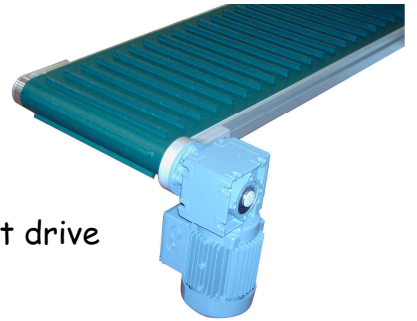


BELT  
CONVEYORS  
**TB** SERIES



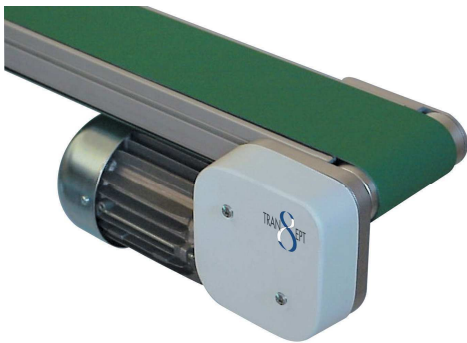
The advantages of a good design

# Transept conceive and manufacture a wide range of belt conveyors



Direct drive

Intermediate drive



Shifted drive



A wide range of belts available



Swan-neck type conveyor fitted with slats

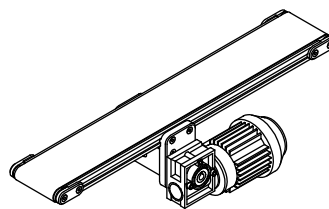


Articulating conveyor

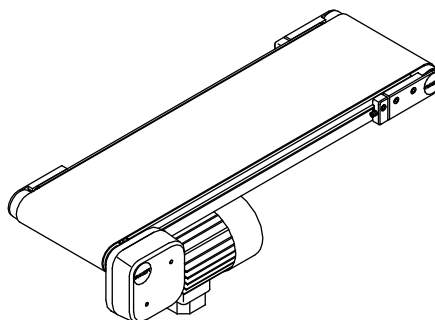
# Type

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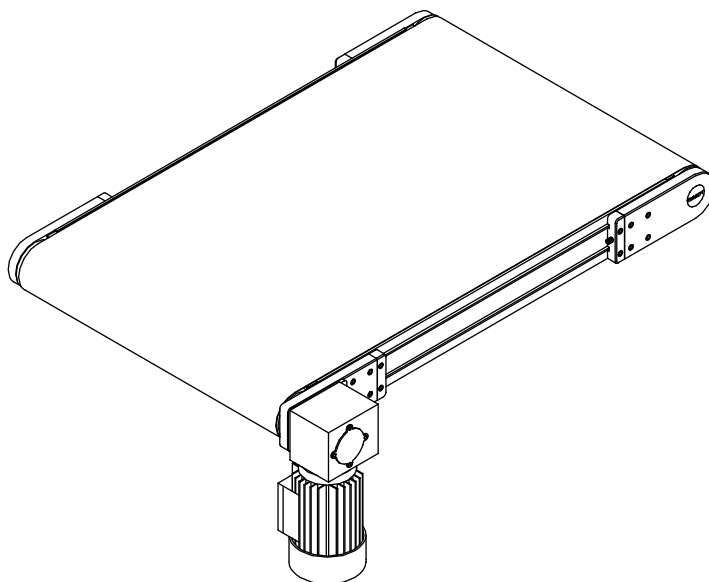
**TB 24**



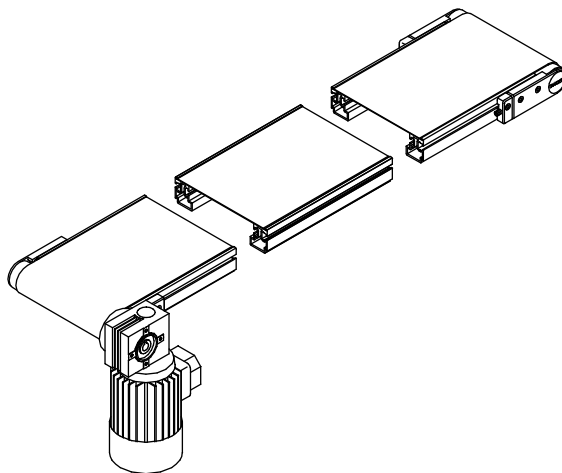
**TB 50**



**TB 90**



**MODULO kit**



# Contents

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## TB TYPES

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## MODULO KIT TYPE

Technical information .....	18
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The advantages of good design

Cleanliness and long-lasting of the stainless steel bedplate

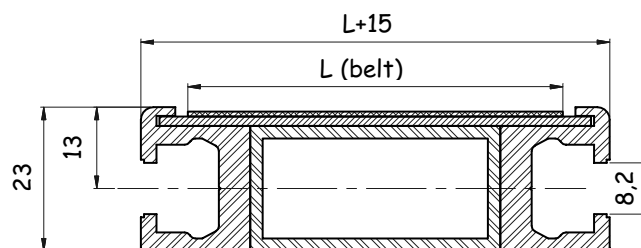
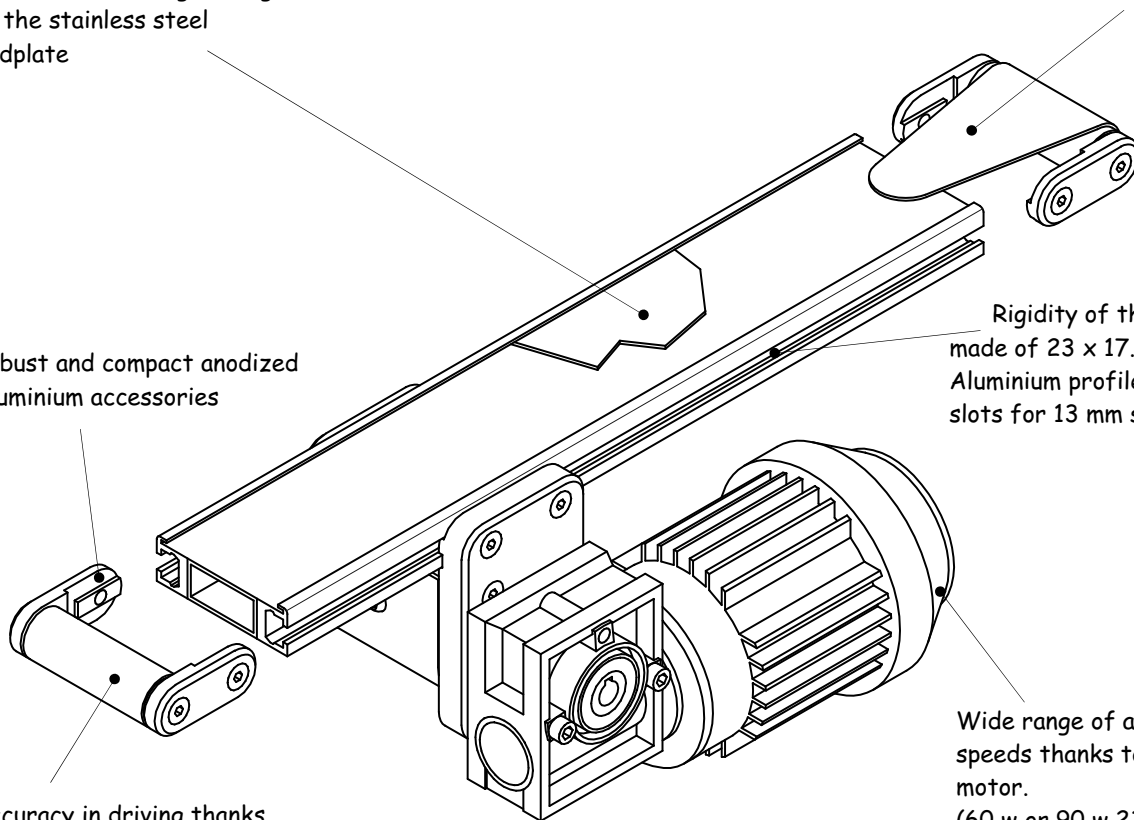
Robust and compact anodized Aluminium accessories

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 23 x 17.5 anodized Aluminium profiles (8 mm slots for 13 mm square nuts)

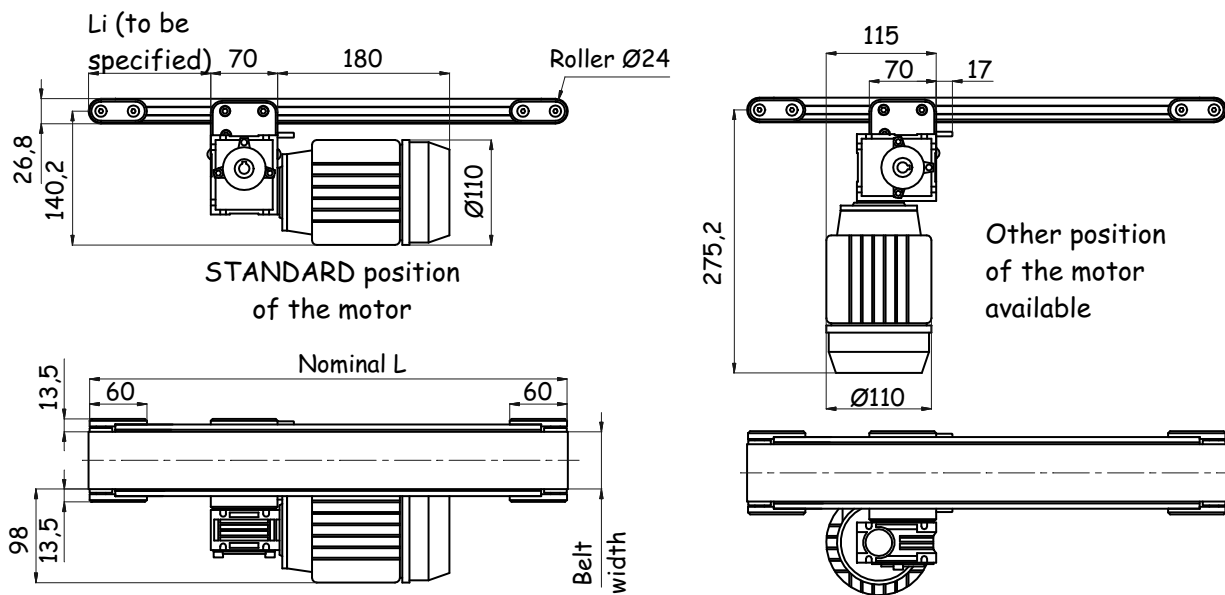
Wide range of available speeds thanks to worm gear motor. (60 w or 90 w 230/400 v) 3 phased



