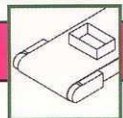




BELT CONVEYORS TB SERIES
BELT CONVEYORS TB SERIES
BELT CONVEYORS TB SERIES



The advantages of good design

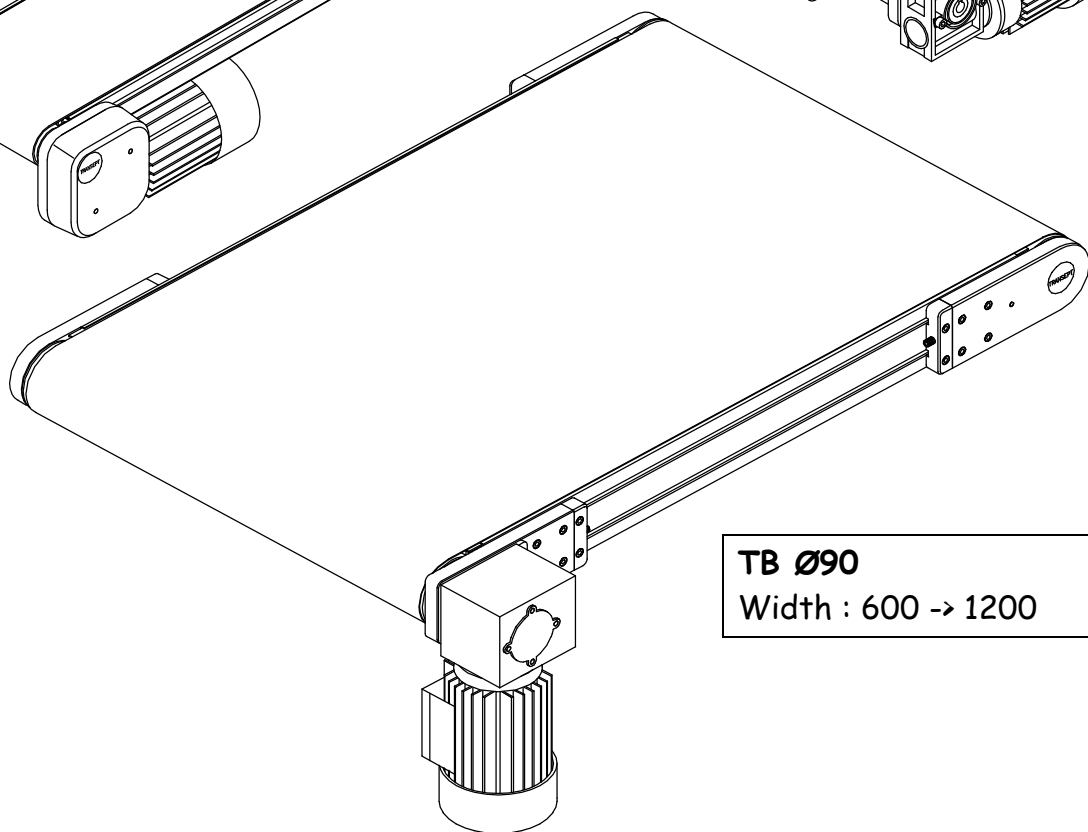
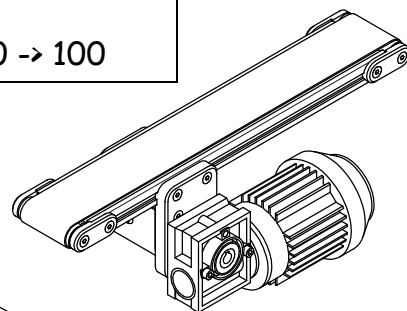
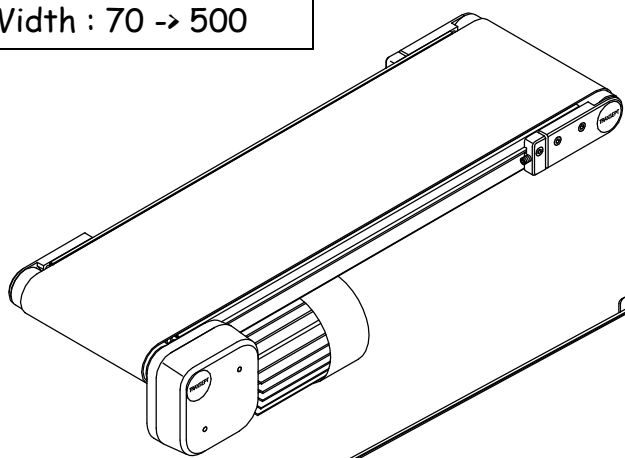


Contents

<u>Items</u>	<u>Page</u>
TB Ø24 : Technical information.....	2
TB Ø24 : Drive and references	3
TB Ø50 : Technical information.....	4
TB Ø50 : Belt choice.....	5
TB Ø50 : Drives	6
TB Ø50 : References.....	7
TB Ø50 : Adjustable articulation.....	8 and 9
TB Ø50 : Specific accessories.....	10 and 11
TB Ø90 : Technical information.....	12
TB Ø90 : Belt choice.....	13
TB Ø90 : Drive and references	14
TB Ø90 : Specific accessories.....	15 and 16

TB Ø50
Width : 70 -> 500

TB Ø24
Width : 20 -> 100



TB Ø90
Width : 600 -> 1200

The advantages of good design

Cleanliness and long-lasting of the stainless steel bedplate

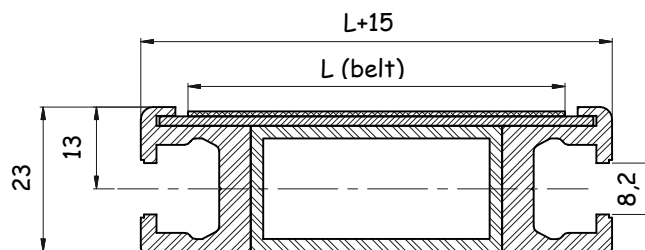
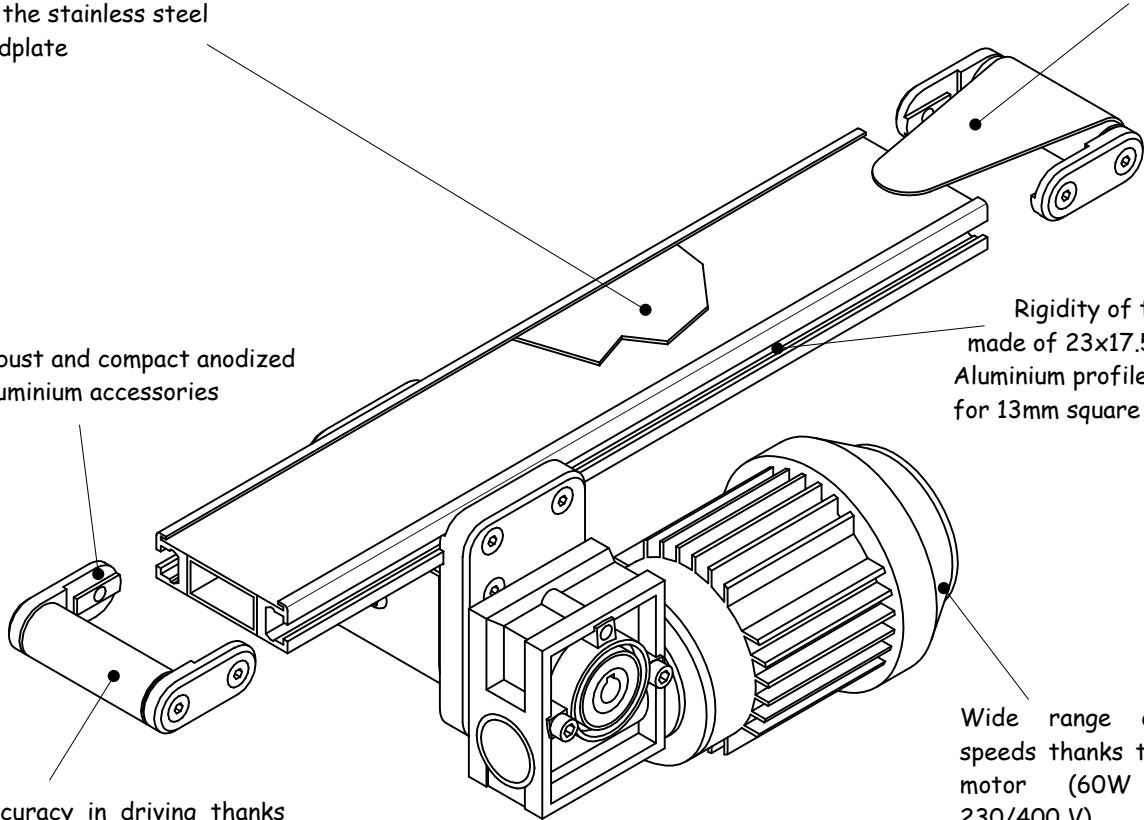
robust and compact anodized Aluminium accessories

