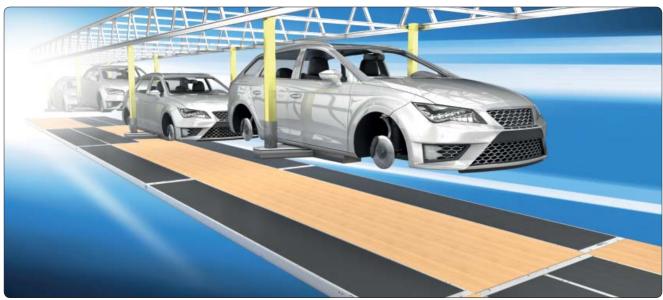


The People Mover System







in combination with suspension track system

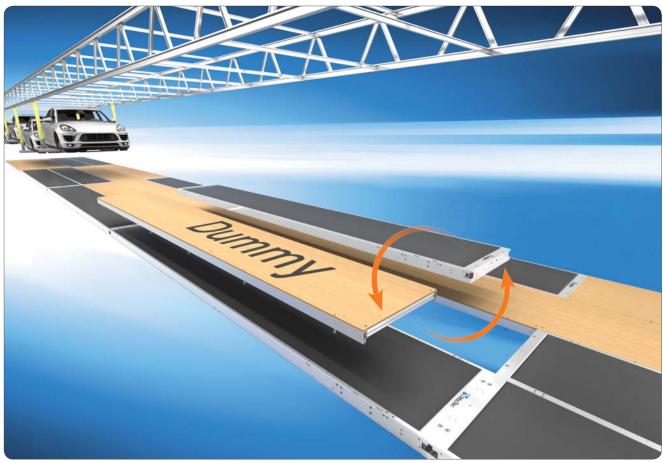


in combination with skid tracks



in combination with floor conveyors





installation of conveyors within the platform according to requirements replaceable with interchangeable platforms required time for replacement: approximately 15 minutes

People Movers

- aluminium base frame
- min. 120 mm total height
- belt options available
- internal drive
- belt speed: 0 10 m/min

optional

- fire safety specification: B1 compliant version
- electrostatic discharge: ESD compliant version

Interchangeable platform / Stage

- power supply (electricity, light, water)
- lights
- oil drip trays
- servicing and access points
- variable working heights

optional

- fire safety specification: B1 compliant version
- electrostatic discharge: ESD compliant version

Project Integration Management

- project implementation
- delivery
- · assembly and installation management

Symbols



Continuous operation

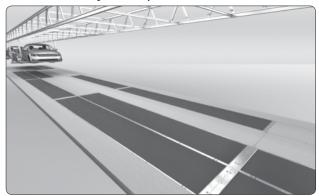




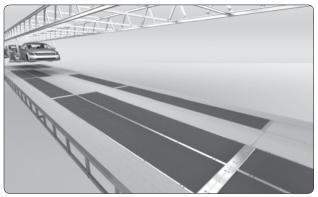
Tandem drive



Variable conveyor setup

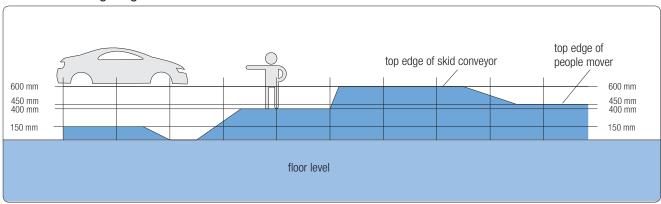


conveyor setup with platform

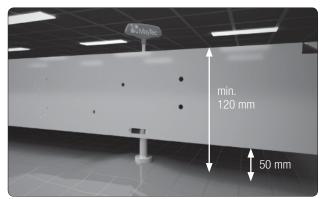


conveyor setup with height adjustable platform

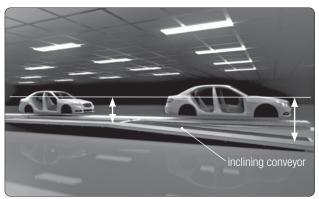
Variable working height



typical skid conveyor configuration



height adjustment for conveyor and platform



incline and decline (up to 7°) per platform

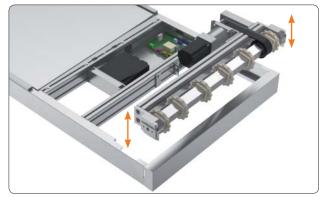


Roller cover



drive unit with spring loaded PVC clearing strips prevents collection of small parts

Drive unit



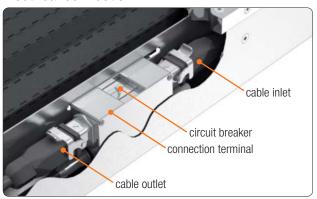
maintenance free drive and idler unit, replaceable from above

Dirt collection tray

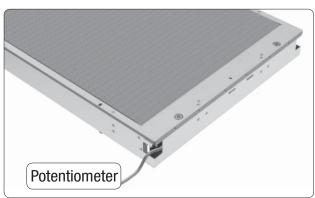


easy cleaning from above

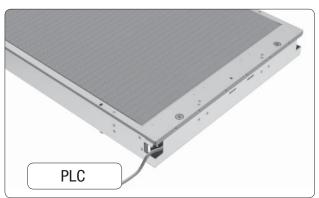
Electrical connection



connection terminal with C4A circuit breaker in each conveyor various connections for subsequent and parallel units



speed adjustment by potentiometer

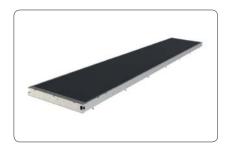


external speed adjustment



The People Mover System

Conveyor

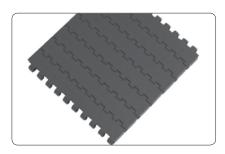


People mover

5-7

- Type 5721 • Type 5722
- Type 5723

Plastic link chain



Belt type

⊳ 10-23

- Habasit M2420 Flat Top 1"
- Habasit M2423 Non Slip 1"
- Forbo Siegling S8-0 FLT
- Uni-chains QNB-C
- Uni-chains QNB-Rough
- System Plast 2250 FT

Interchangeable platform / Stage



Interchangeable platform / 📂 24-29 Stage

- Interchangeable platform
- Stage

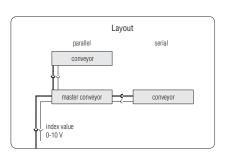
Drive



30

- AC servo motor with servo drive 1 Type Minas A4
- Planetary gear box 2 Type PLE 80/90

Control



Control methods

⋈ 32-34

- servo drive inside the conveyor
 - speed adjustment via potentiometer
 - speed adjustment according to external index value
- servo drive with external control panel
 - speed adjustment according to external index value

People mover with plastic link chain

People mover Type 5.721

height: 120 mm

- motor capacity 750 Watt
- internal drive
- stainless steel sliding surface
- 320 kg continuous load





patent No. 102007017628

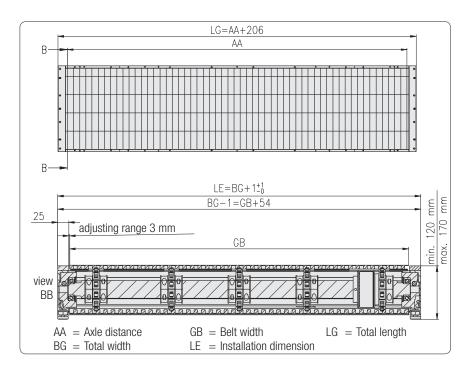


Implementation

An integrated design (motor, control, drive shaft and bearings) housed within the conveyor frame creates a uniform exterior surface.

