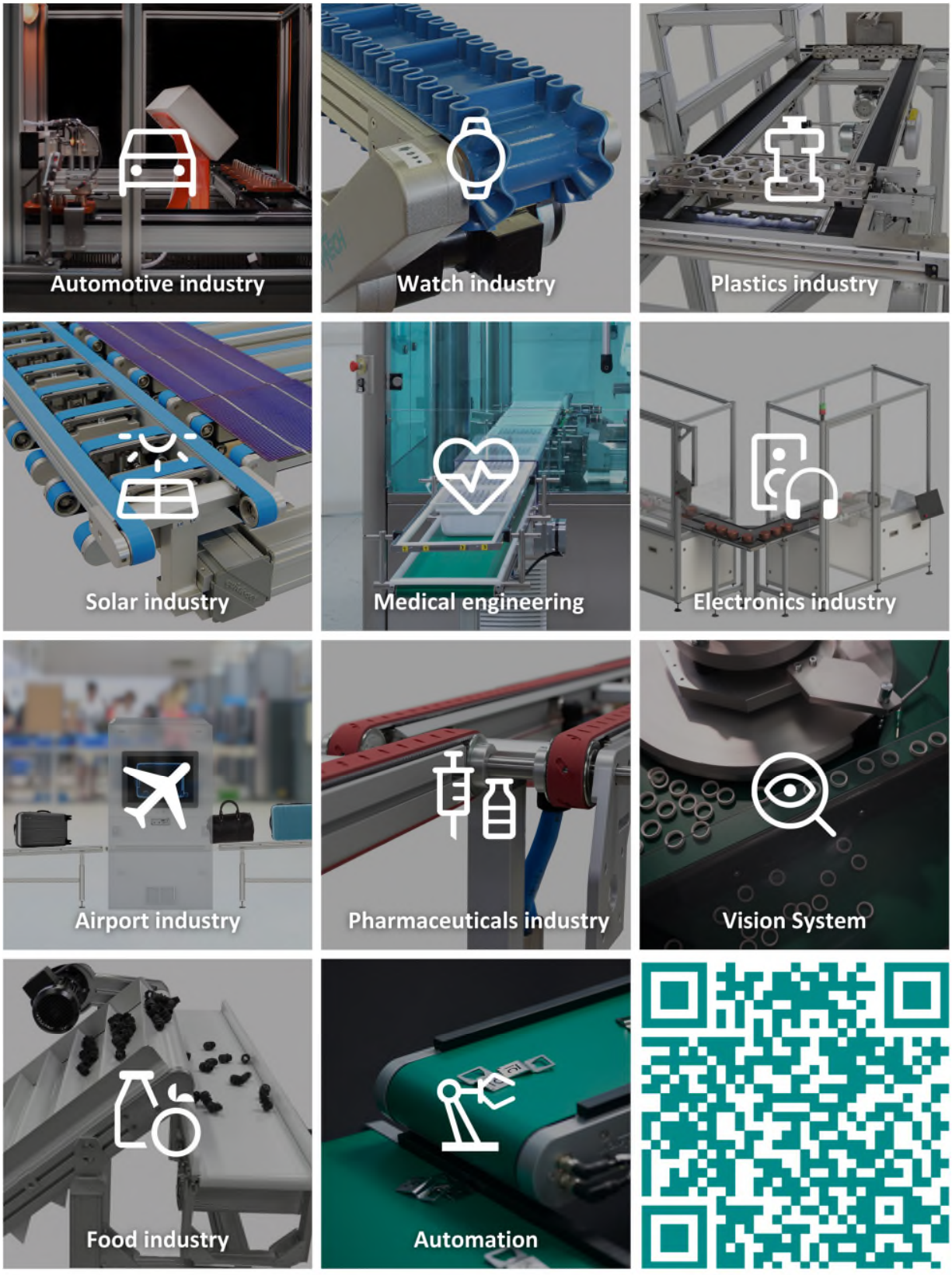


Product catalog

Conveyor TB30

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CUSTOMIZED SOLUTIONS

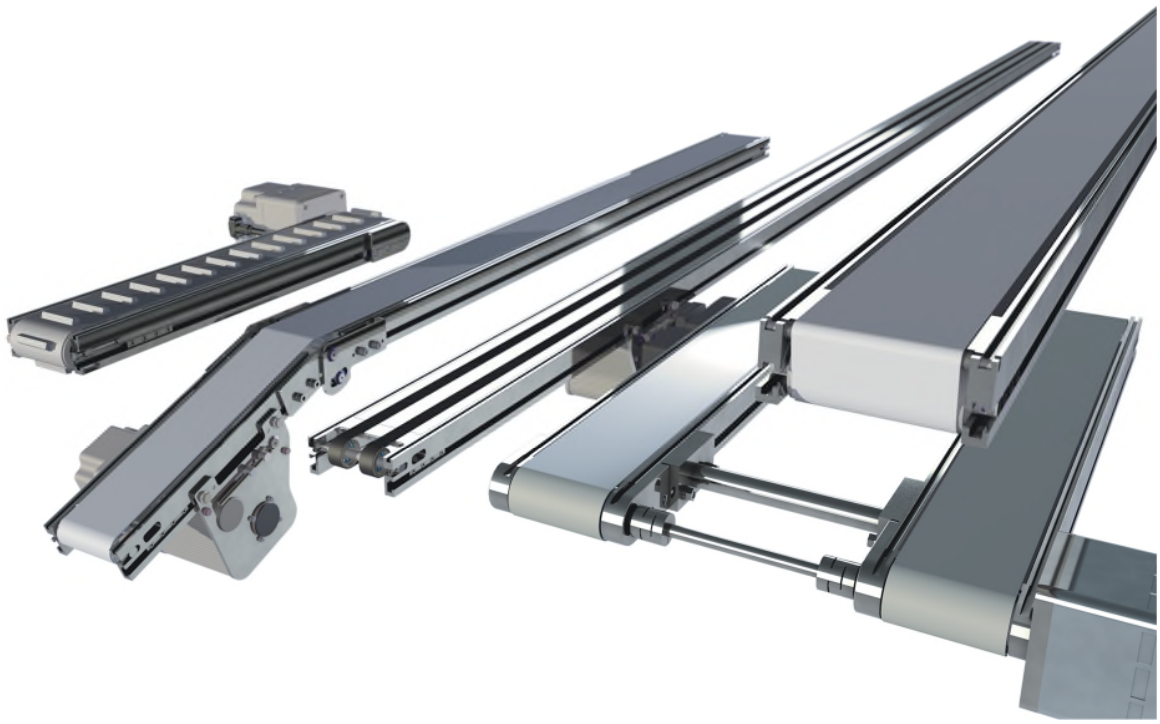


CONVEYOR TB30

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Modifications may be made without notice.

CONVEYOR TB30

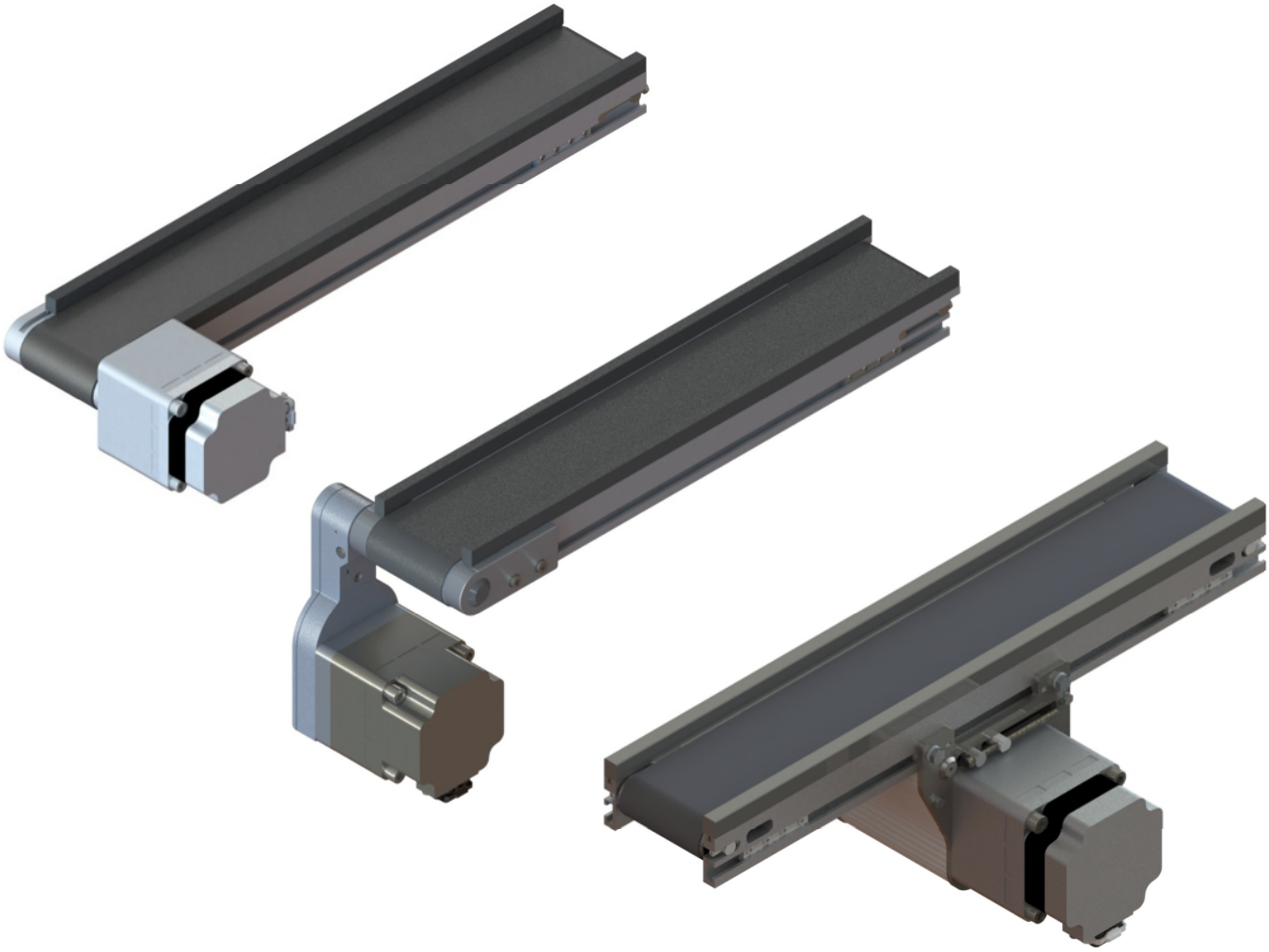


The conveyors are either as single belt or as dual belt versions available.
For transporting larger pallets and other dimensionally stable products, it is possible to use the tandem conveyor: here, two conveyors are connected by means of a vibration-reducing, clearance-free elastomer coupling and driven by only one motor (other versions on request).
The drive unit can easily and freely be positioned on the chassis, whereby a position close to the belt exit is recommended. The tensioning systems enable a precise adjustment of the initial belt tension and belt tracking. A number of different belt materials and transport speeds are available. Significant to the user is the low energy consumption and the low noise level. The accessories can be mounted easily and quickly, without any machining even after construction has been completed.

OVERVIEW CONVEYOR TB30

Brushless DC-Motor (variable conveying speed)	Center drive	 TB30 / M single belt 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz	 TB30 / M dual belt 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz	 TB30 / M tandem 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz
	End drive (Motor available on right or left side)	 TB30 / K single belt * 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz	 TB30 / K dual belt 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz	 TB30 / K tandem 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz
	End drive pivotable	 TB30 / KS single belt * 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz	 TB30 / KS dual belt 1x200-240V/3x200-240V, 50/60Hz or 1x100-120V, 50/60Hz	Legend: M= Center drive KR= End drive, right version KL = End drive, left version KSR = End drive pivotable, right version KSL = End drive pivotable, left version *also available with cleated belts
Three-phase motor (fixed conveying speed)	Center drive	 TB30 / M single belt 3x380-420V, 50 Hz 3x440-480V, 60 Hz	 TB30 / M dual belt 3x380-420V, 50 Hz 3x440-480V, 60 Hz	 TB30 / M tandem 3x380-420V, 50 Hz 3x440-480V, 60 Hz
	End drive (Motor available on right or left side)	 TB30 / K single belt * 3x380-420V, 50 Hz 3x440-480V, 60 Hz	 TB30 / K dual belt 3x380-420V, 50 Hz 3x440-480V, 60 Hz	 TB30 / K tandem 3x380-420V, 50 Hz 3x440-480V, 60 Hz

PRODUCT DESCRIPTION CONVEYOR TB30 SINGLE BELT



Different standard lengths are available, while the length can be defined in one-millimeter steps according to specific customer requirements. The drive system transmits the power at low loss and without slipping to the belt. For heavy loads, especially in buffering mode, all belts can be provided with a gliding plate integrated in the chassis (from chassis width 60 on upwards). For the drive you have the choice between a brushless DC motor for variable speeds and a three-phase motor for fixed speeds.

PRODUCT DESCRIPTION CONVEYOR TB30 DUAL BELT



The conveyor TB30 dual belt is suitable for standard applications as well as specific uses, including:
– operations from the bottom side (for instance, visual inspection or manipulation)
– conveying sensitive products (the support measures 2x16 mm (2x0.63“) only).

With a powerful drive, strong belts and modular components, this type of conveyor is ideal for many applications. Different standard widths are available, while the length can be defined in one-millimeter steps according to specific customer requirements. The distance between the belts can also be adjusted to the client’s requirements. For this purpose please contact our project management team. The drive system transmits the power at low loss and without slipping to the belt. In case of a dual belt conveyor we always recommend an integrated gliding plate. In buffering mode, the gliding plate is mandatory.

PRODUCT DESCRIPTION CONVEYOR TB30 TANDEM



The conveyor TB30 tandem is particularly suitable to carry large pallets and other cumbersome items with stable shape. The solution consists of two belts connected by means of an elastomer coupling, thus driven cost-efficiently by one single motor. The gap between the two belts can be defined as required, up to 1,000 mm (39.37“). With modular components, this type of conveyor is ideal for many applications. Different standard widths are available, while the length can be defined in one-millimeter steps according to specific customer requirements. The drive system transmits the power at low loss and without slipping to the belt. For heavy loads, especially in buffering mode, all belts can be provided with a gliding plate integrated in the chassis.

TECHNICAL DATA CONVEYOR TB30

Ambient temperature		+10 to +40 °C (+50 to 104° F)
Rel. humidity		< 85% (without condensation)
Air purity		normal workshop atmosphere
Noise level		< 60 dBa (60dB)
Drives		
Brushless DC-Motor		
	Connection	by external controller
	Voltage/frequency	1x200-240V/3x200-240V, 50/60 Hz or 1x100-120V, 50/60 Hz
	Nominal rating	120 W
	Rated current	0.78 A
	Category of protection	motor IP66 / controller IP20
	Gear reduction ratio	10, 15, 30
	Conveying speed	variable (refer to p.10)
	Start-Stop	8 cycles per minute
Three-phase motor*		
	Voltage/frequency	3x380-420V, 50 Hz or 3x440-480V, 60 Hz
	Nominal rating	90 W
	Rated current	0.33 A / 0.29 A
	Category of protection	IP44
	Gear reduction ratio	10.18, 15, 25.42, 40, 60.83, 120
	Conveying speed	constant* (refer to p.10)
	Start-Stop	8 cycles per minute
Drive designs	End drive	front and rear drive
	End drive pivotable	front and rear drive
	Center drive	
Material	Chassis	aluminum, anodized natural
	Gliding plate	stainless steal
	Deflection rollers	stainless steel, synthetic material
	Drive roller	rubber-coated aluminum PU, steel
	Drive unit	stainless steel, aluminum, anodized natural
	Gear motor	aluminum, steel, plastic
Warranty		3 years Motors and gears 1 year. Conveyor belts are wear parts and thus excluded from the warranty.

* Not intended for operation with frequency converter and not for end drive pivotable

Conveying speed brushless DC-motor

Type		i=10 Ref. No. 66686	i=15 Ref. No. 66687	i=30 Ref.No. 66688
Center drive	[m/min] [ft/min]	1.5 – 38.3 (4.92 – 125.66)	1.0 – 25.5 (3.28 – 83.66)	0.5 – 12.7 (1.64 – 41.67)
	[m/min] [ft/min]	1.5 – 57.4 (4.92 – 188.32)	1.0 – 38.3 (3.28– 125.66)	0.5 – 19.1 (1.64 – 62.66)
	[m/min] [ft/min]	1.5 – 76.6 (4.92 – 251.31)	1.0 – 51.1 (3.28 – 167.65)	0.5 – 25.5 (1.64 – 83.66)

Type		i=10 Ref.No. 66689	i=15 Ref.No. 66690	i=30 Ref.No. 66691
End drive	[m/min] [ft/min]	1.0 – 25.7 (3.28 – 84.32)	0.6 – 17.1 (1.97 – 56.1)	0.4 – 8.5 (1.31 – 27.89)
	[m/min] [ft/min]	1.0 – 38.6 (3.28 – 126.64)	0.6 – 25.7 (1.97 – 84.32)	0.4 – 12.8 (1.31 – 41.99)
	[m/min] [ft/min]	1.0 – 51.5 (3.28 – 168.96)	0.6 – 34.3 (1.97 – 112.53)	0.4 – 17.1 (1.31 – 56.1)

Type		i=10 Ref.No. 66689	i=15 Ref.No. 66690	i=30 Ref.No. 66691
End drive pivotable	[m/min] [ft/min]	1.0 – 25.7 (3.28 – 84.32)	0.7 – 17.1 (2.30 – 56.1)	0.4 – 8.5 (1.31 – 27.89)
	[m/min] [ft/min]	1.0 – 38.6 (3.28 – 126.64)	0.7 – 25.7 (2.30 – 84.32)	0.4 – 12.8 (1.31 – 41.99)
	[m/min] [ft/min]	1.0 – 51.5 (3.28 – 168.96)	0.7 – 34.3 (2.30 – 112.53)	0.4 – 17.1 (1.31 – 56.1)

Conveying speed Three-phase motor

Type		i=10.18 Ref.No. 66692 66349	i=15 Ref.No. 66693 66350	i=25.42 Ref.No. 66694 66351	i=40 Ref.No. 66695 66352	i=60.83 Ref.No. 66696 66353	i=120 Ref.No. 66697 66354
Center drive (3x380-420 V / 50 Hz)	[m/min] [ft/min]	27.3 (89.57)	18.2 (59.71)	10.9 (35.76)	6.8 (89.57)	4.6 (15.09)	2.3 (7.55)
Center drive (3x440-480 V / 60 Hz)	[m/min] [ft/min]	31.6 (103.6)	21.4 (70.21)	12.6 (41.34)	8.0 (26.25)	5.3 (17.39)	2.6 (8.53)

Type		i=10.18 Ref.No. 66692 66349	i=15 Ref.No. 66693 66350	i=25.42 Ref.No. 66694 66351	i=40 Ref.No. 66695 66352	i=60.83 Ref.No. 66696 66353	i=120 Ref.No. 66697 66354
End drive (3x380-420 V / 50 Hz)	[m/min] [ft/min]	18.6 (61.01)	12.4 (40.68)	7.4 (24.28)	4.6 (15.09)	3.1 (10.17)	1.6 (5.25)
End drive (3x440-480 V / 60 Hz)	[m/min] [ft/min]	21.2 (69.56)	14.4 (47.25)	8.5 (27.89)	5.4 (17.72)	3.6 (11.81)	1.8 (5.91)

Weight conveyor TB30

Version with brushless DC motor

Weight Base length L = 1000 mm (39.37“)		Center drive	End drive	End drive pivotable	Extension per meter	with gliding plate Center drive	End drive	End drive pivotable	Extension per meter
Single belt	TB30-45	5.5 kg (12.10 lbs)	5.5 kg (12.10 lbs)	6.3 kg (13.89 lbs)	2.1 kg (4.62 lbs)	-	-	-	-
	TB30-60	6.7 kg (14.74 lbs)	6.7 kg (14.74 lbs)	7.5 kg (16.53 lbs)	2.3 kg (5.06 lbs)	7.4 kg (16.28 lbs)	7.4 kg (16.28 lbs)	8.2 kg (18.08 lbs)	2.5 kg (5.50 lbs)
	TB30-80	7.2 kg (15.84 lbs)	7.2 kg (15.84 lbs)	8.0 kg (17.64 lbs)	2.6 kg (5.72 lbs)	7.9 kg (17.38 lbs)	7.9 kg (17.38 lbs)	8.7 kg (19.18 lbs)	2.8 kg (6.16 lbs)
	TB30-105	7.6 kg (16.72 lbs)	7.6 kg (16.72 lbs)	8.4 kg (18.52 lbs)	3.1 kg (6.82 lbs)	8.3 kg (18.26 lbs)	8.3 kg (18.26 lbs)	9.1 kg (20.06 lbs)	3.8 kg (8.36 lbs)
	TB30-140	8.3 kg (18.26 lbs)	8.3 kg (18.26 lbs)	9.1 kg (20.06 lbs)	3.7 kg (8.14 lbs)	9.0 kg (19.80 lbs)	9.0 kg (19.80 lbs)	9.8 kg (21.61 lbs)	4.6 kg (10.12 lbs)
	TB30-185	9.2 kg (20.24 lbs)	9.2 kg (20.24 lbs)	10.0 kg (22.05 lbs)	4.4 kg (9.68 lbs)	9.9 kg (21.78 lbs)	9.9 kg (21.78 lbs)	10.7 kg (23.59 lbs)	5.7 kg (12.54 lbs)
	TB30-250	10.8 kg (23.76 lbs)	10.8 kg (23.76 lbs)	11.6 kg (25.57 lbs)	5.8 kg (12.76 lbs)	11.4 kg (25.08 lbs)	11.4 kg (25.08 lbs)	12.2 kg (26.90 lbs)	7.6 kg (16.72 lbs)
Dual belt	TB30-105	7.6 kg (16.72lbs)	7.6 kg (16.72lbs)	8.4 kg (18.52 lbs)	3.1 kg (6.82 lbs)	8.3 kg (18.26 lbs)	8.3 kg (18.26 lbs)	9.1 kg (20.06 lbs)	3.8 kg (8.36 lbs)
	TB30-140	8.3 kg (18.26 lbs)	8.3 kg (18.26 lbs)	9.1 kg (20.06 lbs)	3.7 kg (8.14 lbs)	9.0 kg (19.80 lbs)	9.0 kg (19.80 lbs)	9.8 kg (21.61 lbs)	4.6 kg (10.12 lbs)
	TB30-185	9.2 kg (20.24 lbs)	9.2 kg (20.24 lbs)	10.0 kg (22.05 lbs)	4.4 kg (9.68 lbs)	9.9 kg (21.78 lbs)	9.9 kg (21.78 lbs)	10.7 kg (23.59 lbs)	5.7 kg (12.54 lbs)
	TB30-250	10.8 kg (23.76 lbs)	10.8 kg (23.76 lbs)	11.6 kg (25.57 lbs)	5.8 kg (12.76 lbs)	11.4 kg (25.08 lbs)	11.4 kg (25.08 lbs)	12.2 kg (26.90 lbs)	7.6 kg (16.72 lbs)
Tandem	TB30-60	21.4 kg (47.08 lbs)	21.4 kg (47.08 lbs)	-	9.9 kg (21.78 lbs)	21.8 kg (47.96 lbs)	21.8 kg (47.96 lbs)	-	10.3 kg (22.66 lbs)
	TB30-80	23.0 kg (50.60 lbs)	23.0 kg (50.60 lbs)	-	10.5 kg (23.10 lbs)	23.4 kg (51.48 lbs)	23.4 kg (51.48 lbs)	-	10.9 kg (23.98 lbs)
	TB30-105	24.8 kg (54.56 lbs)	24.8 kg (54.56 lbs)	-	11.5 kg (25.30 lbs)	26.2 kg (57.64 lbs)	26.2 kg (57.64 lbs)	-	12.9 kg (28.38 lbs)
	TB30-140	27.4 kg (60.28 lbs)	27.4 kg (60.28 lbs)	-	12.7 kg (27.94 lbs)	29.2 kg (64.24 lbs)	29.2 kg (64.24 lbs)	-	14.5 kg (31.90 lbs)
	TB30-185	29.6 kg (65.12 lbs)	29.6 kg (65.12 lbs)	-	14.1 kg (31.02 lbs)	32.2 kg (70.84 lbs)	32.2 kg (70.84 lbs)	-	16.7 kg (36.74 lbs)
	TB30-250	36.4 kg (80.08 lbs)	36.4 kg (80.08 lbs)	-	19.9 kg (43.78 lbs)	40.0 kg (88 lbs)	40.0 kg (88 lbs)	-	20.5 kg (45.10 lbs)

