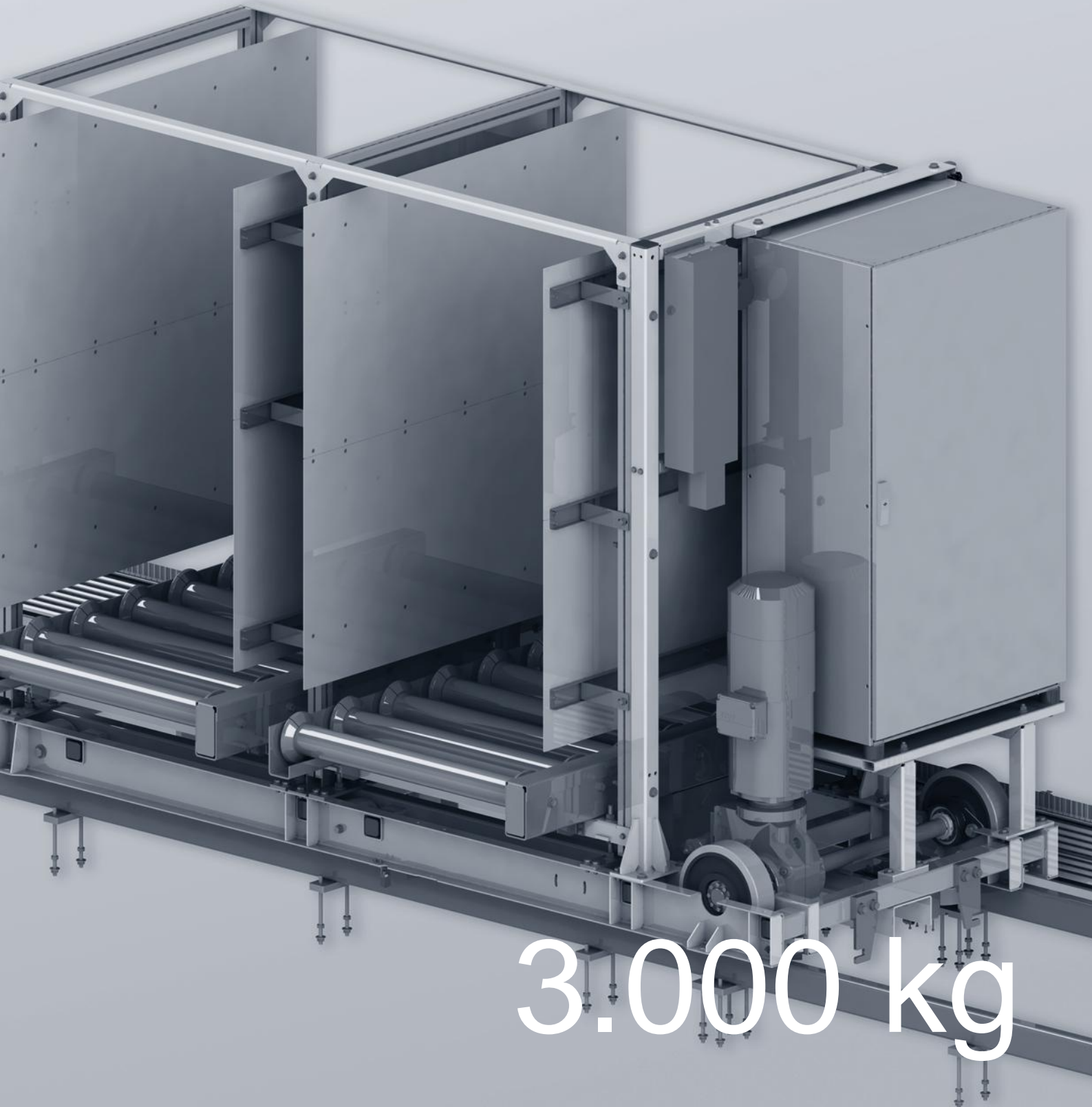




Storage-/ distribution systems up to 3.000 kg



3.000 kg



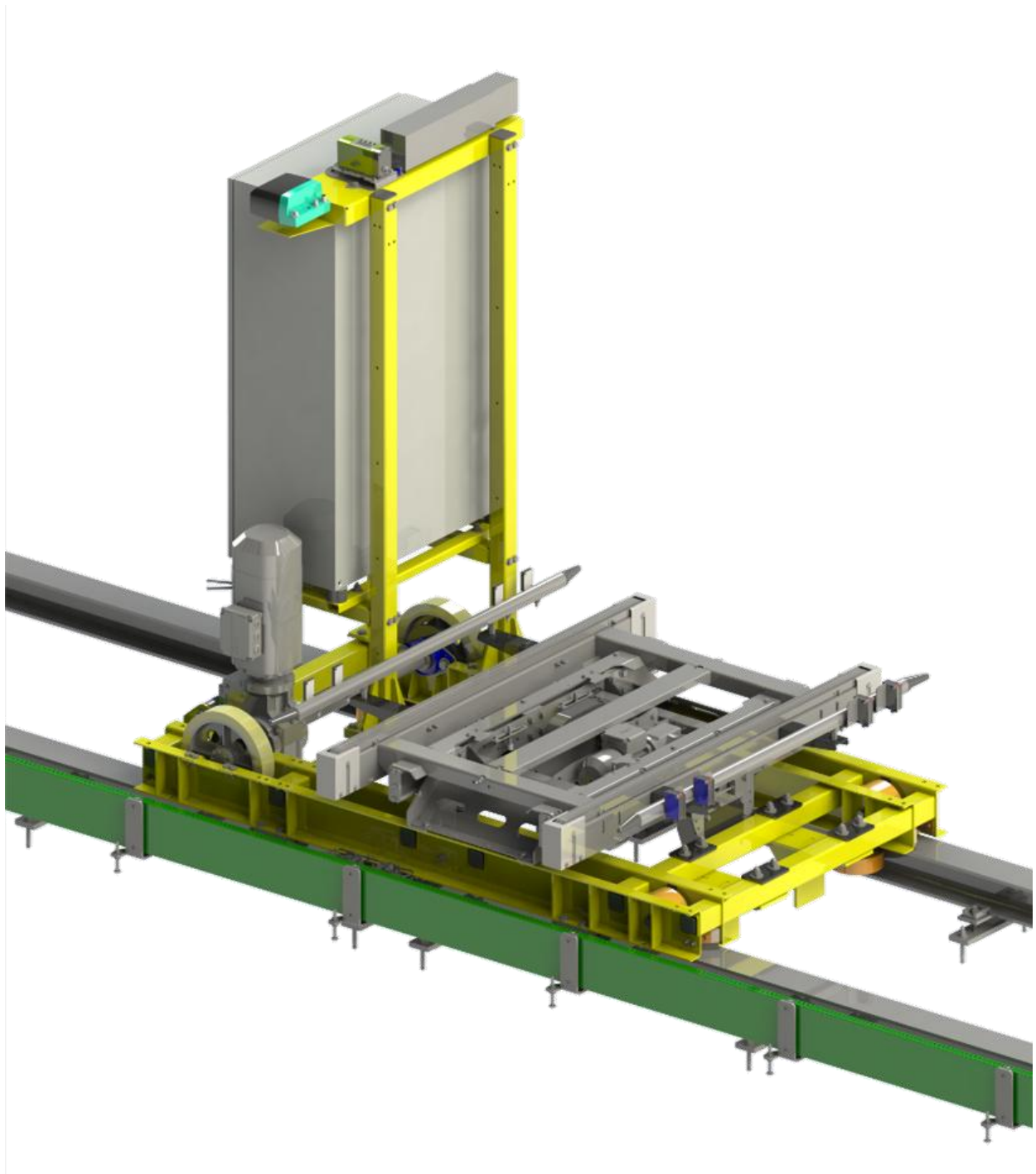
Storage-/ distribution systems up to 3.000kg

Index

1	TRANSFER CAR WITH FRICTIONAL DRIVE	3
2	TRANSFER CAR WITH TOOTH BELT DRIVE	5
3	TRANSFER CAR WITH HOIST	7
4	TRANSFER CAR 80 MM CONVEYING LEVEL	9
5	LOAD HANDLING DEVICE	11
5.1	ROLLER CONVEYOR	11
5.2	CHAIN CONVEYOR	11
5.3	MODULAR BELT CONVEYOR	11
5.4	TILTING UNIT FOR ROLLER CONVEYOR	11
5.5	DYNAMIC LOAD RETENTION	12
5.6	TELESCOPIC TWIN FORKS	13
5.7	SATELLIT	14
6	MISCELLANEOUS	15
6.1	RAILS FLUSHED INTO THE SLAB	15
6.2	SUSPENDED BUS BAR FROM THE CEILING	15

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 ²
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 ²
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