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 : 6000 mm

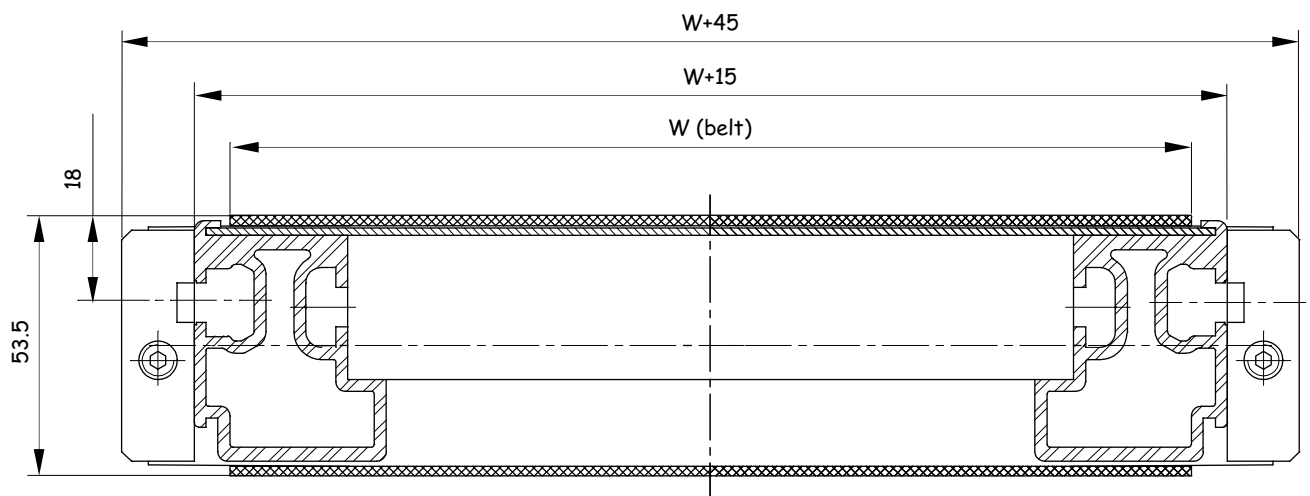
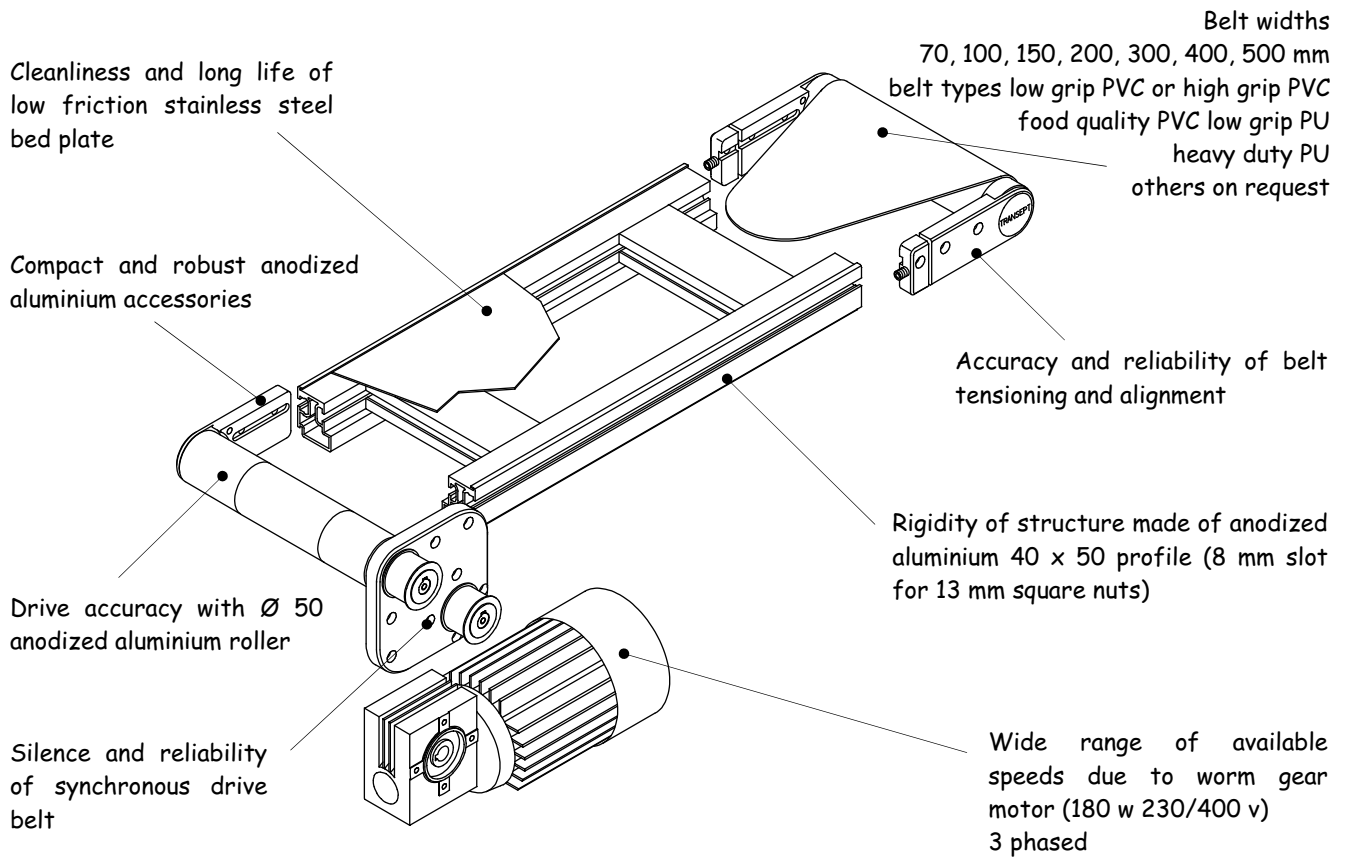
Type de belt	Ref.	thn. (mm)		T <sub>adm</sub>	FDA	Utilisation
Low grip PU belt (green)	PUBA	0,8	yes	100°C	no	transportation, inclination limited at 5°, possible accumulation
Food quality PU belt (white)	PUAL	0,8	no	100°C	yes	
Other types on request						



« 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 50 Hz 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 50 Hz.

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).

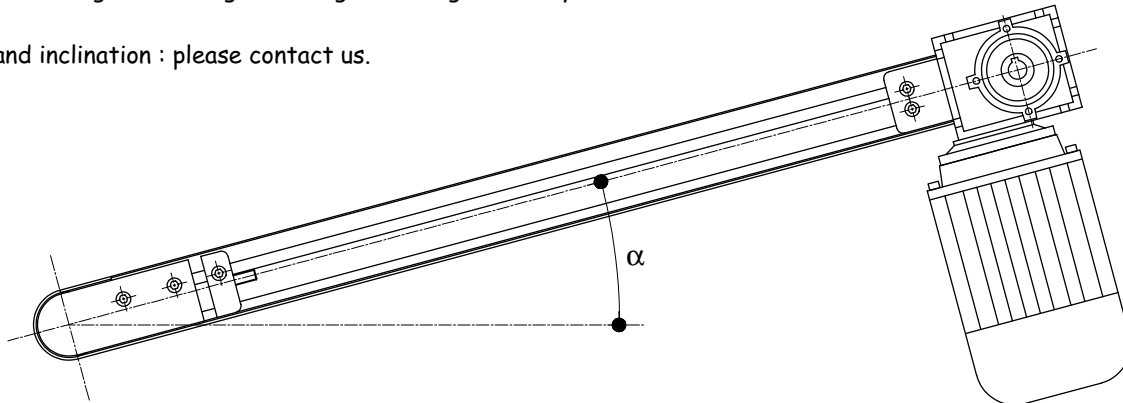
Initial tensioning of the belt during assembly will result in an increase in length of between 0,25 % and 0,30 % of the conveyors nominal length (i.e. from 2,5 mm to 3 mm for each conveyor meter).


With maximum tension applied to the belt an increase in length of 0,5 % will be observed (i.e. 5 mm for each conveyor meter).

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

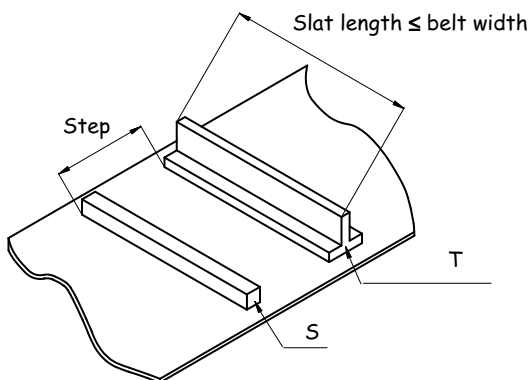
Allowable loading from 40 kg to 100 kg according to conveyor width.