Version with three-phase motor

Weight Base length L = 1000 mm (39.37“)					with gliding plate		
		Center drive	End drive	Extension per meter	Center drive	End drive	Extension per meter]
Single belt	TB30-45	8.1 kg (17.82 lbs)	8.1 kg (17.82 lbs)	2.1 kg (4.62 lbs)	-	-	-
	TB30-60	9.3 kg (20.46 lbs)	9.3 kg (20.46 lbs)	2.3 kg (5.06 lbs)	10.0 kg (22 lbs)	10.0 kg (22 lbs)	2.5 kg (5.50 lbs)
	TB30-80	9.8 kg (21.56 lbs)	9.8 kg (21.56 lbs)	2.6 kg (5.72 lbs)	10.5 kg (23.10 lbs)	10.5 kg (23.10 lbs)	2.8 kg (6.16 lbs)
	TB30-105	10.2 kg (22.44 lbs)	10.2 kg (22.44 lbs)	3.1 kg (6.82 lbs)	10.9 kg (23.98 lbs)	10.9 kg (23.98 lbs)	3.8 kg (8.36 lbs)
	TB30-140	10.9 kg (23.98 lbs)	10.9 kg (23.98 lbs)	3.7 kg (8.14 lbs)	11.6 kg (25.52 lbs)	11.6 kg (25.52 lbs)	4.6 kg (10.12 lbs)
	TB30-185	11.8 kg (25.96 lbs)	11.8 kg (25.96 lbs)	4.4 kg (9.68 lbs)	12.5 kg (27.50 lbs)	12.5 kg (27.50 lbs)	5.7 kg (12.54 lbs)
	TB30-250	13.4 kg (29.48 lbs)	13.4 kg 29.48 lbs)	5.8 kg (12.76 lbs)	14.0 kg (30.80 lbs)	14.0 kg (30.80 lbs)	7.6 kg (16.72 lbs)
Dual belt	TB30-105	10.2 kg (22.44 lbs)	10.2 kg (22.44 lbs)	3.1 kg (6.82 lbs)	10.9 kg (23.98 lbs)	10.9 kg (23.98 lbs)	3.8 kg (8.36 lbs)
	TB30-140	10.9 kg (23.98 lbs)	10.9 kg (23.98 lbs)	3.7 kg (8.14 lbs)	11.6 kg (25.52 lbs)	11.6 kg (25.52 lbs)	4.6 kg (10.12 lbs)
	TB30-185	11.8 kg (25.96 lbs)	11.8 kg (25.96 lbs)	4.4 kg (9.68 lbs)	12.5 kg (27.50 lbs)	12.5 kg (27.50 lbs)	5.7 kg (12.54 lbs)
	TB30-250	13.4 kg (29.48 lbs)	13.4 kg (29.48 lbs)	5.8 kg (12.76 lbs)	14.0 kg (30.80 lbs)	14.0 kg (30.80 lbs)	7.6 kg (16.72 lbs)
Tandem	TB30-60	24.0 kg (52.80 lbs)	24.0 kg (52.80 lbs)	9.9 kg (21.78 lbs)	24.4 kg (53.68 lbs)	24.4 kg (53.68 lbs)	10.3 kg (22.66 lbs)
	TB30-80	25.6 kg (56.32 lbs)	25.6 kg (56.32 lbs)	10.5 kg (23.10 lbs)	26.0 kg (57.20 lbs)	26.0 kg (57.20 lbs)	10.9 kg (23.98 lbs)
	TB30-105	27.4 kg (60.28 lbs)	27.4 kg (60.28 lbs)	11.5 kg (25.30 lbs)	28.8 kg (63.36 lbs)	28.8 kg (63.36 lbs)	12.9 kg (28.38 lbs)
	TB30-140	30.0 kg (66 lbs)	30.0 kg (66 lbs)	12.7 kg (27.94 lbs)	31.8 kg (69.96 lbs)	31.8 kg (69.96 lbs)	14.5 kg (31.90 lbs)
	TB30-185	32.2 kg (70.84 lbs)	32.2 kg (70.84 lbs)	14.1 kg (31.02 lbs)	34.8 kg (76.56 lbs)	34.8 kg (76.56 lbs)	16.7 kg (36.74 lbs)
	TB30-250	39.0 kg (85.80 lbs)	39.0 kg (85.80 lbs)	19.9 kg (43.78 lbs)	42.6 kg (93.72 lbs)	42.6 kg (93.72 lbs)	20.5 kg (45.10 lbs)

DRIVE OPTIONS



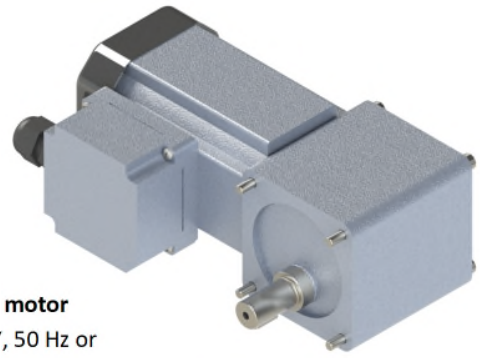
Brushless DC-Motor with external controller
1 x 200-240V / 3 x 200-240V, 50/60 Hz or
1 x 100-120 V, 50/60 Hz



Controller
- variable speed when operating manually (stepless)
- predefining of up to four different speeds when operating over I/O's
- simple switching of direction of rotation
- configurable acceleration ramp
- ON-OFF function



Connecting cable motor <-> controller
Available in lengths 1,5 m and 10 m (4.92 ft and 32.81 ft)



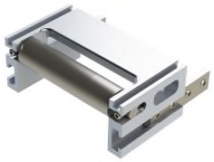
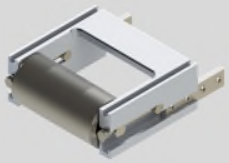
Three-phase motor
3 x 380-420V, 50 Hz or
3 x 440-480V, 60 Hz
for constant conveying speeds

In our standard product range, we have two different motors available for the drive. When variable speed is needed, we recommend the brushless DC-Motor. It has a high protection class and is, with the external controller included, available to a market compliant price. Via controller the motor is controllable manually or digitally over I/O's. Depending on the required protection class the external controller can be mounted directly on the conveyor or alternatively placed in a control cabinet.

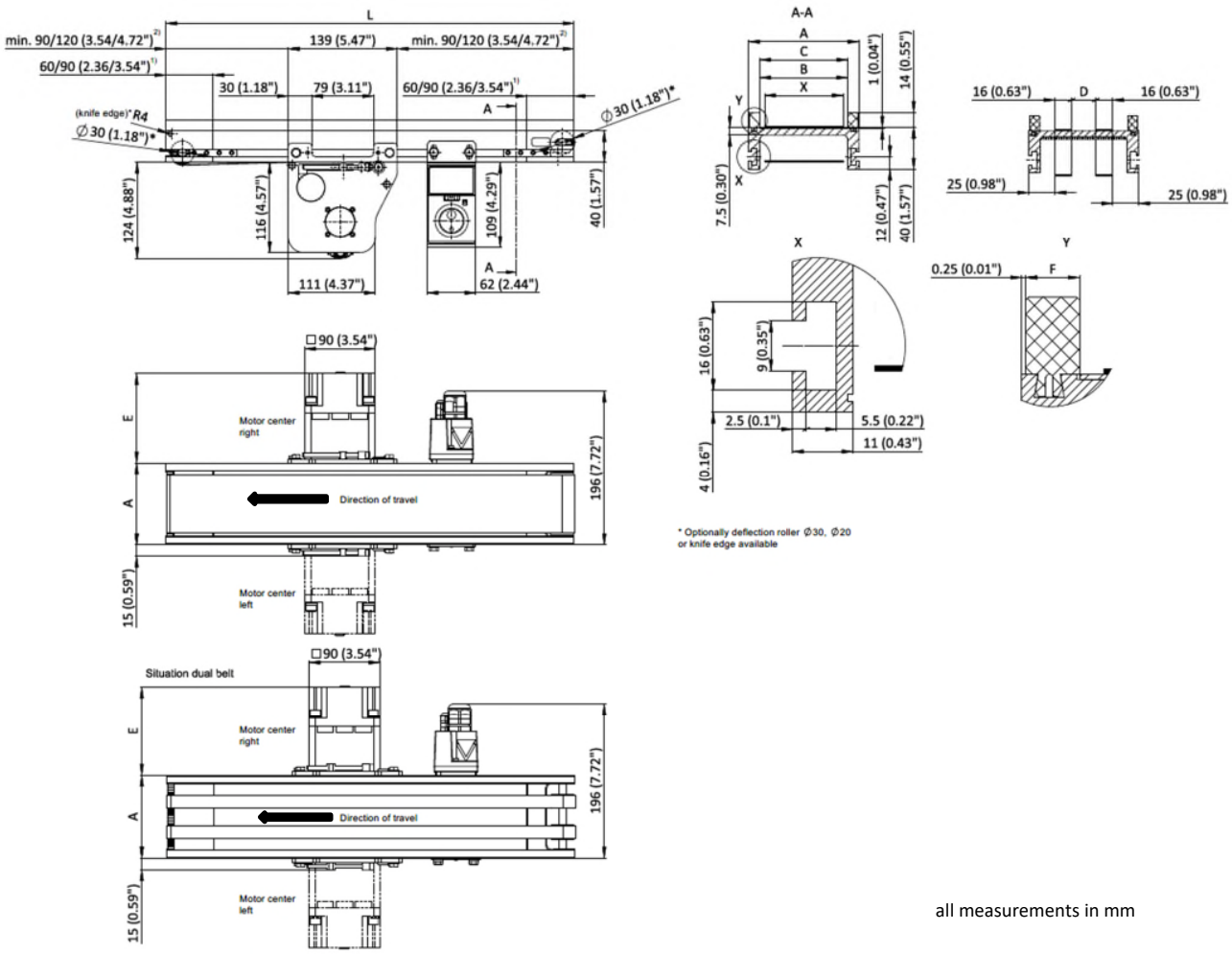
In case the client prefers a connecting voltage of 3x380-420 V / 50 Hz (3x440-480 V, 60 Hz) and the working process includes solely a constant conveying speed, we recommend the Three-phase motor. Different gear reduction ratios are available here.✓

END SECTIONS

Different end sections are available for selection.
Depending on the application, the diameter of the deflection rollers can vary – ø20 mm (0.79”), ø30 mm (1.18”) or ø40 mm (1.57”). For a smooth and safe transport of small parts - especially when transferring from parts from one conveyor to the next - a end section with a knife edge with radius R4 mm can be selected.
The dimensions of the end selections can be found on pages 15– 23.

End section	Center drive	End drive
End section with deflection roller Ø 30 mm (1.18”), single belt		
End section with deflection roller Ø 30 mm (1.18”), dual belt		
End section with deflection roller Ø 20 mm (0.79”), single belt		
End section with knife edge R4 mm (R0.16”), single belt		
End section with knife edge R4 mm (R0.16”), dual belt		
End section with tension roller Ø 30 mm (1.18”), single belt Center drive: more tension path		
End section with tension roller Ø 30 mm (1.18”), dual belt Center drive: more tension path		
End section with tension roller Ø 40 mm (1.57”), single belt For conveyors with cleated belt		

DIMENSION DRAWING CONVEYOR TB30/M BRUSHLESS DC-MOTOR



all measurements in mm

[1] 60 mm (2.36“) for end section with deflection roller or knife edge / 90 mm (3.54“) for end section with tension roller (more tension path)

[2] 90 mm (3.54“) for end section with deflection roller or knife edge / 120 mm (4.72“) for end section with tension roller (more tension path)

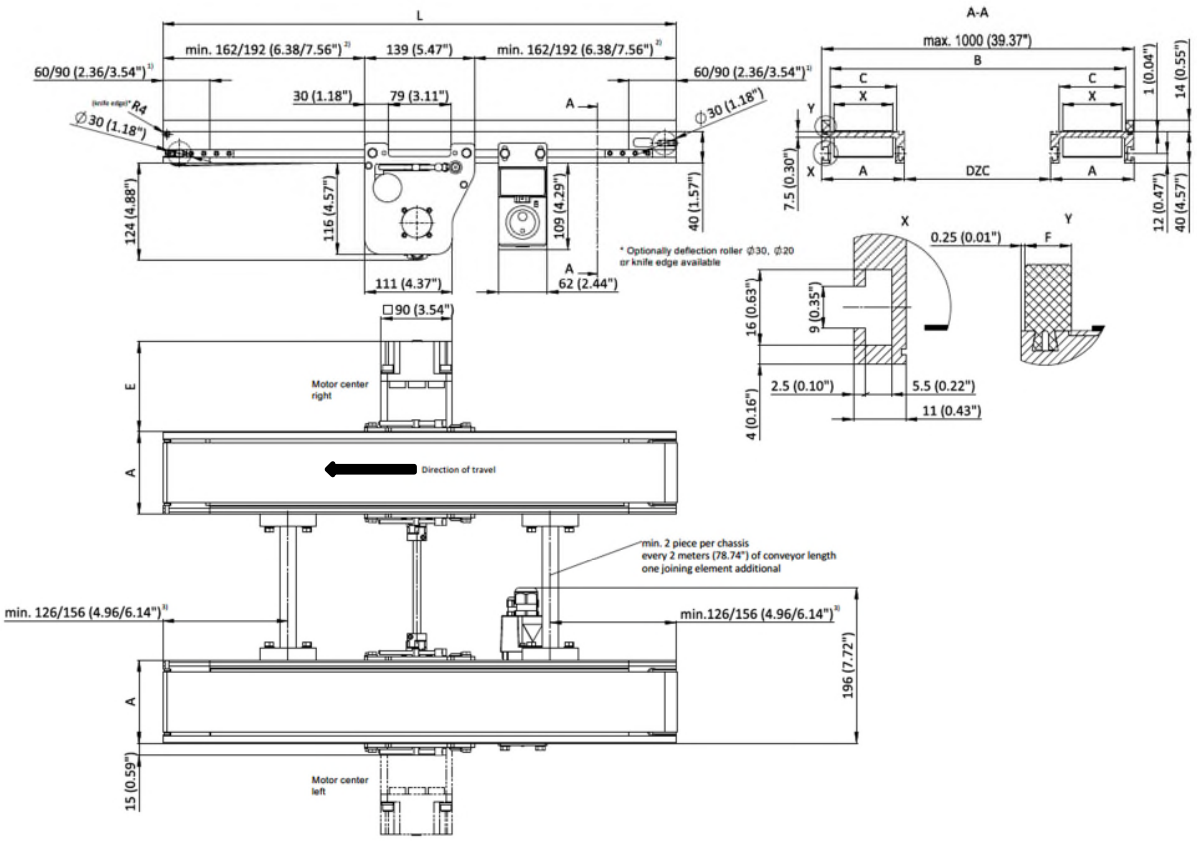
Type	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	45 mm (1.77“)	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (±0.02“) [i]	0-23 mm (0-0.91“)	0-38 mm (0-1.5“)	8-58 mm (0.31-2.28“)	33-83 mm (1.3-3.27“)	68-118 mm (2.68-4.65“)	113-163 mm (4.45-6.42“)	178-228 mm (7.01-8.98“)
C gliding plate	-	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
D belt distance	-	-	-	23 mm (0.91“)	58 mm (2.28“)	103 mm (4.06“)	168 mm (6.61“)
X belt width [ii]	15 mm (0.59“)	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
E motor	gear reduction ratio 10/15:				101 mm (3.98“)		
	30:				114 mm (4.49“)		
F lateral guide width	depends on conveying width B						
L total length [iii]	L_{min}=385/325 mm (15.16/12.8“) with/without external controller; with lateral guide adjustable L_{min}+40 mm (1.57“) L_{max}=10,000 mm (393.7“)						

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.

[ii] Only for single belt. Belt width for dual belt version is always 2x16 mm (2x0.63“)

[iii] The total length is reduced depending on load, type of belt or conveying mode

DIMENSION DRAWING CONVEYOR TB30/M TANDEM BRUSHLESS DC-MOTOR



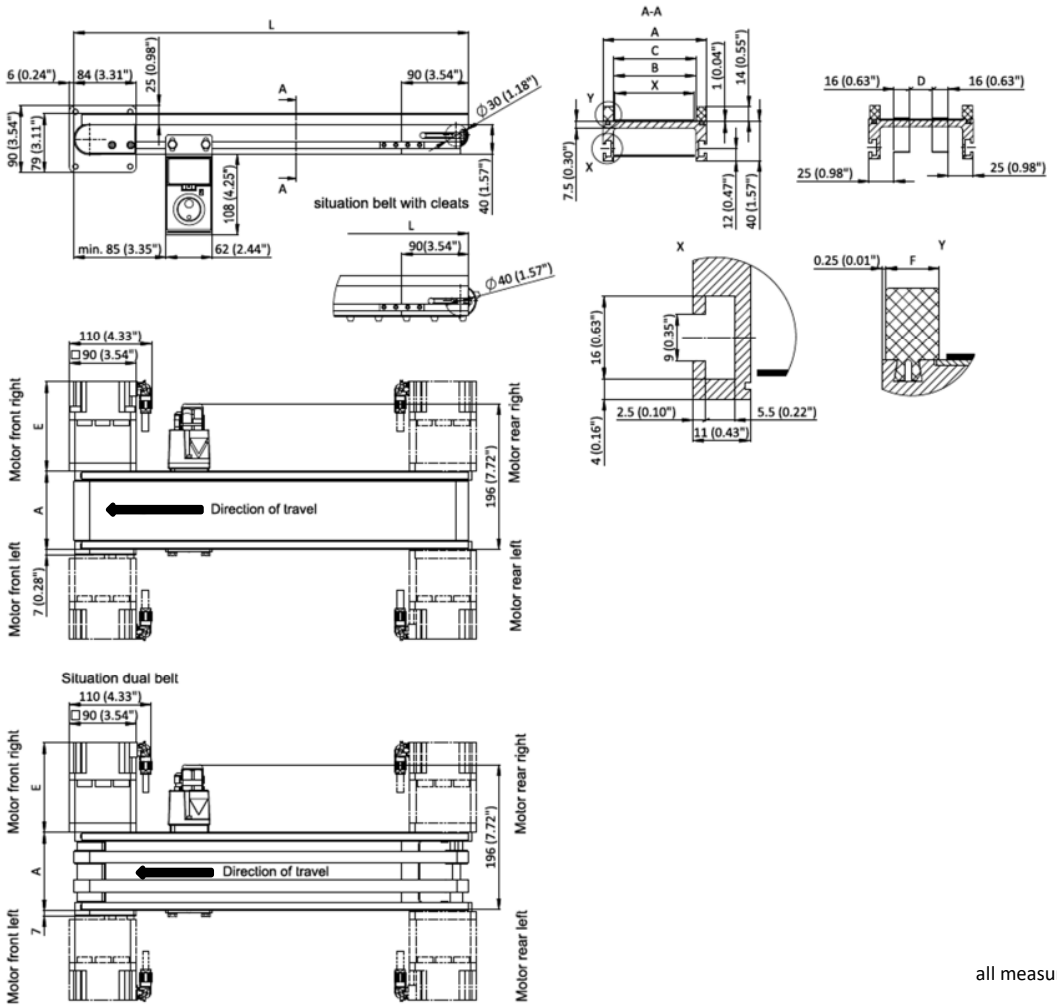
all measurements in mm

[1] 60 mm (2.36“) for end section with deflection roller or knife edge / 90 mm (3.54“) for end section with tension roller (more tension path)
[2] 162 mm (6.38“) for end section with deflection roller or knife edge / 192 mm (7.56“) for end section with tension roller (more tension path)
[3] 126 mm (4.96“) for end section with deflection roller or knife edge / 156 mm (6.14“) for end section with tension roller (more tension path)

Type	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (±0.02“) [i]	178-978 mm (7.01-38.5“)	218-978 mm (8.58-38.5“)	268-978 mm (10.55-38.5“)	338-978 mm (13.31-38.5“)	428-978 mm (16.85-38.5“)	558-978 mm (21.97-38.5“)
C gliding plate	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X belt width	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
E motor	gear reduction ratio 10/15:			101 mm (3.98“)		
	30:			114 mm (4.49“)		
F lateral guide width	by default 10.75 mm (0.42“) (lateral guide fixed)					
DZC chassis distance	minimal distance			80 mm (3.15“)		
	lateral guide fixed			B-2 mm (0.08“) x A+22 mm (0.87“)		
	lateral guide adjustable Typ A			B-2 mm (0.08“) x A+3 mm (0.12“)		
	lateral guide adjustable Typ B			B-2 mm (0.08“) x A+10 mm (0.39“)		
	lateral guide adjustable Typ C			B-2 mm (0.08“) x A+8 mm (0.31“)		
L total length [ii]	L_{min}=469 mm (18.46“) with/without external controller; with lateral guide adjustable					
	L_{min}+40 mm (1.57“)					
	L_{max}=10,000 mm (393.7“)					

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.
[ii] The total length is reduced depending on load, type of belt or conveying mode.