Accuracy in driving thanks to Ø24 stainless steel rollers

Belt widths : 20, 40, 60, 80, 100 mm -Belt types : low grip PU or food quality, other types on request


Rigidity of the structure made of 23x17,5 anodized Aluminium profiles (8mm slots for 13mm square nuts)

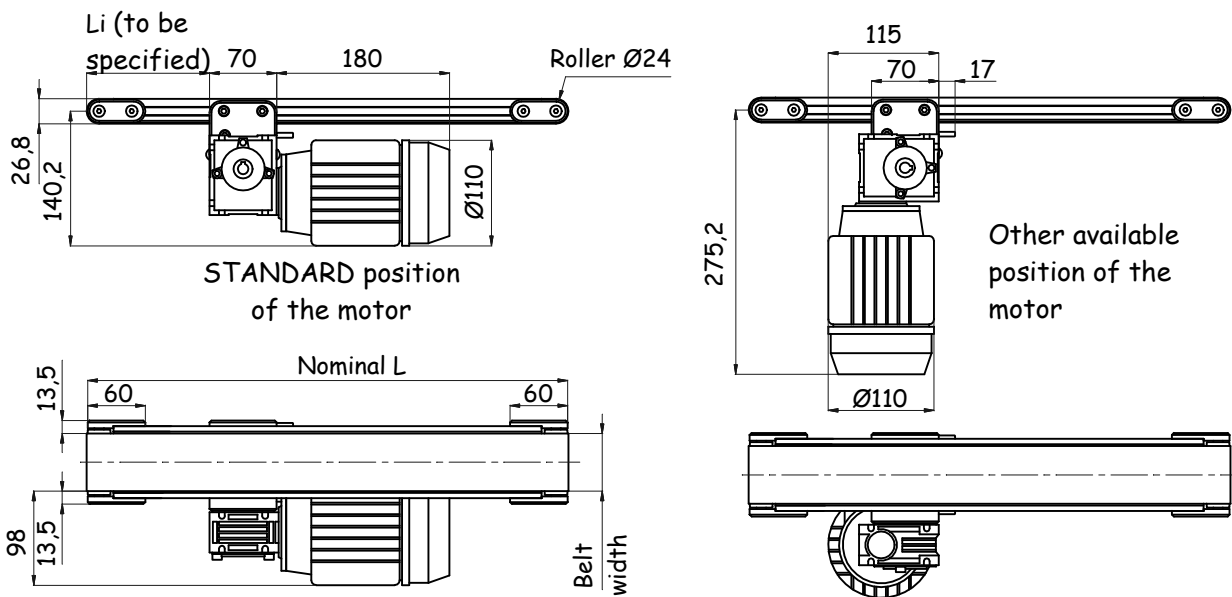
Wide range of available speeds thanks to worm gear motor (60W or 90W 230/400 V) 3 phased



MOTOVARIO Motorreducer	BELT WIDTH (mm)				
	20	40	60	80	100
Intermediate Drive	2442	2444	2446	2448	2440
PUBA belt	2472	2474	2476	2478	2470
PUAL belt	2462	2464	2466	2468	2460

overall maxi. Length : 6000mm

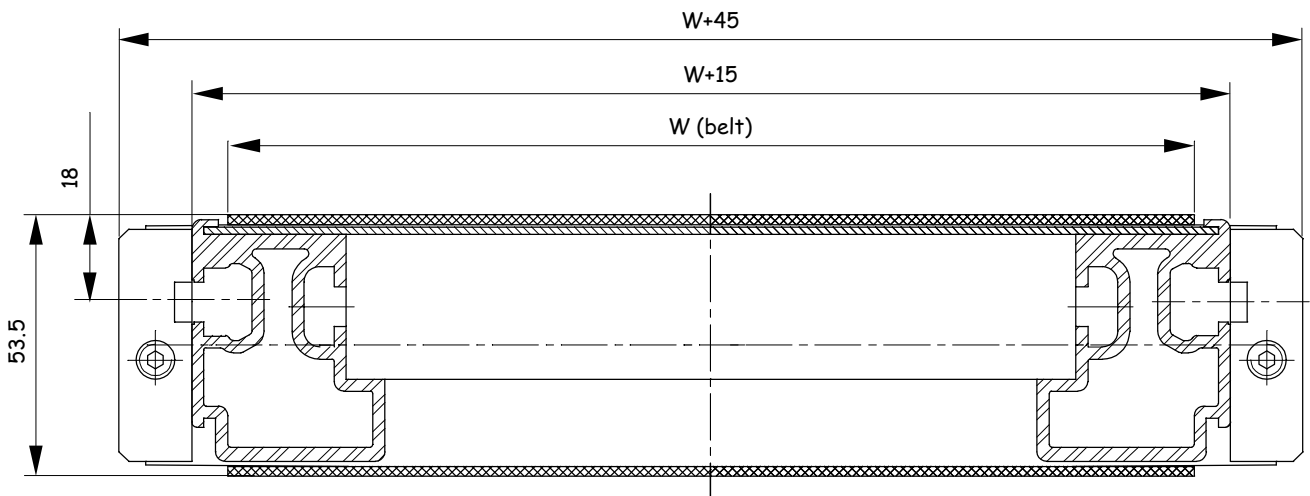
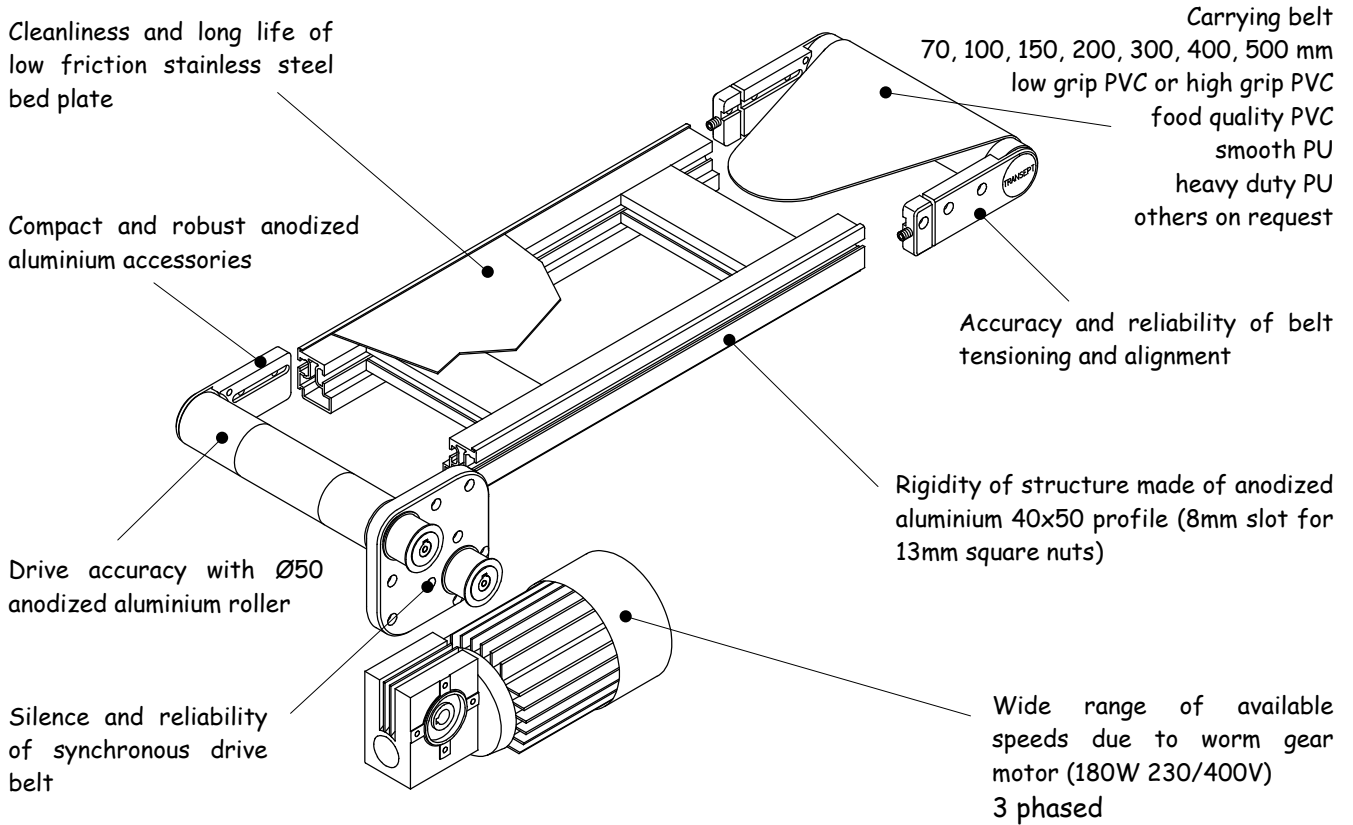
Type de belt	Ref.	thn. (mm)		T _{adm}	FDA	Utilisation
Low grip PU belt (green)	PUBA	0,8	yes	100°C	no	transportation, inclination limited at 5°, possible accumulation
Food quality PU belt (white)	PUAL	0,8	no	100°C	yes	
Other types on request						