High stability and drive capacity combined with low overall height and weight allow for a variety of applications. Stainless steel surfaces cater to abrasive dust environments.

Technical data			
transported weight:	320 kg continuous load (4 people) 480 kg temporary maximum load (6 people)		
belt width:	app. 600 - 1,540 mm	D.S	18-19
total width:	app. 650 - 1,600 mm	KJ.	18-19
total length:	1,500 - 10,000 mm		
base frame: sliding surface:	aluminium extrusion, unanodized stainless steel sheet		
belt material:	as required	KJ.	10-23
motor: nominal power: torque: nominal RPM:	AC servo motor with servo drive PN 750 W nominal 2.4 Nm, peak 7.1 Nm 1,100 min-1		
transmission:	planetary gear box PLE 80/90	5	30
ratio:	i40 / i100	5	30
torque:	110 - 120 Nm	I	30
speed: drive orientation:	0-7 m/min (± 1.5%), accelaration time 2-3 sec. pulling in direction of travel		
control:	servo drive inside the conveyor or external speed adjustment via potentiometer or according to external index value		32-34 32-34



People mover with plastic link chain

People mover Type 5.722

height: 120 mm

- motor capacity 750 Watt
- internal drive
- PVC sliding surface
- 600 kg continuous load





patent No. 102007017628

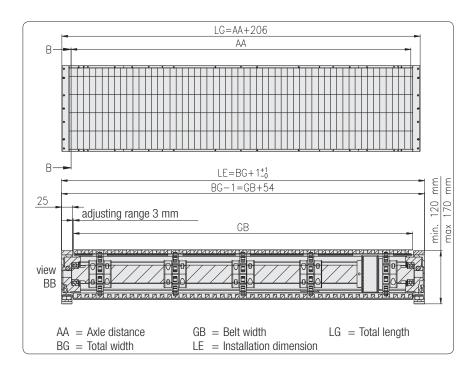


Implementation

An integrated design (motor, control, drive shaft and bearings) housed within the conveyor frame creates a uniform exterior surface.

High stability and drive capacity combined with low overall height and weight allow for a variety of applications. The PVC sliding surface reduces the friction, which allows to transport high loads at a reduced drive power.

Technical data			
transported weight:	600 kg continuous load 800 kg temporary maximum load		
belt width:	app. 600 - 1,540 mm	S	18-19
total width:	app. 650 - 1,600 mm	际	18-19
total length:	1,500 - 10,000 mm		
base frame: sliding surface:	aluminium extrusion, unanodized PVC panel		
belt material:	as required	N	10-23
motor: nominal power: torque: nominal RPM:	AC servo motor with servo drive PN 750 W nominal 2.4 Nm, peak 7.1 Nm 1.100 min-1		
transmission:	planetary gear box PLE 80/90	E5	30
ratio:	i40 / i100	5	30
torque:	110 - 120 Nm	5	30
speed: drive orientation:	0-7 m/min (\pm 1.5%), accelaration time 2-3 sec. pulling in direction of travel		
control:	servo drive inside the conveyor or external speed adjustment via potentiometer or according to external index value		32-34 32-34





People mover Type 5.723

height: 150 mm

- motor capacity 2 × 750 Watt
- internal drive
- · tandem drive
- PVC sliding surface
- 1.200 kg continuous load







patent No. 102007017628

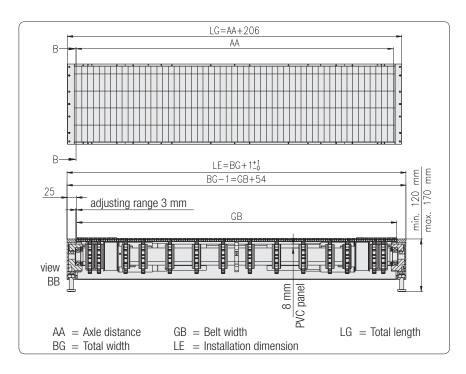


Implementation

An integrated design (motor, control, drive shaft and bearings) housed within the conveyor frame creates a uniform exterior surface.

High stability and drive capacity combined with low overall height and weight allow for a variety of applications. The PVC sliding surface reduces the friction, which allows to transport high loads at a reduced drive power.

Technical data			
transported weight:	1,200 kg continuous load (15 people) 1,500 kg temporary maximum load		
belt width:	app. 600 - 1,540 mm	D.S	18-19
total width:	app. 650 - 1,600 mm	W	18-19
total length:	1,500 - 10,000 mm		
base frame: sliding surface:	aluminium extrusion, unanodized PVC panel		
belt material:	as required	M	10-23
motor: nominal power: torque: nominal RPM:	2 × AC servo motor with servo drive 2 × PN 750 W = 1,500 W nominal 4.8 Nm, peak 14 Nm 1.100 min-1		
transmission:	2×planetary gear box PLE 80/90	5	30
ratio:	i40 / i100	5	30
torque:	245 - 320 Nm	K	30
speed: drive orientation:	0-7 m/min (\pm 1.5%), accelaration time 2-3 sec. pulling in direction of travel		
control:	servo drive inside the conveyor or external speed adjustment via potentiometer or according to external index value		32-34 32-34





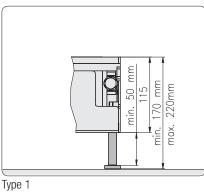
Base frame



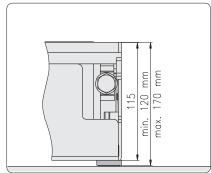
Assembly

MayTec custom extrusions provide high longitudinal and lateral stability

Height adjustibility





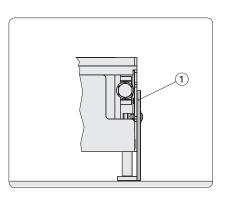


Application

Accessible from top with socket wrench

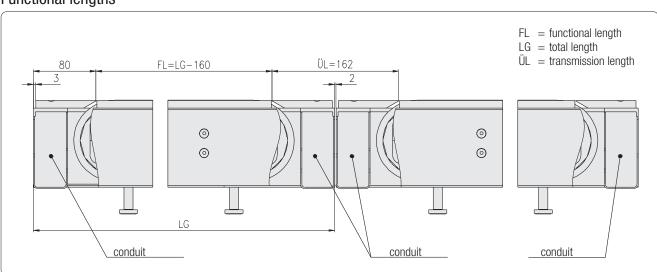
The system allows a fast and easy adjustment to the floor conditions.

Side cover



1 adjustable cover strip side cover can be adjusted to compensate for uneveness of flooring

Functional lengths

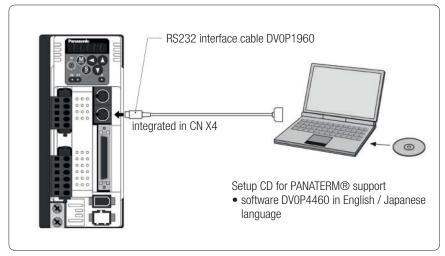




Optional: Diagnostics for servo drives

Servo drive Type Minas A4

- RS232 interface cable
- PANATERM© software



Comments

The RS232 inferface cable is integrated with the cable harness located at the conduit end of the drive. PANATERM® software is supplied on a data storage device.