Speed and inclination : please contact us.



Available belts	Ref.	Th. (mm)		T <sub>max</sub>	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						

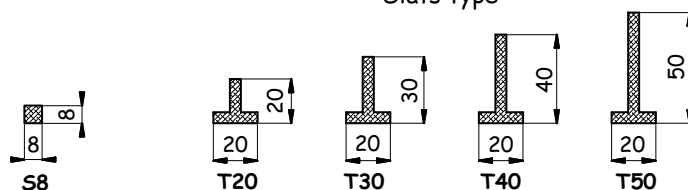
### SLATS



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

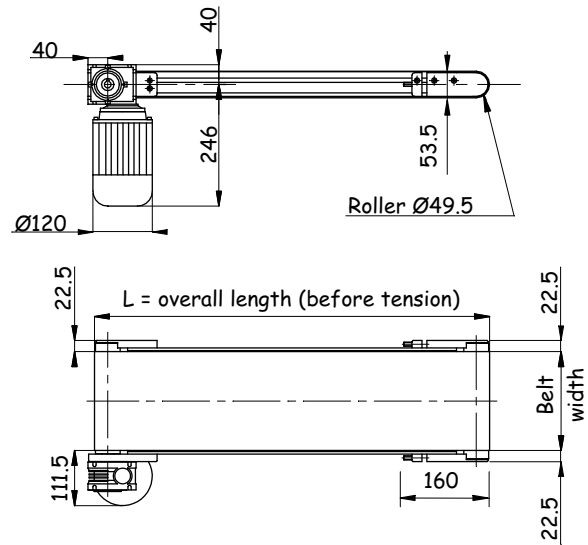
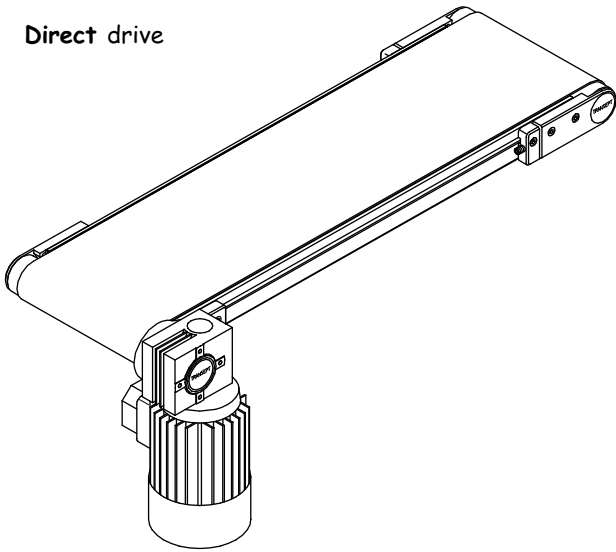
References 1130 (square slat S8)  
1131 (« T » slat T20)

Slats type

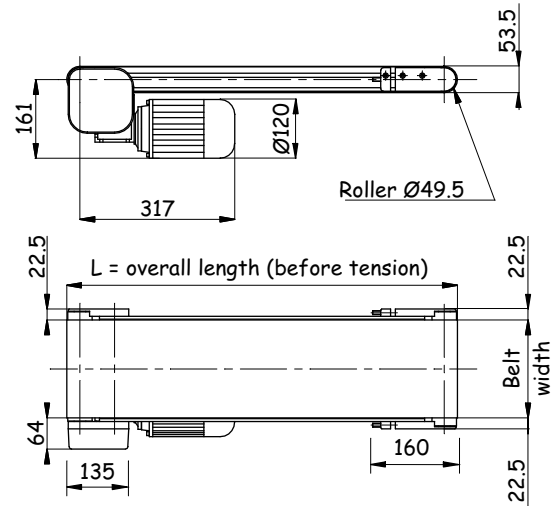
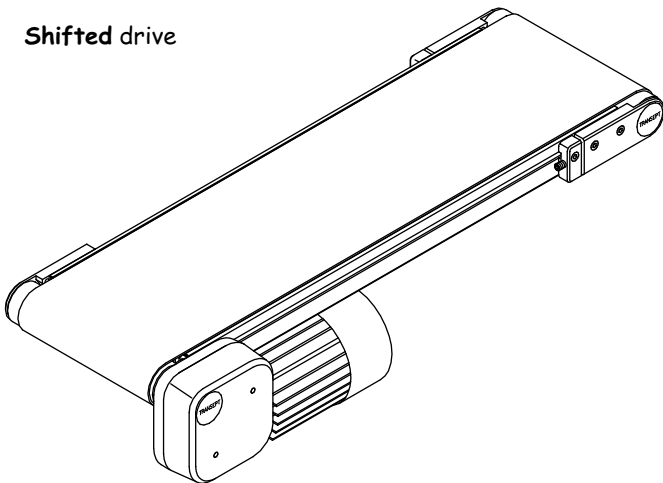




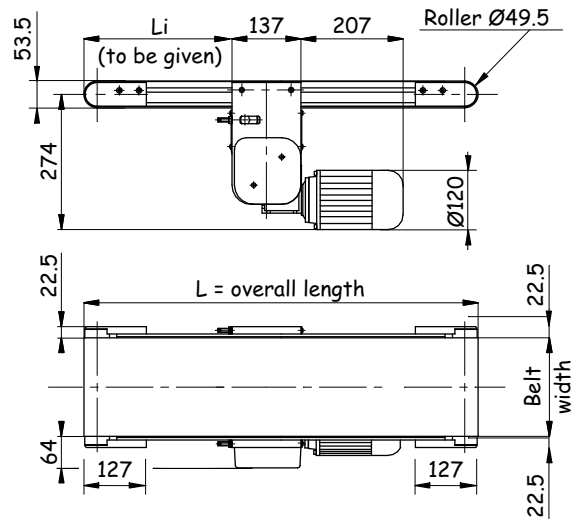
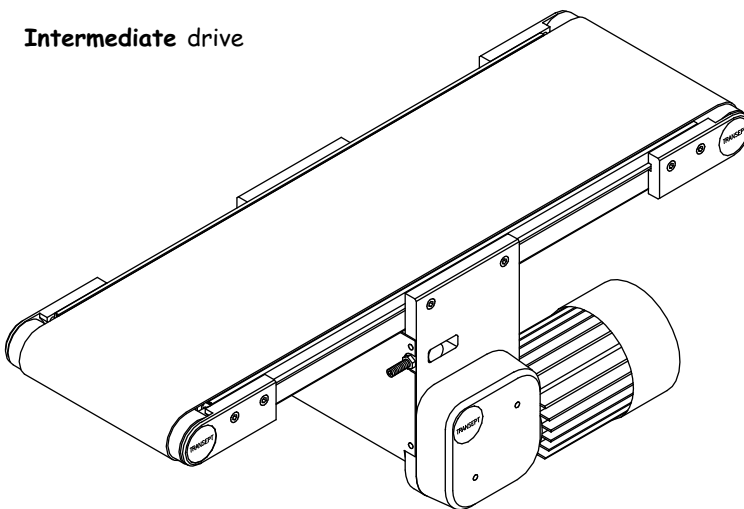
Direct drive



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

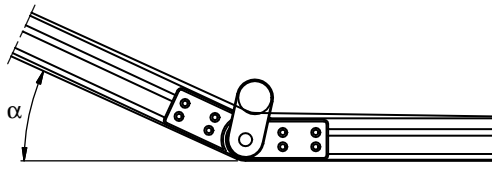
« VERY LOW » SPEEDS					
90W motorreducer dual ratio	<i>I=500</i>	<i>I=250</i>	<i>I=150</i>	<i>I=125</i>	<i>I=100</i>
Belt speed (m/min)	0.5	1	1.5	2	2.5
Order reference	3496	3497	3498	3499	3500

FREQUENCY INVERTER (input : 240 V single-phased)			
Nominal power	180 W	370 W	75 0W
Order reference	3000	3001	3002

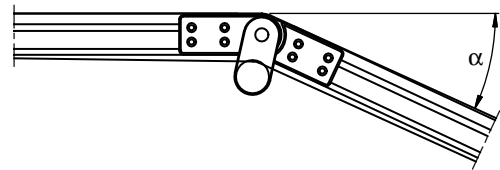
**IMPORTANT** : consider the indicated speeds (m/min) with a precision of +/- 10 % at the 50 Hz frequency (current supply). The use of a frequency inverter allows to select a range of speed between 50 % and 150 % of the nominal value indicated at 50 Hz.