« STANDARD » SPEEDS									
Motorreducer ratio	I=60	I=50	I=40	I=30	I=20	I=15	I=10	I=7,5	I=5
Speed of the belt (m/min)	1,8	2,2	2,7	3,6	5,4	7,2	10,9	14,5	21,7
Reference to be ordered	2400	2401	2402	2403	2404	2405	2406	2407	2408

IMPORTANT : consider the indicated speeds (m/min) with a precision of -/-10% at the 50Hz frequency (current supply). The use of a frequency inverter allows to select a range of speed between 50% and 150% of the nominal value indicated at 50Hz.

The advantages of good design



The nominal lengths of the belt conveyor are shown in a non-tensioned state (except in the case of the intermediate drive).

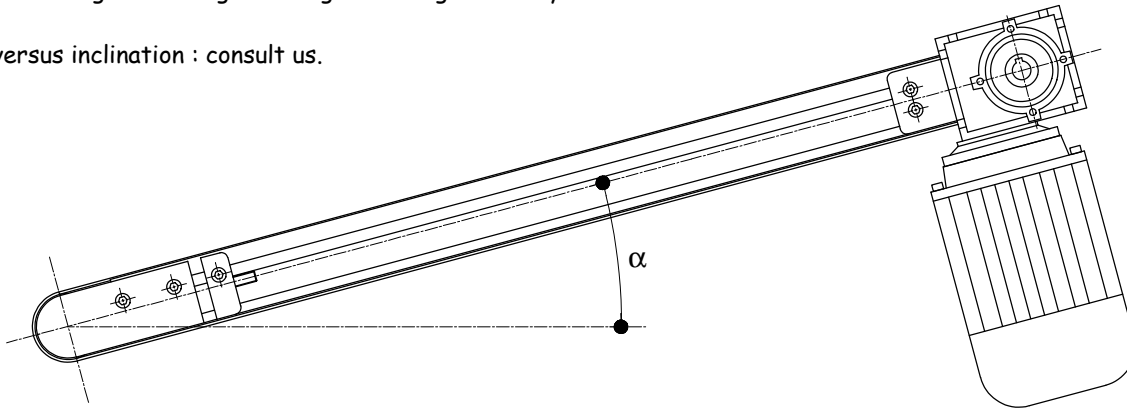
Initial tensioning of the belt during assembly will result in an increase in length of between 0.25% and 0.30% of the conveyors nominal length (i.e. from 2.5mm to 3mm for each conveyor meter).

With maximum tension applied to the belt an increase in length of 0.5% will be observed (i.e. 5mm for each conveyor meter).

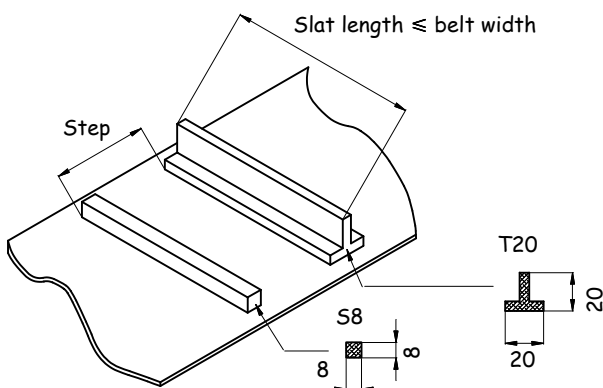
Overall maximum length : **6000mm** (bigger on special request).

Allowable loading from 40kg to 100kg according to conveyor width.

Speed versus inclination : consult us.



Available belts	Ref.	Th. (mm)	⚡	T _{max}	FDA	Utilisation
Low grip PVC (black)	PVCL	1,8	yes	60°C	no	Carrying (α up to 5°), accumulation is possible
High grip PVC (dark green)	PVCA	2,5	yes	60°C	no	Carrying (α up to 30°), accumulation is impossible
« food quality » PVC (white)	ALIM	2,0	no	60°C	yes	Carrying (α up to 10°), accumulation is allowed
Smooth PU (dark green)	PUBA	1,6	yes	100°C	no	Carrying (α up to 5°), accumulation is possible
PU heavy duty (green)	PUAD	2,3	yes	100°C	no	Carrying (α up to 10°), accumulation is allowed
Other belts (translucent, high temperature,...) on special request						

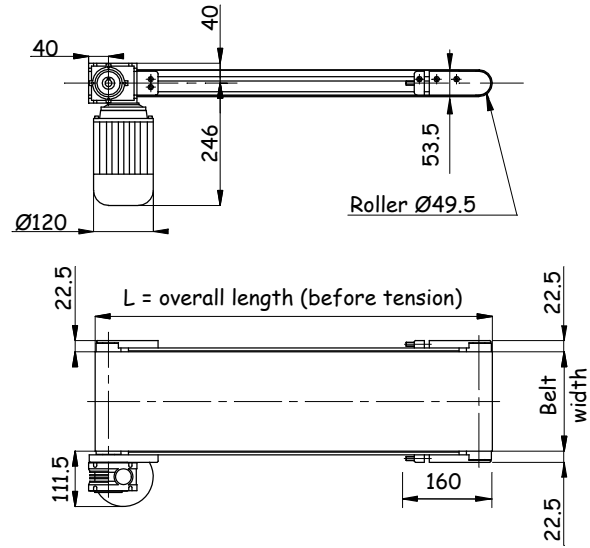
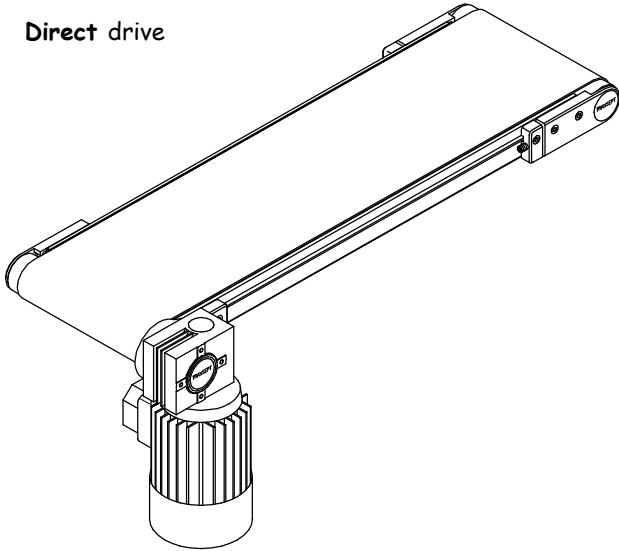


SLATS

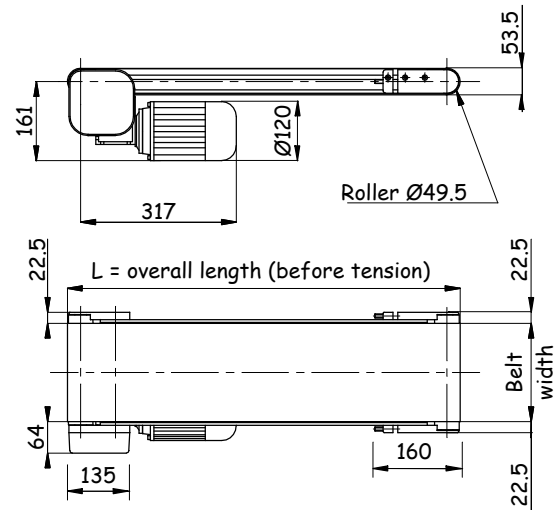
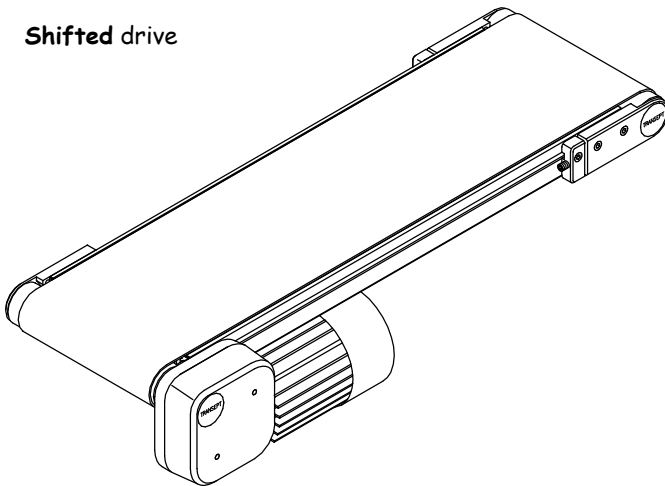
IMPORTANT : only PUBA belt may accept slats. Please, indicate step or slat number. Choose preferently **ODD** number.