Error codes

Description

- 11 control undervoltage
- 12 overvoltage error
- 13 mains undervoltage
- 14 * over current protection
- 15 * temperatur exeedence
- 16 capacity overload
- 18 * overload on ballast resistor
- 21 * encoder communication error
- 23 * encoder data error
- 24 position discrepancy
- 25 * position discrepancy of external encoder
- 26 RPM exceedence
- 27 electronic gear box
- 28 * data error from external locator
- 29 overflow of pulse error counter
- 34 software limitation
- 35 * data transfer error from external scale of length
- 36 * EEPROM parameter error
- 37 * EEPROM test code error
- 38 limit switch inputs
- 39 discrepancy to index value
- 40 absolute value system failure

Description

- 41 * absolute value overflow error
- 42 absolute revolution speed exeeded
- 44 * absolute revolution counter
- 45 * multiple revolution counter
- 47 * absolute status error
- 48 * encoder z-phase error
- 49 * encoder CS signal error
- 50 * external scale of length status error 0
- 51 * external scale of length status error 1
- 52 * external scale of length status error 2
- 53 * external scale of length status error 3
- 54 * external scale of length status error 4
- 55 * external scale of length status error 5
- 65 torque limit for anti-clockwise rotation
- 66 torque limit for anti-clockwise rotation
- 95 * automatic motor identification

other

No. other error

Comments

Error shutdowns marked with *, cannot be deleted by A-CLR. Switch off electricity, eliminate cause of failure, then switch electricity back on.

The following error codes are not listed in the error log:

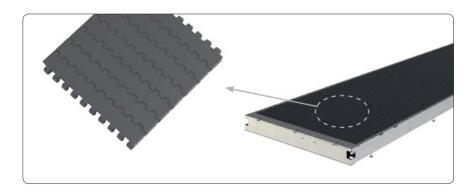
Description

- 11 control and undervoltage
- 13 mains undervoltage
- 36 EEPROM parameter error
- 37 EEPROM test code error
- 38 limit switch inputs
- 95 automatic motor identification



Plastic link chain basics

Plastic link chain



Advantages

- 1. Non-slip traction created by pinion drive
- 2. Chain tensioning set at minimal levels
- 3. Trouble free and low maintenance plastic link chain belt ensures tracking
- 4. Plastic chain links can be used through a wide temperature range
- 5. No special tools required for assembly of endless plastic chain link belts
- 6. Damaged plastic links are quickly and easily replaced
- 7. Minimal spare parts inventory. Plastic links generally replaced in short pieces
- 8. High lateral stability
- 9. Easy cleaning
- 10. Good sliding value with low friction
- 11. Scuff and scratch resistant materials
- 12. Fire safety specification: B1 compliant version
- 13. ESD: Electrostatic discharge compliant version

s 20

s 22 - 23



Plastic link chain: Overview of producers

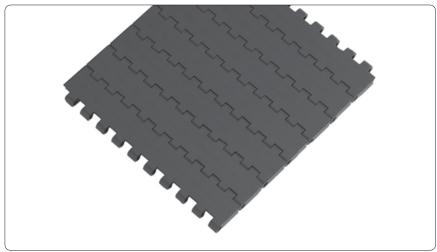
Producer			Anti-slip specification class	
		< R9	R9	R10
Habasit	Belt surface Type		smooth M2420 Flat Top 1"	plate with lug pattern M2423 Non Slip 1" 53 13
Forbo Siegling	Belt surface Type	smooth S8-0 FLT		
		are and the second seco		
uni-chains	Belt surface Type		smooth QNB-C 55 15	rough surface QNB-Rough 57 16
			THE REAL PROPERTY OF THE PARTY	
Forbo Siegling	Belt surface Type	smooth 2250 FT		



Habasit

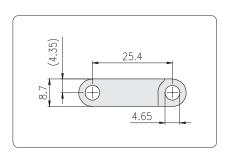
Type M2420 Flat Top 1"

• smooth plastic link chain surface



closed, smooth plastic link chain surface

Chain module



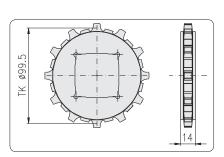
Technical data

chain pitch: chain thickness: plastic link chain surface: anti-slip property: standard widths:

1" (25.4 mm) 8.7 mm

closed, smooth R9 according DIN 51130 18 - 19

Sprocket



Technical data

material:

number of teeth: 12 Z pitch circle Ø: 99.5 mm hub width: suitable for plastic

14 mm link chain: Type M2420 Flat Top 1" chain pitch:

1" (25.4 mm) PA (Polyacetal) natural

Habasit product range Type M2420 Flat Top 1"

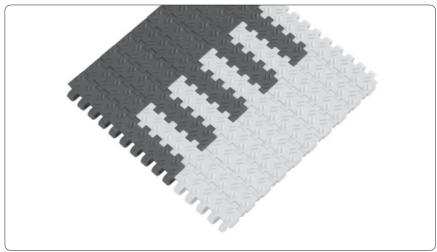
Fire s	afety specific	cation	Electrical conductivity	Material		Colour	
	B _{fl} - s1	C _{fl} - s1			black	grey	dark grey
	Х		0% ESD	PP POM	X X	Х	Х
B1	Х		min. 25% ESD	PP POM	X X	Х	Х
БІ	Х		min. 33% ESD	PP POM	X X	Х	Х
	Х		100% ESD	PP POM	X X	Х	Х
			0% ESD	PP POM	X X	X X	X X
B2			min. 25% ESD	PP POM	X X	X X	X X
DZ			min. 33% ESD	PP POM	X X	X X	X X
			100% ESD	PP POM	X X	X X	X X



Habasit

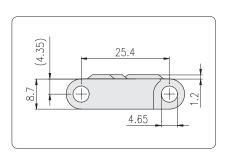
Type M2423 Non Slip 1"

 plastic link chain surface with lug pattern



plastic link chain surface closed with lug pattern

Chain module



Technical data

chain pitch: chain thickness: plastic link chain surface:

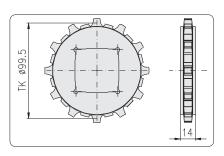
surface: closed, with lug pattern anti-slip property: R10 according DIN 51130

1" (25.4 mm)

8.7 + 1.2 mm

standard widths: \approx 18 - 19

Sprocket



Technical data

number of teeth: 12 Z pitch circle Ø: 99.5 mm hub width: 14 mm suitable for plastic

link chain: chain pitch: material: Type M2423 Non Slip 1" 1" (25.4 mm) PA (Polyacetal) natural

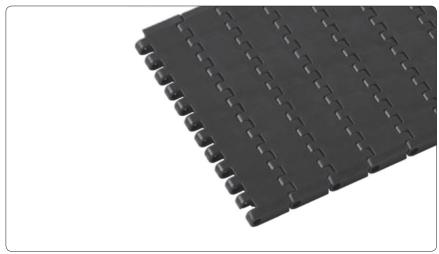
Habasit product range Type M2423 Non Slip 1"

Fire s	afety specific		Electrical conductivity	Material		Colour	
	B _{fl} - s1	C _{fl} - s1			black	grey	dark grey
	X		0% ESD	PP POM	X X		
B1	Х		min. 25% ESD	PP POM	X X		
БІ	Х		min. 33% ESD	PP POM	X X		
	X		100% ESD	PP POM	X X		
			0% ESD	PP POM	X X		
B2			min. 25% ESD	PP POM	X X		
DZ			min. 33% ESD	PP POM	X X		
			100% ESD	PP POM	X X		



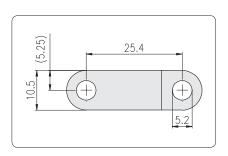
Forbo Siegling Type S8-0 FLT

• smooth plastic link chain surface



closed, smooth plastic link chain surface

Chain module



Technical data

chain pitch: chain thickness: plastic link chain surface: anti-slip property:

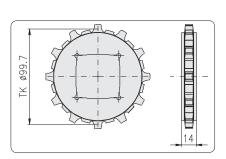
closed, smooth

1" (25.4 mm)

10.5 mm

standard widths: \approx 18 - 19

Sprocket



Technical data

number of teeth: 12 Z pitch circle Ø: 99.7 mm hub width: 14 mm suitable for plastic

link chain: chain pitch: material:

Type S8-0 FLT 1" (25.4 mm) PA (Polyacetal) natural

Forbo Siegling product range Type S8-0 FLT

Fire s	afety specific	cation	Electrical	Material		Colour	
old	ne ne	eW.	conductivity				
	B _{fl} - s1	C _{fl} - s1			black	grey	dark grey
		Х	0% ESD	PP POM	Х		
B1		Х	min. 25% ESD	PP POM	X		
БІ		Х	min. 33% ESD	PP POM	Х		
		Х	100% ESD	PP POM	Х		
			0% ESD	PP POM	Х		
B2			min. 25% ESD	PP POM	Х		
DZ			min. 33% ESD	PP POM	Х		
			100% ESD	PP POM	Х		



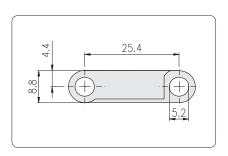
uni-chains Type QNB-C

• smooth plastic link chain surface



closed, smooth plastic link chain surface

Chain module



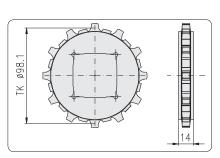
Technical data

chain pitch: chain thickness: plastic link chain surface: anti-slip property: standard widths:

closed, smooth R9 according DIN 51130 18 - 19

1" (25.4 mm) 8.8 mm

Sprocket



Technical data

number of teeth: 12 Z pitch circle Ø: 98.1 mm hub width: 14 mm suitable for plastic

link chain: Type QNB-C chain pitch: 1" (25.4 mm) material: PA (Polyacetal) natural

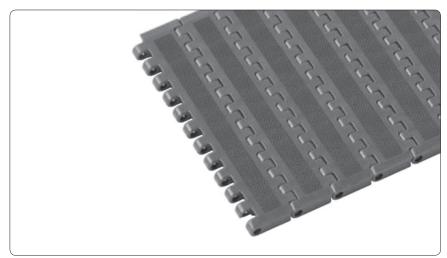
uni-chains product range Type QNB-C

Fire s	afety specific	cation	Electrical	Material		Colour	
old	ne ne	eW.	conductivity				
	B _{fl} - s1	C _{fl} - s1			black	grey	dark grey
			0% ESD	PP POM	Х		
B1			min. 25% ESD	PP POM	Х		
БІ			min. 33% ESD	PP POM	Х		
			100% ESD	PP POM	Х		
			0% ESD	PP POM	Х		
B2			min. 25% ESD	PP POM	Х		
DZ			min. 33% ESD	PP POM	Х		
			100% ESD	PP POM	Х		



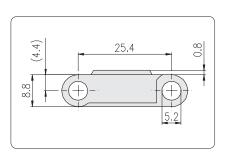
uni-chains Type QNB-Rough

 plastic link chain surface with rough surface



plastic link chain closed with rough surface

Chain module



Technical data

chain pitch: 1" (25.4 mm)
chain thickness: 9.6 mm
plastic link chain

surface:

ce: closed, with rough surface

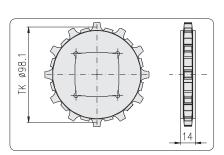
surface R10 according DIN

anti-slip property:

51130

standard widths: = 18 - 19

Sprocket



Technical data

number of teeth: 12 Z pitch circle Ø: 98.1 mm hub width: 14 mm

suitable for plastic link chain: chain pitch:

material:

Type QNB-ough 1" (25.4 mm) PA (Polyacetal) natural

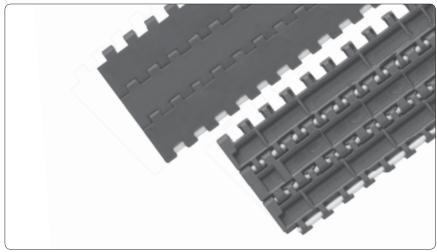
uni-chains product range Type QNB-Rough

Fire sa	afety specific		Electrical conductivity	Material		Colour		
	B _{fl} - s1 C _{fl} - s1				black	grey	dark grey	
			0% ESD	PP POM	Х			
B1			min. 25% ESD	PP POM	X			
DI			min. 33% ESD	PP POM	Х			
			100% ESD	PP POM	Х			
			0% ESD	PP POM	Х			
B2			min. 25% ESD	PP POM	Х			
DZ			min. 33% ESD	PP POM	Х			
			100% ESD	PP POM	Х			



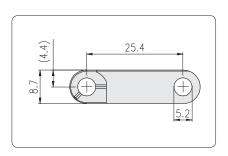
System Plast Type 2250 FT

• smooth plastic link chain surface



closed, smooth plastic link chain surface

Chain module



Technical data

chain pitch: chain thickness: plastic link chain surface: anti-slip property: standard widths:

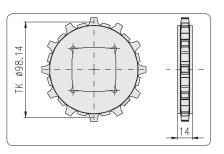
1" (25.4 mm)

closed, smooth

s 18 - 19

8.7 mm

Sprocket



Technical data

number of teeth: pitch circle Ø: hub width: suitable for plastic link chain:

12 Z 98.14 mm 14 mm

Type 2253 FT chain pitch: 1" (25.4 mm) material:

PA (Polyacetal) natural

System Plast product range Type 2250 FT

	afety specific	cation	Electrical	Material		Colour	
old	ne		conductivity			ı	1
	B _{fl} - s1	C _{fl} - s1			black	grey	dark grey
	X		0% ESD	PP POM	Х		
B1	Х		min. 25% ESD	PP POM	Х		
БІ	Х		min. 33% ESD	PP POM	Х		
	Х		100% ESD	PP POM	Х		
			0% ESD	PP POM	Х		
B2			min. 25% ESD	PP POM	Х		
DZ			min. 33% ESD	PP POM	Х		
			100% ESD	PP POM	Х		

Plastic link chain belt

Conveyor width for plastic link chain type

ES	SD
w/o	with

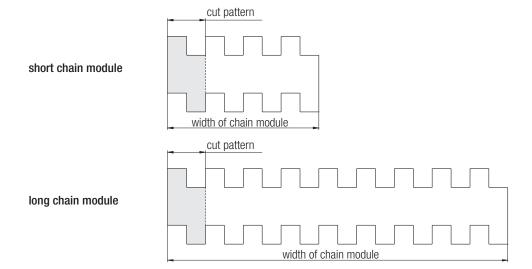
M2420 F	Habasit M2420 Flat Top 1" M2423 Non Slip 1"		Forbo Siegling S8-0 FLT		uni-chains QNB-C QNB-Rough		System Plast 2250 FT	
width	(mm)	width	(mm)	width	(mm)	width	(mm)	length (mm)
belt	conveyor 1)	belt	conveyor 1)	belt	conveyor 1)	belt	conveyor 1)	max.
595	649	610	664	607	661	595	649	10,000
680	734	686	740	683	737	680	734	
765	819	762	816	759	813	765	819	
850	904	838	892	835	889	850	904	
935	989	914	968	911	965	935	989	
1,020	1,074	991	1,045	988	1,042	1,020	1,074	6,000
1,105	1,159	1,067	1,121	1,064	1,118	1,105	1,159	
1,190	1,244	1,143	1,197	1,140	1,194	1,190	1,244	
1,275	1,329	1,219	1,273	1,216	1,270	1,275	1,329	
1,360	1,414	1,295	1,349	1,292	1,346	1,360	1,414	
1,445	1,499	1,371	1,425	1,368	1,422	1,445	1,499	5,000
1,530	1,584	1,447	1,501	1,444	1,498	1,530	1,584	