Angle value : adjustable from 0 to 60°

Upward articulation



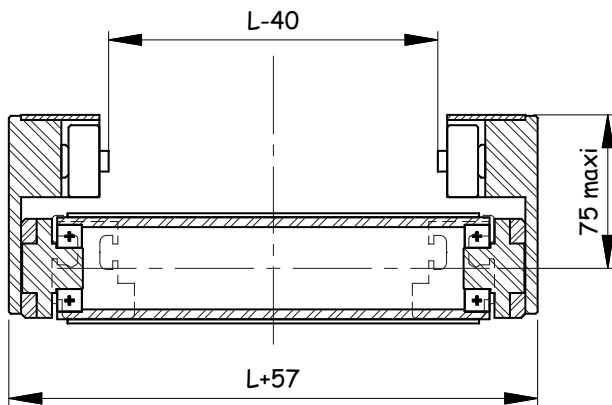
Downward articulation



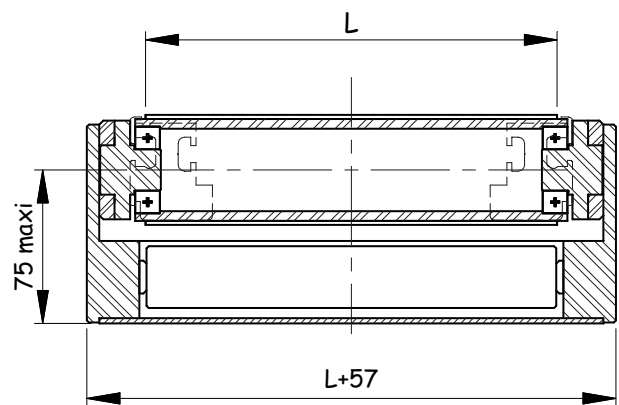
## Low grip belt conveyor

L = Belt width

Upward articulation



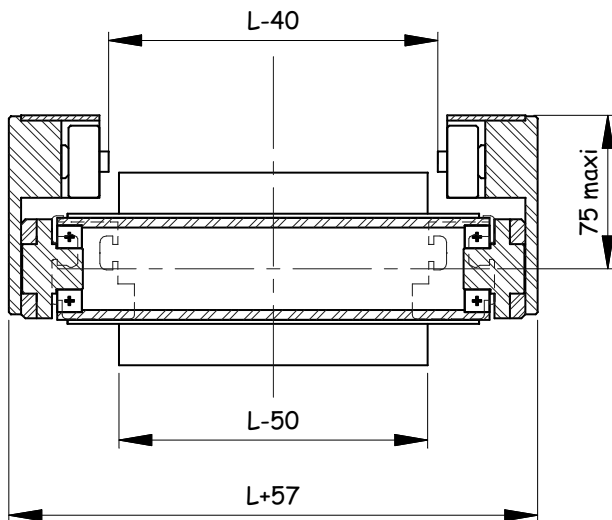
Downward articulation



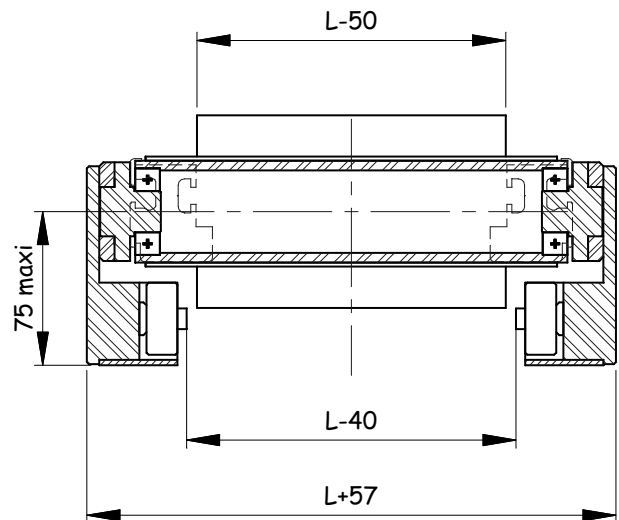
## Slat type belt conveyor

L = Belt width

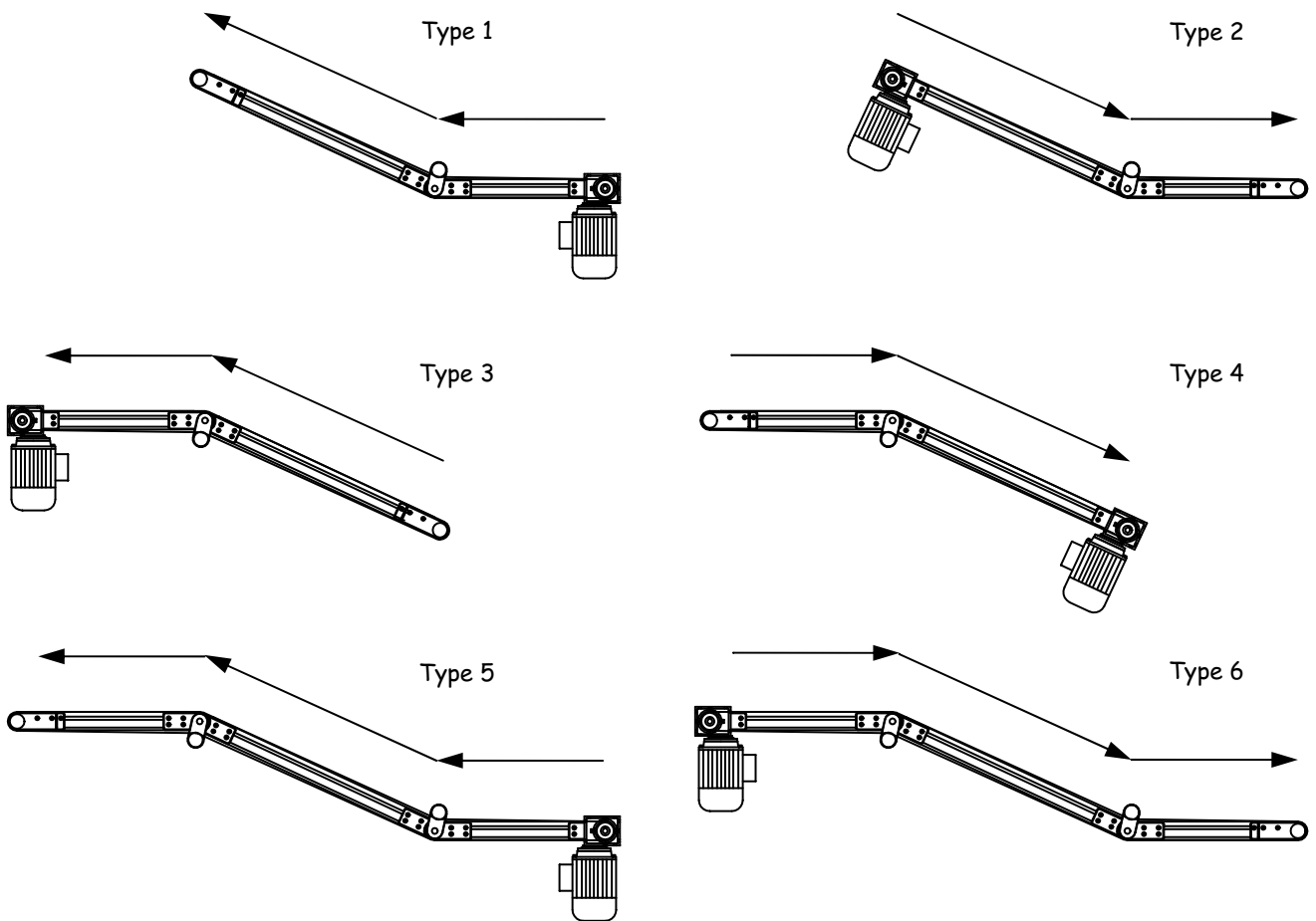
Upward articulation



Downward articulation



### Advisable position of motors

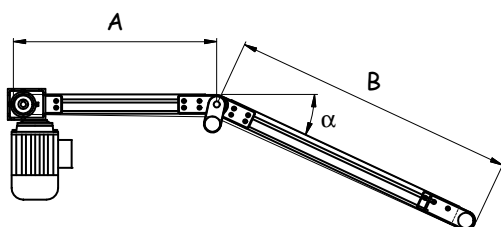


### Type of motorization

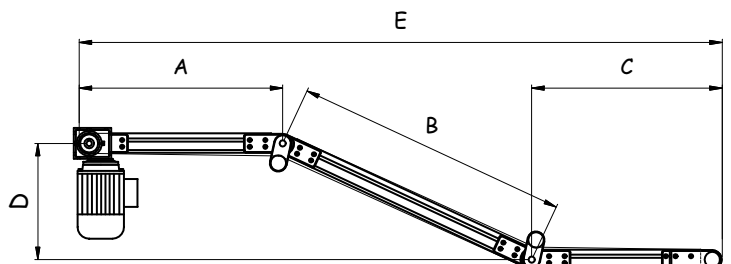
3 types of drive available : direct, shifted and intermediate  
 Direct drive is necessary with slats or content edges;