DIMENSION DRAWING CONVEYOR TB30/K BRUSHLESS DC-MOTOR



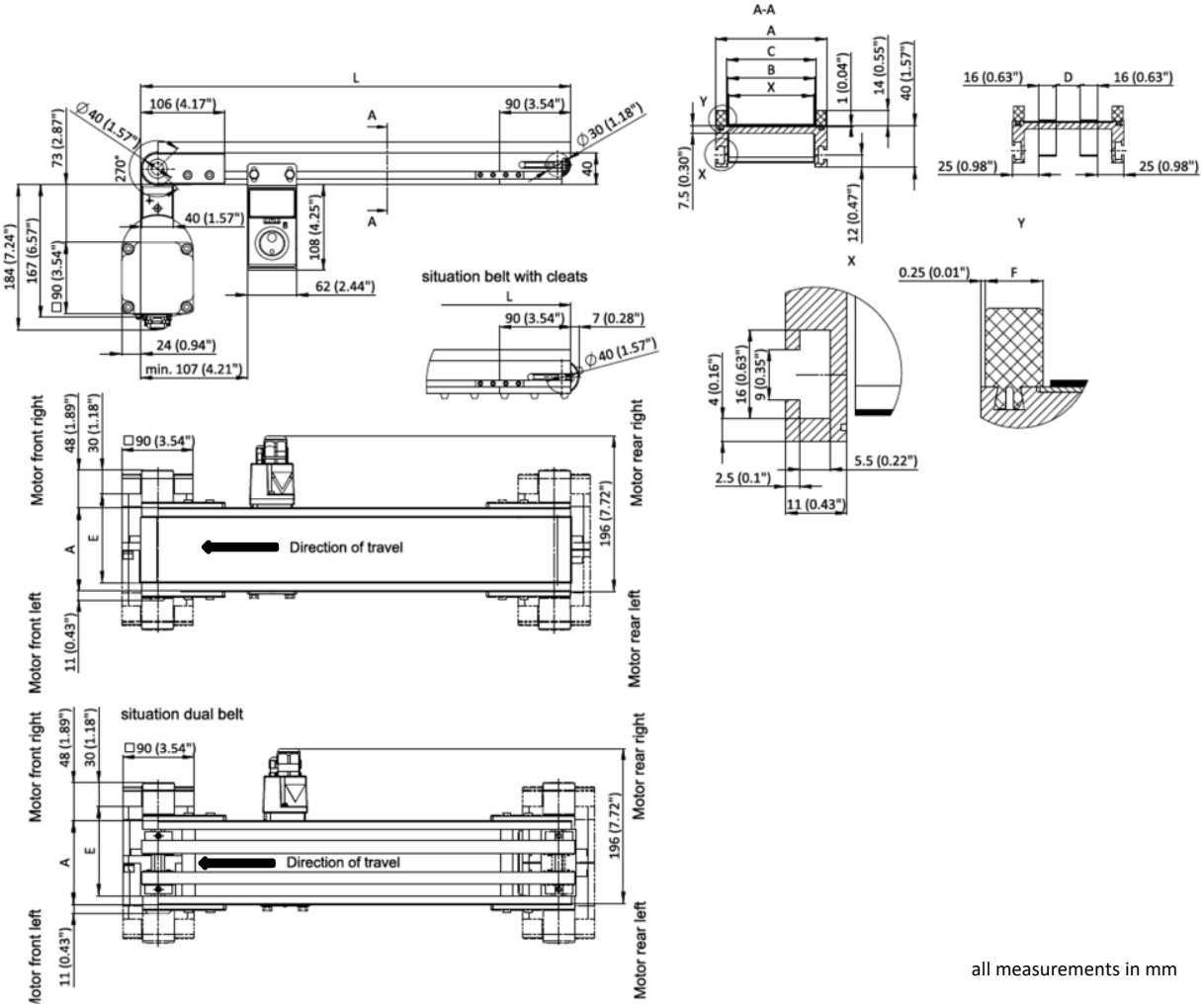
all measurements in mm

Conveyor TB30 with end drive is available as version front right, front left, rear right or rear left as well as single or dual belt conveyor (from size 105)

Type	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	45 mm (1.77“)	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13”)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (± 0.02“) [i]	0-23 mm (0-0.91“)	0-38 mm (0-1.5“)	8-58 mm (0.31-2.28“)	33-83 mm (1.3-3.27“)	68-118 mm (2.68-4.65“)	113-163 mm (4.45-6.42“)	178-228 mm (7.01-8.98“)
C gliding plate	-	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
D belt distance	-	-	-	23 mm (0.91“)	58 mm (2.28“)	103 mm (4.06“)	168 mm (6.61“)
X belt width [ii]	15 mm (0.59“)	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
E motor	gear reduction ratio 10/15: 30:				108 mm (4.25“) 121 mm (4.76“)		
F lateral guide width	depends on conveying width B						
L total length [iii]	L_{min}=300 mm (11.81“); with lateral guide adjustable L_{min}+40 mm (1.57“) L_{max}=7,000 mm (275.59“)						

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24450.
[ii] Only for single belt. Belt width for dual belt version is always 2x 16 mm (2x0.63“)
[iii] The total length is reduced depending on load, type of belt or conveying mode.

DIMENSION DRAWING CONVEYOR TB30/KS SINGLE BELT/DUAL BELT BRUSHLESS DC-MOTOR

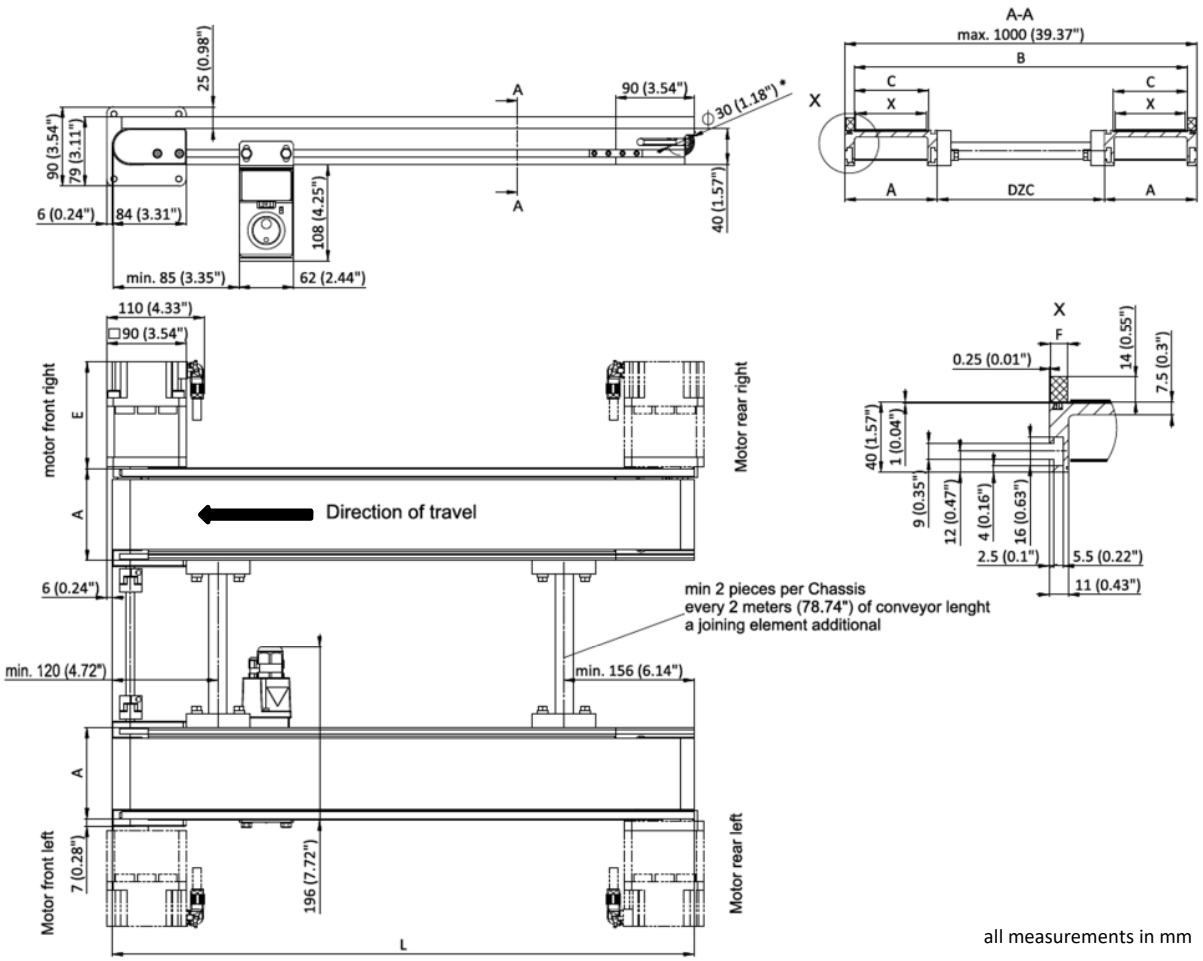


Conveyor TB30 with end drive pivotable is available as version front right, front left, rear right or rear left as well as single or dual belt conveyor (from the size 105)

Type	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	45 mm (1.77“)	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (± 0.02“) [i]	0-23 mm (0-0.91“)	0-38 mm (0-1.5“)	8-58 mm (0.31-2.28“)	33-83 mm (1.3-3.27“)	68-118 mm (2.68-4.65“)	113-163 mm (4.45-6.42“)	178-228 mm (7.01-8.98“)
C gliding plate	-	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
D belt distance	-	-	-	23 mm (0.91“)	58 mm (2.28“)	103 mm (4.06“)	168 mm (6.61“)
X belt width [ii]	15 mm (0.59“)	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
E motor	gear reduction ratio 10/15:				112 mm (4.41“)		
	30:				125 mm (4.92“)		
F lateral guide width	depends on conveying width B						
L total length [iii]	L_{min}=300 mm (11.81“); with lateral guide adjustable L_{min}+40 mm (1.57“) L_{max}=7,000 mm (275.59“)						

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24450.
[ii] Only for single belt. Belt width for dual belt version is always 2x 16 mm (2x0.63“)
[iii] The total length is reduced depending on load, type of belt or conveying mode.

DIMENSION DRAWING CONVEYOR TB30/K TANDEM BRUSHLESS DC-MOTOR

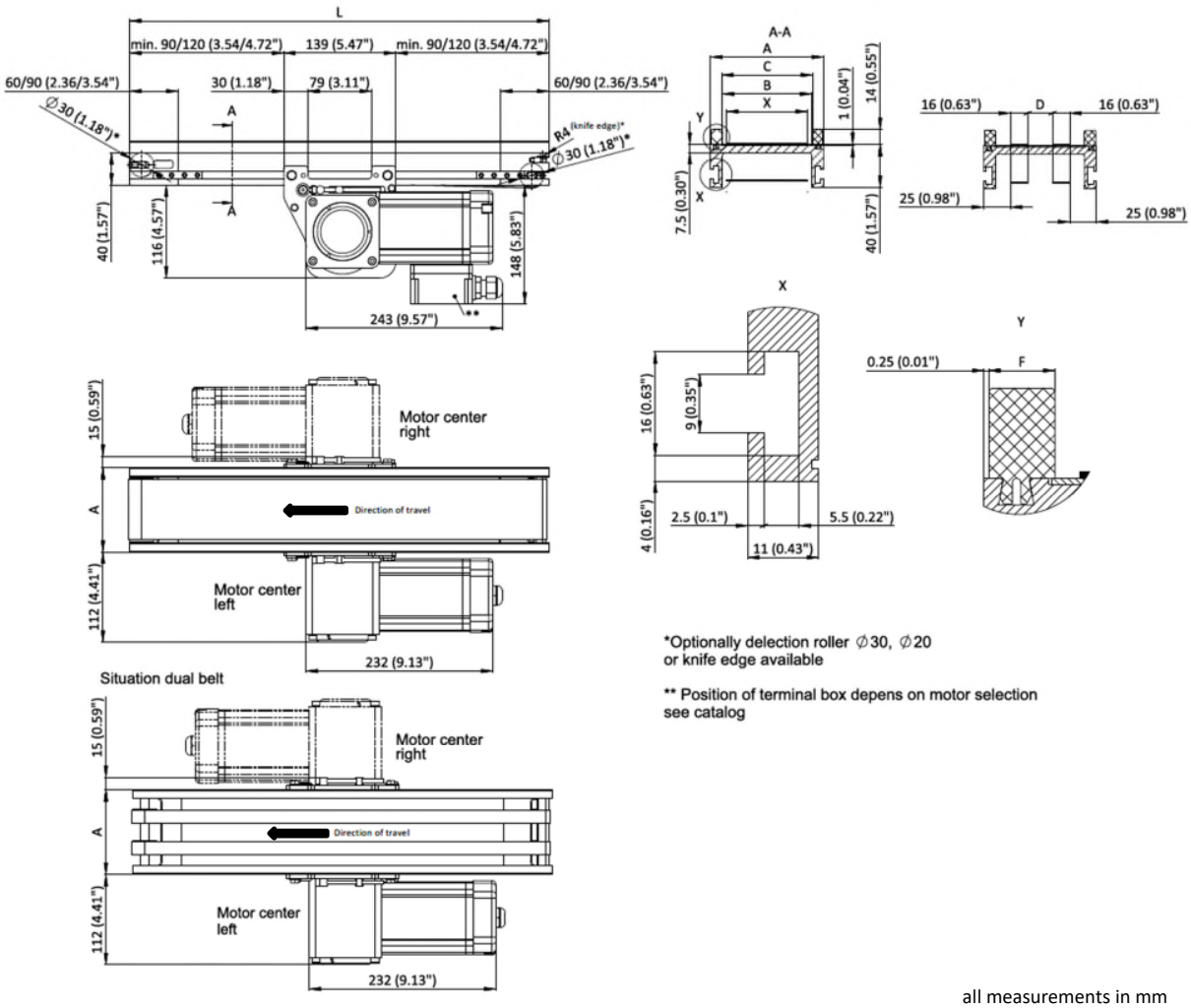


all measurements in mm

Typ	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (± 0.02“) [i]	178-978 mm (7.01-38.5“)	218-978 mm (8.58-38.5“)	268-978 mm (10.55-38.5“)	338-978 mm (13.31-38.5“)	428-978 mm (16.85-38.5“)	558-978 mm (21.97-38.5“)
C gliding plate	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X belt width	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
E motor	gear reduction ratio 10/15:			108 mm (4.25“)		
	30:			121 mm (4.76“)		
F lateral guide width	by default 10.75 mm (0.42“) (lateral guide fixed)					
DZC chassis distance	minimal distance			80 mm (3.15“)		
	lateral guide fixed			B-2 mm (0.08“) x A+22 mm (0.87“)		
	lateral guide adjustable Typ A			B-2 mm (0.08“) x A+3 mm (0.12“)		
	lateral guide adjustable Typ B			B-2 mm (0.08“) x A+10 mm (0.39“)		
	lateral guide adjustable Typ C			B-2 mm (0.08“) x A+8 mm (0.31“)		
L total length [ii]	L_{min}=353 mm (13.9“); with lateral guide adjustable L_{min}+40 mm (1.57“) L_{max}=7,000 mm (275.59“)					

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.
[ii] The total length is reduced depending on load, type of belt or conveying mode.

DIMENSION DRAWING CONVEYOR TB30/M THREE-PHASE MOTOR



all measurements in mm

[1] 60 mm (2.36“) for end section with deflection roller or knife edge / 90 mm (3.54“) for end section with tension roller (more tension path)

[2] 90 mm (3.54“) for end section with deflection roller or knife edge / 120 mm (4.72“) for end section with tension roller (more tension path)

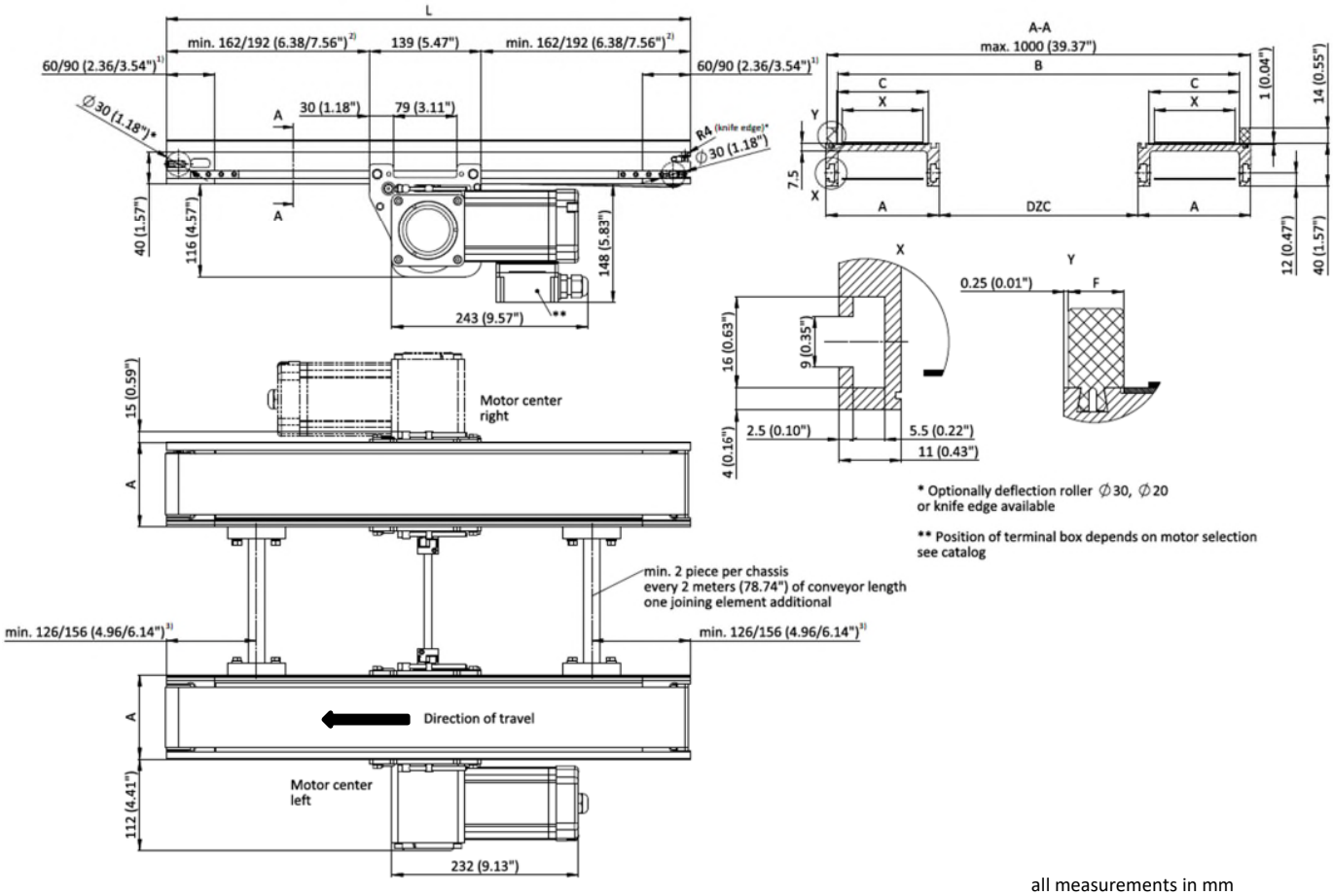
Typ	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	45 mm (1.77“)	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (±0.02“) [i]	0-23 mm (0-0.91“)	0-38 mm (0-1.5“)	8-58 mm (0.31-2.28“)	33-83 mm (1.3-3.27“)	68-118 mm (2.68-4.65“)	113-163 mm (4.45-6.42“)	178-228 mm (7.01-8.98“)
C gliding plate	-	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X belt width [ii]	15 mm (0.59“)	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
D belt distance	-	-	-	23 mm (0.91“)	58 mm (2.28“)	103 mm (4.06“)	168 mm (6.61“)
F lateral guide width	depends on conveying width B						
L total length [iii]	L_{min}=368 mm (14.49“); L_{max}=10,000 mm (393.7“)						

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.