References 1130 (square slat S8)
1131 (« T » slat T20)

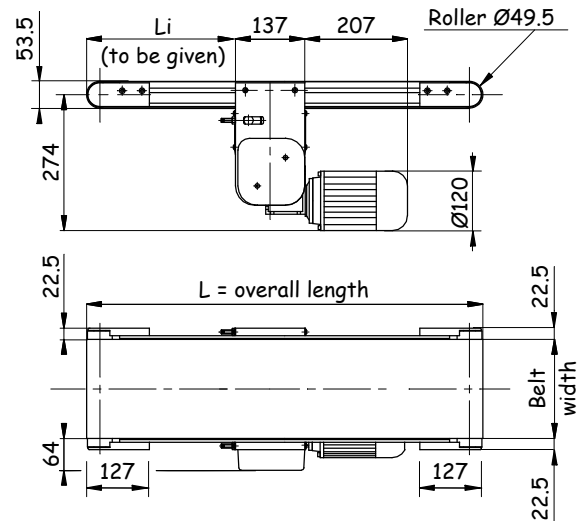
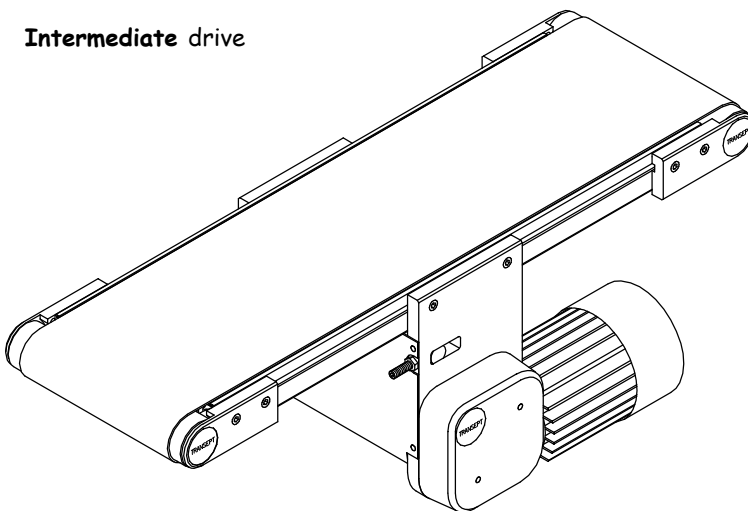
Direct drive



Shifted drive



Intermediate drive



MOTOVARIO motorization		BELT WIDTHS (mm)						
		TB 70	TB 100	TB 150	TB 200	TB 300	TB 400	TB 500
Direct drive	Right	3070	3100	3150	3200	3300	3400	3560
	Left	3071	3101	3151	3201	3301	3401	3561
Shifted drive	Right	3080	3110	3160	3210	3310	3410	3570
	Left	3081	3111	3161	3211	3311	3411	3571
Intermediate drive		3090	3120	3170	3220	3320	3420	3580

« STANDARD » SPEEDS									
180W motorreducer ratio	<i>I=50</i>	<i>I=40</i>	<i>I=30</i>	<i>I=25</i>	<i>I=20</i>	<i>I=15</i>	<i>I=10</i>	<i>I=7,5</i>	<i>I=5</i>
Belt speed (m/min)	5	6	8	10	12	16	24	32	48
Order reference	3505	3506	3508	3510	3512	3516	3524	3532	3548

« LOW » SPEEDS		
90W motorreducer ratio	<i>I=80</i>	<i>I=60</i>
Belt speed (m/min)	3	4
Order reference	3503	3504

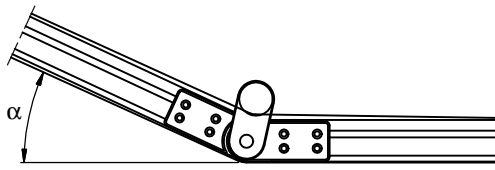
« VERY LOW » SPEEDS					
90W motorreducer dual ratio	<i>I=500</i>	<i>I=250</i>	<i>I=150</i>	<i>I=125</i>	<i>I=100</i>
Belt speed (m/min)	0.5	1	1.5	2	2.5
Order reference	3496	3497	3498	3499	3500

FREQUENCY INVERTER (input : 240V single-phased)			
Nominal power	180W	370W	750W
Order reference	3000	3001	3002

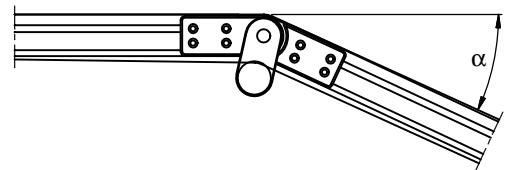
IMPORTANT : consider the indicated speeds (m/min) with a precision of +/-10% at the 50Hz frequency (current supply). The use of a frequency inverter allows to select a range of speed between 50% and 150% of the nominal value indicated at 50Hz.