### Dimensions to be specified in case of order

One-articulation conveyor



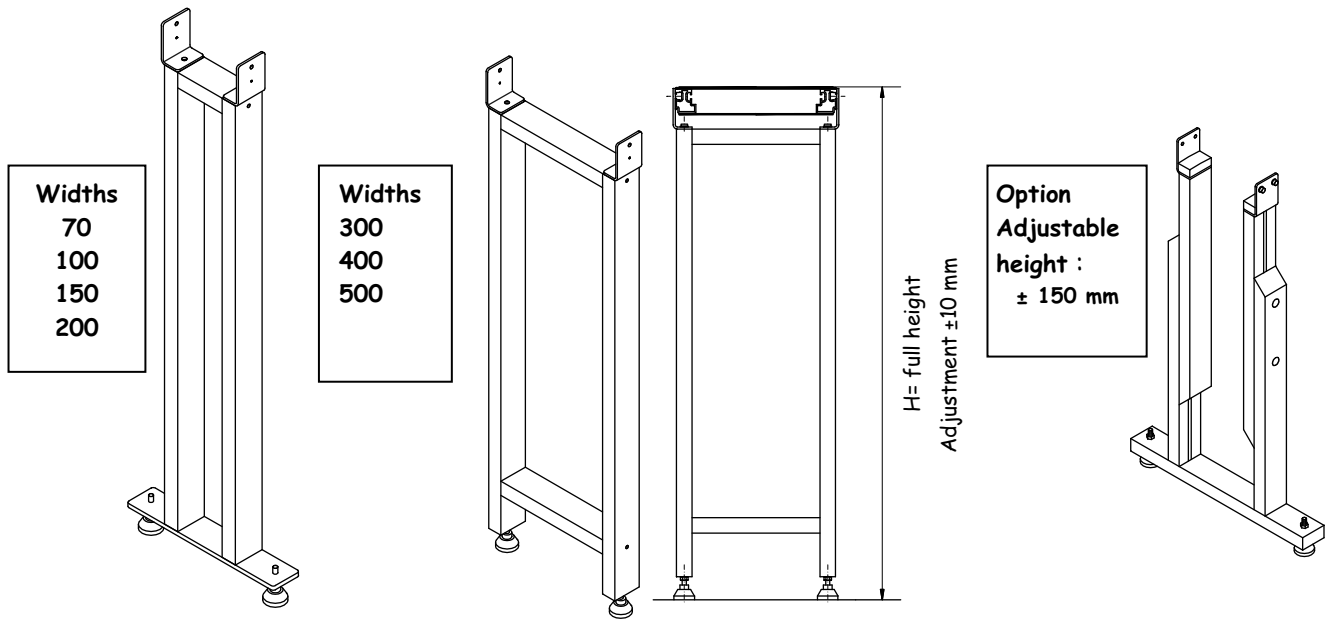
Two-articulation conveyor



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

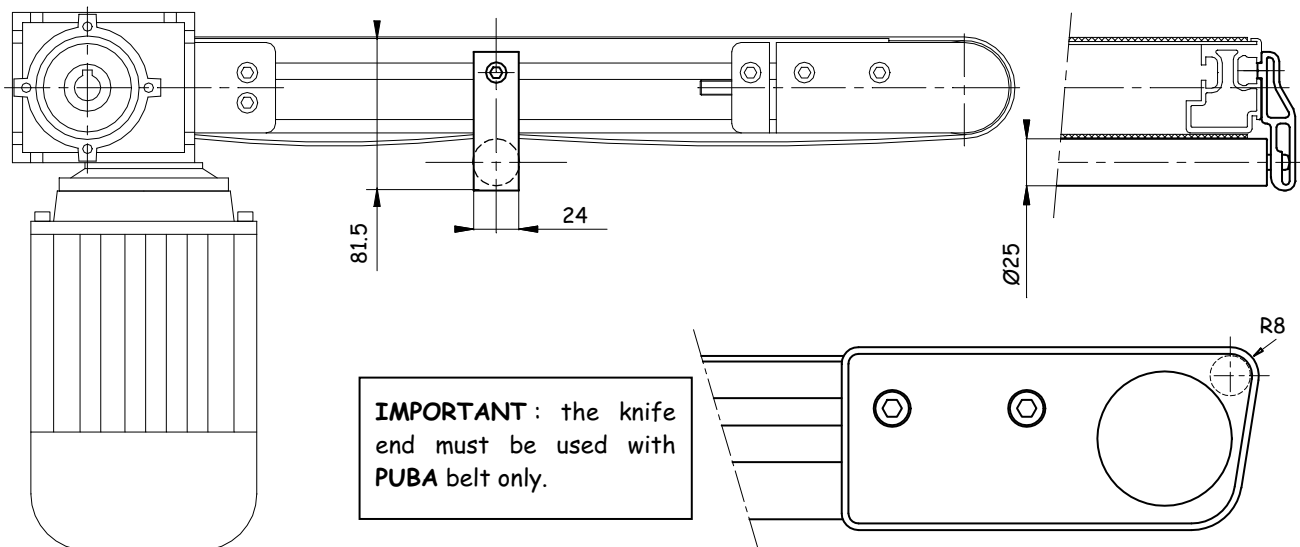
The developed length of a conveyor should not exceed 6 meters  
 For any conveyor length above 2500 mm, a support roller is necessary  
 please contact us for any width above 300 mm;

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



Leg sets	BELT WIDTHS (mm)							Option adjustment ± 150 mm
	70	100	150	200	300	400	500	
References	3073	3103	3153	3203	3303	3403	3563	3711

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

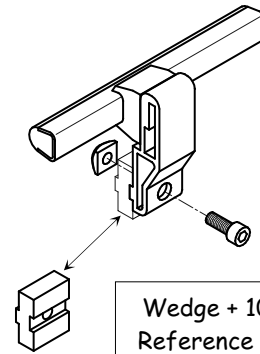
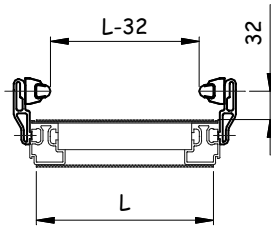


**Knife end R=8** : Direct or shifted drive : 1 possible knife end  
Intermediate drive : 2 possible knife ends

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

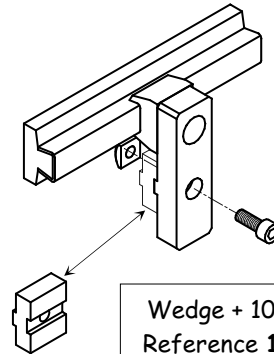
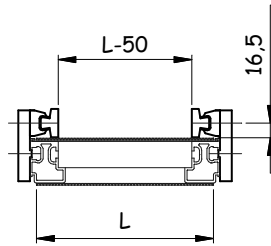
## Side guide profile

Non adjustable type  
Reference 3050



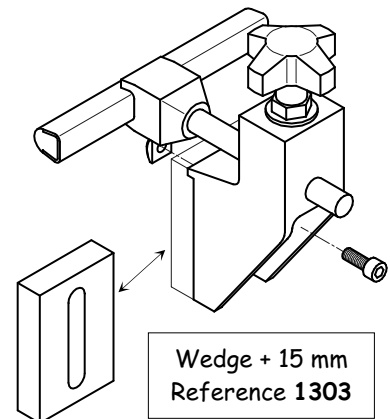
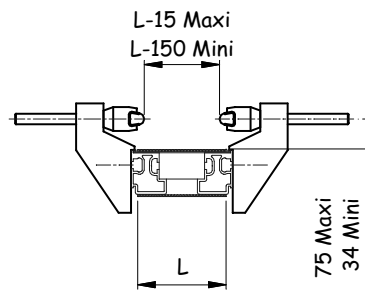
Wedge + 10 mm  
Reference 1316

Non adjustable  
low profile type  
Reference 3350



Wedge + 10 mm  
Reference 1316

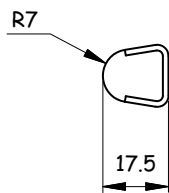
Adjustable type  
Reference 3700



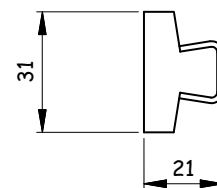
Wedge + 15 mm  
Reference 1303

## PE/stainless steel Guide profile

Reference : 1219



Reference : 1498

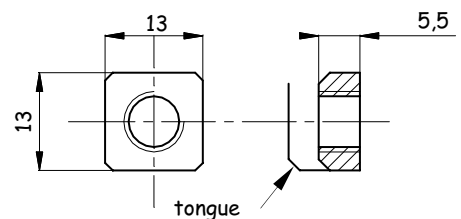


## Groove nut

Delivered by packs of 10 pieces

The tongue keeps the nut in position in the vertical grooves

	M4	M5	M6	M8
Without tongue	Ref. 3714	Ref. 3715	Ref. 3716	Ref. 3718
With tongue	Ref. 3734	Ref. 3735	Ref. 3736	Ref. 3738



For leg set	M4	M5	M6	M8
1/4 turn nuts	Ref. 3724	Ref. 3725	Ref. 3726	

The advantages of a good design

Cleanliness and long life of low friction stainless steel bed plate

Compact and robust anodized aluminium accessories

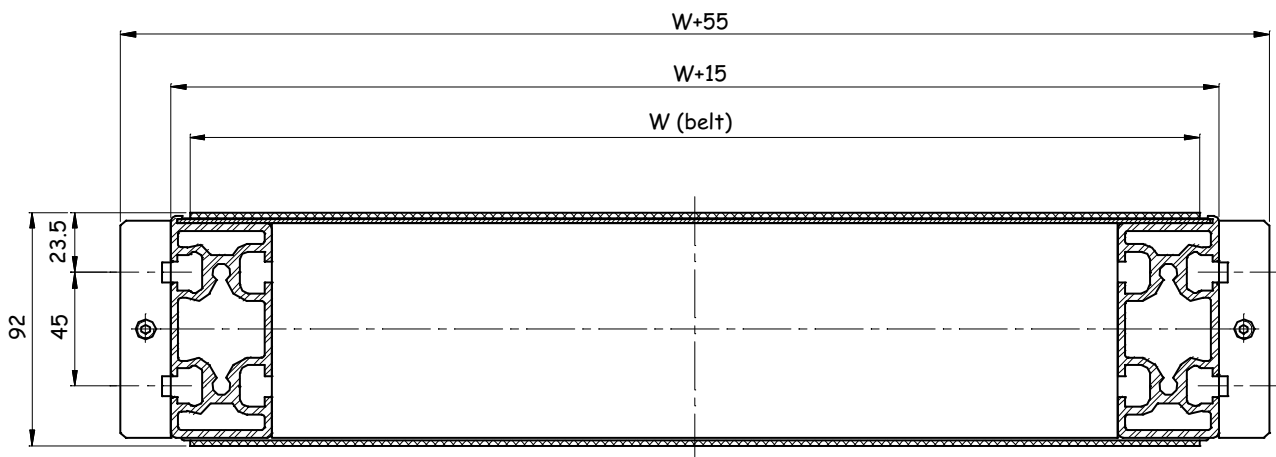
Wide range of available speeds with a SEW motorreducer (120 w, 180 w or 250 w, 230/400 v) 3 phased

Drive accuracy with Ø 90 steel roller

Belt widths :  
 belt types 600, 800, 1000, 1200 mm  
 low grip PVC or high grip PVC  
 food quality PVC  
 low grip PU  
 heavy duty PU  
 others types on request