[ii] Only for single belt. Belt width for dual belt version is always 2x16 mm (2x0.63“)

[iii] The total length is reduced depending on load, type of belt or conveying mode

DIMENSION DRAWING CONVEYOR TB30/M TANDEM THREE-PHASE MOTOR



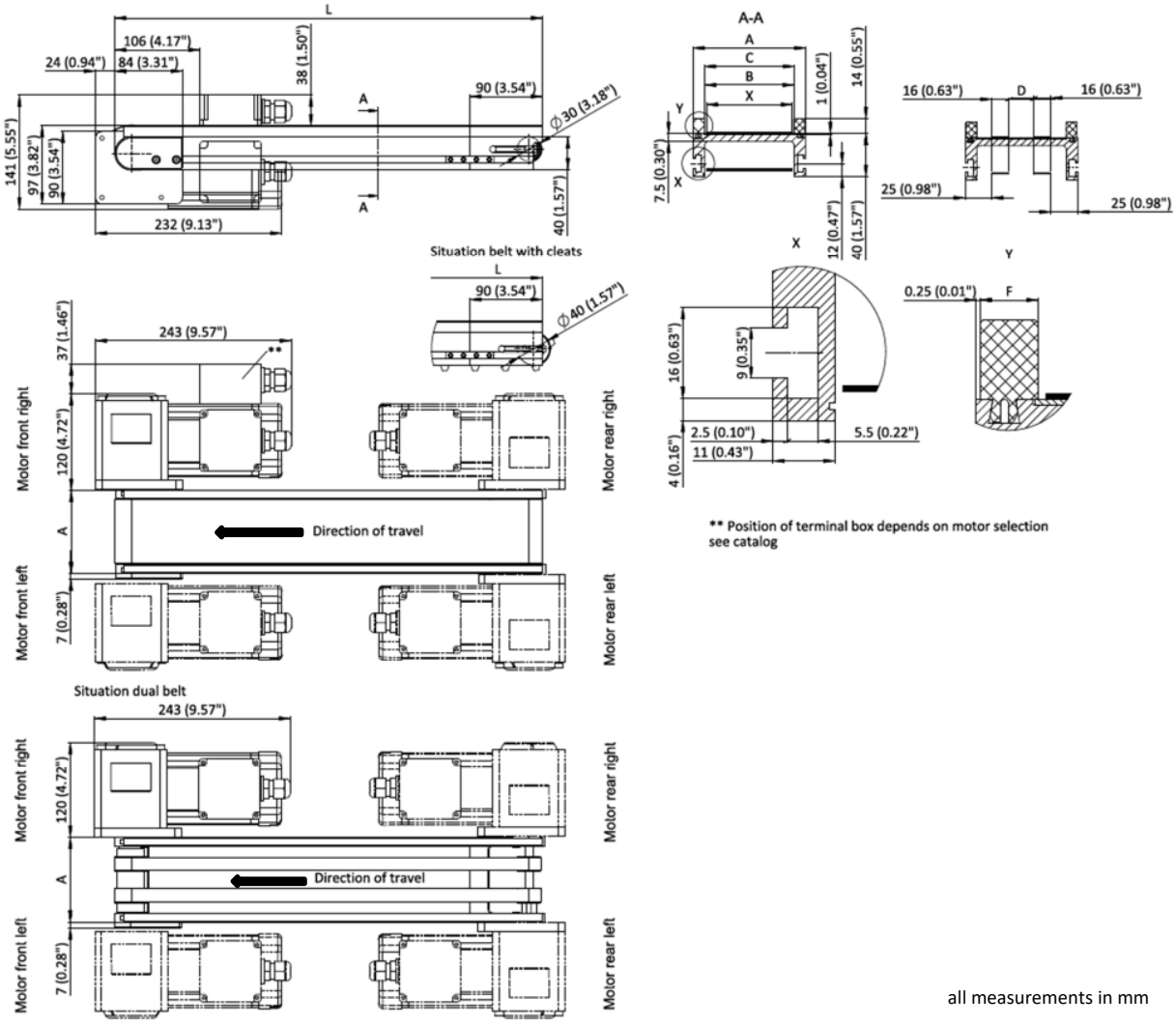
all measurements in mm

1) 60 mm (2.36“) for end section with deflection roller or knife edge / 90 mm (3.54“) for end section with tension roller (more tension path)
2) 162 mm (6.38“) for end section with deflection roller or knife edge / 192 mm (7.56“) for end section with tension roller (more tension path)
3) 126 mm (4.96“) for end section with deflection roller or knife edge / 156 mm (6.14“) for end section with tension roller (more tension path)

Typ	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (±0.02“) i)	178-978 mm (7.01-38.5“)	218-978 mm (8.58-38.5“)	268-978 mm (10.55-38.5“)	338-978 mm (13.31-38.5“)	428-978 mm (16.85-38.5“)	558-978 mm (21.97-38.5“)
C gliding plate	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X belt width	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
F lateral guide width	by default 10.75 mm (0.42“) (lateral guide fixed)					
DZC chassis distance	minimal distance lateral guide fixed lateral guide adjustable Typ A lateral guide adjustable Typ B lateral guide adjustable Typ C			80 mm (3.15“) B-2 mm (0.08“) x A+22 mm (0.87“) B-2 mm (0.08“) x A+3 mm (0.12“) B-2 mm (0.08“) x A+10 mm (0.39“) B-2 mm (0.08“) x A+8 mm (0.31“)		
L total length ii)	L_{min}=469 mm (18.46“); with lateral guide adjustable L_{min}+40 mm (1.57“) L_{max}=10,000 mm (393.7“)					

i) Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.
ii) The total length is reduced depending on load, type of belt or conveying mode

DIMENSION DRAWING CONVEYOR TB30/K THREE-PHASE MOTOR



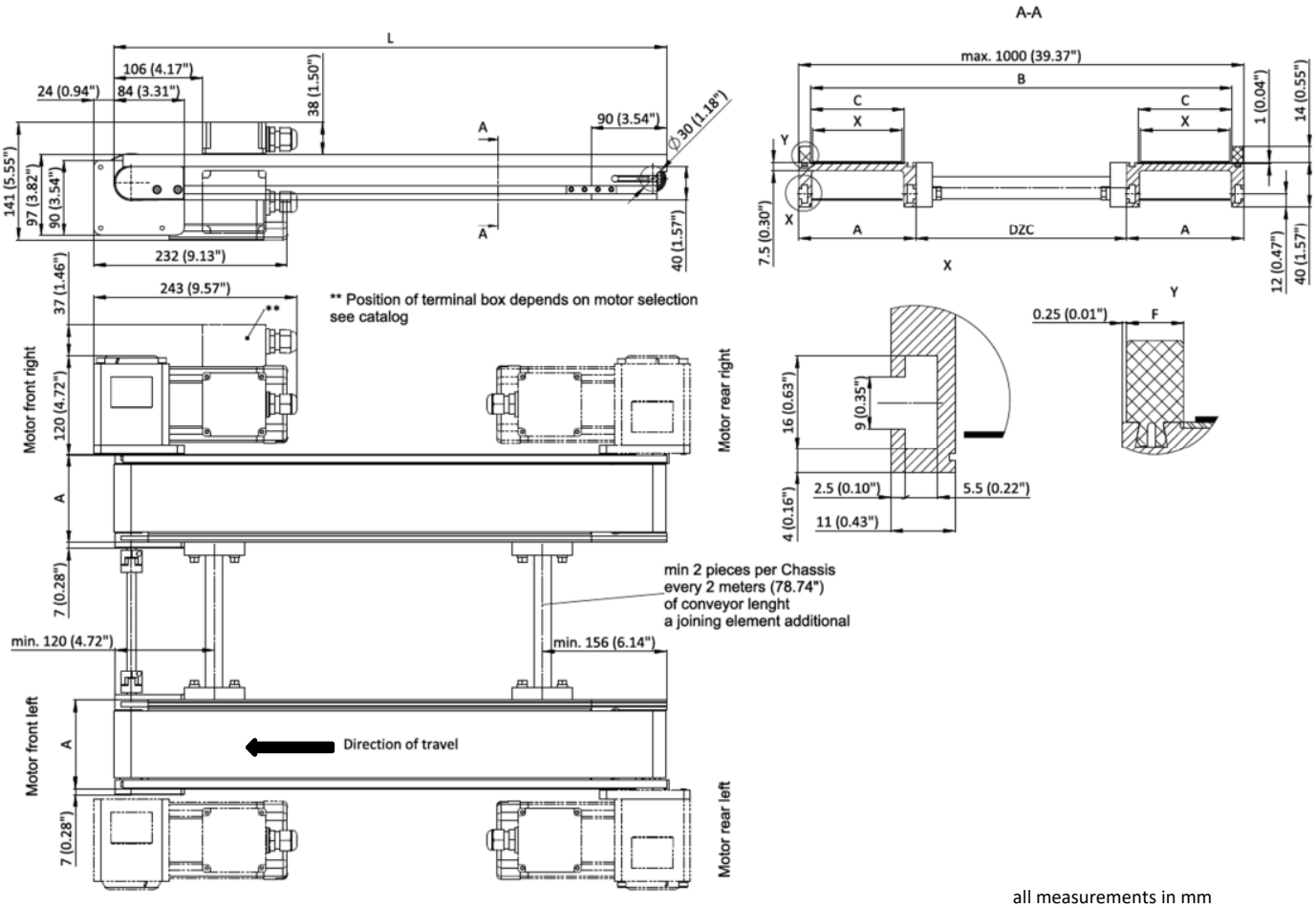
all measurements in mm

Conveyor TB30 with end drive is available as version front right, front left, rear right or rear left as well as single or dual belt conveyor (from size TB30-105)

Typ	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	45 mm (1.77“)	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (±0.02“) [i]	0-23 mm (0-0.91“)	0-38 mm (0-1.5“)	8-58 mm (0.31-2.28“)	33-83 mm (1.3-3.27“)	68-118 mm (2.68-4.65“)	113-163 mm (4.45-6.42“)	178-228 mm (7.01-8.98“)
C gliding plate	-	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X belt width [ii]	15 mm (0.59“)	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.95“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
D belt distance	-	-	-	23 mm (0.91“)	58 mm (2.28“)	103 mm (4.06“)	168 mm (6.61“)
F lateral guide width	depends on conveying width B						
L total length [iii]	L_{min}=300 mm (11.81“); L_{max}=7,000 mm (275.59“)						

[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.
[ii] Only for single belt. Belt width for dual belt version is always 2x16 mm (2x0.63“)
[iii] The total length is reduced depending on load, type of belt or conveying mode

DIMENSION DRAWING CONVEYOR TB30/K TANDEM THREE-PHASE MOTOR



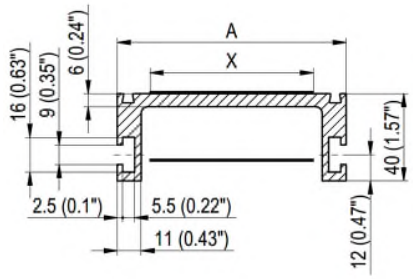
all measurements in mm

Type	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B conveying width ±0.5 mm (±0.02“) [i]	178-978 mm (7.01-38.5“)	218-978 mm (8.58-38.5“)	268-978 mm (10.55-38.5“)	338-978 mm (13.31-38.5“)	428-978 mm (16.85-38.5“)	558-978 mm (21.97-38.5“)
C gliding plate	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X belt width	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.65“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
F lateral guide width	by default 10.75 mm (0.42“) (lateral guide fixed)					
DZC chassis distance	minimal distance lateral guide fixed lateral guide adjustable Typ A lateral guide adjustable Typ B lateral guide adjustable Typ C			80 mm (3.15“) B-2 mm (0.08“) x A+22 mm (0.87“) B-2 mm (0.08“) x A+3 mm (0.12“) B-2 mm (0.08“) x A+10 mm (0.39“) B-2 mm (0.08“) x A+8 mm (0.31“)		
L total length [ii]	L_{min}=353 mm (18.46“); with lateral guide adjustable L_{min}+40 mm (1.57“) L_{max}=7,000 mm (275.59“)					

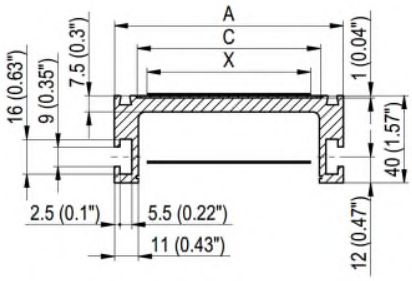
[i] Conveying width for conveyors with lateral guide fixed. Information about conveying width with lateral guide adjustable on page 24.
[ii] The total length is reduced depending on load, type of belt or conveying mode.

BUILDUP / CROSS SECTION CONVEYOR TB30

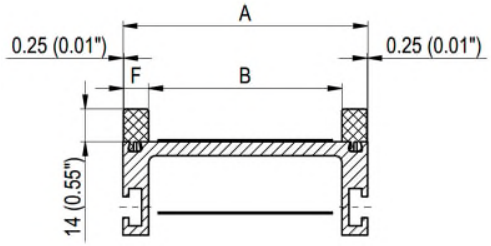
Chassis without gliding plate



Chassis with gliding plate

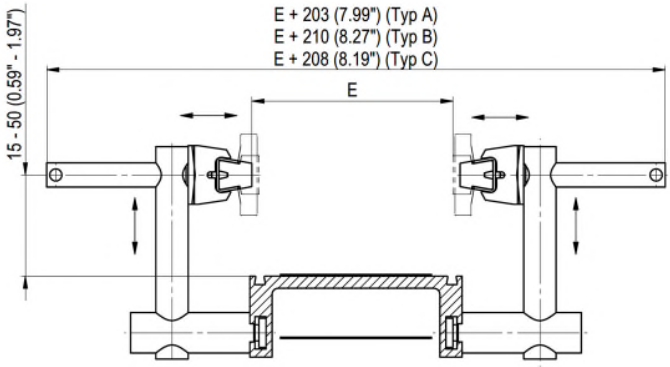


Lateral guide fixed (width is adjusted to the product)



Lateral guide adjustable

(different versions selectable)

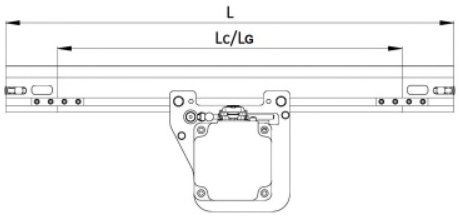


Type	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A Chassis width	45 mm (1.77“)	60 mm (2.36“)	80 mm (3.15“)	105 mm (4.13“)	140 mm (5.51“)	185 mm (7.28“)	250 mm (9.84“)
B Conveyor width ± 0.5 (Lateral guide fixed)	0-23 mm (0-0.91“)	0-38 mm (0-1.5“)	8-58 mm (0.31-2.28“)	33-83 mm (1.3-3.27“)	68-118 mm (2.68-4.65“)	113-163 mm (4.45-6.42“)	178-228 mm (7.01-8.98“)
C gliding plate	-	39 mm (1.54“)	59 mm (2.32“)	84 mm (3.31“)	119 mm (4.69“)	164 mm (6.46“)	229 mm (9.02“)
X Belt width	15 mm (0.59“)	30 mm (1.18“)	50 mm (1.97“)	75 mm (2.95“)	110 mm (4.33“)	155 mm (6.1“)	220 mm (8.66“)
F lateral guide width	depends on conveying width B						
E Conveyor width (Adjustable lateral guides type A)	0–42 mm (0”-1.65“)	0-57 mm (0”-2.24“)	0-77 mm (0”-3.03“)	12-102 mm (0.47”-4.02“)	47-137 mm (1.85”-5.4“)	92-182 mm (3.62”-7.17“)	157-247 mm (6.18”-9.72“)
E Conveyor width (Adjustable lateral guides type B)	0-35 mm (0”-1.38“)	0-50 mm (0”-1.97“)	0-70 mm (0”-2.76“)	5-95 mm (0.2”-3.74“)	40-130 mm (1.57”-5.12“)	85-175 mm (3.35”-6.89“)	150-240 mm (5.91”-9.45“)
E Conveyor width (Adjustable lateral guides type C)	0-37 mm (0”-1.46“)	0-52 mm (0”-2.05“)	0-72 mm (0”-2.83“)	7-97 mm (0.28”-3.82“)	42-132 mm (1.65”-5.2“)	87-177 mm (3.43”-6.97“)	152-242 mm (5.98”-9.53“)

CALCULATIONS

CONVEYOR TB30/M



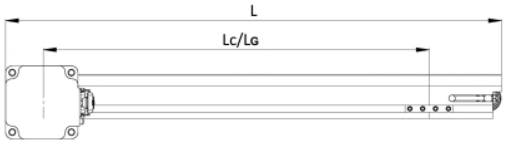


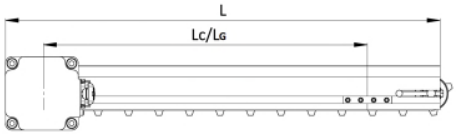
Chassis length	2 End sections with deflection roller Ø30 / Ø20	L_C=L-120
	2 End sections with tension roller Ø30	L_C=L-180
	1 End section with deflection roller Ø30 / Ø20 and 1 End section with tension roller Ø30	L_C=L-150
	2 End sections with knife edge R4	L_C=L-120
	1 End section with knife edge R4 and 1 End section with deflection roller Ø30 / Ø20	L_C=L-120
	1 End section with knife edge R4 and 1 End section with tension roller Ø30	L_C=L-150
Gliding plate length		L_G=L_C-1

CONVEYOR TB30/K

with cleated belt





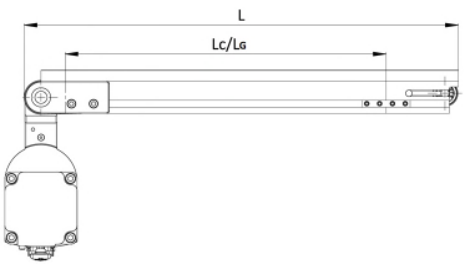


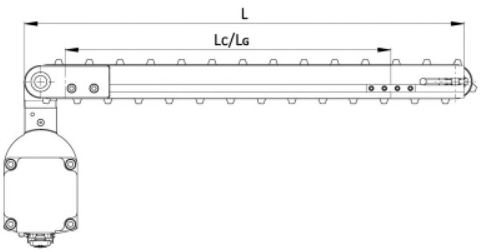
Chassis length	End section with tension roller Ø30 (without cleats)	L_C=L-131
	End section with tension roller Ø40 (with cleats)	L_C=L-138
Gliding plate length		L_G=L_C-1

CONVEYOR TB30/KS

with cleated belt







Chassis length	End section with tension roller Ø30 (without cleats)	L_C=L-141
	End section with tension roller Ø40 (with cleats)	L_C=L-141
Gliding plate length		L_G=L_C-1

BELT TYPES

PRICE CLASS 0: BEST PRICE

Manufacturer's designation			XVT-2304 (possible alternative for FNB-5E+H15)	FNI-5EMWT-W2 (possible alternative for FNI-5EIWH-P1/FNI-5E)	FAB-2E+H15	NAB-8EEDV 11
Belt-code			75	64	74	59
Thickness			1.5 mm (0.06")	1.1 mm (0.04")	0.7 mm (0.03")	2.1 mm (0.08")
Mass		kg/m² (lb/sqft)	1.7 (0.35)	1.0 (0.2)	0.7 (0.03)	2.4 mm (0.09")
Min. drum diameter			20 mm (0.79")	15 mm (0.6")	15 mm (0.6")	30 mm (1.18")
Edge radius			R4 mm (R0.16")	R2 mm (R0.08")	R4 mm (R0.16")	-
$k_{1\%}$ after relaxation		N/mm (lbf/in)	6 (34)	5 (28.5)	2.6 (15)	6 (34)
$k_{perm.}$		N/mm (lbf/in)	15 (86)	13 (74)	6.5 (37)	15 (86)
Operating temp., cont.			-30/80 °C (-22/176 °F)	-10/90 °C (14/194 °F)	-30/80 °C (-22/176 °F)	-10/70 °C (14/158 °F)
Field of use			L	L	L	L, Ch, Ph
Method of transportation	horizontal		yes	yes	yes	yes
	buffering		yes	yes	no	no
	rejection of goods		yes	yes	no	yes
	inclined		no	yes	yes	yes
Surface of conveying side			smooth	impregnated fabric	smooth	smooth
Color of conveying side			white	white	white	dark green
Antistatic			yes	yes	yes	yes
Suitable for food			EU/FDA	EU/FDA	FDA	no
Suitable for knife edge			yes	yes	yes	no
Suitable for cleats			yes	no	no	yes

COEFFICIENT OF FRICTION

Coefficient of friction workpiece on belt (transport surface) (The values listed below serve as guideline values)					
		XVT-2304	FNI-5EMWT-W2	FAB-2E+H15	NAB-8EEDV 11
Workpiece of steel	[μ_G]	0.6	0.4	0.75	2

Legend:

$k_{1\%}$	Required force for 1% elongation
$k_{perm.}$	Maximum permissible force
L	Food
Ch	Chemistry
Ho	High-performance belt, heat-resistant, high mechanical and chemical resistance
Mo	Mounting systems, general
El	Electronics industry (electrically conductive)
Ph	Pharmaceuticals
Oe	Effect of oil and grease
EU	Complies with European food regulations*
FDA	Complies with US-American food regulations (Food and Drug Administration)*
USDA	USD certified for compliance with NSF/ANSI/3-A 14159-3 standard for Meat and Poultry Processing

* For detailed information refer to the belt's data sheet.

PRICE CLASS 1: STANDARD

Manufacturer's designation			FNB-5E+H15	FNI-5EIWH-P1 (FNI-5E)	HNB-5E 14
Belt-code			73	12	20
Thickness			1.3 mm (0.05")	0.95 mm (0.04")	1.3 mm (0.05")
Mass		kg/m² (lb/sqft)	1.4 (0.29)	0.85 (0.17)	1.5 (0.31)
Min. drum diameter			15 mm (0.6")	15 mm (0.6")	15 mm (0.6")
Edge radius			R4 mm (R0.16")	R4 mm (R0.16")	R4 mm (R0.16")
$k_{1\%}$ after relaxation		N/mm (lbf/in)	4.8 (27)	4.6 (26)	4.8 (27)
$k_{perm.}$		N/mm (lbf/in)	11 (63)	11 (63)	11 (63)
Operating temp., cont.			-15/80 °C (5/176 °F)	-40/110 °C (-40/230 °F)	-20/90 °C (-4/194 °F)
Field of use			L	L	L, Ch, Ph, Mo, Oe
Method of transportation	horizontal		yes	yes	yes
	buffering		yes	yes	yes
	rejection of goods		yes	yes	yes
	inclined		no	no	yes
Surface of conveying side			smooth	impregnated fabric	smooth
Color of conveying side			white	white	green
Antistatic			yes	yes	yes
Suitable for food			USDA	EU/FDA	EU/FDA
Suitable for knife edge			yes	yes	yes
Suitable for cleats			yes	no	yes

COEFFICIENT OF FRICTION

Coefficient of friction workpiece on belt (transport surface) (The values listed below serve as guideline values)				
		FNB-5E+H15	FNI-5EIWH-P1	HNB-5E 14
Workpiece of steel	[μ_G]	0.35	0.25	0.45

Legend:

$k_{1\%}$	Required force for 1% elongation
$k_{perm.}$	Maximum permissible force
L	Food
Ch	Chemistry
Ho	High-performance belt, heat-resistant, high mechanical and chemical resistance
Mo	Mounting systems, general
El	Electronics industry (electrically conductive)
Ph	Pharmaceuticals
Oe	Effect of oil and grease
EU	Complies with European food regulations*
FDA	Complies with US-American food regulations (Food and Drug Administration)*
USDA	USD certified for compliance with NSF/ANSI/3-A 14159-3 standard for Meat and Poultry Processing

* For detailed information refer to the belt's data sheet.