Angle value : adjustable from 0 to 60°

Upward articulation



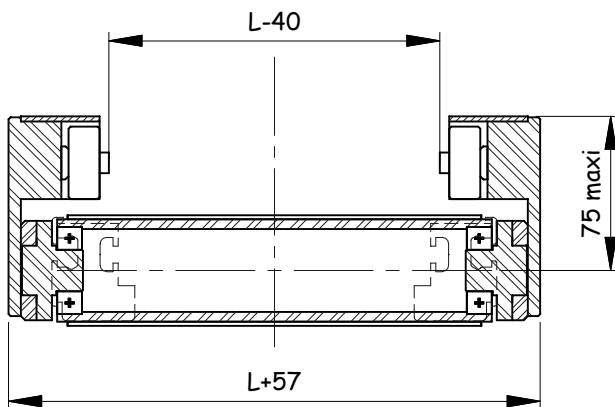
Downward articulation



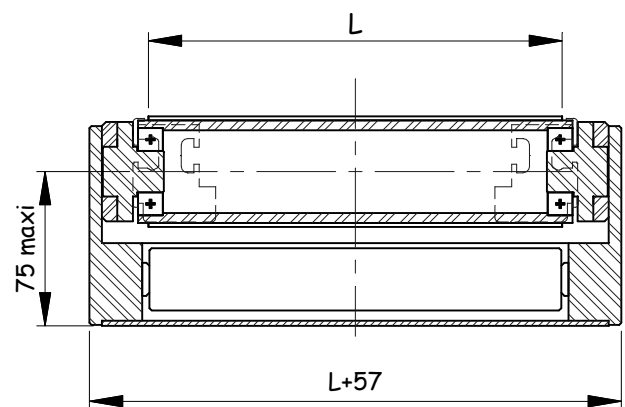
Low grip belt conveyor

L = Belt width

Upward articulation



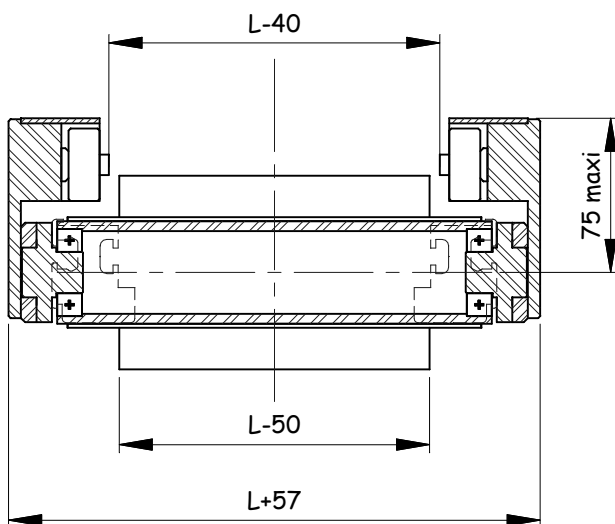
Downward articulation



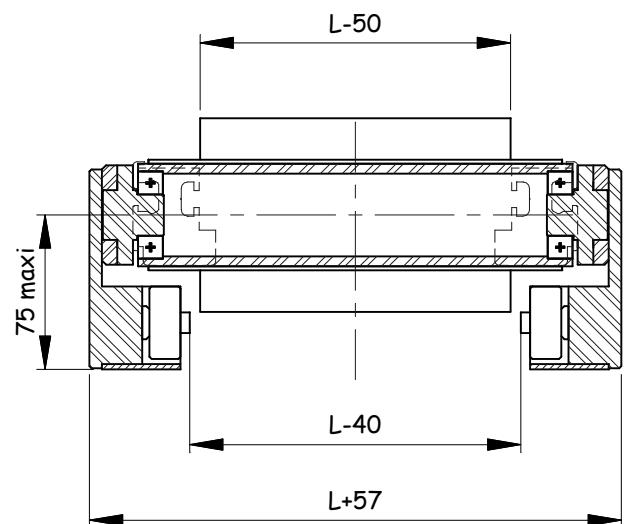
Slat type belt conveyor

L = Belt width

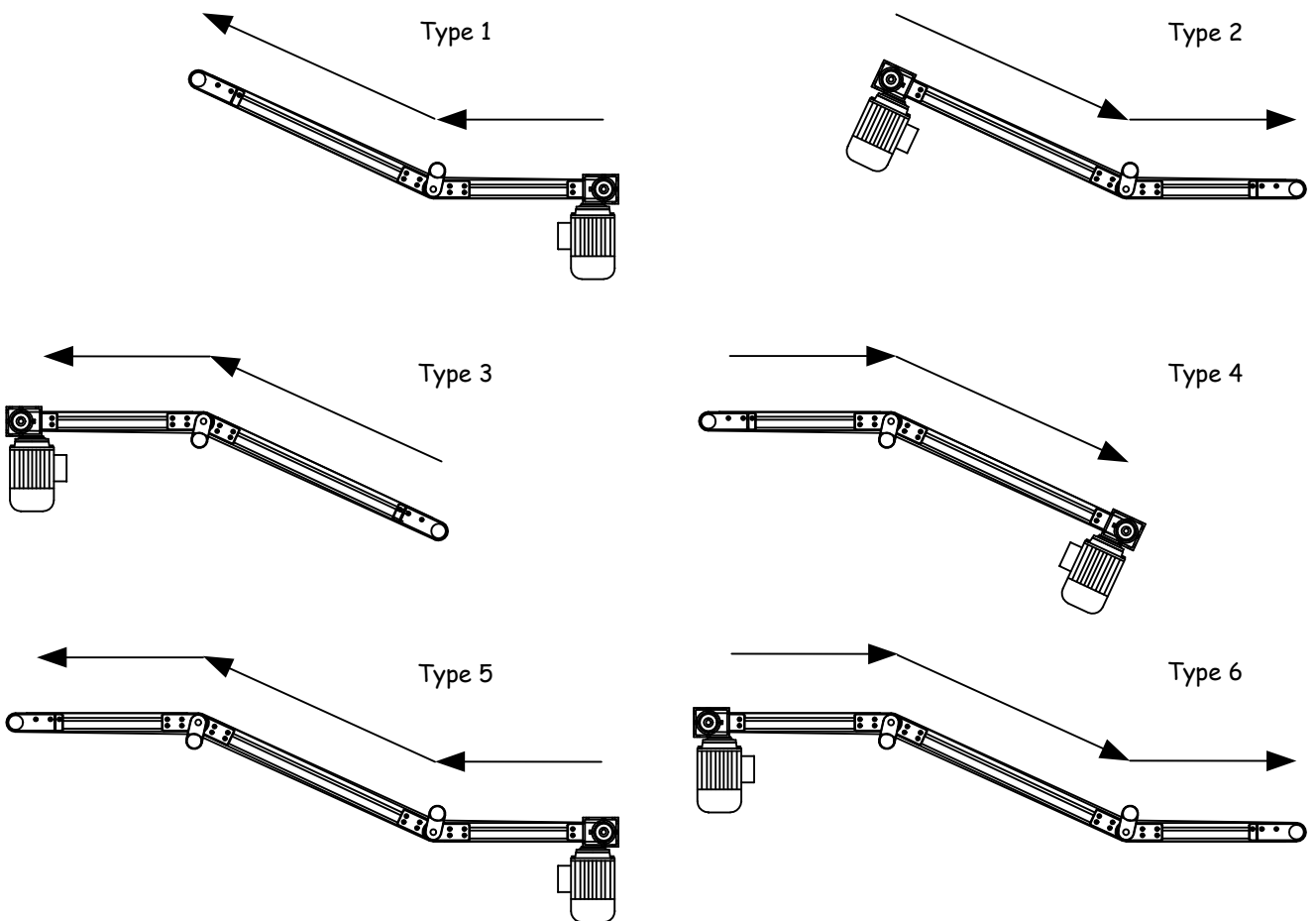
Upward articulation



Downward articulation



Advisable position of motors

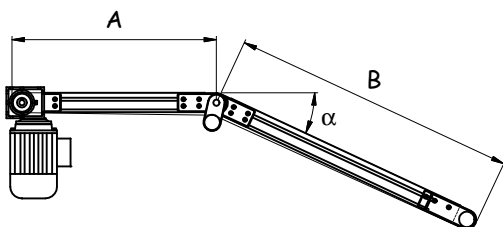


Type of motorization

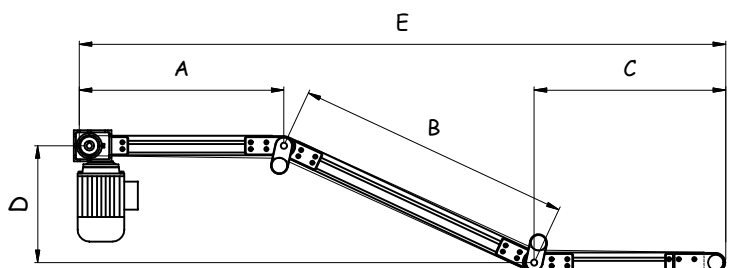
3 types of drive available : direct, shifted and intermediary
 direct drive is necessary with slats or content edges

dimensions to be specified in case of order

one articulation conveyor



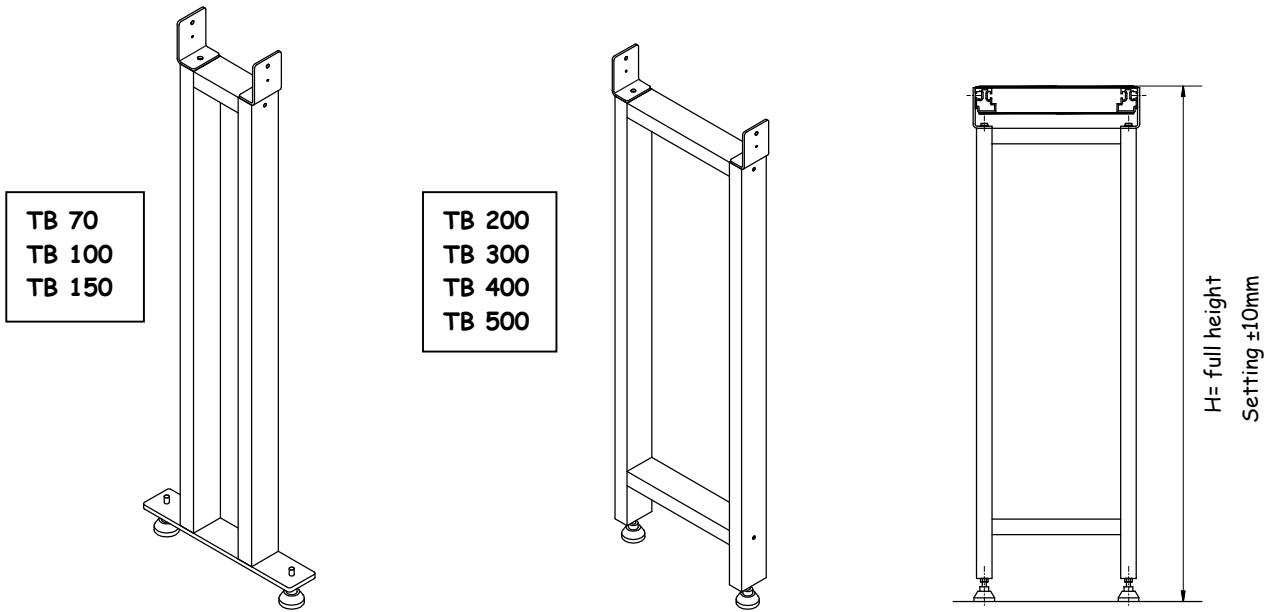
two articulation conveyor



Conveyor width	width 70	width 100	width 150	width 200	width 300
Articulation reference	3076	3106	3156	3206	3306