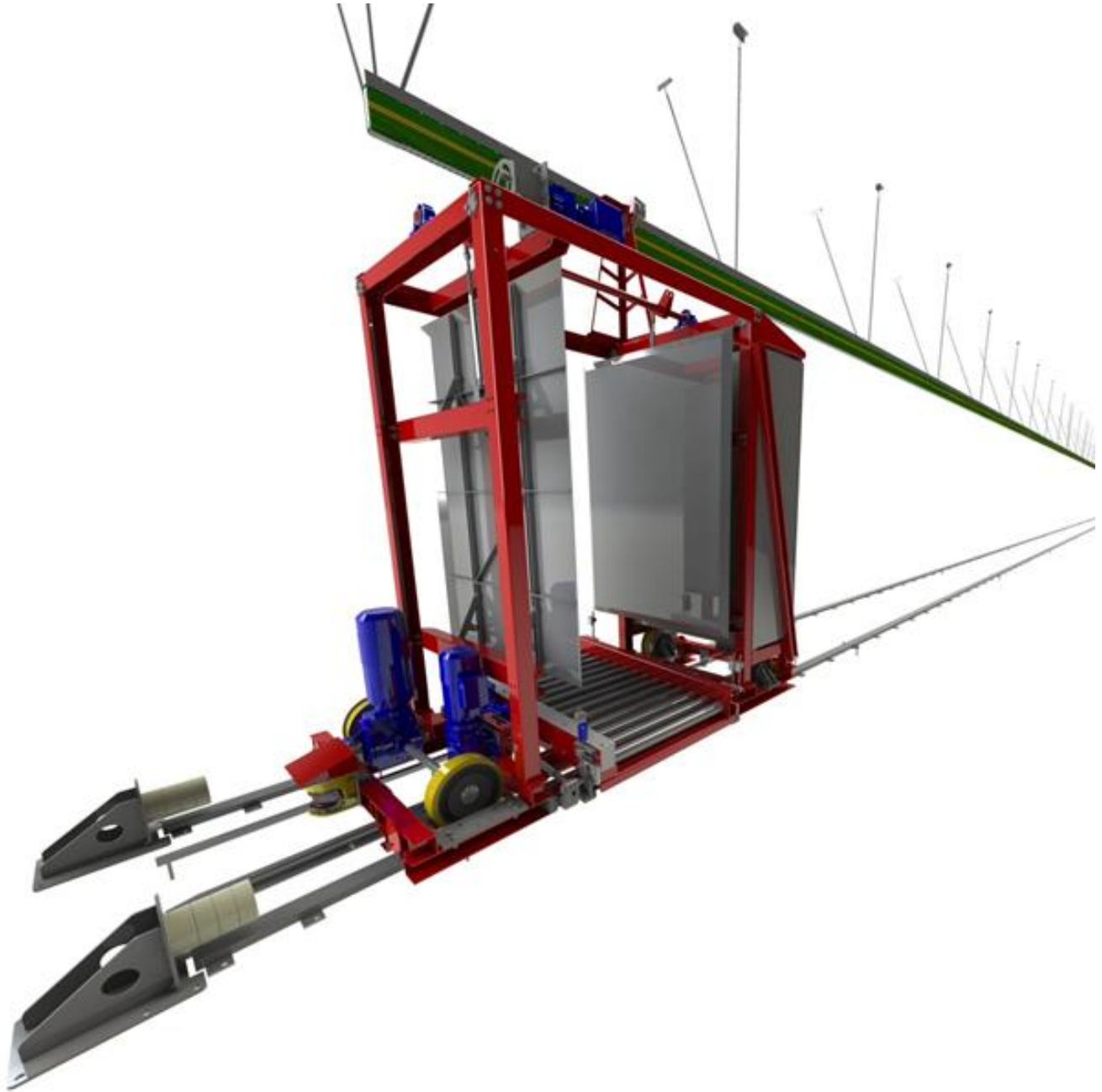
Storage-/ distribution systems up to 3.000kg

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 ²
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 ²
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 ²
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 ² with load Max. 2,5 m/s ² 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

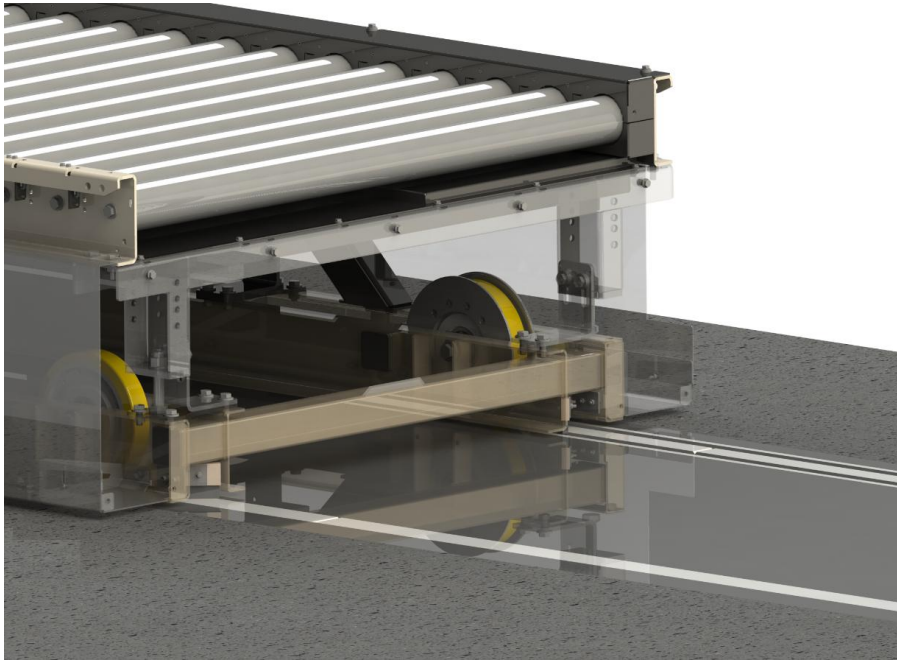


TECHNICAL DATA: Satellite	
Fördergut Ausrichtung	Long /Short side leading
Pay load	Max. 1.500 kg
Speed	max. 1,0 m/sec (loaded) max. 1,5 m/sec (empty)
Acceleration	max. 0,5 m/sec ² (loaded) max. 0,8 m/sec ² (empty)
Travel drive	Max. 0,75 KW controlled
Hoist drive	Max. 0,75 KW with brake
Cable reel drive	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