PRICE CLASS 2: HIGH CLASS

Manufacturer's designation			ENI-5EE	HAT-5E 15
Belt-code			15	21
Thickness			1.2 mm (0.05")	1.5 mm (0.06")
Mass		kg/m² (lb/sqft)	1.2 (0.24)	1.8 (0.37)
Min. drum diameter			20 mm (0.79")	25 mm (0.98")
Edge radius			R4 mm (R0.16")	-
$k_{1\%}$ after relaxation		N/mm (lbf/in)	4.2 (24)	4.8 (27)
$k_{perm.}$		N/mm (lbf/in)	11 (63)	12 (69)
Operating temp., cont.			-30/80 °C (-22/176 °F)	0/80 °C (32/176 °F)
Field of use			Mo, El	Ho
Method of transportation	horizontal		yes	yes
	buffering		yes	no
	rejection of goods		yes	no
	inclined		yes[2)]	yes[3)]
Surface of conveying side			impregnated fabric	structured
Color of conveying side			black	green
Antistatic			yes	yes
Suitable for food			no	no
Suitable for knife edge			yes	no
Suitable for cleats			no	no

[1)] Not to be used for conveyor widths 185 and 250

[2)] up to 8°, product-specific

[3)] up to 30°, product-specific

COEFFICIENT OF FRICTION

Coefficient of friction workpiece on belt (transport surface) (The values listed below serve as guideline values)			
		ENI-5EE	HAT-5E
Workpiece of steel	[μ_G]	0.25	1

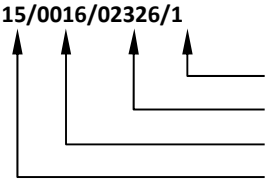
Legend:

$k_{1\%}$	Required force for 1% elongation
$k_{perm.}$	Maximum permissible force
L	Food
Ch	Chemistry
Ho	High-performance belt, heat-resistant, high mechanical and chemical resistance
Mo	Mounting systems, general
El	Electronics industry (electrically conductive)
Ph	Pharmaceuticals
Oe	Effect of oil and grease
EU	Complies with European food regulations*
FDA	Complies with US-American food regulations (Food and Drug Administration)*
USDA	USD certified for compliance with NSF/ANSI/3-A 14159-3 standard for Meat and Poultry Processing

* For detailed information refer to the belt's data sheet.

LIST OF BELT CODES

Structure of our code: **15/0016/02326/1**



Connection code (see list below)
Belt length (always 5-digit)
Belt width (always 4-digit)
Belt number (see list below)

No.	Belt designation	Connection code
73	FNB-5E+H15	1 / 3 / 4
74	FAB-2E+H15	1 / 3 / 4
12	FNI-5EIWH-P1	1 / 3 / 4
15	ENI-5EE	1 / 3 / 4
20	HNB-5E 14	1 / 3 / 4
21	HAT-5E	1 / 3 / 4
59	NAB-8EEDV 11	1 / 3 / 4
64	FNI-5EMWT-W2	1 / 4
75	XVT-2304	1 / 4

Connection code 1 = endless flexproof
Connection code 3 = open beveled
Connection code 4 = cut square

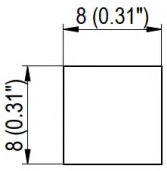
For replacement belts you find the needed information on the identification plate of the Conveyor TB30 (type of belt, width and length).

CLEATED BELTS

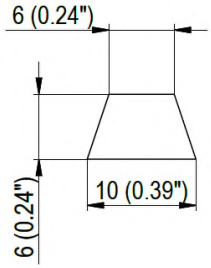
Conveyors with end drive can optionally be equipped with cleated belts. The cleats can be chosen in different widths, adapted to the customer's needs. Different shapes are available to the client. The number of cleats on the conveyor belt can be chosen freely respecting the minimal distance between the cleats. Refer to page 31 for further details.

CLEATS FOR CONVEYOR TB30[1)]

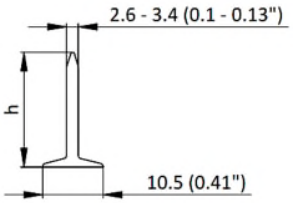
Manufacturer's designation	E-PQ08-SA	E-PQ08-SD	E-PQ08-FG	E-PQ08-FW
Color	anthracite	dark green	green	white
Suitable for belt type	NAB-8EEDV 11		XVT-2304 FNB-5E+H15 HNB-5E 14	
Min. cleat spacing A [8)] [mm]	20 (0.79")			



Manufacturer's designation	E-PV10-SA	E-PV10-SD	E-PV10-FG	E-PV10-FW
Color	anthracite	dark green	green	white
Suitable for belt type	NAB-8EEDV 11		XVT-2304 FNB-5E+H15 HNB-5E 14	
Min. cleat spacing A [8)] [mm]	24 (0.94")			



Manufacturer's designation	E-PN..-FW	E-PN..-FG	E-PN..-FD
Color	white	green	dark green
Suitable for belt type	HNB-5E-14 XVT-2304 FNB-5E+H15 FMB-5EMWT-W2		
Min. cleat spacing A [2)]	25 mm (0.98")		
Cleat height h	20 mm (0.79") (E-PN20-FW) 30 mm (1.18") (E-PN30-FW) 40 mm (1.57") (E-PN40-FW) 60 mm (2.36") (E-PN60-FW)	20 mm (0.79") (E-PN20-FG) 30 mm (1.18") (E-PN30-FG) 40 mm (1.57") (E-PN40-FG) 60 mm (2.36") (E-PN60-FG)	20 mm (0.79") (E-PN20-FD) 30 mm (1.18") (E-PN30-FD) 40 mm (1.57") (E-PN40-FD) 60 mm (2.36") (E-PN60-FD)



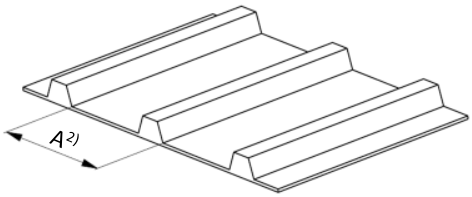
NOTE!

- For cleated belt conveyors min. deflection roller Ø40 mm (1.57").
- When using cleated belts with floor stands, floor stand 70461 must be used.
- If not noted otherwise on the order we assume the following: cleat width = belt width

Cleat spacing

$$\text{Cleat spacing A} = \frac{2 \times \text{length}^{3)}\ L + 48\ \text{mm}}{\text{number of cleats}}$$

$$\text{Number of cleats} = \frac{2 \times \text{length}^{3)}\ L + 48\ \text{mm}}{\text{cleat spacing A}}$$



[1)] Cleated belts require at least two weeks delivery time

[2)] The tolerance of the cleat spacing A is ± 2 mm (0.08")

[3)] Length L see dimension drawings pages 17 / 19 resp. 22/23

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LOAD LIMITS

To ensure that the chosen conveyor optimally fulfills the specific conditions of use, all influencing factors must be taken into account. The maximum permissible loading of a conveyor is limited by two elements:

1) Permissible belt loading ($m_{G\ perm.}$ see below)

2) Load limit of the drive. **The limits are shown in the configurator.**

1. Load limit of the belt m_G

Determination of the permissible belt load $\mathbf{m}_{G\ perm.}$ on the basis of the criterias: Type of belt, belt width X (in mm), operating mode.

Conveying mode	XVT-2304	FNI-5EMWT-W2	FNB-5E+H15	FAB-2E+H15	FNI-5EIWH-P1	HNB-5E 14	ENI-5EE	HAT-5E
Belt width (in mm/in)	Load $m_{G\ perm.}$ depending on the type of belt							
15 mm (0.59”)	37 kg (81.4 lbs)	16 kg (35.2 lbs)	37 kg (81.4 lbs)	18 kg (39.6 lbs)	30 kg (66 lbs)	37 kg (81.4 lbs)	37 kg (81.4 lbs)	37 kg (81.4 lbs)
2x16 mm (2x0.63”) (Dual belt)	79 kg (173.8 lbs)	36 kg (79.3 lbs)	79 kg (173.8 lbs)	39 kg (85.8 lbs)	65 kg (143 lbs)	79 kg (173.8 lbs)	79 kg (173.8 lbs)	79 kg (173.8 lbs)
30 mm (1.18”)	74 kg (162.8 lbs)	33 kg (72.7 lbs)	74 kg (162.8 lbs)	37 kg (81.4 lbs)	61 kg (134.2 lbs)	74 kg (162.8 lbs)	74 kg (162.8 lbs)	74 kg (162.8 lbs)
50 mm (1.97”)	124 kg (272.8 lbs)	56 kg (123.4 lbs)	124 kg (272.8 lbs)	62 kg (136.4 lbs)	101 kg (222.2 lbs)	124 kg (272.8 lbs)	124 kg (272.8 lbs)	124 kg (272.8 lbs)
75 mm (2.95”)	186 kg (409.2 lbs)	84 kg (185.1 lbs)	186 kg (409.2 lbs)	93 kg (204.6 lbs)	152 kg (334.4 lbs)	186 kg (409.2 lbs)	186 kg (409.2 lbs)	186 kg (409.2 lbs)
110 mm (4.33”)	274 kg (602.8 lbs)	124 kg (273.3 lbs)	274 kg (602.8 lbs)	137 kg (301.4 lbs)	224 kg (492.8 lbs)	274 kg (602.8 lbs)	274 kg (602.8 lbs)	274 kg (602.8 lbs)
155 mm (6.1”)	386 kg (849.2 lbs)	175 kg (385.8 lbs)	386 kg (849.2 lbs)	193 kg (424.6 lbs)	316 kg (695.2 lbs)	386 kg (849.2 lbs)	386 kg (849.2 lbs)	386 kg (849.2 lbs)
220 mm (8.66”)	548 kg (1205 lbs)	249 kg (548.9 lbs)	548 kg (1205 lbs)	274 kg (602.8 lbs)	448 kg (985.6 lbs)	548 kg (1205 lbs)	548 kg (1205 lbs)	548 kg (1205 lbs)

Buffering mode	XVT-2304	FNI-5EMWT-W2	FNB-5E+H15	FAB-2E+H15	FNI-5EIWH-P1	HNB-5E 14	ENI-5EE	HAT-5E
Belt width (in mm/in)	Load $m_{G\ perm.}$ depending on the type of belt							
15 mm (0.59”)	13 kg (28.6 lbs)	8 kg (17.6 lbs)	13 kg (28.6 lbs)	-	13 kg (28.6 lbs)	13 kg (28.6 lbs)	13 kg (28.6 lbs)	-
2x16 mm (2x0.63”) (Dual belt)	28 kg (61.6 lbs)	18 kg (39.6 lbs)	28 kg (61.6 lbs)	-	28 kg (61.6 lbs)	28 kg (61.6 lbs)	28 kg (61.6 lbs)	-
30 mm (1.18”)	26 kg (57.2 lbs)	16 kg (35.2 lbs)	26 kg (57.2 lbs)	-	26 kg (57.2 lbs)	26 kg (57.2 lbs)	26 kg (57.2 lbs)	-
50 mm (1.97”)	44 kg (96.8 lbs)	28 kg (61.7 lbs)	44 kg (96.8 lbs)	-	44 kg (96.8 lbs)	44 kg (96.8 lbs)	44 kg (96.8 lbs)	-
75 mm (2.95”)	66 kg (145.2 lbs)	42 kg (92.5 lbs)	66 kg (145.2 lbs)	-	66 kg (145.2 lbs)	66 kg (145.2 lbs)	66 kg (145.2 lbs)	-
110 mm (4.33”)	97 kg (213.4 lbs)	62 kg (136.6 lbs)	97 kg (213.4 lbs)	-	97 kg (213.4 lbs)	97 kg (213.4 lbs)	97 kg (213.4 lbs)	-
155 mm (6.1”)	137 kg (301.4 lbs)	87 kg (191.8 lbs)	137 kg (301.4 lbs)	-	137 kg (301.4 lbs)	137 kg (301.4 lbs)	137 kg (301.4 lbs)	-
220 mm (8.66”)	195 kg (429 lbs)	124 kg (273.3 lbs)	195 kg (429 lbs)	-	195 kg (429 lbs)	195 kg (429 lbs)	195 kg (429 lbs)	-

Limitations:

When using a knife edge, the load limits are reduced depending on the size and application. The limits are shown in the configurator.

PERMISSIBLE BELT LOADING

Determination of the permissible belt loading $F_{G\,perm.}$ [N] on the basis of the three criterias: Type of belt ($k_{perm.}$ in N/mm), coefficient of friction (μ_G) and belt width X (mm).

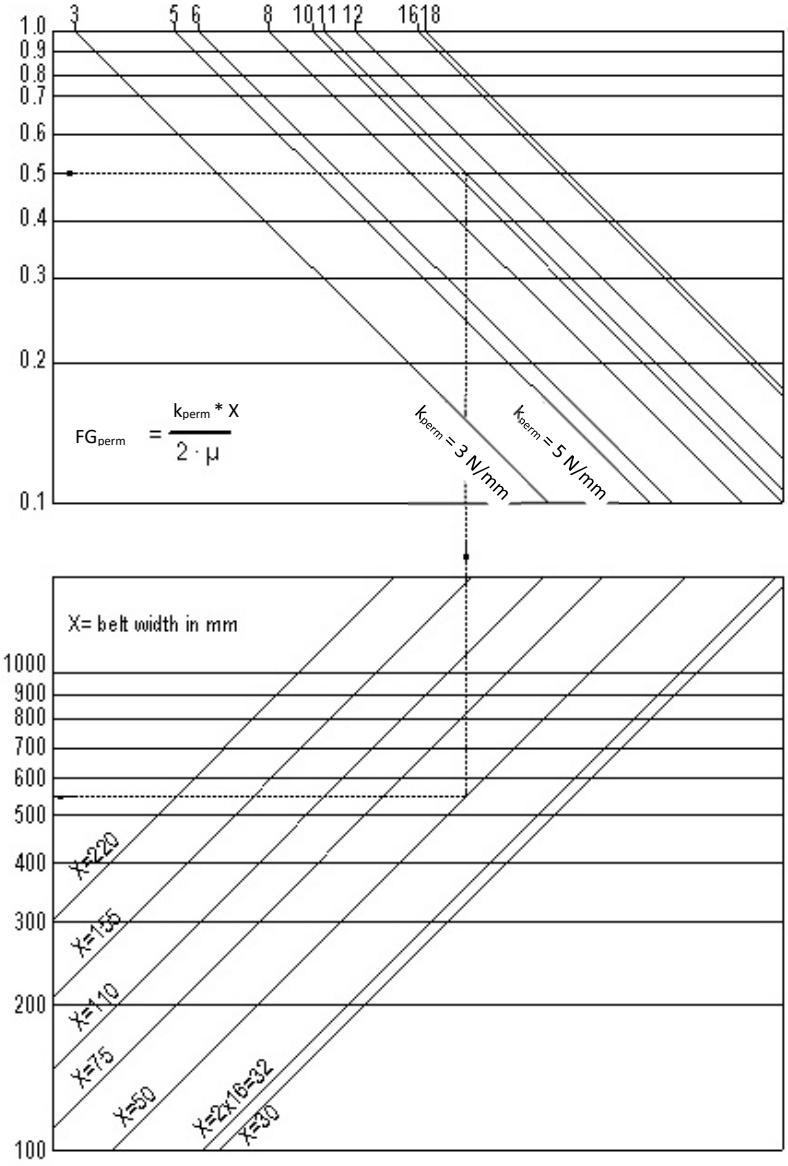
Calculation example:

The permissible loading for belt type ENI-5EE ($k_{perm.}$ =11 N/mm (63 lbf/in)) with a belt width of 50 mm (1.97") in buffering mode is:

a) From the table on pages 24 to 289 read the coefficient of friction of the corresponding belt in buffering mode = 0.5
b) From the table on pages 254 to 289 read $k_{perm.}$ for the corresponding belt
c) In the diagram below under coefficient of friction 0.5, follow the dashed line. This results in an approximate value of ca. 550 N (123.6 lbf)

Coefficient of friction μ_G	
N/mm	lbf/in
3	17
5	29
6	34
8	46
10	57
11	63
12	69
16	91
18	103

Permissible belt loading $F_{G\,perm.}$ In N (lbf)	
N	lbf
100	22.5
200	45
300	67.5
400	90
500	112.5
600	135
700	157.5
800	180
900	202.5
1000	225
mm	in
30	1.2
32	1.26
50	1.97
75	2.96
110	4.33
155	6.1
220	8.66

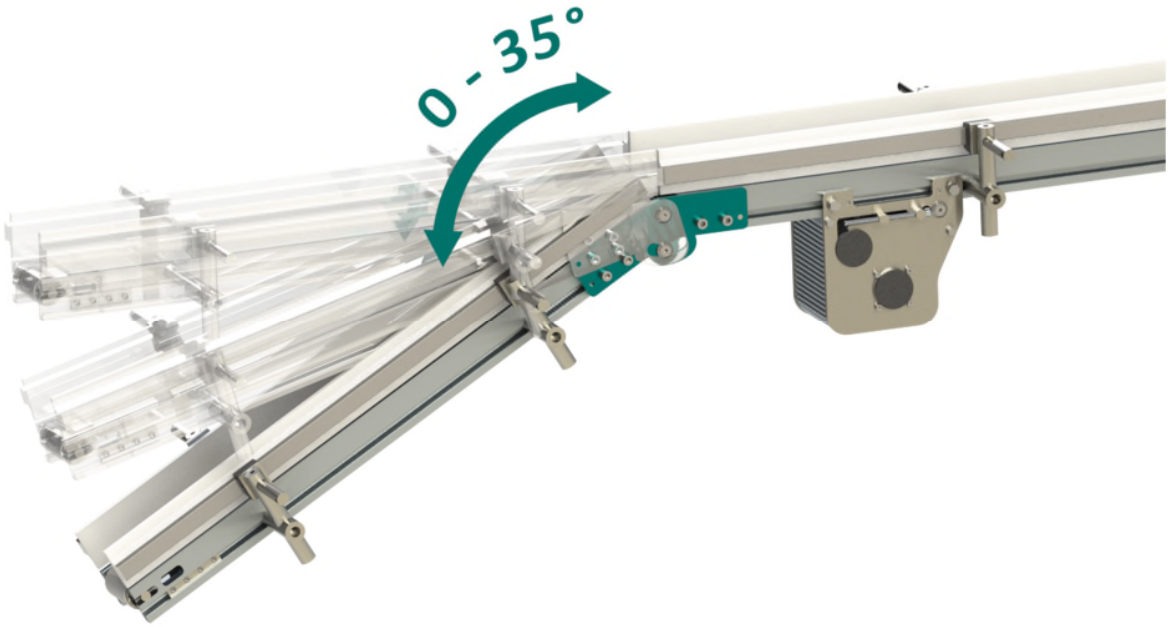


2. Load limit of the drive

	conveying speed	max. conveying load	
	v (m/min) (ft/min)	conveying mode (kg) (lbs)	buffering mode (kg) (lbs)
Center drive	-*	max. 100 kg* (220.46)	max. 50 kg* (110.23)
End drive	-*	max. 100 kg* (220.46)	max. 50 kg* (110.23)
End drive pivotable			
Gear motor i=10	1 – 25.7 (3.28 – 84.32) 1 – 38.6 (3.28 – 126.31) 1 – 51.5 (3.28 – 168.96)	36 (79.37) 27 (59.52) 11 (24.25)	9 (19.84) 7 (15.43) 3 (6.61)
Gear motor i=15	0.6 – 17.1 (1.97 – 56.10) 0.6 – 25.7 (1.97 – 84.32) 0.6 – 34.3 (1.97 – 112.53)	43 (94.80) 36 (79.37) 33 (72.75)	11 (24.25) 9 (19.84) 8 (17.64)
Gear motor i=30	0.4 – 8.5 (1.31 – 27.89) 0.4 – 12.8 (1.31 – 42.00) 0.4 – 17.1 (1.31 – 56.43)	63 (138.89) 50 (110.23) 43 (94.80)	16 (35.27) 13 (28.66) 11 (24.25)

* For detailed information please use our conveyor configurator www.montech.com
Link to the configurator:

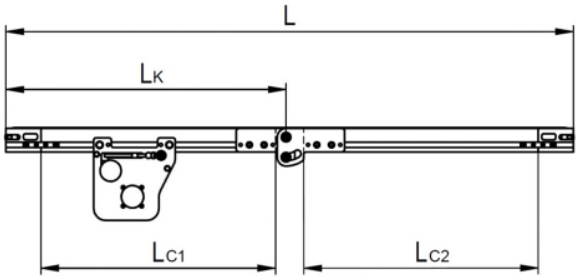
ANGLED JOINT CONVEYOR TB30



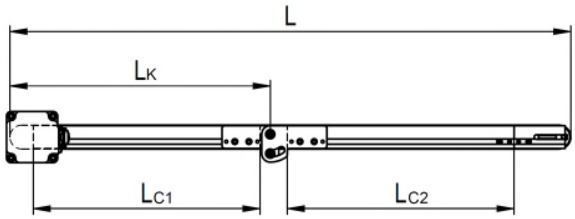
Optionally the conveyor TB30 can be equipped with an angled joint, which allows infeed and outfeed performing an inclined or declined transport. An angle up to 35° between horizontal and inclined conveyor section is possible. The angled joint is available for single belt as well as for dual belt and tandem conveyors.