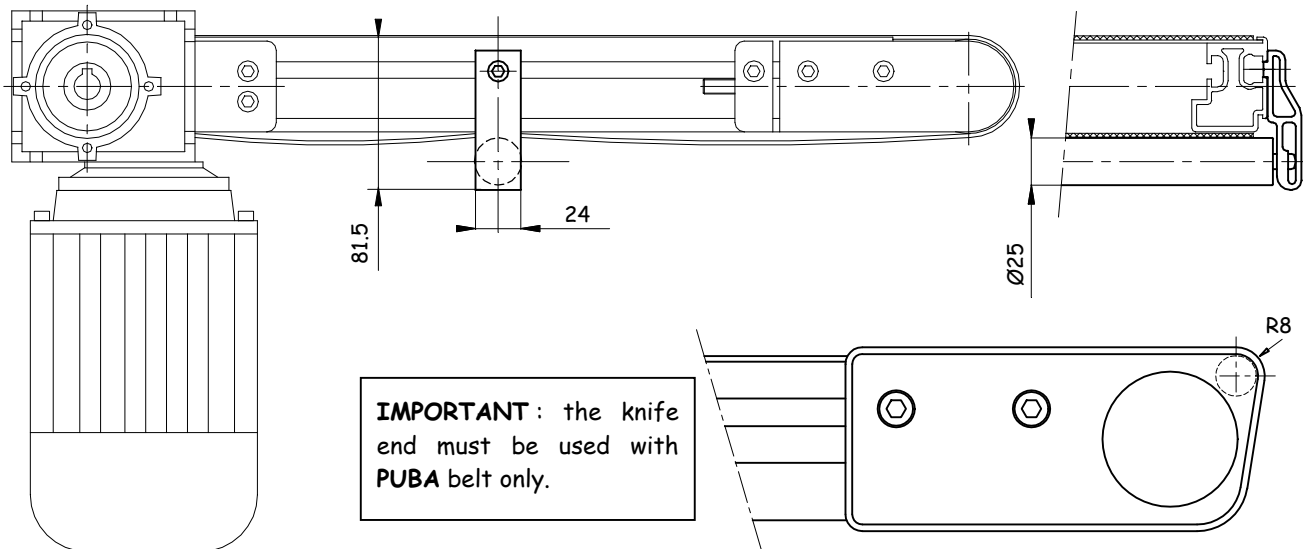
The developed length of a conveyor should not exceed 6 meters
 For any conveyor length above 2500mm, a support roller is necessary
 please contact us for any width above 300 mm

Leg sets : aluminium profiles 30x60, 3 slots 8mm for rectangular nuts.



Leg sets	BELT WIDTHS (mm)						
	TB 70	TB 100	TB 150	TB 200	TB 300	TB 400	TB 500
References	3073	3103	3153	3203	3303	3403	3563

Support roller : to be used from L=2500mm and at intervals of 2000mm

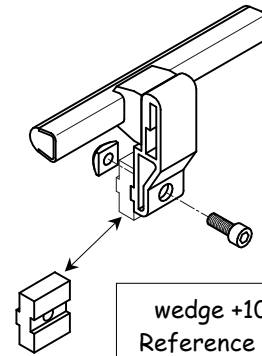
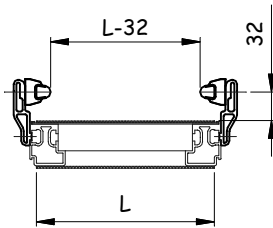


Knife end R=8 : Direct or shifted drive : 1 possible knife end
Intermediate drive : 2 possible knife ends

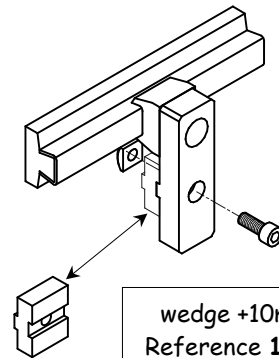
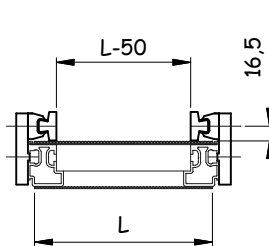
References	BELT WIDTHS (mm)						
	TB 70	TB 100	TB 150	TB 200	TB 300	TB 400	TB 500
Support roller	3075	3105	3155	3205	3305	3405	3565
Knife end	3607	3610	3615	3620	3630	3640	3650

Side guiding profile

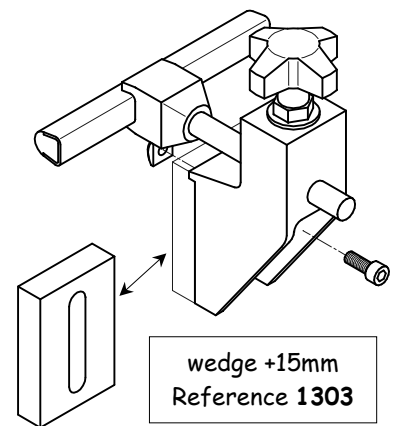
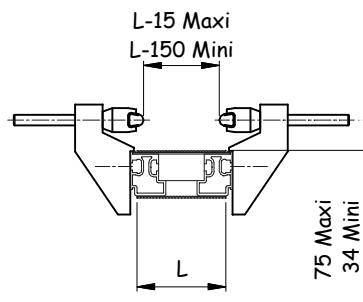
Fixed standard type
Reference 3050



Flush guiding
Fixed type
Reference 3350

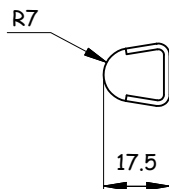


Adjustable type
Reference 3700

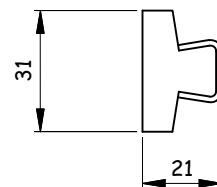


PE/stainless steel Guiding profile

Reference : 1219



Reference : 1498

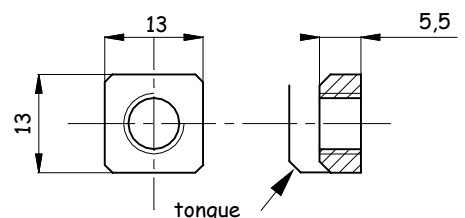


Groove nut

Delivered by packs of 10 pieces

The tongue keeps the nut in position in the vertical grooves

	M4	M5	M6	M8
Without tongue	Réf. 1117	Réf. 1118	Réf. 1119	Réf. 1120
With tongue	Réf. 1750	Réf. 1751	Réf. 1752	Réf. 1753



The advantages of a good design

Cleanliness and long life of low friction stainless steel bed plate

Compact and robust anodized aluminium accessories

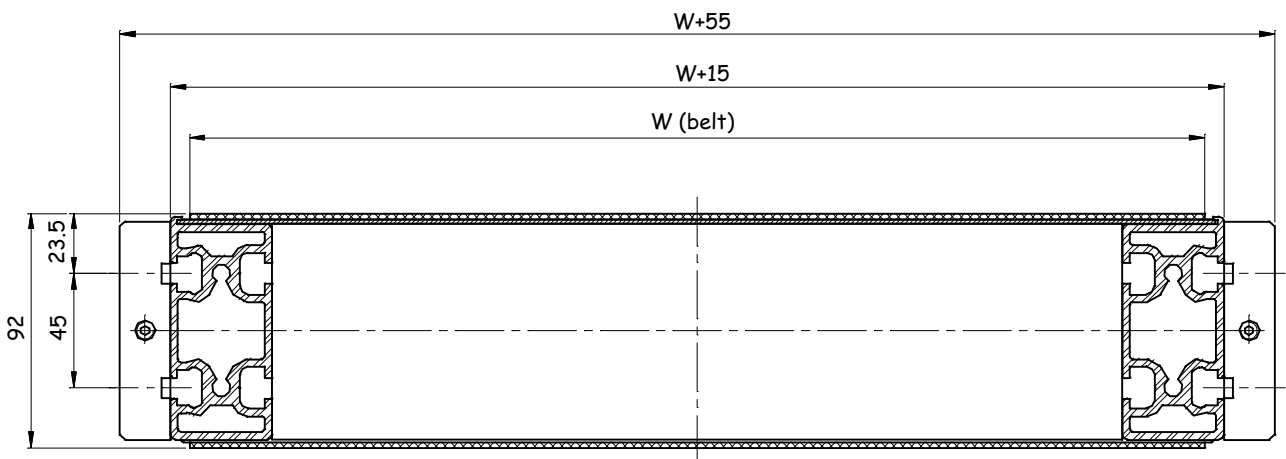
Wide range of available speeds with a SEW motorreducer (120W, 180W or 250W, 230/400 V) 3 phased

Drive accuracy with Ø90 steel roller

Carrying belt
600, 800, 1000, 1200 mm
low grip PVC or high grip PVC
food quality PVC
smooth PU
heavy duty PU
others on request

Accuracy and reliability of belt tensioning and alignment

Rigidity of structure made of anodized aluminium 85x40 profile (8mm slot for 13mm square nuts)



The nominal lengths of the belt conveyor are shown in a non-tensioned state.