 $^{^{1)}}$ conveyor width = belt width + 54 mm

Width of chain module

short chain module long chain module cut pattern

85 mm	114.3 mm	76.2 mm	85 mm
170 mm	228.6 mm	152.4 mm	170 mm
17 mm	12.66 mm	12.66 mm	17 mm





Plastic link chain belt

Conveyor width for plastic link chain type

ES	SD	
w/o	with	

Fire safety class B1

	Flat Top 1" Non Slip 1"	Forbo S S8-0 FL	0 0	uni-cha QNB-C QNB-Roi		System 2250 FT		
width	(mm)	width	(mm)	width	(mm)	width	(mm)	length (mm)
belt	conveyor 1)	belt	conveyor 1)	belt	conveyor 1)	belt	conveyor 1)	max.
F00	GEO	610	667	610	664	600	GE 4	10.000
598	652	613	667	610	664	600	654	10,000
683	737	689	743	686	740	686	740	
768	822	765	819	762	816	772	826	
854	908	842	896	839	893	858	912	
939	993	918	972	915	969	943	997	
1,024	1,078	995	1,049	992	1,046	1,029	1,083	6,000
1,110	1,164	1,072	1,126	1,069	1,123	1,115	1,169	
1,195	1,249	1,148	1,202	1,145	1,199	1,201	1,255	
1,280	1,334	1,224	1,278	1,221	1,275	1,286	1,340	
1,366	1,420	1,300	1,354	1,297	1,351	1,372	1,426	
1,451	1,505	1,377	1,431	1,374	1,428	1,458	1,512	5,000
1,536	1,590	1,453	1,507	1,450	1,504	1,544	1,598	

 $^{^{1)}}$ conveyor width = belt width + 54 mm

Anti-slip specification class

According DIN 51130 there are five different anti-slip specification classes R9 to R13.

Higher classes represent higher anti-slip property.

Slip classes are specified by mounting the material to the face of a ramp, oil is then poured over the surface and a subject walks up the ramp. The incline is gradually increased until slipping occurs.

The table below determines the anti-slip class.

Anti-slip specification class	Coefficient of friction	Angle of incline	Illustration
R9	low coefficient of friction	> 6° - 10°	
R10	normal coefficient of friction	> 10° - 19°	K
R11	increased coefficient of friction	> 19° - 27°	K
R12	high coefficient of friction	> 27° - 35°	K
R13	very high coefficient of friction	> 35°	K

MayTec

Plastic link chain

Fire safety classes according DIN 4102-1

Fire safety class A

Materials of fire safety class A must be non-combustible.

Materials like: concrete, brickwork, soil (sand, gravel, etc.) cement, mortar, stone, architectural ceramics, glass, foam glass, cast iron, steel and aluminium belong to fire safety class A.

Fire safety class B

Flammable

· Fire safety class B1

Flame resistant materials belong to fire saftey class B1.

Materials such as flame retardant wood and rigid foam plastic belong to this fire safety class. Fire must extinguish once the fire source has been removed

· Fire safety class B2

Normally flammable materials belong to fire safety class B2. Materials like wooden parts and reconstituted timber products with a thickness > 2 mm.

· Fire safety class B3

Easily flammable materials belong to fire safety class B3.

Materials like wooden parts and reconstituted timber products with a thickness < 2 mm. Cardboard, straw or paper may not be used.

Requirements for automotive applications

Fire safety class B1

In order to comply with fire safety class B1, plastic link chain modules are manufactured from flame resistant materials.

The plastic link chains are assembled from injection molded modules secured by either plastic or metal rods.

Fire safety class "new" according DIN EN 13501-1 for floorings

naming by construction supervision	Fire safety class "old" "new" DIN 4102-1 DIN EN 13501		l -1	
			critical thermal flow kW/m²	no smoke
flame resistant	B1	B _{fl} - s1	> 8	Х
floorings		C _{fl} - s1	4.5 to 7.9	Х
normally flammable	B2	A2 fl - s2		
floorings		B _{fl} - s2		
		C _{fl} - s2		
		D _{fl} - s1		Х
		D _{fl} - s2		
		E _{fl}		
easily flammable floorings	В3	F _{fl}		



Plastic link chain

ESD version

What is ESD?

Electro Static Discharge

Transition of electrical charges between bodies with different electrostatic potentials. Typically caused by direct contact or induced by an electrostatic field.

How is ESD created?

Almost all equipment, machines and vehicles are designed using electronic components, switches and control elements. The micro electronic components which make up these systems are sensitive to electronic spikes and unexpected voltages.

An electrical charge is created when differing materials rub against, or come in contact with each other. For example, if a person wearing clothing made from different types of materials walks along an electrically isolated surface, a charge will develop on the surface of their body. If this charged surface (the persons skin in this case) is then earthed, a discharge will occur from the person to the earthed surface.

Electronic components can be easily damaged by such a discharge as high voltages are created.

Plastic module patterns

Alternate patern with ESD modules (colour white)

Assembly in section patterns

Ratio of the ESD modules 25% to 100% depending on the assembly pattern

Example: pattern for chain width 1,020 mm

ESD module

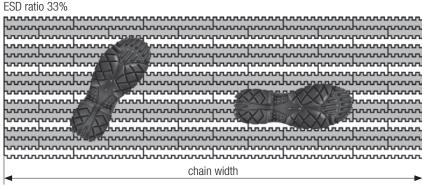
standard module

ESD ratio 25%

chain width

direction of travel

ESD ratio 33%



ESD ratio 100%

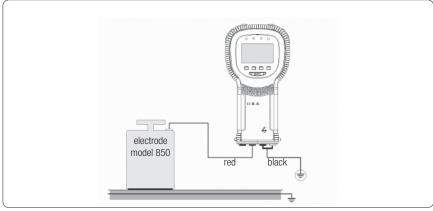
ESD ratio 100% vaanhaanaanhaanaanaahaanaannhaanaanhaanahaanahaanahaanahaana chain width



ESD version Measuring method according to: DIN EN 61340

1. Electrical grounding resistance

target value: $< 1 \times 10^9 \,\Omega$



measuring method with analyser Metriso 2000 with electrode model 850



analyser electrode model 850 dimensions:
Ø contact rubber 63.5 mm / height 120 mm

Engineering standards

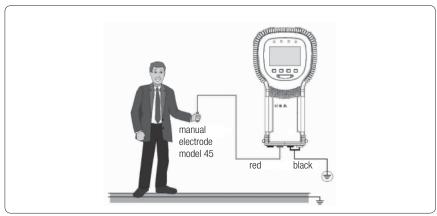
DIN EN 61340-4-1 DIN EN 61340-5-1 DIN EN 61340-2-3

2. Systematic resistance

person - shoe - flooring target value: $7.5\times 10^5~\Omega~\text{ to }~3.5\times 10^7~\Omega$