ANGLED JOINT CONVEYOR TB30

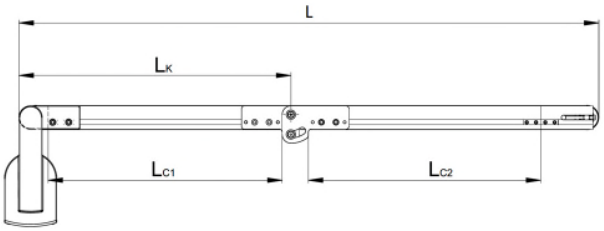
Center drive:



End drive:



End drive pivotable



L = Length of conveyor

L_K = Position of angled joint (Always measured from the belt exit)

L_{C1} = Length of chassis of conveyor section 1

L_{C2} = Length of chassis of conveyor section 2

G = Length of belt

Calculation of chassis lengths

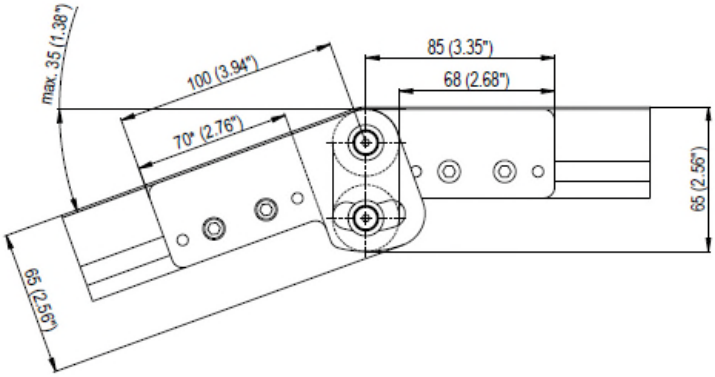
Center drive	$L_{C1} = L_K - 78$ mm (3.07”)	End drive	$L_{C1} = L_K - 59$ mm (2.32”)
	$L_{C2} = L - L_k - 90$ mm (3.54”)		$L_{C2} = L - L_k - 127$ mm (5”)
End drive pivotable	$L_{C1} = L_K - 65$ mm (2.56”)		
	$L_{C2} = L - L_K - 130$mm (5.12”)		

Calculation of the gliding plates

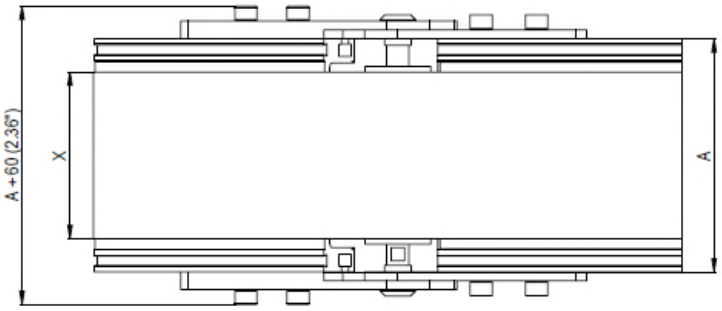
$L_{G1} = L_{C1} - 1$ mm (0.04”)

$L_{G2} = L_{C2} - 1$ mm (0.04”)

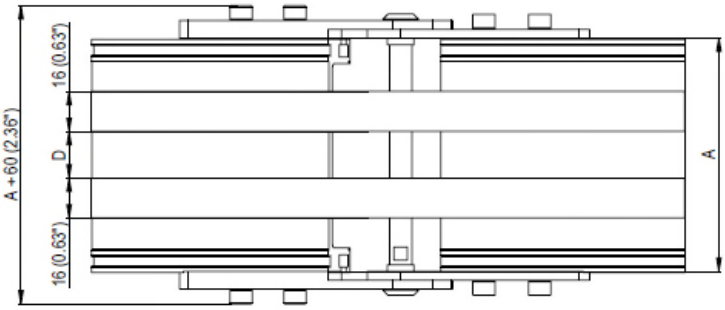
DIMENSION DRAWING ANGLED JOINT



Single belt



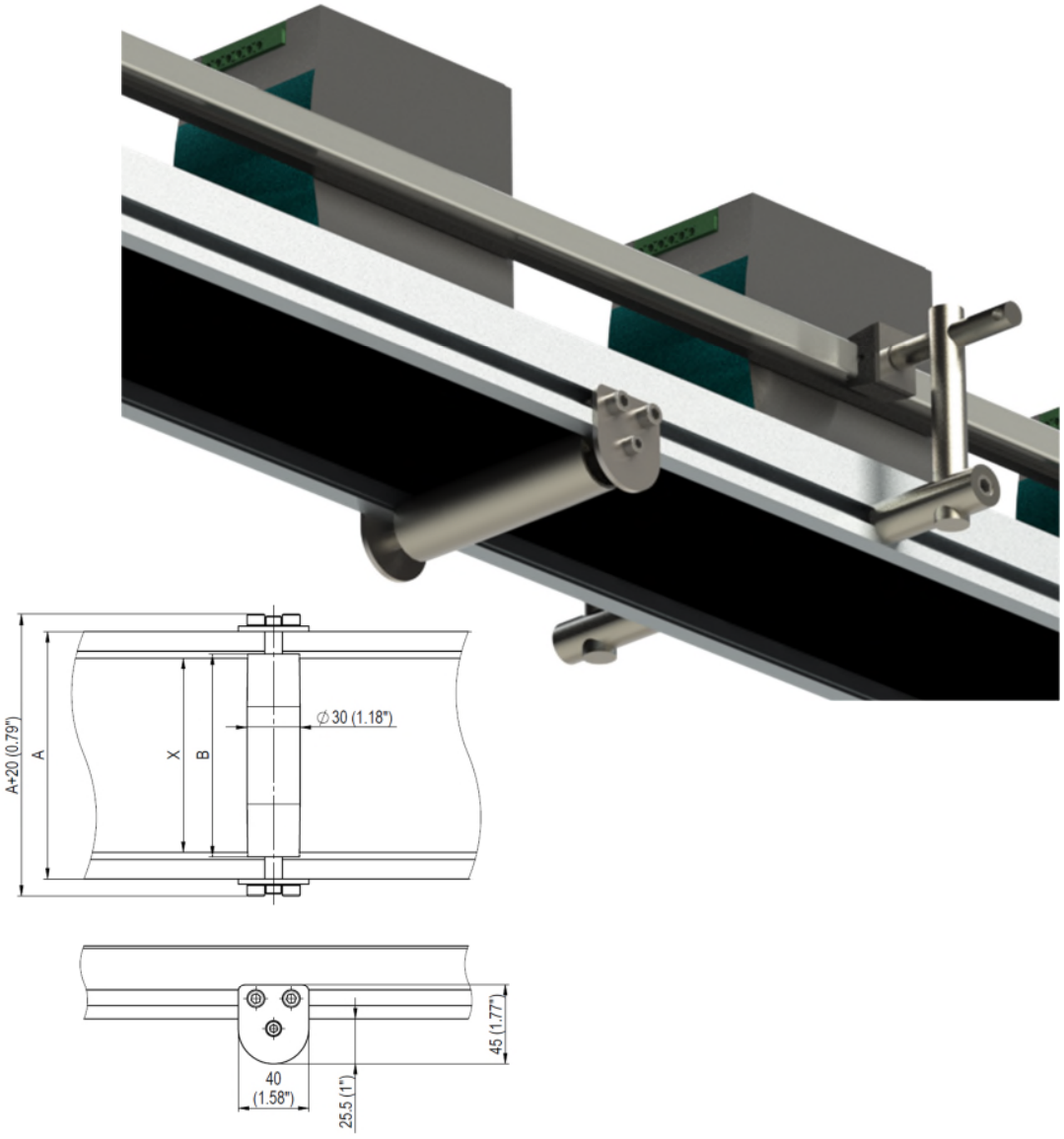
Dual belt



Typ	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis	45 mm (1.77")	60 mm (2.36")	80 mm (3.15")	105 mm (4.13")	140 mm (5.51")	185 mm (7.28")	250 mm (9.84")
X belt width	15 mm (0.59")	30 mm (1.18")	50 mm (1.97")	75 mm (2.95")	110 mm (4.33")	155 mm (6.1")	220 mm (8.66")
D belt distance	-	-	-	23 mm (0.91")	58 mm (2.28")	103 mm (4.06")	168 mm (6.61")

BELT SUPPORT TB30

Long conveyor often mean hanging conveyor belts. The belt support provides a remedy. It consists of a roller mounted with ball bearings for minimum friction and side plates for fastening. The unit is supplied ready-to-use with the necessary T-slot nuts and screws so that the support can easily be retrofitted to an already installed conveyor. Use as a recommendation from a conveyor length of about 7 meters.



Typ	TB30-45	TB30-60	TB30-80	TB30-105	TB30-140	TB30-185	TB30-250
A chassis width	45 mm (1.77”)	60 mm (2.36”)	80 mm (3.15”)	105 mm (4.13”)	140 mm (5.51”)	185 mm (7.28”)	250 mm (9.84”)
X belt width	15 mm (0.59”)	30 mm (1.18”)	50 mm (1.97”)	75 mm (2.95”)	110 mm (4.33”)	155 mm (6.1”)	220 mm (8.66”)
B roller width	20 mm (0.79”)	35 mm (1.38”)	55 mm (2.17”)	80 mm (3.15”)	115 mm (4.53”)	160 mm (6.3”)	225 mm (8.86”)

COMPONENTS CONVEYOR TB30

Brushless DC-Motor center drive	Ref. No.
Gear motor 1:10 center drive	**66686**
Gear motor 1:15 center drive	**66687**
Gear motor 1:30 center drive	**66688**



Brushless DC-Motor end drive	Ref. No.
Gear motor 1:10 end drive	**66689**
Gear motor 1:15 end drive	**66690**
Gear motor 1:30 end drive	**66691**



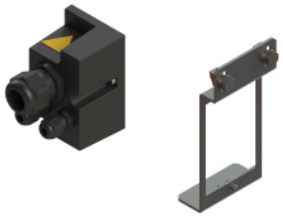
Controller for brushless DC-Motor	Ref. No.
1x200-240V, 50/60 Hz	**522033**
1x100-120V, 50/60 Hz	**522034**



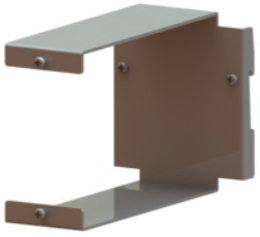
Connecting cable for brushless DC-Motor	Ref. No.
Connecting cable motor <-> controller, L=1 m (3.28 ft)	**522068**
Connecting cable motor <-> controller, L=5 m (16.41 ft)	**522070**
Connecting cable motor <->controller, L=10 m (32.81 ft)	**522071**



Assembly kit for controller 522033 / 522034	Ref. No.
for installing the controller on the chassis	**66996**



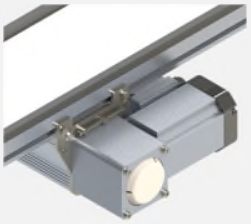
Mounting bracket (DIN rail) for controller	Ref. No.
for mounting in the control box	**522129**



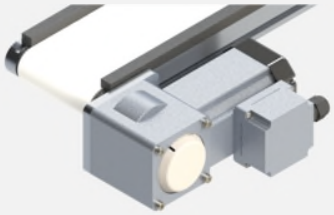
COMPONENTS CONVEYOR TB30 THREE-PHASE MOTOR

Position of the terminal box model A
(See also dimension drawings p.15-23)

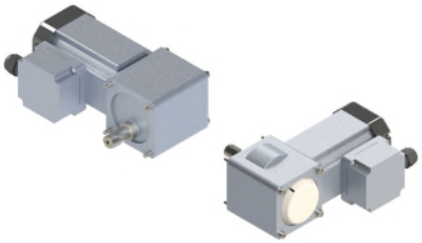
center drive



end drive



Three-phase motor 3x380-420 V / 50 Hz model A*		
conveyor speed		Ref. No.
center drive	end drive	
27.3 m/min (89.57 ft/min)	18.6 m/min (61.03 ft/min)	**66692**
18.2 m/min (59.71 ft/min)	12.4 m/min (40.68 ft/min)	**66693**
10.9 m/min (35.76 ft/min)	7.4 m/min (24.28 ft/min)	**66694**
6.8 m/min (22.31 ft/min)	4.6 m/min (15.09 ft/min)	**66695**
4.6 m/min (15.09 ft/min)<	3.1 m/min (10.17 ft/min)	**66696**
2.3 m/min (7.55 ft/min)	1.6 m/min (5.25 ft/min)	**66697**



Three-phase motor 3x440-480 V / 60 Hz model A*		
conveyor speed		Ref. No.
center drive	end drive	
31.6 m/min (103.68 ft/min)	21.2 m/min (69.56 ft/min)	**66692**
21.4 m/min (70.21 ft/min)	14.4 m/min (47.25 ft/min)	**66693**
12.6 m/min (41.34 ft/min)	8.5 m/min (27.89 ft/min)	**66694**
8 m/min (26.25 ft/min)	5.4 m/min (17.72 ft/min)	**66695**
5.3 m/min (17.39 ft/min)	3.6 m/min (11.81 ft/min)	**66696**
2.6 m/min (8.53 ft/min)	1.8 m/min (5.91 ft/min)	**66697**

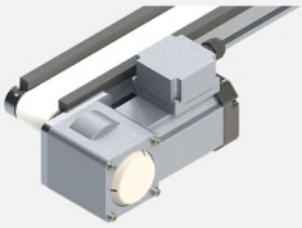
*Model A is not compatible with conveyors with end drive left.

Position of the terminal box model B
(See also dimension drawings p. 15-23)

center drive

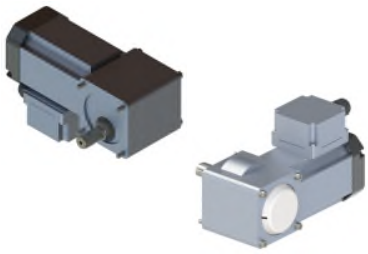


end drive



Three-phase motor 3x380-420 V / 50 Hz model B

conveyor speed		Ref. No.
center drive	end drive	
27.3 m/min (89.57 ft/min)	18.6 m/min (61.03 ft/min)	**66349**
18.2 m/min (59.71 ft/min)	12.4 m/min (40.68 ft/min)	**66350**
10.9 m/min (35.76 ft/min)	7.4 m/min (24.28 ft/min)	**66351**
6.8 m/min (22.31 ft/min)	4.6 m/min (15.09 ft/min)	**66352**
4.6 m/min (15.09 ft/min)	3.1 m/min (10.17 ft/min)	**66353**
2.3 m/min (7.55 ft/min)	1.6 m/min (5.25 ft/min)	**66354**



Three-phase motor 3x440-480 V / 60 Hz model B

conveyor speed		Ref. No.
center drive	end drive	
31.6 m/min (103.68 ft/min)	21.2 m/min (69.56 ft/min)	**66349**
21.4 m/min (70.21 ft/min)	14.4 m/min (47.25 ft/min)	**66350**
12.6 m/min (41.34 ft/min)	8.5 m/min (27.89 ft/min)	**66351**
8 m/min (26.25 ft/min)	5.4 m/min (17.72 ft/min)	**66352**
5.3 m/min (17.39 ft/min)	3.6 m/min (11.81 ft/min)	**66353**
2.6 m/min (8.53 ft/min)	1.8 m/min (5.91 ft/min)	**66354**

COMPONENTS CONVEYOR TB30 DRIVE UNIT CENTER DRIVE

Drive unit center drive, single belt	Ref. No.
TB30-45/M	65674
TB30-60/M	65675
TB30-80/M	65676
TB30-105/M	65677
TB30-140/M	65678
TB30-185/M	65679
TB30-250/M	65680



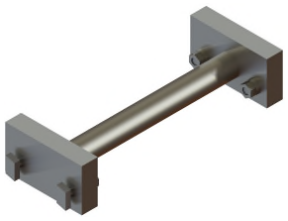
Drive unit center drive, dual belt	Ref. No.
TB30-105/M	65691
TB30-140/M	65692
TB30-185/M	65693
TB30-250/M	65694



Drive unit center drive, tandem	Ref. No.
TB30-60/M	65969
TB30-80/M	65970
TB30-105/M	65971
TB30-140/M	65972
TB30-185/M	65973
TB30-250/M	65974

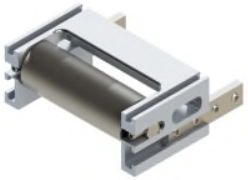


Joining element TB30 tandem	Ref. No.
	55312



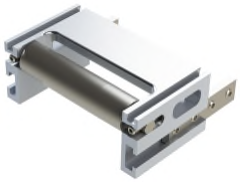
COMPONENTS CONVEYOR TB30 END SECTION CENTER DRIVE

End section with deflection roller Ø 30 mm (1.18“), single belt	Ref. No.
TB30-45/M	56987
TB30-60/M	56988
TB30-80/M	56989
TB30-105/M	56990
TB30-140/M	63694
TB30-185/M	63695
TB30-250/M	63696
End section with deflection roller Ø 30 mm (1.18“), dual belt	**Ref. No.**
TB30-105/M	56994
TB30-140/M	64079
TB30-185/M	64080
TB30-250/M	64081





End section with deflection roller Ø20 mm (0.79“), single belt	Ref. No.
TB30-45/M	63664
TB30-60/M	63665
TB30-80/M	63666
TB30-105/M	63203
TB30-140/M	63667
TB30-185/M	63668
TB30-250/M	63669



End section with knife edge R4 mm (R0.16“), single belt	Ref. No.
TB30-45/M	68315
TB30-60/M	68316
TB30-80/M	68317
TB30-105/M	68318
TB30-140/M	68319
TB30-185/M	68320
TB30-250/M	68321
End section with knife edge R4 mm (R0.16“), dual belt	**Ref. No.**
TB30-105/M	68322
TB30-140/M	68323
TB30-185/M	68324
TB30-250/M	68325



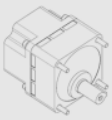


End section with tension roller Ø 30 mm (1.18“), single belt	Ref. No.
TB30-45	66758
TB30-60	66759
TB30-80	66760
TB30-105	66761
TB30-140	66740
TB30-185	66762
TB30-250	66763
End section with tension roller Ø 30 mm (1.18“), dual belt	**Ref. No.**
TB30-105	66764
TB30-140	66742
TB30-185	66765
TB30-250	66766



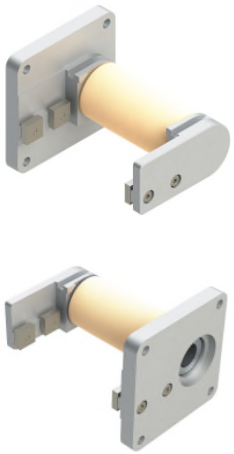


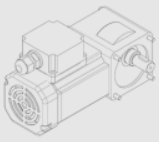
COMPONENTS CONVEYOR TB30 DIRVE UNIT END DRIVE SINGLE BELT



Brushless DC-Motor

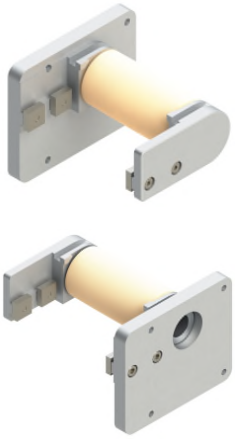
Drive unit end drive right, single belt	Ref. No.
TB30-45/KR	65876
TB30-60/KR	65877
TB30-80/KR	65882
TB30-105/KR	65892
TB30-140/KR	65894
TB30-185/KR	65904
TB30-250/KR	65906
Drive unit end drive left, single belt	**Ref. No.**
TB30-45/KL	65873
TB30-60/KL	65874
TB30-80/KL	65891
TB30-105/KL	65893
TB30-140/KL	65895
TB30-185/KL	65905
TB30-250/KL	65907



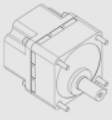


Three-phase motor

Drive unit end drive right, single belt	Ref. No.
TB30-45/KR	66602
TB30-60/KR	66603
TB30-80/KR	66604
TB30-105/KR	66605
TB30-140/KR	66606
TB30-185/KR	66607
TB30-250/KR	66608
Drive unit end drive left, single belt	**Ref. No.**
TB30-45/KL	66609
TB30-60/KL	66610
TB30-80/KL	66611
TB30-105/KL	66612
TB30-140/KL	66613
TB30-185/KL	66614
TB30-250/KL	66615

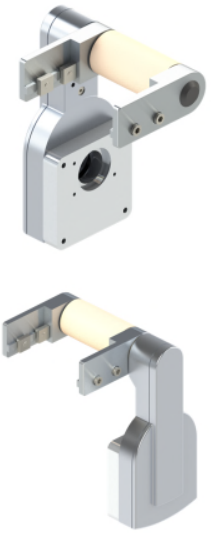


COMPONENTS CONVEYOR TB30DRIVE UNIT END DRIVE PIVOTABLE SINGLE BELT

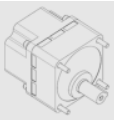


Brushless DC-Motor

Drive unit end drive pivotable right, single belt	Ref. No.
TB30-45/KSR	69253
TB30-60/KSR	69254
TB30-80/KSR	69255
TB30-105/KSR	69256
TB30-140/KSR	69257
TB30-185/KSR	69258
TB30-250/KSR	69259
Drive unit end drive pivotable left, single belt	**Ref. No.**
TB30-45/KSL	69260
TB30-60/KSL	69261
TB30-80/KSL	69262
TB30-105/KSL	69263
TB30-140/KSL	69264
TB30-185/KSL	69265
TB30-250/KSL	69266