Accuracy and reliability of belt tensioning and alignment

Rigidity of structure made of anodized aluminium 85 x 40 profile (8 mm slot for 13 mm square nuts)



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

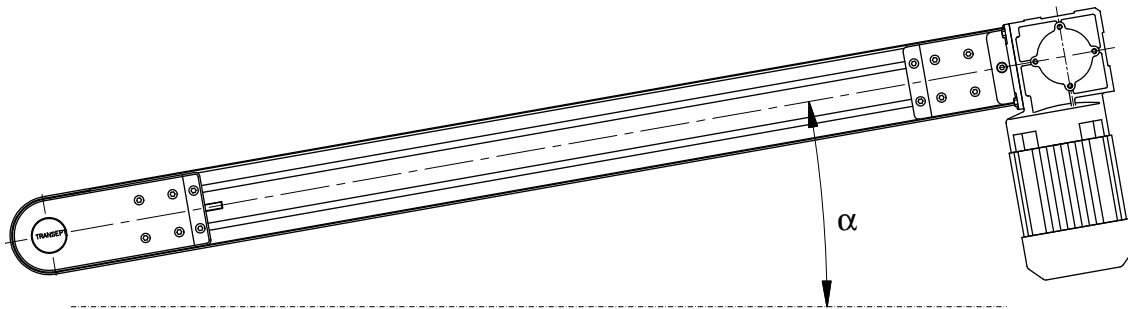
Initial tensioning of the belt during assembly will result in an increase in length of between 0.25% and 0.30% of the conveyors nominal length (i.e. from 2.5 mm to 3 mm for each conveyor meter).

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 : **6000 mm** (bigger size on request).

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

Speed and inclination : please.



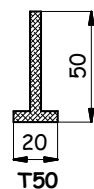
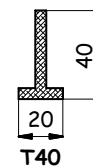
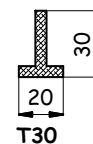
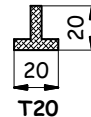
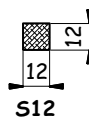
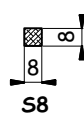
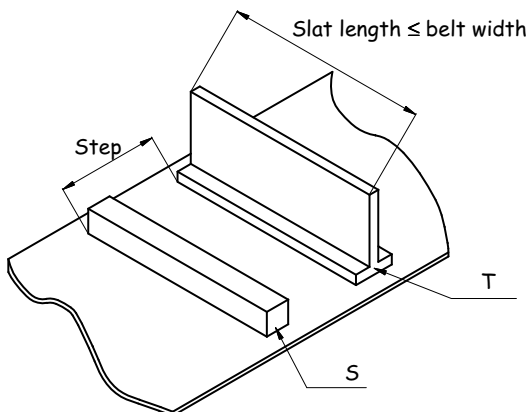
Available belts	Ref.	Th. (mm)	⚡	T <sub>max</sub>	FDA	Utilisation
Low grip PVC (black)	PVCL	1,8	yes	60°C	no	Carrying (α up to 5°), accumulation is possible
High grip PVC (dark green)	PVCA	2,5	yes	60°C	no	Carrying (α up to 30°), accumulation is <b>impossible</b>
« food quality » PVC (white)	ALIM	2,0	no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

### SLATS

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

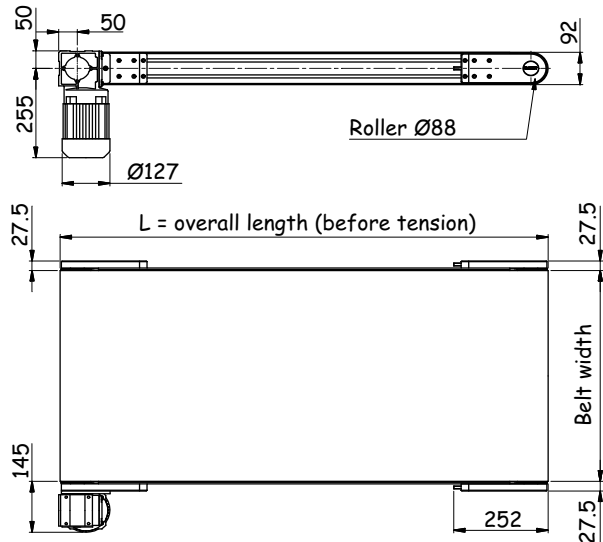
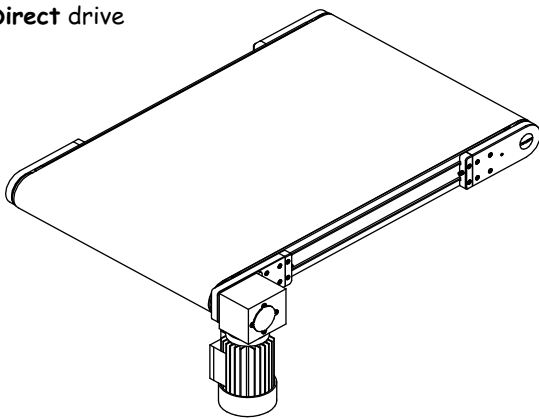
References 1529 (square slat S12)  
1530 (« T » slat T40)

Slats type





Direct drive



SEW-USOCOME Motorisation		BELT WIDTHS (mm)					
		Width 400	Width 500	Width 600	Width 800	Width 1000	Width 1200
Direct drive	Right	3916	3918	3960	3980	3950	3912
	Left	3917	3919	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

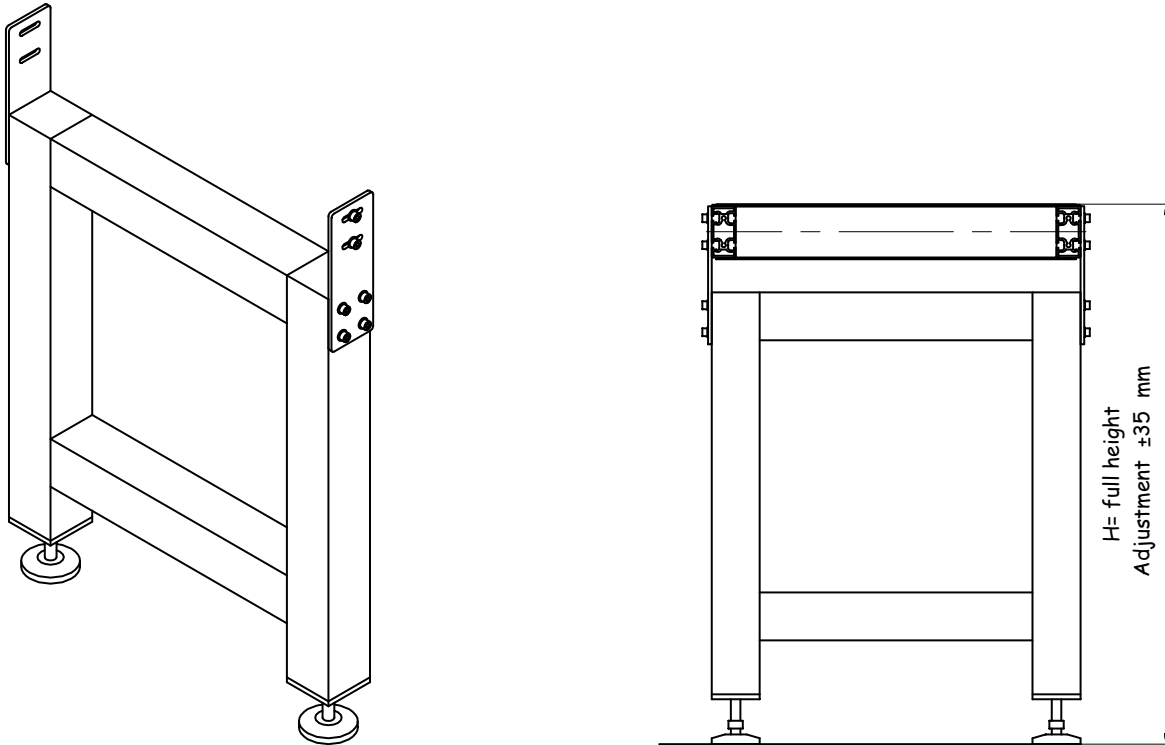
« LOW » SPEEDS	
120W motorreducer ratio	<i>I=75</i>
Belt speed (m/min)	3.5
Order reference	3903

« 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 : 240 V single-phased)			
Nominal power	180W	370W	750W
Order reference	3000	3001	3002

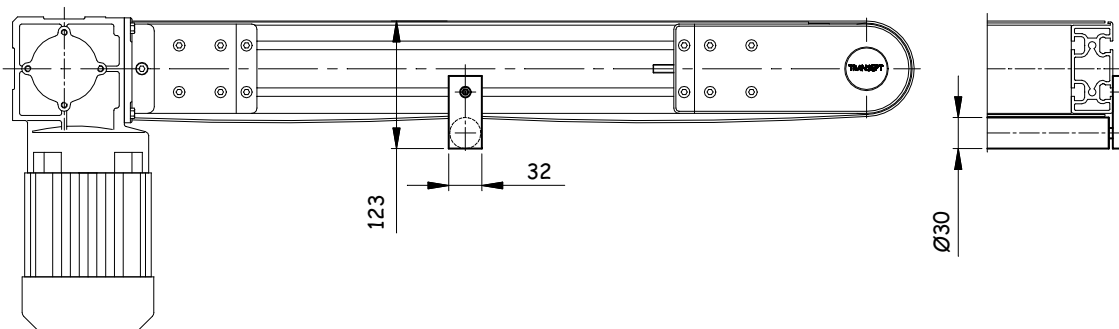
**IMPORTANT** : consider the indicated speeds (m/min) with a precision of +/- 10 % at the 50 Hz frequency (current supply). The use of a frequency inverter allows to select a range of speed between 50 % and 150 % of the nominal value indicated at 50 Hz.