3. Persons charging - walking test

target value: < 100 V



measuring method with analyser Metriso 2000 with manual electrode model 45



manual electrode model 45 dimensions:
Ø 25 mm / lenght 120 mm

Engineering standards

DIN EN 61340-4-5 DIN EN 61340-5-1



Interchangeable platform

Interchangeable platform placeholder for people mover • 500 kg/m² maximum load



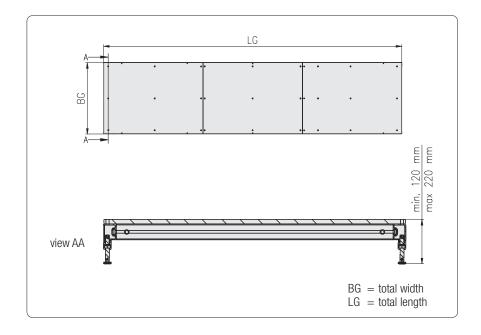
Technical data

max. load: 500 kg/m²

height: type 1: min. 120 to max. 170 mm adjustable problem 26 type 2: min. 150 to max. 220 mm adjustable problem 26

total width (BG): 500 - 1,600 mm total length (LG): 100 - 7,000 mm

base frame: aluminium extrusion, unanodized





Stage

• 500 kg/m² maximum load



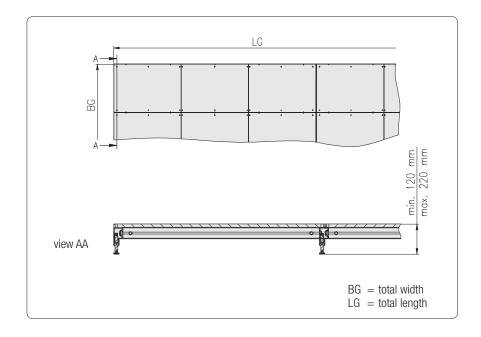
Technical data

max. load: 500 kg/m²

height: type 1: min. 120 to max. 170 mm adjustable ≈ 26 type 2: min. 150 to max. 220 mm adjustable ≈ 26

total width (BG): total length (LG):

base frame: aluminium extrusion, unanodized



Interchangeable platform / Stage

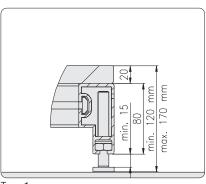
Base frame



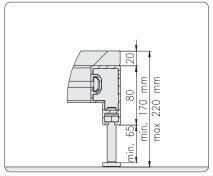
Assembly

MayTec custom extrusions provide high longitudinal and lateral stability

Height adjustibility



Type 1



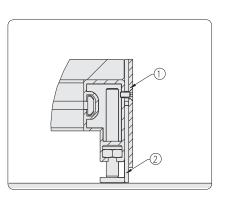
Type 2

Application

Accessible from top with socket wrench

The system allows a fast and easy adjustment to the floor conditions.

Side cover



- 1 adjustable cover strip
- 2 adjustable cover strip

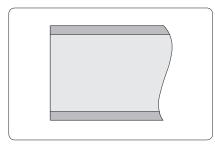
side cover can be adjusted to compensate for uneveness of flooring



Floor plates

Plastic sheet type RESOPAL® HPL plate





layer structure

Technical data

sheet thicknesses: 10, 12, 13, 14, 16, 18, 20, 22, 24, 25, 26 mm

sheet size: 2,180 × 915, 1,320 mm

surface: HPL (high pressure laminate) - special coating

paper with Melamin Formaldehyde resin

colour: decor at discretion

anti-slip coefficient: R9 according DIN 51130/BGR 181, step safety according Schuster

core material: paper with Melamin Formaldehyde resin back side: HPL lamination (same as front side)

electrical conductivity: ESD 10 9 -10 11 Ω edges: 2 \times 45 $^{\circ}$ chamfer

silicon free: yes

Surface HPL coating

Туре	Fire safety class	Electrical conductivity	Surface	Abrasion resistance
Resopal Solid F	B1	0	Resopal HPL	AC 5
		ESD		
Resopal Solid	B2	0		
		ESD		

The chart shows typical values of electrical resistance of the conductive RESOPAL multi layer panel

	test method	value
electrical resistance (in reference to a grounded point)	DIN EN 61340-2-3	$10^7~\Omega$ to $10^8~\Omega$
surface resistance (antistatic)	DIN EN 61340-2-3	$10^8\Omega$ to $10^{11}\Omega$
other properties	EN 438-2	refer to PDB HPL

The measurements are performed with a measurement voltage of 100 V and a 2.5 kg electrode DIN EN 61340-5-1 and DIN EN 61340-4-1 Ed.2 with conductive rubber.

The electrical resistance is tested between the top surface of the material and a grounded conductive inside layer of the HPL sheet.

The electrical resistance of the surface is tested with two 2.5 kg electrodes connected to the panel surface.

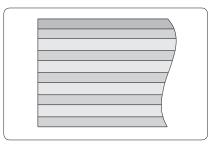
Environmental conditions: standard climate with 18 - 25° C, relative humidity 50 - 65 %

MayTec

Floor plates

Plastic sheet type DELIGNIT® industrial flooring





layer structure

Technical data

sheet thicknesses: 20, 25, 30, 40 mm

sheet size: 2,500 × 1,000, 1,300, 1,500 mm

core material: construction plywood according EN 636-2 as suporting construction material

for interior zones according CE 0765-CPD-0415 Blomberger Holzindustrie

B. Hausmann GmbH & Co. KG 04 EN 13986, EN 636-2 E3

wood type: beech, Brinell hardness HB = 34 N/mm² back side: white resin coating or ESH painting

edges: $2 \times 45^{\circ}$ chamfer, transperant coating for splash guard

glueing: according EN 314-2 (class 2) adequate for most areas and protected

outside areas

silicon free: yes

Surface painted

Туре	Fire safety class	Electrical conductivity	Surface	Abrasion resistance
Professional L	B1	ESD	paint ESH-ESD	10.000 Taber
Professional B		DIF	lamination DIF	750 Taber
Basic L		ASF	paint ESH	10.000 Taber
Eco F	B2		film coating	750 Taber
Eco L			paint	

Technical data

surface: painting or coating

colours: RAL 7008, 7035, 7045, 8000, transparent

anti-slip coefficient: R9 according DIN 51130/BGR 181 step safety according Schuster

electrical conductivity: ASF $\,<$ 2.000 V electric charging

DIF $1\times10^6~\Omega$ to $1\times10^9~\Omega$ ESD $7.5\times10^5~\Omega$ to $3.5\times10^7~\Omega$

Surface HPL coating

Туре	Fire safety class	Electrical conductivity	Surface	Abrasion resistance
Basic HPL B1	B _{fl} - s1	ESD	Resopal HPL	AC 5
Basic HPL	D _{fl} - s1			

Technical data

surface: HPL (high pressure laminate) - special coating

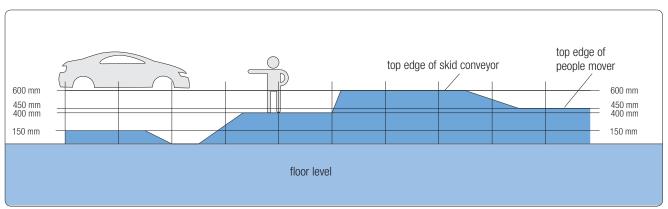
paper with Melamin Formaldehyd resin

colour: beech decor

anti-slip coefficient: R9 according DIN 51130/BGR 181 step safety according Schuster