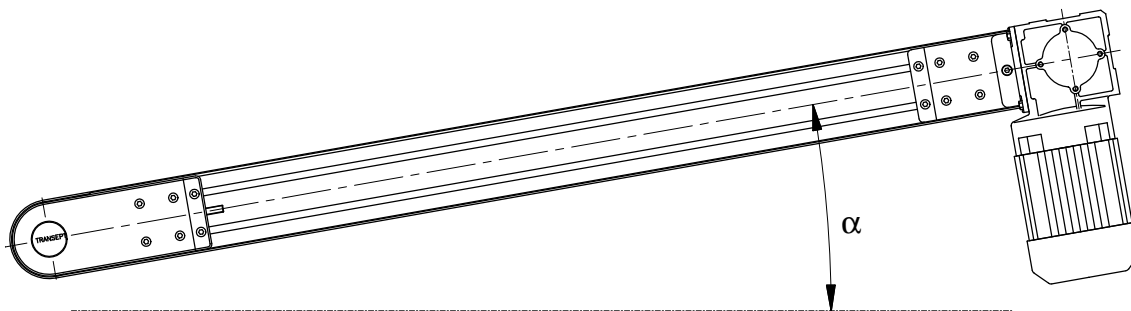
Initial tensioning of the belt during assembly will result in an increase in length of between 0.25% and 0.30% of the conveyors nominal length (i.e. from 2.5mm to 3mm for each conveyor meter).

With maximum tension applied to the belt an increase in length of 0.5% will be observed (i.e. 5mm for each conveyor meter).

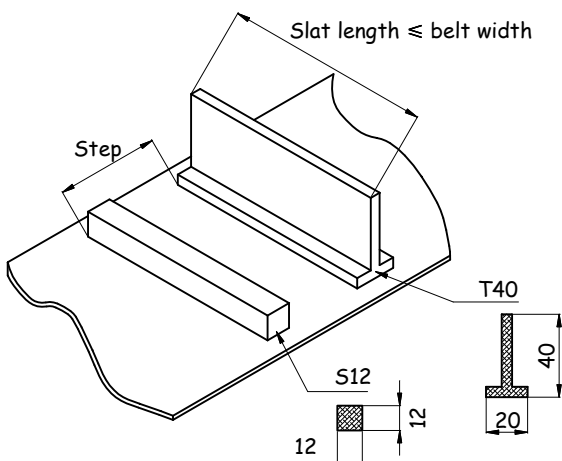
Overall maximum length : **6000mm** (bigger on special request).

Allowable loading from 100kg to 200kg according to conveyor width.

Speed versus inclination : consult us.



Available belts	Ref.	Th. (mm)	⚡	T _{max}	FDA	Utilisation
Low grip PVC (black)	PVCL	1,8	yes	60°C	no	Carrying (α up to 5°), accumulation is possible
High grip PVC (dark green)	PVCA	2,5	yes	60°C	no	Carrying (α up to 30°), accumulation is impossible
« food quality » PVC (white)	ALIM	2,0	no	60°C	yes	Carrying (α up to 10°), accumulation is allowed
Smooth PU (dark green)	PUBA	1,6	yes	100°C	no	Carrying (α up to 5°), accumulation is possible
PU heavy duty (green)	PUAD	2,3	yes	100°C	no	Carrying (α up to 10°), accumulation is allowed
Other belts (translucent, high temperature,...) on special request						

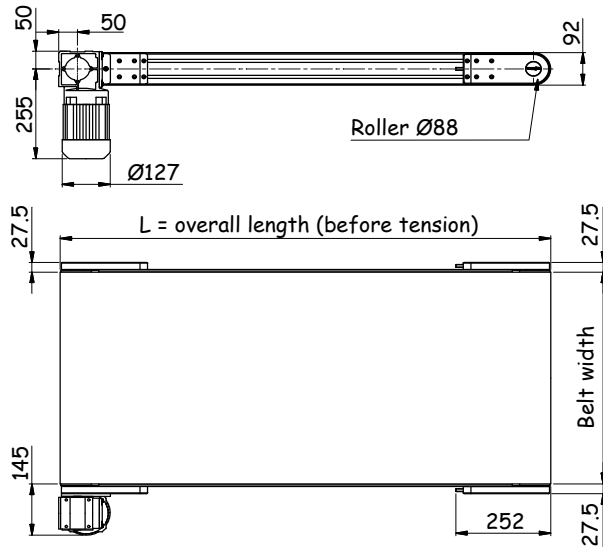
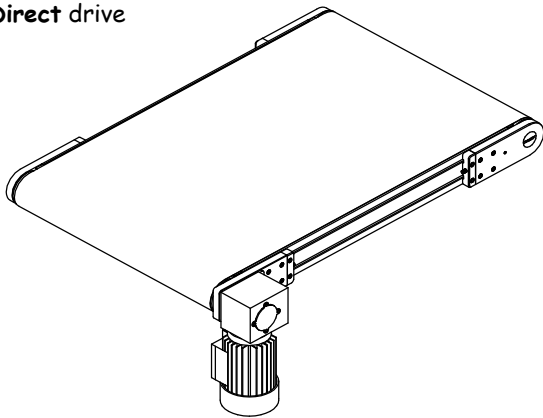


SLATS

IMPORTANT : only PUBA belt may accept slats. Please, indicate step or slat number. Choose preferently **ODD** number.

References 1529 (square slat S12)
1530 (« T » slat T40)

Direct drive



SEW-USOCOME motorization		BELT WIDTHS (mm)			
		TB 600	TB 800	TB 1000	TB 1200
Direct drive	Right	3960	3980	3950	3912
	Left	3961	3981	3951	3913

« STANDARD » SPEEDS							
180W motorreducer ratio	<i>I=75</i>	<i>I=60</i>	<i>I=48</i>	<i>I=39</i>	<i>I=24.5</i>	<i>I=19.5</i>	<i>I=14.33</i>
Belt speed (m/min)	5	6	8	10	15	20	25
Order reference	3905	3906	3908	3910	3915	3920	3925

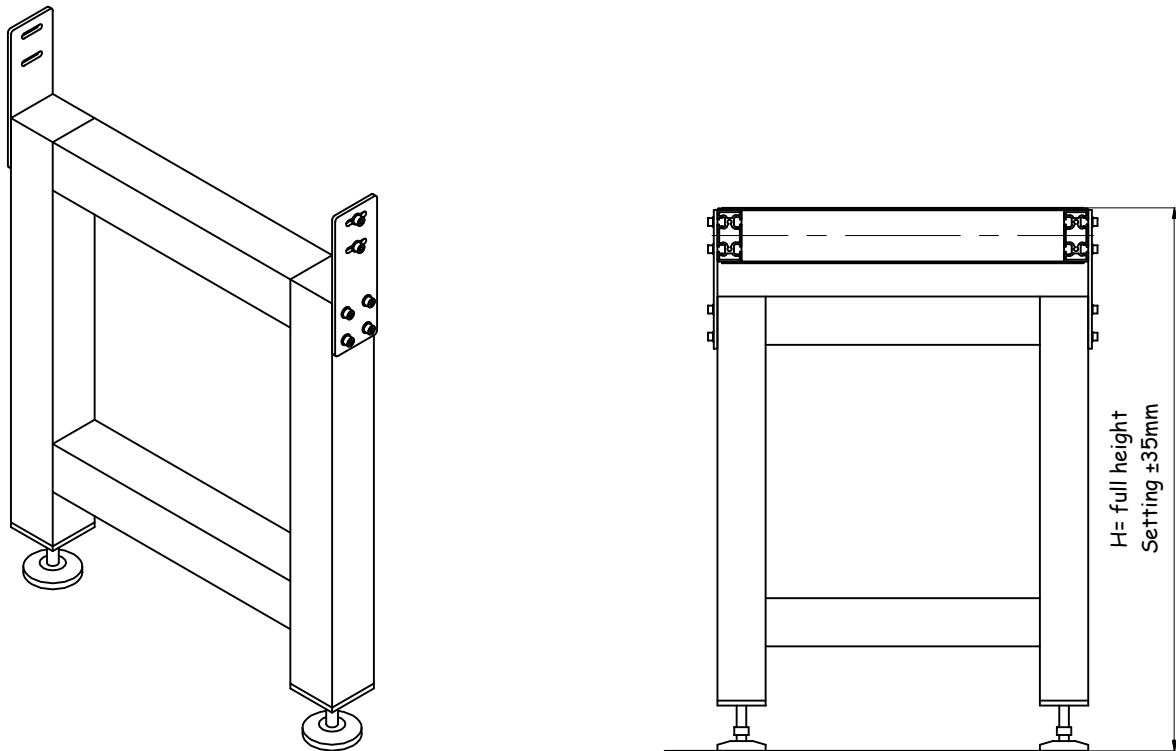
« LOW » SPEEDS	
120W motorreducer ratio	<i>I=75</i>
Belt speed (m/min)	3.5
Order reference	3903