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



Leg sets	BELT WIDTHS (mm)					
	Width 400	Width 500	Width 600	Width 800	Width 1000	Width 1200
References	3893	3894	3895	3896	3897	3898

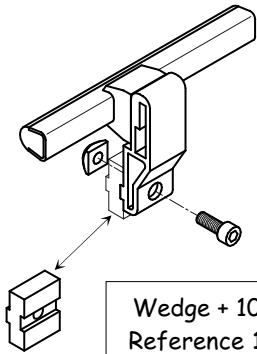
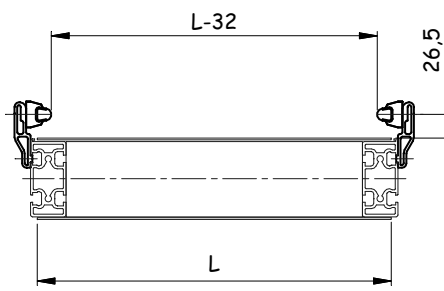
**Support roller** : to be used from L = 2500 mm and at intervals of 2000 mm



Support roller	BELT WIDTHS (mm)					
	Width 400	Width 500	Width 600	Width 800	Width 1000	Width 1200
References	3993	3994	3995	3996	3997	3998

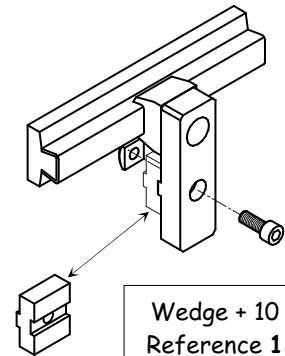
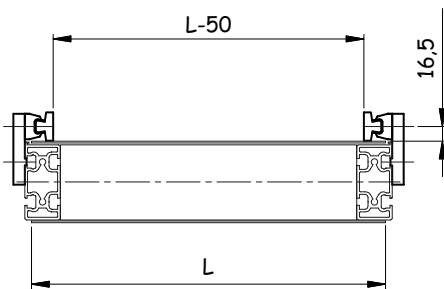
## Side guide profile

Non adjustable type  
Reference 3050



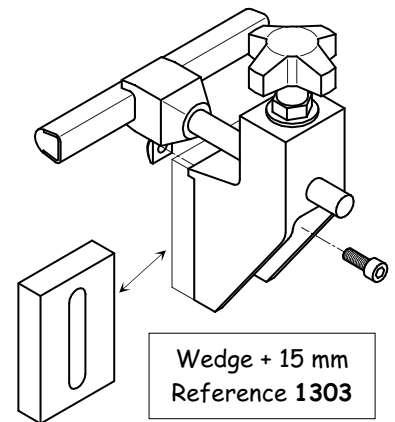
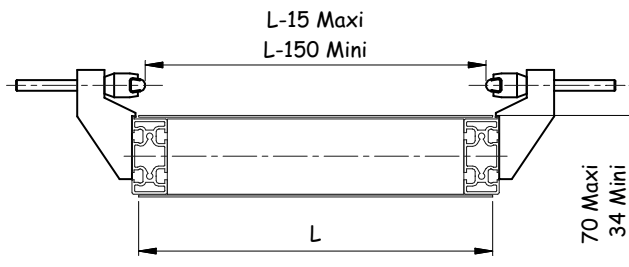
Wedge + 10 mm  
Reference 1316

Non adjustable  
low profile type  
Reference 3350



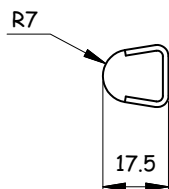
Wedge + 10 mm  
Reference 1316

Adjustable type  
Reference 3700

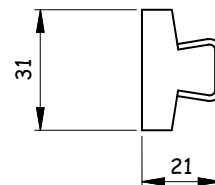


Wedge + 15 mm  
Reference 1303

**PE/Stainless steel**  
**Guide profile**  
Reference : 1219



Reference : 1498

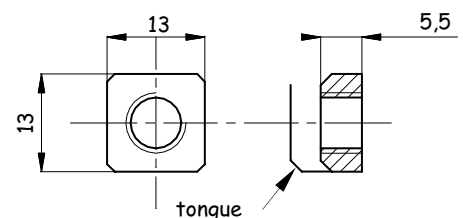


## Groove nut

Delivered by packs of 10 pieces

The tongue keeps the nut in position in the vertical grooves

	M4	M5	M6	M8
Without tongue	Ref. 3714	Ref. 3715	Ref. 3716	Ref. 3718
With tongue	Ref. 3734	Ref. 3735	Ref. 3736	Ref. 3738



**CUSTOMER :** .....

Address : .....

Area code : ..... Town : ..... Country : .....

Contact : ..... Tel : ..... Fax : .....

**WORKING CONDITIONS** and description of the carried part :

.....  
.....

**Roller ND :**

Ø 24

Ø 50

Ø 90

**Overall LENGTH :** ..... mm

**Belt WIDTH :** ..... mm

**Maxi LOAD above the conveyor :** ..... kg

**LOAD WEIGHT :** ..... kg

**SPEED :** ..... m/min

**DRIVES :**

Direct drive

Shifted drive

Intermediate drive

**POSITION** of the motor :

on the right side

on the left side

Type of **BELT** :

low grip PVC belt

High grip PVC belt

Food quality PVC belt

BAasic PUba belt

High grip PU belt

Miscellaneous

**LEG SET :**

Yes  No

Distance from the floor to the top of the belt : .....mm

**SIDE GUIDE PROFILE :**

Yes  No

Non adjustable  Adjustable

Type 1219

Type 1498

**WEDGE :**

Yes  No

Type 1316

Type 1303

**REMARKS :** .....

.....  
.....  
.....

## PRINCIPLE :

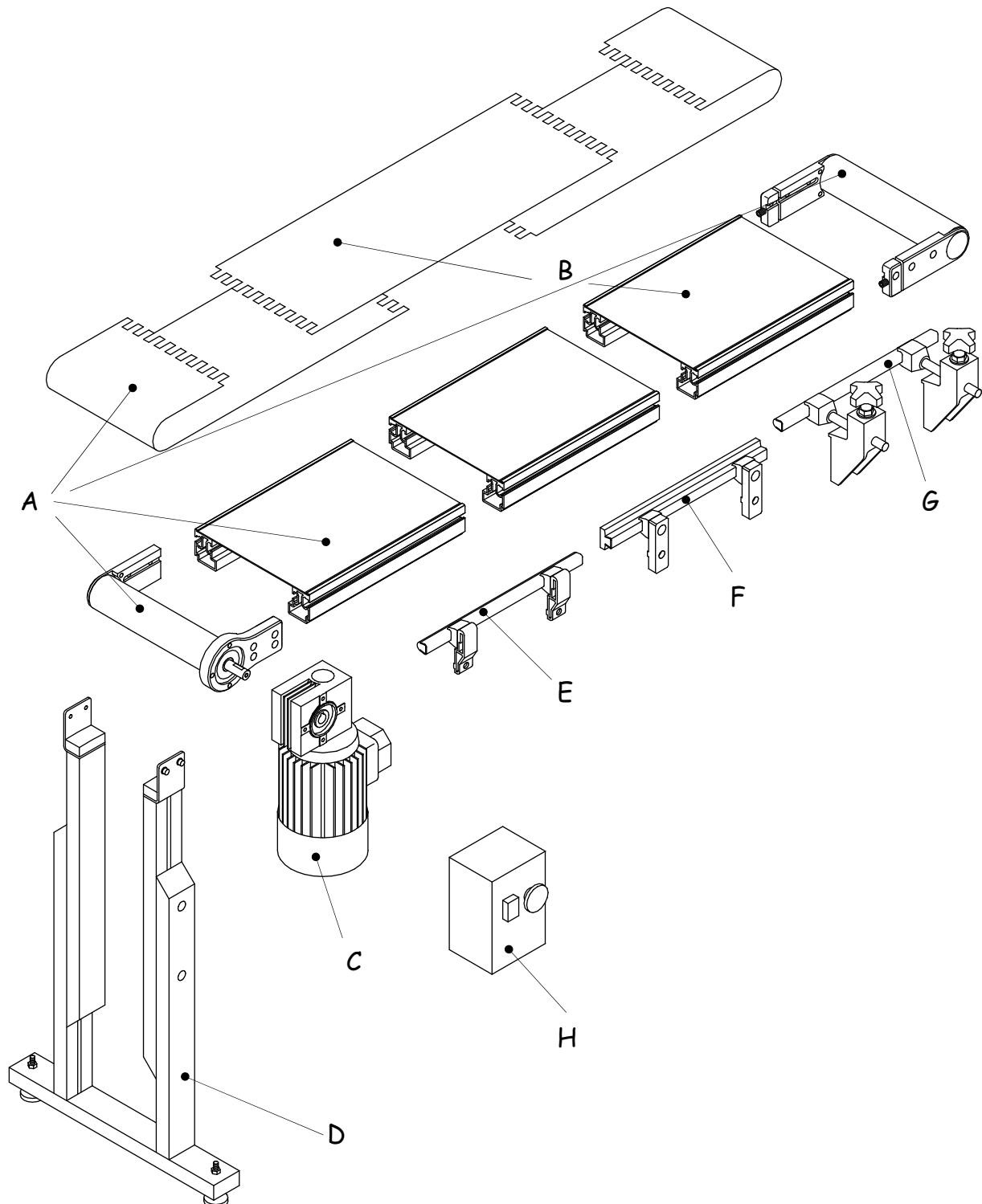
The MODULO KIT conveyor is composed of :

A basic module of 1000 mm long, which can be extended at will by the adjunction of one or several extra modules of 500 mm or 1000 mm long each. The connection of these modules together allows the quick construction of a customized conveyor, which can be later modified according to your needs.