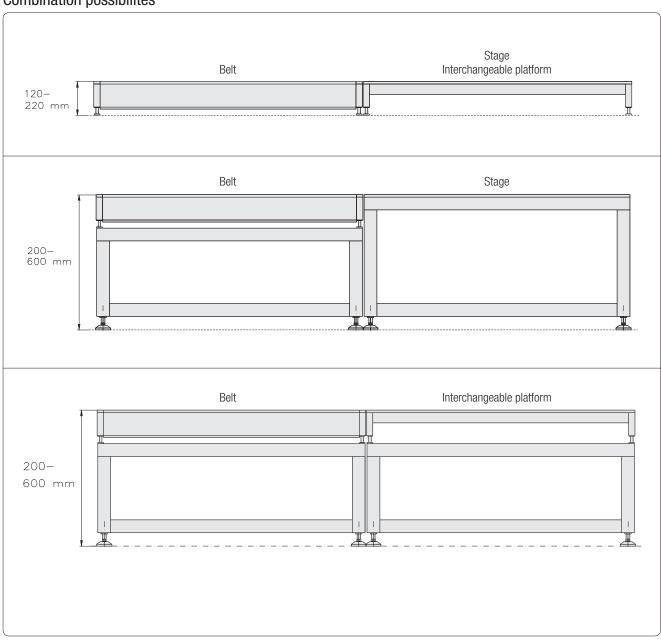
electrical conductivity: $\, 10^{\, 9} \, \Omega$ to $10^{\, 11} \, \Omega$





typical skid conveyor configuration

Combination possibilites





AC servo motor with servo drive type Minas A4



Technical data

motor speed: 3.000 RPM voltage of connection: 230 V control voltage: 230 V voltage deviation: +10% -15%

- 1 AC servo motor
- 2 servo drive

Description	Weight	Product-No.
Minas A4 400 W	1.2 kg	5MPAN.MSMD042P1C
Minas A4 750 W	2.3 kg	5MPAN.MSMD082P1C

Туре	Torque rated peak		Amperage	Weight	Moment of inertia 10 ⁻⁴ kg•m²
Minas A4 400 W	1.3 Nm	3.8 Nm	4 A	1.2 kg	0.26
Minas A4 750 W	2.4 Nm	7.1 Nm	17 A	2.3 kg	0.87

Planetary gear box type PLE 80/90



Technical data

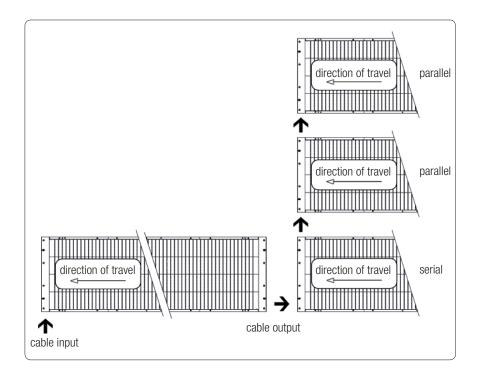
operating noise: 60 db(A) durability: 30,000 h protection: IP 54

Description	Product-No.
PLE 80/90 i40	5PNEU.PLE80/90-040
PLE 80/90 i100	5PNEU.PLE80/90-100

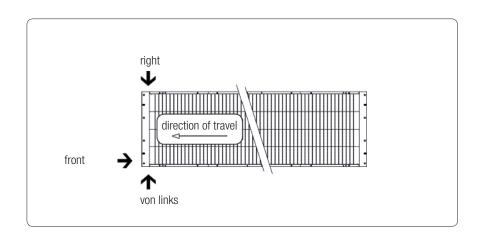
Ratio	Reduction stages	Efficiency	Maximum torque Nm
1:40	2	94%	110
1:100	3	90 %	120

E-plug connections

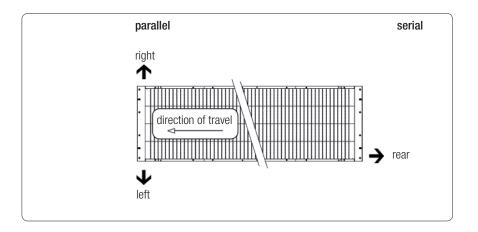
Conveyor layout



Cable input

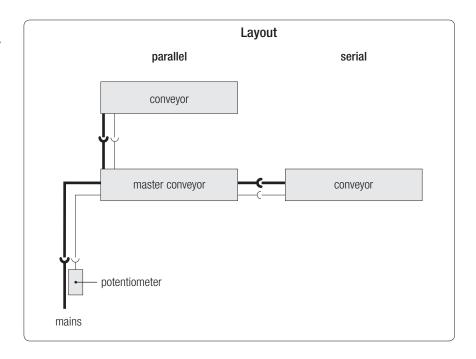


Cable output





Servo drive inside the conveyor speed adjustment with potentiometer

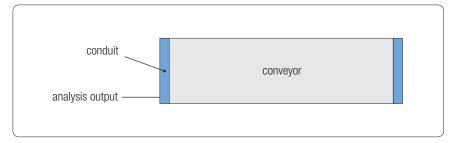


Electrical connection

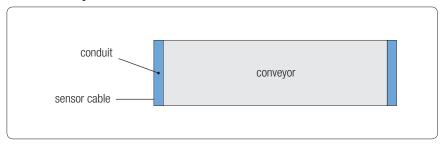
- each conveyor can be specified as master or slave and can be installed in a parallel or serial layout (up to 10 conveyors)
- mains supply 16 A with circuit breaker type C (1NPE 230 V / 50 Hz / 16 A)
- input wire 230 V (plug with connector housing Harting HAN-3A-M, 4-pin)
- input wire motor speed pre-selection plug M12, 4-pin
- 1 x output wire 230 V for parallel layout (socket Harting HAN-3A-M, 4-pin integrated in base frame)
- 1 × output wire 230 V for serial layout (socket Harting HAN-3A-M, 4-pin integrated in base frame)
- output wire motor speed pre-selection with status for servo drive plug M12, 4-pin
- each conveyor is protected with C4A circuit breaker
- protection IP 40
- potentiometer with socket M12, 4-pin (not included in scope of delivery)
- power supply to conveyor 1 (master) with Harting HAN-3A-M, 4-pin

optional

Analysis output for servo drive integrated in conduit of each conveyor

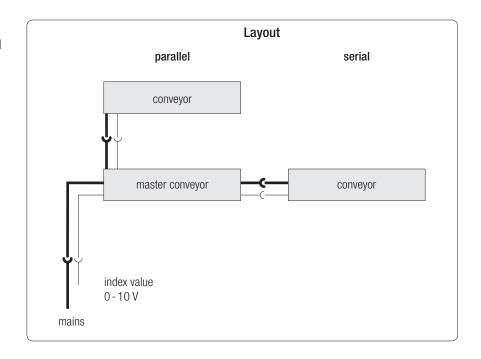


Sensor cable for monitoring of motor speed at drive shaft integrated in conduit of each conveyor