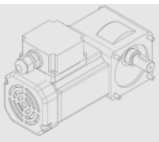
COMPONENTS CONVEYOR TB30 DRIVE UNIT END DRIVE DUAL BELT



Brushless DC-Motor

Drive unit end drive right, dual belt	Ref. No.
TB30-105/KR	65917
TB30-140/KR	65919
TB30-185/KR	65921
TB30-250/KR	65923
Drive unit end drive left, dual belt	**Ref. No.**
TB30-105/KL	65918
TB30-140/KL	65920
TB30-185/KL	65922
TB30-250/KL	65924



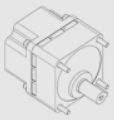


Three-phase motor

Drive unit end drive right, dual belt	Ref. No.
TB30-105/KR	66620
TB30-140/KR	66621
TB30-185/KR	66622
TB30-250/KR	66623
Drive unit end drive left, dual belt	**Ref. No.**
TB30-105/KL	66624
TB30-140/KL	66625
TB30-185/KL	66626
TB30-250/KL	66627

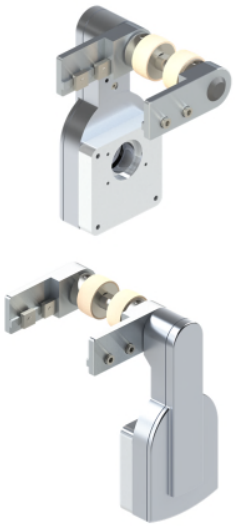


COMPONENTS CONVEYOR TB30 DRIVE UNIT END DRIVE PIVOTABLE DUAL BELT

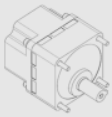


Brushless DC-Motor

Drive unit end drive pivotable right, dual belt	Ref. No.
TB30-105/KSR	69267
TB30-140/KSR	69268
TB30-185/KSR	69269
TB30-250/KSR	69270
Drive unit end drive pivotable left, dual belt	**Ref. No.**
TB30-105/KSL	69271
TB30-140/KSL	69272
TB30-185/KSL	69273
TB30-250/KSL	69274

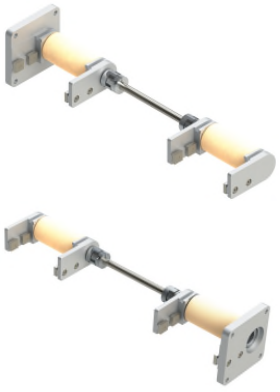


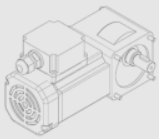
COMPONENTS CONVEYOR TB30 DRIVE UNIT END DRIVE TANDEM



Brushless DC-Motor

Drive unit end drive right tandem	Ref. No.
TB30-60/KR	66405
TB30-80/KR	66406
TB30-105/KR	66407
TB30-140/KR	66408
TB30-185/KR	66409
TB30-250/KR	66410
Drive unit end drive left tandem	**Ref. No.**
TB30-60/KL	66412
TB30-80/KL	66413
TB30-105/KL	66414
TB30-140/KL	66415
TB30-185/KL	66416
TB30-250/KL	66417





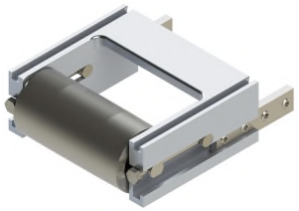
Three-phase motor

Drive unit end drive right tandem	Ref. No.
TB30-60/KR	66628
TB30-80/KR	66629
TB30-105/KR	66630
TB30-140/KR	66631
TB30-185/KR	66632
TB30-250/KR	66633
Drive unit end drive left tandem	**Ref. No.**
TB30-60/KL	66634
TB30-80/KL	66635
TB30-105/KL	66636
TB30-140/KL	66637
TB30-185/KL	66638
TB30-250/KL	66639



COMPONENTS CONVEYOR TB30 END SECTION END DRIVE / END DRIVE PIVOTABLE

End section with tension roller Ø 40 mm (1.57“), single belt	Ref. No.
TB30-45/K	**57972**
TB30-60/K	**57973**
TB30-80/K	**57974**
TB30-105/K	**54874**
TB30-140/K	**65755**
TB30-185/K	**65761**
TB30-250/K	**65763**



End section with tension roller Ø 30 mm (1.18“), single belt	Ref. No.
TB30-45/K/M	**66758**
TB30-60/K/M	**66759**
TB30-80/K/M	**66760**
TB30-105/K/M	**66761**
TB30-140/K/M	**66740**
TB30-185/K/M	**66762**
TB30-250/K/M	**66763**
End section with tension roller Ø 30 mm (1.18“), dual belt	**Ref. No.**
TB30-105/K/M	**66764**
TB30-140/K/M	**66742**
TB30-185/K/M	**66765**
TB30-250/K/M	**66766**





COMPONENTS CONVEYOR TB30 ANGLED JOINT CENTER, END DRIVE AND END DRIVE PIVOTABLE

Angled joint single belt	Ref. No.
TB30-45/M/K/KS	**66699**
TB30-60/M/K/KS	**49145**
TB30-80/M/K/KS	**49146**
TB30-105/M/K/KS	**49147**
TB30-140/M/K/KS	**66659**
TB30-185/M/K/KS	**66662**
TB30-250/M/K/KS	**66665**



Angled joint dual belt	Ref. No.
TB30-105/M/K/KS	**54216**
TB30-140/M/K/KS	**54217**
TB30-185/M/K/KS	**54218**
TB30-250/M/K/KS	**54219**



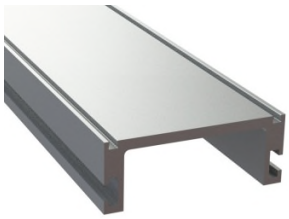
Belt support TB30	Ref. No.
TB30-45/M/K/KS	**55195**
TB30-60/M/K/KS	**55196**
TB30-80/M/K/KS	**55197**
TB30-105/M/K/KS	**55198**
TB30-140/M/K/KS	**68600**
TB30-185/M/K/KS	**68601**
TB30-250/M/K/KS	**68602**



COMPONENTS CONVEYOR TB30 CENTER, END DRIVE AND END DRIVE PIVOTABLE

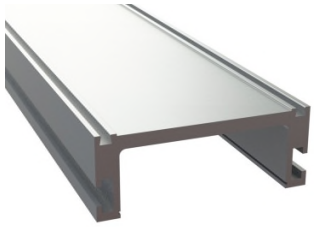
Chassis	Ref. No.
TB30-45 L = ….*	**48396/….***
TB30-60 L = ….*	**23584/….***
TB30-80 L = ….*	**23583/….***
TB30-105 L = ….*	**26330/….***
TB30-140 L = ….*	**21476/….***
TB30-185 L = ….*	**26331/….***
TB30-250 L = ….*	**37435/….***

*customer specific in mm, max 3000 mm (118.11“)



Chassis for gliding plate	Ref. No.
TB30-60 L = ….*	**58652/….***
TB30-80 L = ….*	**58653/….***
TB30-105 L = ….*	**58787/….***
TB30-140 L = ….*	**58788/….***
TB30-185 L = ….*	**58789/….***
TB30-250 L = ….*	**58790/….***

*customer specific in mm, max. 3000 mm (118.11“)



Gliding plate stainless	Ref. No.
TB30-60 L = ….(up to max. 1500 mm (59.06“))*	**58791/0039/….***
TB30-80 L = ….(up to max. 1500 mm (59.06“))*	**58791/0059/….***
TB30-105 L = ….(up to max. 1500 mm (59.06“))*	**58791/0084/….***
TB30-140 L = ….(up to max. 1500 mm (59.06“))*	**58791/0119/….***
TB30-185 L = ….(up to max. 1500 mm (59.06“))*	**58791/0164/….***
TB30-250 L = ….(up to max. 2000 mm (78.74“))*	**58791/0229/….***

*customer specific in mm, several plates possible

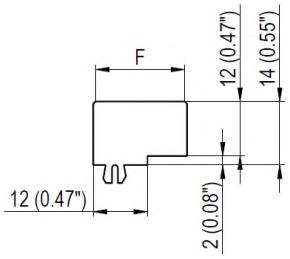


When ordering chassis for gliding plate and gliding plate without assembly, the gliding plate is attached to the chassis **only per customer’s request**.

NOTE!
Long conveyors with multiple chassis parts must be supported in addition at the separation points.

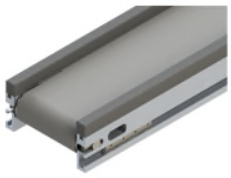
ACCESSORIES CONVEYORS TB30

Lateral guide fixed L = 2000 mm (78.74“)	Ref. No. white	Ref. No. black (antistatic)
F = 10.75 mm (0.42“)	28187	28187S
F = 15.75 mm (0.62“)	33652	33652S
F = 20.75 mm (0.82“)	28186	28186S
F = 26.75 mm (1.05“)	32071	32071S
F = 35.75 mm (1.41“)	28188	28188S
F = 43.75 mm (1.72“)	67425	67425S

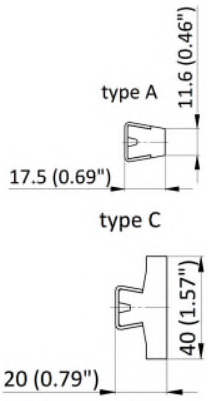




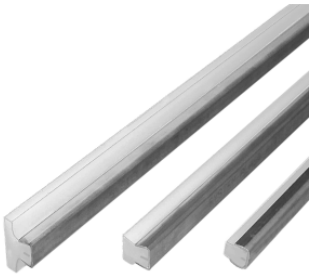
In the assembly of the conveyor, we adapt the measure F on the desired conveyor width.
In addition to the standard widths, project-specific lateral guides are also Available.



Lateral guide	Ref.No. white	Ref.No. black (antistatic)
type A	504985/1000	522622/1000
	504985/2000	522622/2000
	504985/3000	522622/3000
type B	504986/1000	522623/1000
	504986/2000	522623/2000
	504986/3000	522623/3000
type C	504987/1000	522624/1000
	504987/2000	522624/2000
	504987/3000	522624/3000



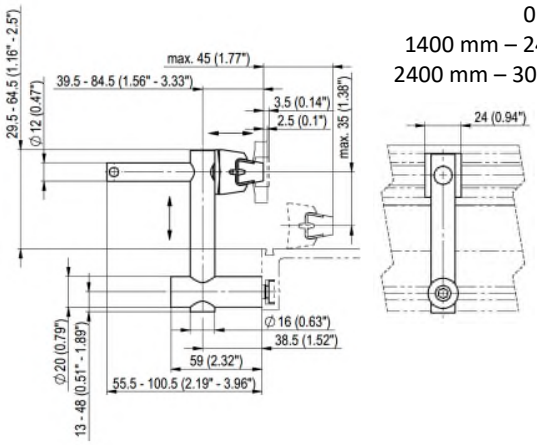
Note: Adjustable lateral guides are available for conveyors with a minimum length of 500mm (19.69“).



Holder adjustable for lateral guide typ A/B/C	Ref. No.
	43968

For A, B and C

0 – 1400 mm (0-55.12“) = 2 Holder
1400 mm – 2400 mm (55.12-94.49“) = 3 Holder
2400 mm – 3000 mm (94.49-118.11“) = 4 Holder





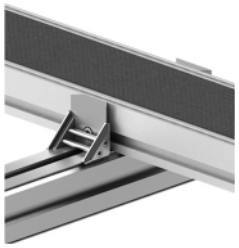
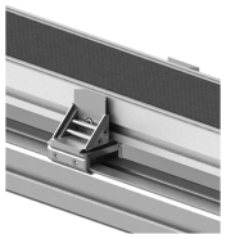


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Conventions for item numbers and names/abbreviations

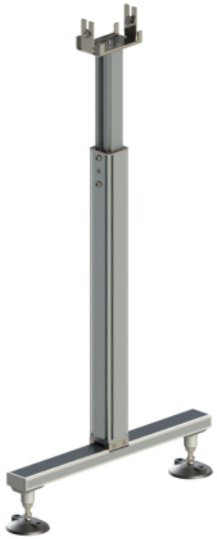
As a rule, all items have a 5-digit item number. The item number is completed with the width, height, joint, length or variant of the feet.

Product	Designation code	Item number	Explanation
Floor stands telescopic	**BS30-T-□□□-052x052-□-□□**	**69317/□□□/□/□□**	
	69317/□□□/□/□□		Basic article number (basic structure)
	BS30-T-□□□-052x052-□-□□		Short name for floor stands for conveyor TB30
	BS30-T-□□□-052x052-□-□□		Adjustable height (telescopic)
	BS30-T-□□□-052x052-□-□□	69317/□□□/□/□□	Sizes Conveyor
	BS30-T-□□□-052x052-□-□□		Largest profile cross-section in mm
	BS30-T-□□□-052x052-□-□□	69317/□□□/□/□□	Interface to conveyor G = Basic design V = Separation point
	BS30-T-□□□-052x052-□□	69317/□□□/□/□□	Interface to foundation SF = plastic adjustable feet SE = stainless adjustable feet LR = swivel castors BR = castors fixed
	BS30-T-105-052x052-G-SF	*69317/105/G/SF*	*Example for floor stand*
Traverse	**TE-4000-040x040/052x052, L=0000mm**	**69394/□□□□**	
	69394/□□□□		Basic article number (basic structure)
	TE-4000-040x040/052x052, L=0000mm		Short name for traverse single
	TE-4000-040x040/052x052, L=0000mm		Profile group
	TE-4000-040x040/052x052, L=0000mm		Profile cross-section of traverse in mm
	TE-4000-040x040/052x052, L=0000mm		Profile cross-section floor stand in mm (connection point)
	TE-4000-040x040/052x052, L=0000mm	69394/□□□□	Center distance floor stand to floor stand in mm
	TE-4000-040x040/052x052, L=1250mm	*69394/1250*	*Example for traverse single*

Product	Designation code	Item number	Explanation
Table stand 	**TS30-□□□ H=0000mm**	□□□□□/□□□□	
		□□□□□/□□□□	Basic article number (basic structure)
	TS30-□□□ H=0000mm		Short name for table stands for conveyor TB30
	TS30-□□□ H=0000mm		Sizes Conveyor
	TS30-□□□ H=0000mm	□□□□□/□□□□	Working height in mm (upper edge of conveyor)
	TS30-105 H=0150mm	*69427/0150*	*Example for table stand*
Table stand to aluminum framing system 	**TS30-□□□-H224-050**	□□□□□	
	TS30-□□□-H224-050		Short name for table stands for conveyor TB30
	TS30-□□□-H224-050		Sizes Conveyor
	TS30-□□□-H224-050		Working height in mm (upper edge of conveyor)
	TS30-□□□- H224-050		Profile size in mm (connection point)
	TS30-140-H224-050	*69441*	*Example for table stand*
	**TS30-□□□-□□□-90°**	□□□□□	
	TS30-□□□-□□□-90°		Short name for table stands for conveyor TB30
	TS30-□□□-□□□-90°		Working height in mm (upper edge of conveyor)
	TS30-□□□-□□□-90°		Profile size in mm (connection point)
	TS30-□□□-□□□-90°		Fastening angle of the profile
	TS30-H58-050-90°	*69480*	*Example for table stand*
	**TS30-□□□-□□□**	□□□□□	
	TS30-□□□-□□□		Short name for table stands for conveyor TB30
	TS30-□□□-□□□		Working height in mm (upper edge of conveyor)
	TS30-□□□-□□□		Profile size in mm (connection point)
	TS30-H58-050	*69480*	*Example for table stand*

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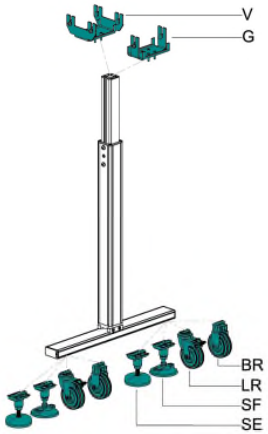
Floor stand telescopic 052x052	Ref. no.
BS30-T-…-052x052-…-…	**69317/…/…/…**

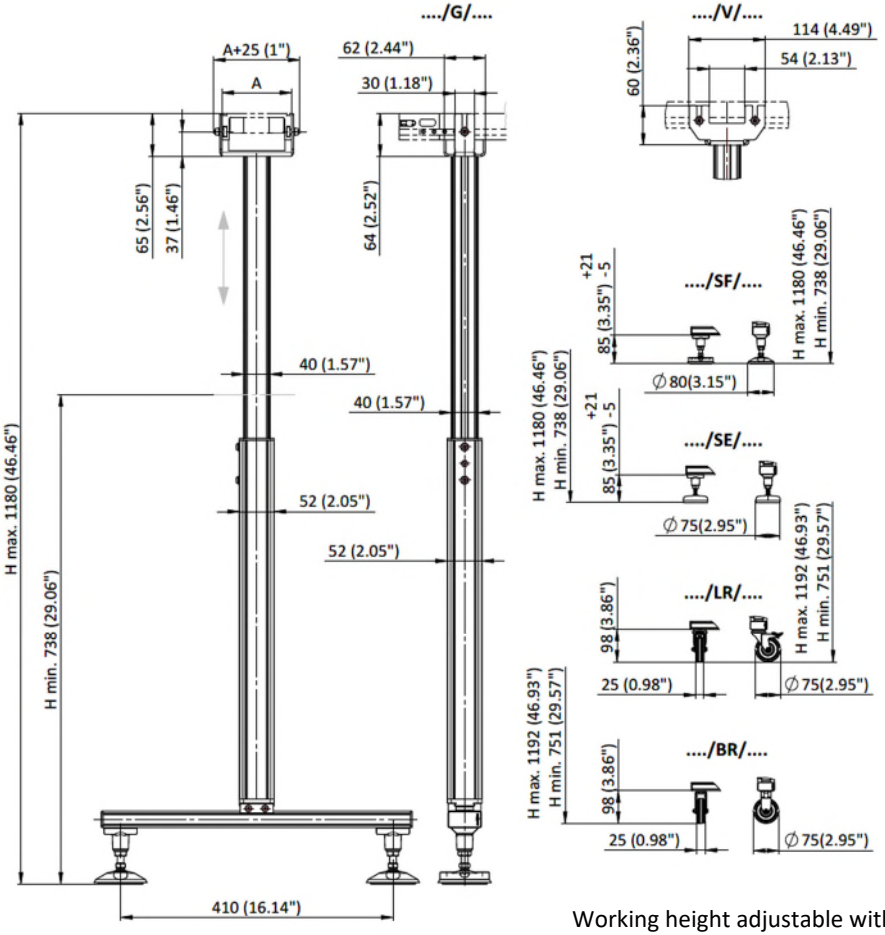


Valid for the following conveyor sizes
45, 60, 80, 105, 140, 185, 250 mm (1.77”, 2.36”, 3.15”, 4.13”, 5.51”, 7.28”, 9.84”)

Example:
BS30-T-105-052x052-G-SF 69317/105/G/SF

The exact key can be found on page 51.





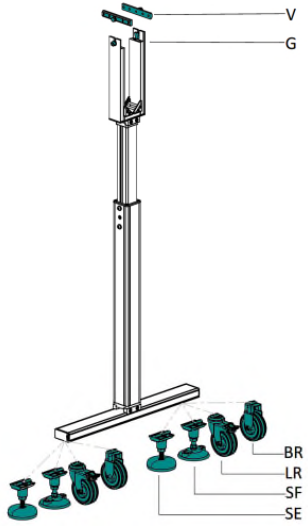
Working height adjustable with
Adjustable feet SF/SE H = 738 – 1180 mm (29.06 – 46.46”)
Swivel castors LR H = 751 – 1192 mm (29.57 – 46.93”)
Castors fixed BR H = 751 – 1192 mm (29.57 – 46.93”)
(Working height = Belt surface)

compatible traverse for floor stands telescopic 052x052	Ref. no.
TE-4000-040x040/052x052 L=0000mm	**69394/….**

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Floor stand telescopic 052x052	Ref. no.
BS30-T-…-052x052-…-…	**70461/…/…/…**

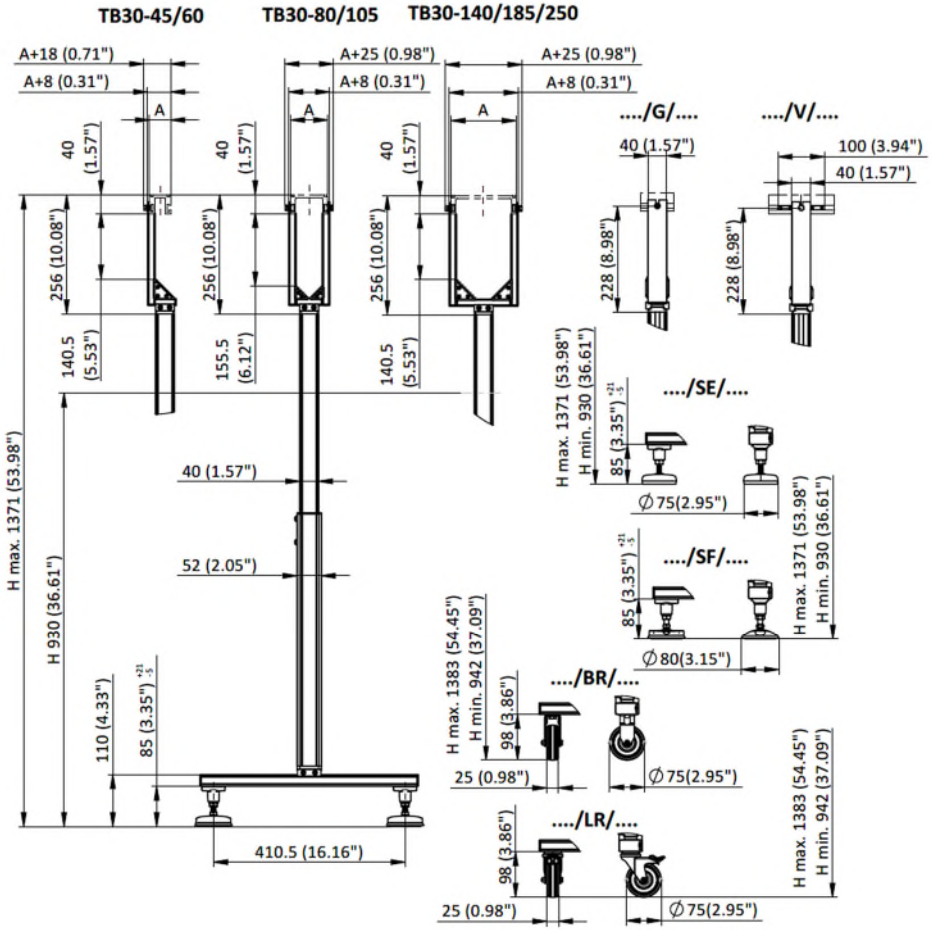




Valid for the following conveyor sizes
45, 60, 80, 105, 140, 185, 250 mm (1.77”, 2.36”, 3.15”, 4.13”, 5.51”, 7.28”, 9.84”)

Example:
BS30-T-105-052x052-G-SF 70461/105/G/SF

The exact key can be found on page 51.