Each module is delivered complete, fitted with a zipped belt allowing modularity.

The lengthening has been carefully designed in order to guarantee proper rigidity.

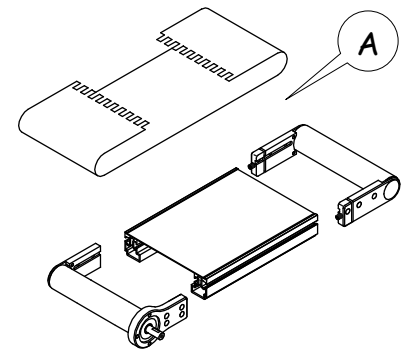
Extra modules for motorization, leg sets, side guide profiles and motor protection as well are also available.



5 belt WIDTHS available (mm) - Low grip PVC black belt				
Width 100	Width 150	Width 200	Width 300	Width 400

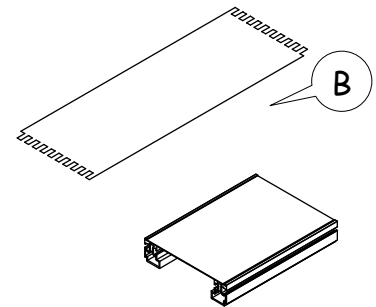
**Basic module :**

Composed of a 1 m long structure, 2 rollers and the tensioning device, the bed plate and the corresponding belt.  
Overall length of the assembled module : 1110 mm.



**Extra extension module :**

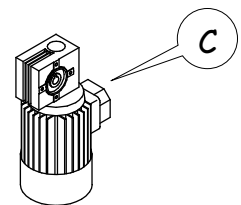
Composed of a 0,5 m or 1 m long structure, the bed plate and the corresponding belt.  
Overall length of the assembled module : 500 or 1000 mm.



**Motorization module :**

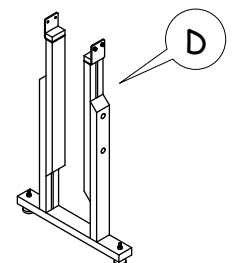
Composed of a gear box mounted on a 180 W 3-phased motor, 240/380 V.

RANGE OF SPEED			
5 m/mn	10 m/mn	24 m/mn	48 m/mn



**Leg set module :**

Composed of one leg set with the belt support.  
One single reference available whatever the belt width is, for an installation height adjustable between 700 mm and 1000 mm.



**Side guide profile module :**

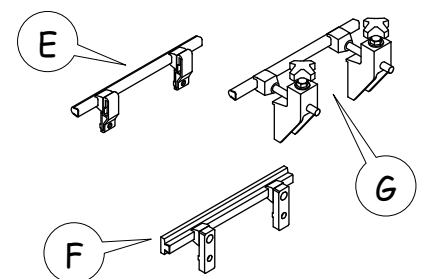
Composed of 4 side guide profile brackets and 2 lengths of 1 m long side profile.

In low profile, non adjustable version.

E : non adjustable

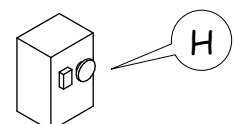
F : low profile

G : adjustable



**Motor protection and control unit module :**

Composed of a motor circuit breaker, its fixing device to be set to the conveyor with control push button and emergency stop, the whole unit set in a IP55 box.



BELT WIDTH in mm		100	150	200	300	400
1000 mm long basic module		Ref. 3130	Ref. 3180	Ref. 3230	Ref. 3330	Ref. 3430
Extra 500 mm long extension module		Ref. 3131	Ref. 3181	Ref. 3231	Ref. 3331	Ref. 3431
Extra 1000 mm long extension module		Ref. 3132	Ref. 3182	Ref. 3232	Ref. 3332	Ref. 3432
Leg set		Ref. 3705				
Option : anchoring links		Ref. 3706				
Side guide profile	Non adjustable	Ref. 3707				
	Non adjustable low profile	Ref. 3708				
	Adjustable	Ref. 3709				
Option : motor + gear box	5 m/mn	Ref. 3505				
	10 m/mn	Ref. 3510				
	24 m/mn	Ref. 3524				
	48 m/mn	Ref. 3548				
Option : motor protection		Ref. 3710				
Nuts (pack of 10 pieces)		M5	M6	M8		
	Square nut	Ref. 3715	Ref. 3716	Ref. 3718		
	1/4 turn nut	Ref. 3725	Ref. 3726			

Reference	Unit price	Qty	Total Price
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**FIRST STEP**

*Select a basic element among the 5 standard widths.*

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**SECOND STEP**

*Select the number of extra modules you need to get the requested length.*


**THIRD STEP**

*Select options among the following different modules.*

Leg set module

--	--	--	--

Option : anchoring links

--	--	--	--

Side guide profile module

--	--	--	--

Motorization module

--	--	--	--

Motor protection module

--	--	--	--

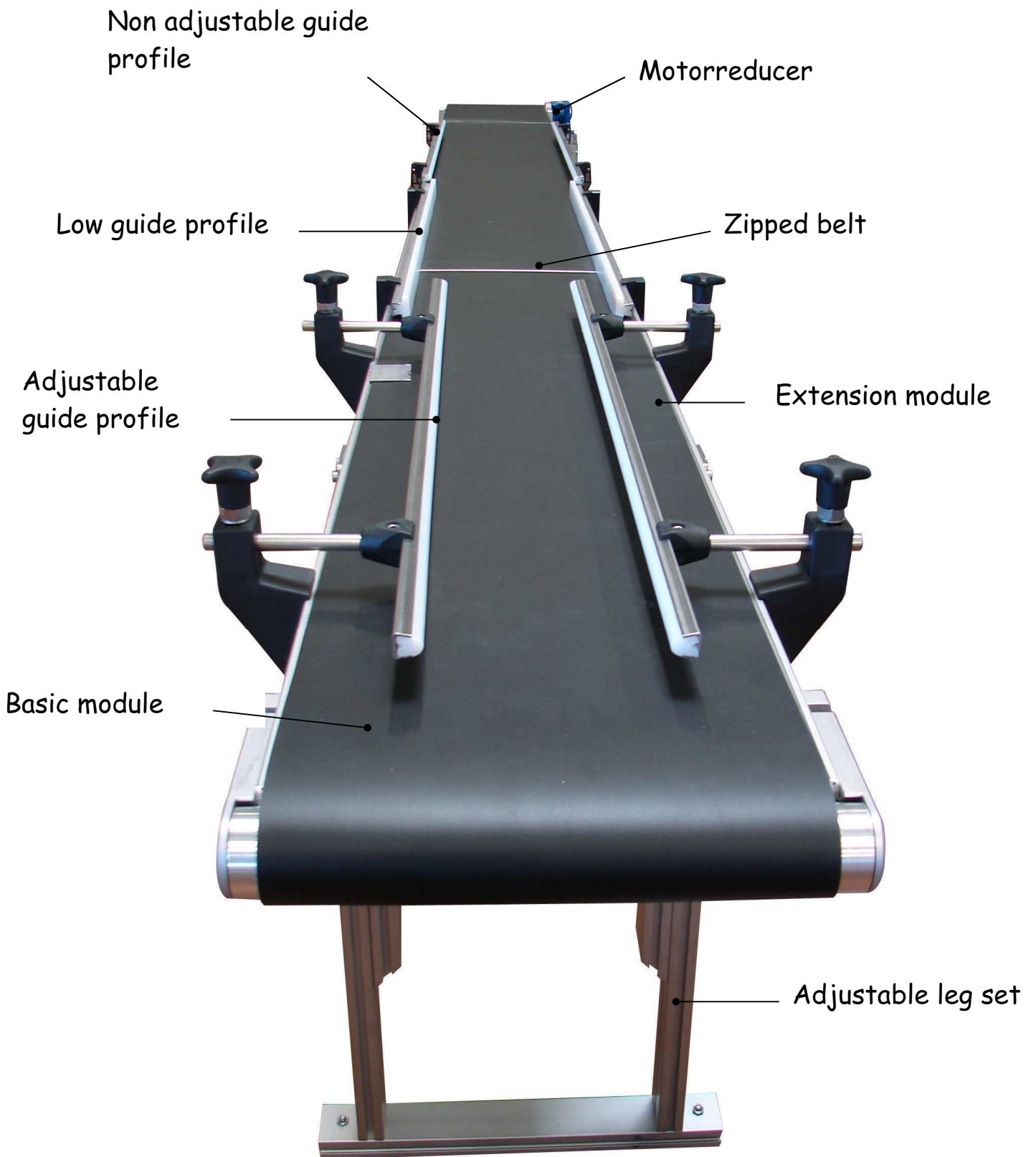
Nuts


TOTAL  
AMOUNT

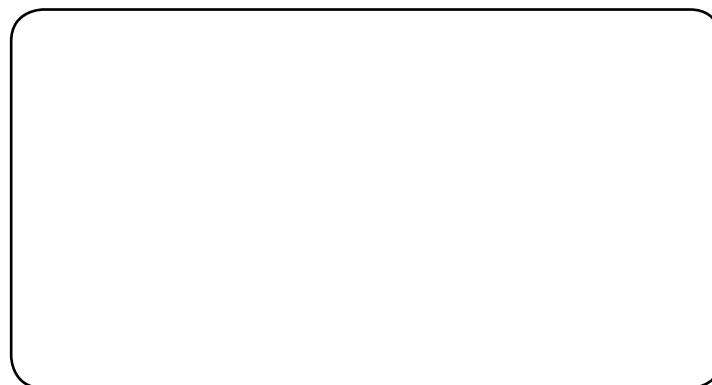
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# MODULO KIT CONVEYOR



# *A complete range of transitic sytems*



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