Servo drive inside the conveyor speed adjustment according external index value

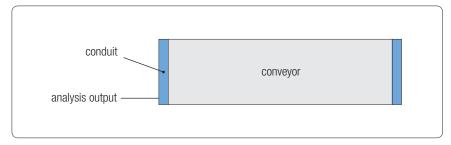


Electrical connection

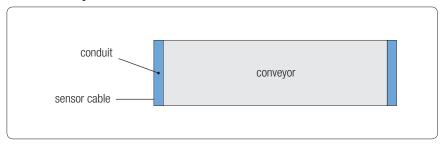
- each conveyor can be specified as master or slave and can be installed in a parallel or serial layout (up to 10 conveyors)
- mains supply 16 A with circuit breaker type C (1NPE 230 V / 50 Hz / 16 A)
- input wire 230 V (plug with connector housing Harting HAN-3A-M, 4-pin)
- input wire motor speed pre-selection plug M12, 4-pin
- 1 x output wire 230 V for parallel layout (socket Harting HAN-3A-M, 4-pin integrated in base frame)
- 1 × output wire 230 V for serial layout (socket Harting HAN-3A-M, 4-pin integrated in base frame)
- output wire motor speed pre-selection with status for servo drive plug M12, 4-pin
- each conveyor is protected with C4A circuit breaker
- protection IP 40
- input socket for external index value M12, 4-pin
- power supply to conveyor 1 (master) with Harting HAN-3A-M, 4-pin

optional

Analysis output for servo drive integrated in conduit of each conveyor



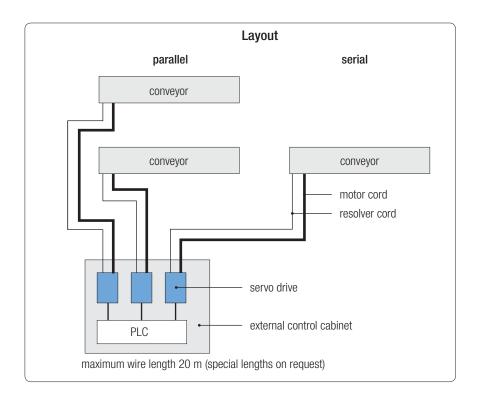
Sensor cable for monitoring of motor speed at drive shaft integrated in conduit of each conveyor





Servo drive with external control cabinet

speed adjustment according external index value

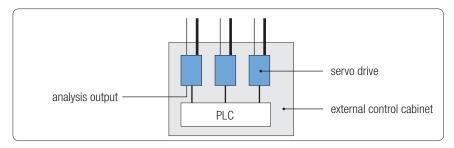


Electrical connection

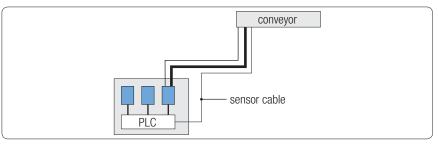
- mains supply 16 A with circuit breaker type C (1NPE 230 V / 50 Hz / 16 A)
- motor speed parameter: analog index value
- inverter enabling: activation 24 V DC
- error reset: activation 24 V DC
- motor cord: type MFMCA □□□□□ EED-S
- resolver cord: type MFECA □□□□□ EAM-S (□ in m)
- external motor speed analysis
- counter singal 24VCD PNP switching (min. 5 Hz) with plug M12×1
- protection IP 40
- motor cord
- external control cabinet

optional

Analysis output for servo motor optional integrated in external control cabinet at the servo drive

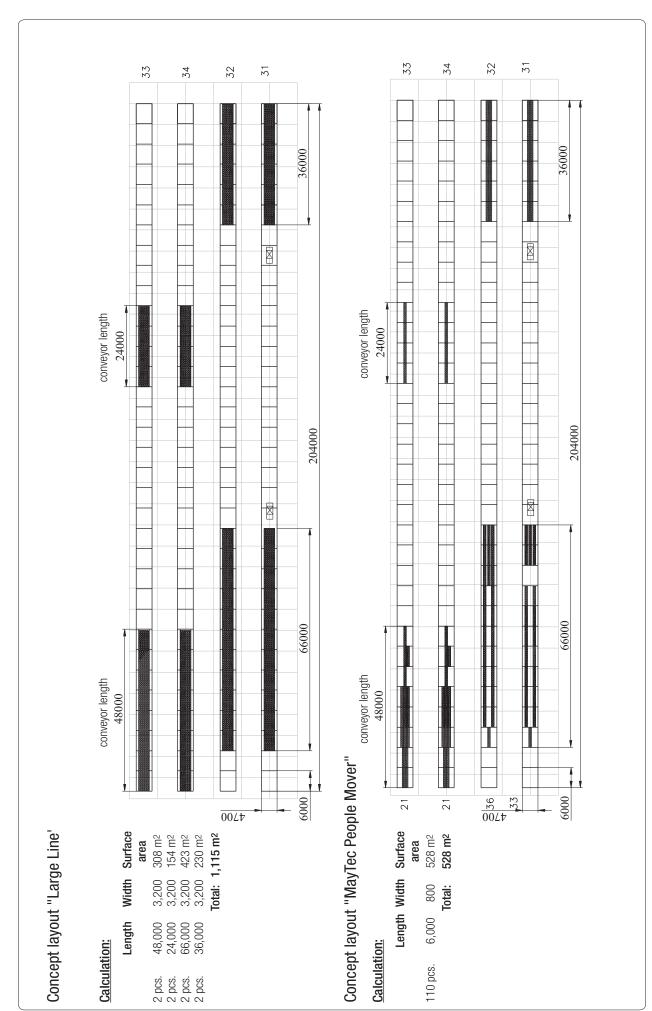


Sensor cable for monitoring of motor speed at drive shaft

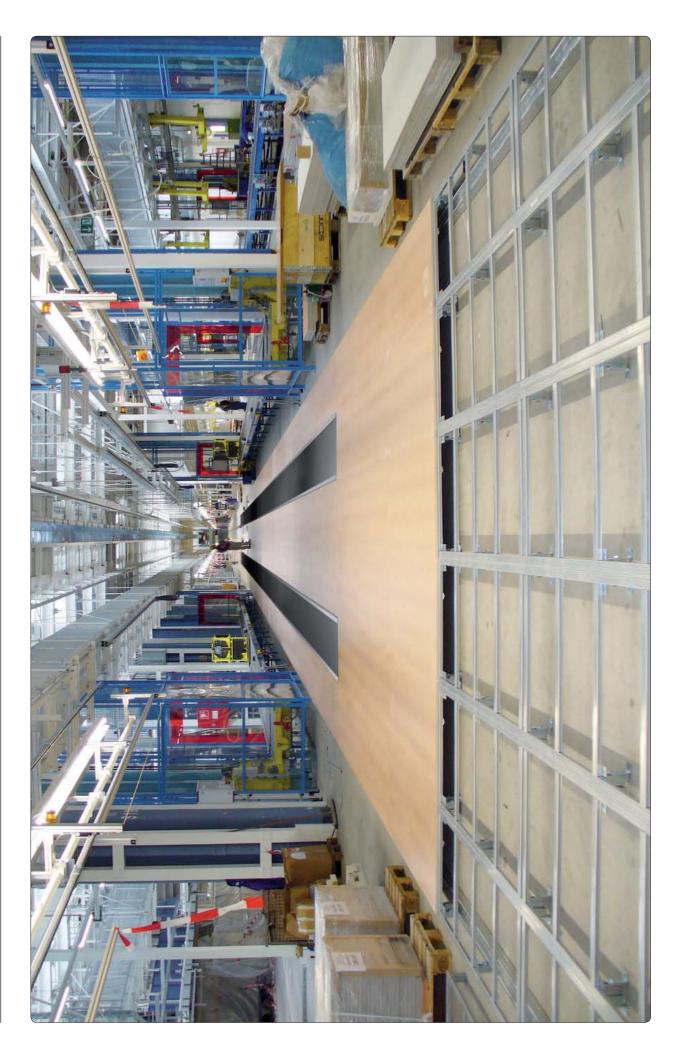












La chiave ...

del successo

elevata stabilità

economicità

funzionalità

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