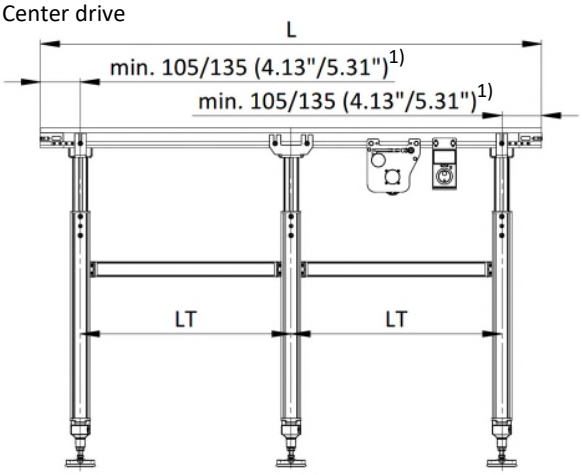


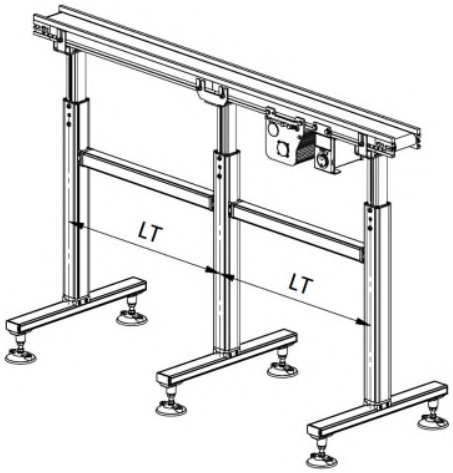
Working height adjustable with
Adjustable feet SF/SE H = 738 – 1180 mm (29.06 – 46.46”)
Swivel castors LR H = 751 – 1192 mm (29.57 – 46.93”)
Castors fixed BR H = 751 – 1192 mm (29.57 – 46.93”)
(Working height = Belt surface)

compatible traverse for floor stands telescopic 052x052	Ref. no.
TE-4000-040x040/052x052 L=0000mm	**69394/….**

POSITIONING OF THE FLOOR STANDS

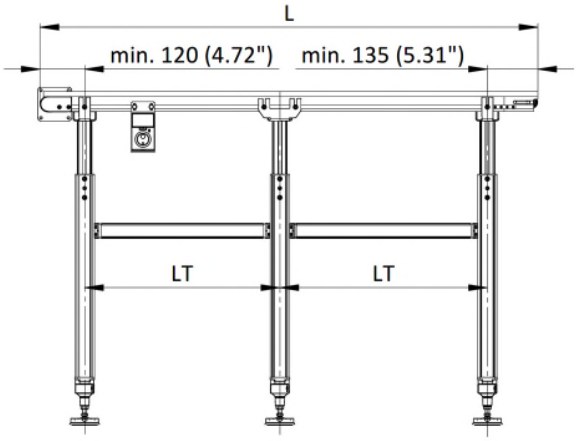
Center drive

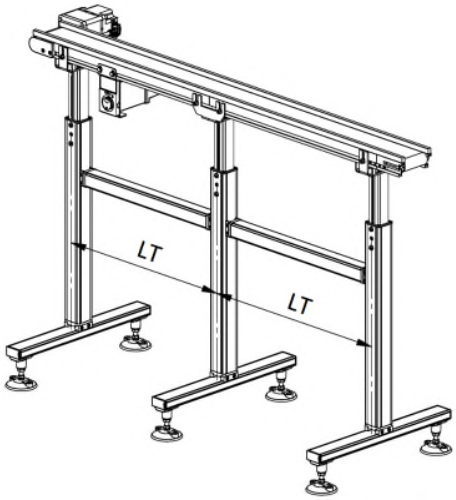




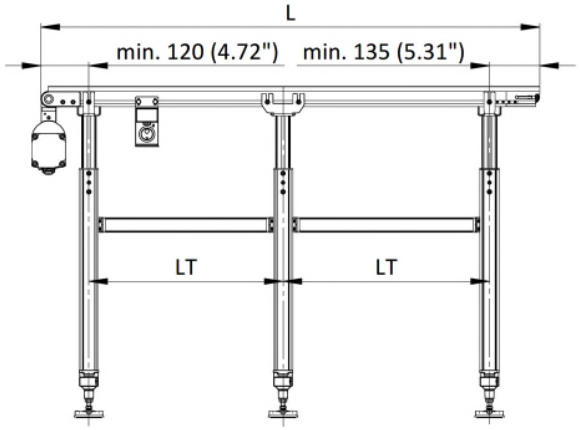
[1] 90 mm (3.54”) for end section with deflection roller or knife edge / 120 mm (4.72”) for end section with tension roller (more tension path)

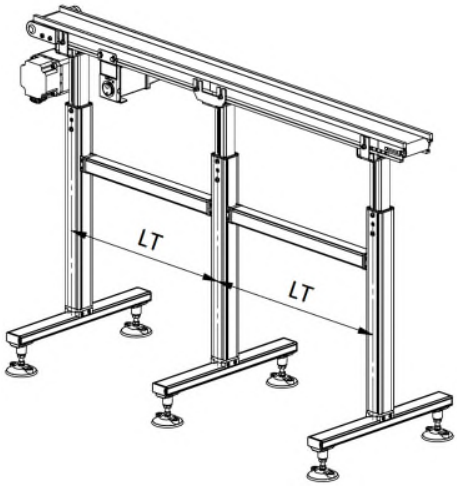
End drive





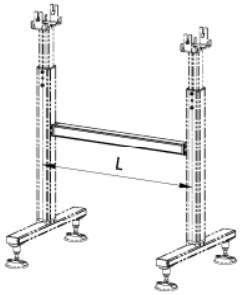
End drive pivotable





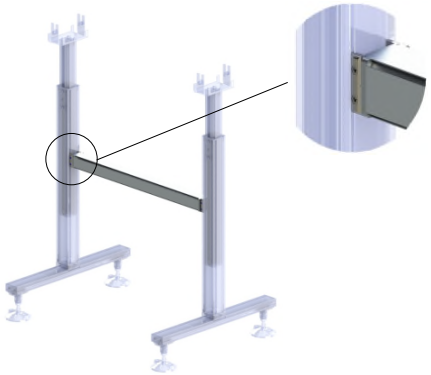
TRAVERSE

Traverse for floor stand	Ref. no.
TE-4000-040x040/052x052 L=0000mm	**69394/….**



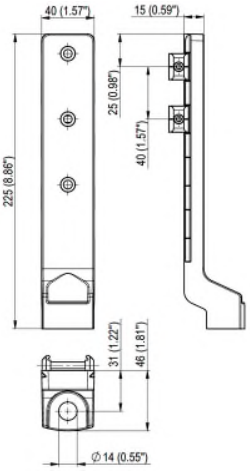
Length L corresponds to the center distance of two floor stands.
min. 500 mm
max. 2500 mm
Example:
TE-4000-040x040/052x052 LT=1250mm (49.21“)
Ref.no. 69394/1250

The exact key can be found on page 51.



ACCESSORIES FLOOR STAND BS30

L-based foot WSF-40-S-PV-225	Ref. no.
	70530
Segment anchor M12x100 (M12x3.94”)	**510230**

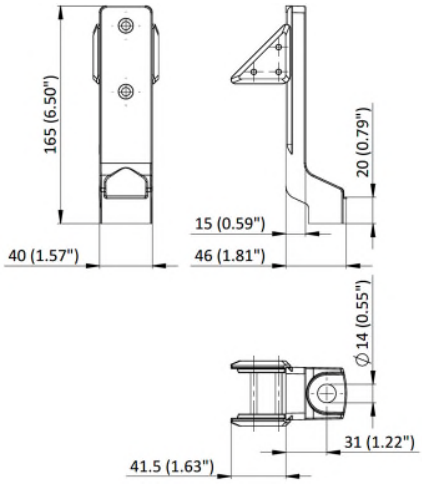






As an accessory to the BS30 floor stand for anchoring in the fundament.

L-based foot WSF-50-S-WV	Ref. no.
	69936
Segment anchor M12x100	**510230**



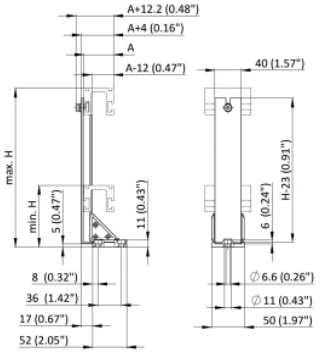




As an accessory to the BS30 floor stand for anchoring in the fundament.

TABLE STAND TB30

Table stand to TB30-045 / TB30-060	A	Ref. no.
TS30-045	45 (1.77”)	**69419/….**
TS30-060	60 (2.36”)	**69419/….**

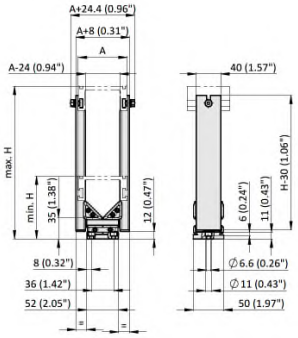


The table stands are cut to the desired height
(min. 95 mm (3.74”) – max. 500 mm (19.69”))

Example:
TS30-080 H=0150 69419/0150
The exact key can be found on page 52.



Table stand to TB30-80 / TB30-105	A	Ref. no.
TS30-080	80 (3.15”)	**69424/….**
TS30-105	105 (4.13”)	**69427/….**

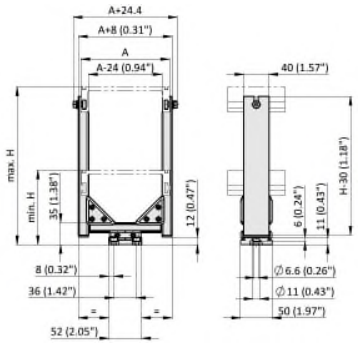


The table stands are cut to the desired height
(min. 103 mm (4.06”) – max. 500 mm (19.69”))

Example:
TS30-080 H=0150 69424/0150
The exact key can be found on page 52.



Table stand to TB30-140/TB30-185/ TB30-250	A	Ref. no.
TS30-140	140 (5.51”)	**69422/….**
TS30-185	185 (7.28”)	**69430/….**
TS30-250	250 (9.84”)	**69432/….**



The table stands are cut to the desired height
(min. 118 mm (4.65”) – max. 500 mm (19.69”))

Example:
TS30-0185 H=0150 69430/0150
The exact key can be found on page 52.



TABLE STAND TO ALUMINUM FRAMING SYSTEM

Table stand TS30		A	Ref. no.
TS30-080/105 TS30-140/185/250	TS30-080-H224-050	80 (3.15”)	**69414**
	TS30-105-H224-050	105 (4.13”)	**69437**
	TS30-140-H224-050	140 (5.51”)	**69441**
	TS30-185-H224-050	185 (7.28”)	**69444**
	TS30-250-H224-050	250 (9.84”)	**69445**

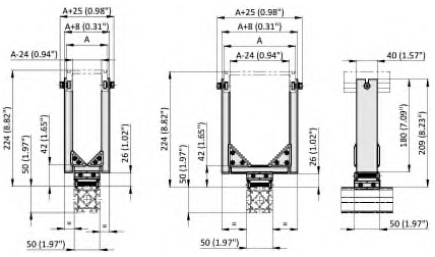
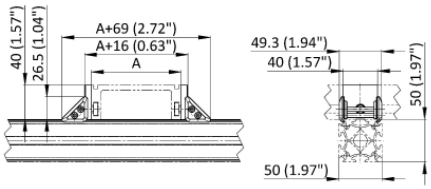




Table stand TS30-H40-050, pair	Ref. no.
	69417



Valid for the following conveyor sizes
A = 45 (1.77”), 60 (2.36”), 80 (3.15”), 105 (4.13”), 140 (5.51”), 185 (7.28”), 250 (9.84”)

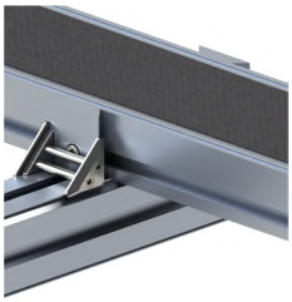
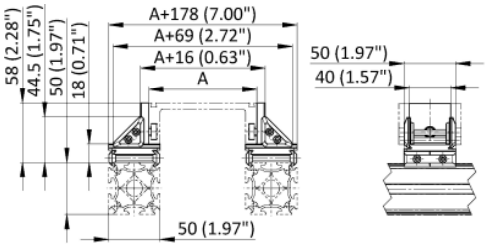


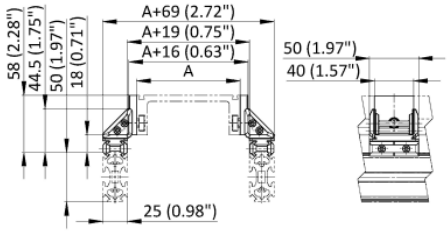
Table stand TS30-H58-050-90°, pair	Ref. no.
	69480



Valid for the following conveyor sizes
A = 45 (1.77”), 60 (2.36”), 80 (3.15”), 105 (4.13”), 140 (5.51”), 185 (7.28”), 250 (9.84”)



Table stand TS30-H58-025-90°, pair	Ref. no.
	69528

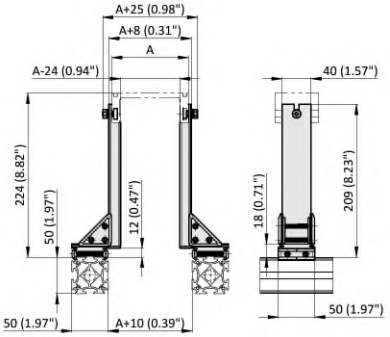


Valid for the following conveyor sizes
A = 45 (1.77”), 60 (2.36”), 80 (3.15”), 105 (4.13”), 140 (5.51”), 185 (7.28”), 250 (9.84”)



Table stand TS30-H224-050-90°, pair

Ref. no. 69416

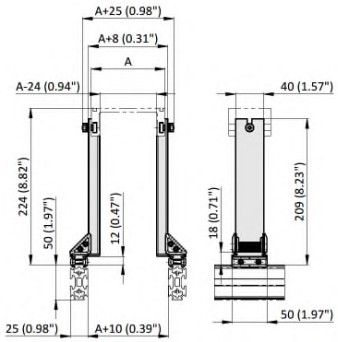


Valid for the following conveyor sizes
A = 45 (1.77”), 60 (2.36”), 80 (3.15”), 105 (4.13”), 140 (5.51”), 185 (7.28”), 250 (9.84”)



Table stand TS30-H224-025-90°, pair

Ref. no. 69498

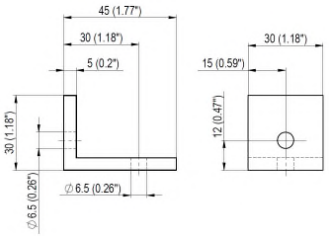


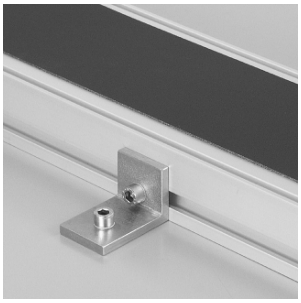
Valid for the following conveyor sizes
A = 45 (1.77”), 60 (2.36”), 80 (3.15”), 105 (4.13”), 140 (5.51”), 185 (7.28”), 250 (9.84”)



Bracket T-slot to table-top

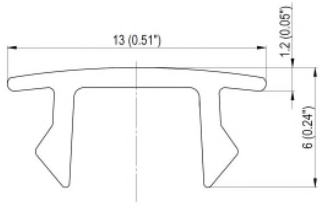
Ref. No. 45469





ACCESSORIES TB30

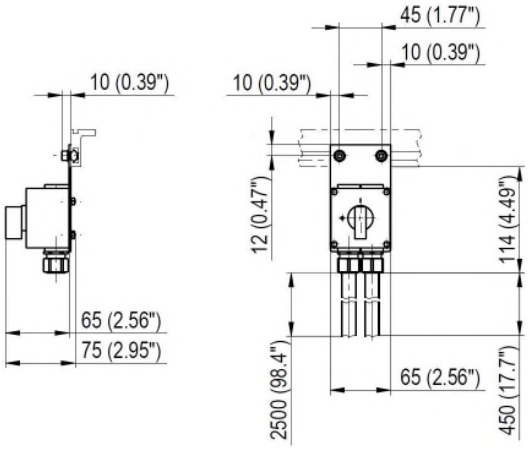
T-slot cover	Ref. No.
per meter	**48143**



The cover profile serves for closing the open T-slot in the chassis, for example: in applications in the food industry or in clean-room applications.
Material ABS (uncolored)

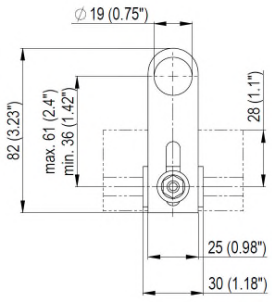


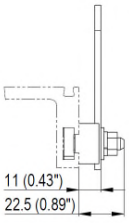
Motor switch with mounting plate (For Three-phase motor only)	Ref. No.
	50092





Holder for reflection light barrier		Ref. No.
	M18x1	**34957**





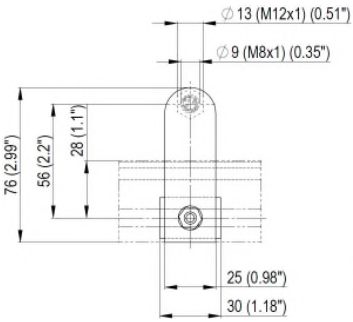
(Scope of delivery without reflection light barrier)



Holder for proximity switch

	Ref. No.
M8x1	**36491**
M12x1	**42142**

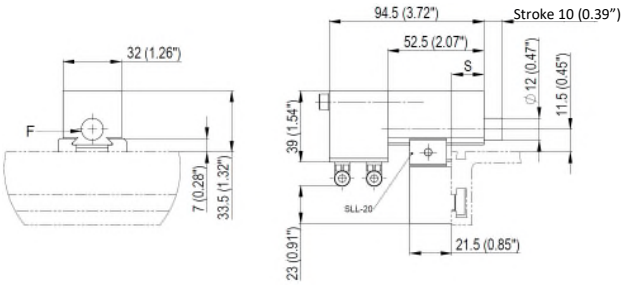
(Scope of delivery without proximity switch)

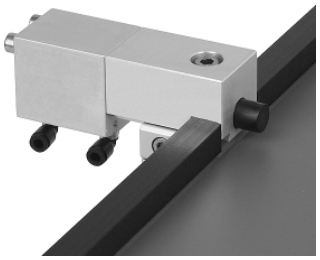




Stopper

	Ref. No.
	51590

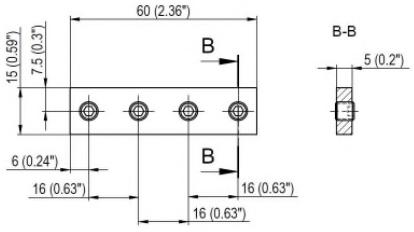




adjustable range S = 0-32 mm (0-1.26“)
max. transverse force F = 210 N (47.2 lbf) at 5 bar

Joining element chassis-chassis

	Ref. No.
pair	**36546**

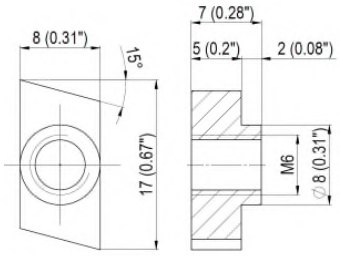




The TB30 is shipped in units of max. 3 m length. Conveyor belts over 3 m length are composed of several chassis. For each connecting point a pair of joining element chassis-chassis is needed. Support is required on both sides of a separation.

Slotted nut M6

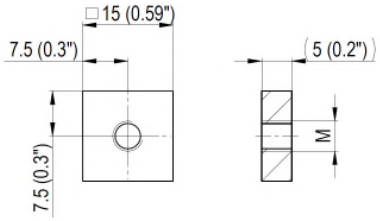
Ref. No.
36551





Slot inser

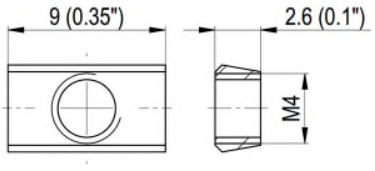
	Ref. No.
M5	45089
M6	21913
M8	45091





Slot insert M4 for lateral guide

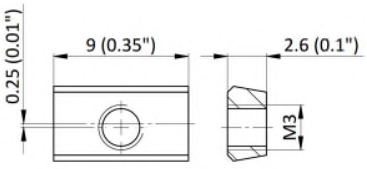
Ref. No.
63104

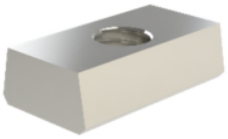




Slot insert eccentric M3 for lateral guide

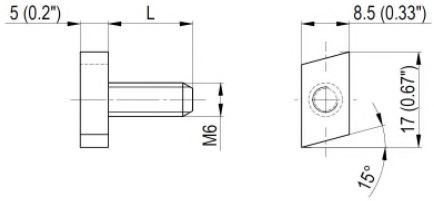
Ref. No.
63117





Hammer-head screw

	Ref. No.
L = 15 mm (0.59“)	40829
L = 20 mm (0.79“)	40830
L = 25 mm (0.98“)	40831







K-100008 -USA 2504

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