« HIGH » SPEEDS		
250W motorreducer ratio	<i>I=10.25</i>	<i>I=8.2</i>
Belt speed (m/min)	35	45
Order reference	3935	3945

FREQUENCY INVERTER (input : 240V single-phased)			
Nominal power	180W	370W	750W
Order reference	3000	3001	3002

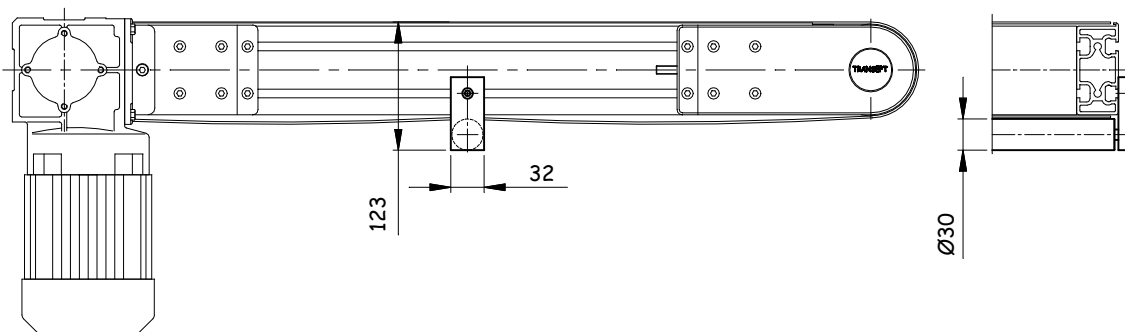
IMPORTANT : consider the indicated speeds (m/min) with a precision of +/-10% at the 50Hz frequency (current supply). The use of a frequency inverter allows to select a range of speed between 50% and 150% of the nominal value indicated at 50Hz.

Leg sets : aluminium profiles 80x80, 8 slots 8mm for square nuts.



	BELT WIDTHS (mm)			
	TB 600	TB 800	TB 1000	TB 1200
References	3895	3896	3897	3898

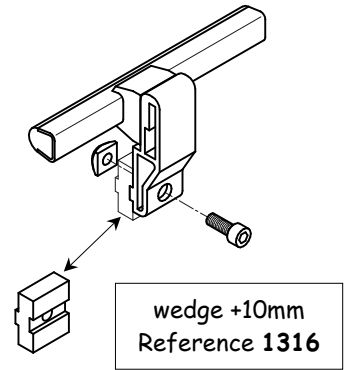
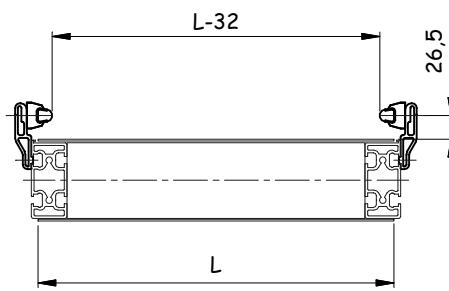
Support roller : to be used from L=2500mm and at intervals of 2000mm



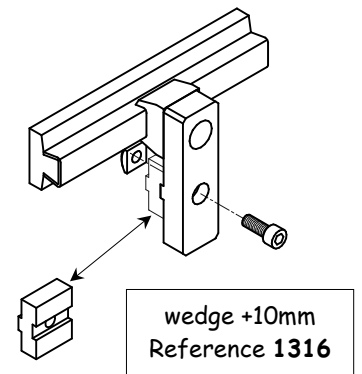
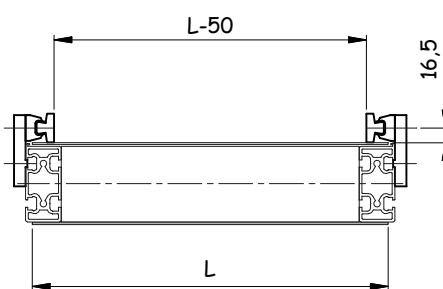
	BELT WIDTHS (mm)			
	TB 600	TB 800	TB 1000	TB 1200
References	3995	3996	3997	3998

Side guiding profile

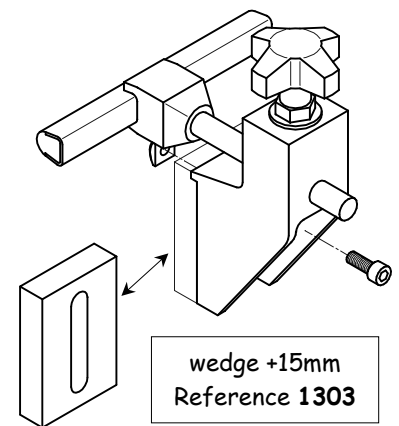
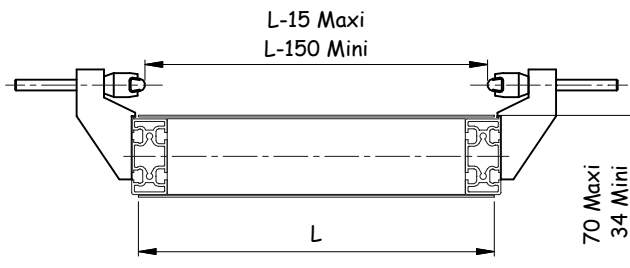
Fixed standard type
Reference 3050



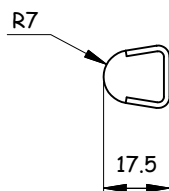
Flush guiding
Fixed type
Reference 3350



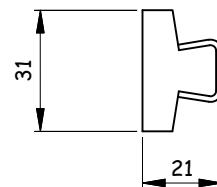
Adjustable type
Reference 3700



PE/Stainless steel
Guiding profile
Reference : 1219



Reference : 1498

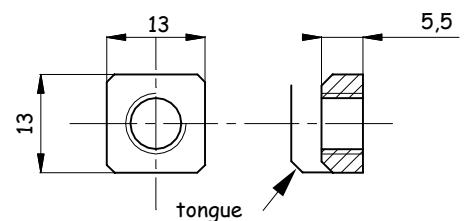


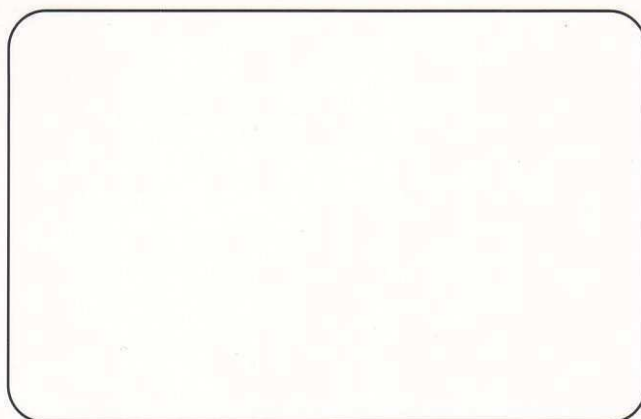
Groove nut

Delivered by packs of 10 pieces

The tongue keeps the nut in position in the vertical grooves

	M4	M5	M6	M8
Without tongue	Réf. 1117	Réf. 1118	Réf. 1119	Réf. 1120
With tongue	Réf. 1750	Réf. 1751	Réf. 1752	Réf. 1753





TRANSEPT sarl

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