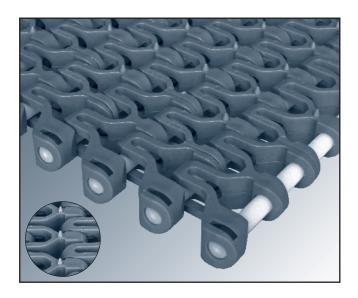
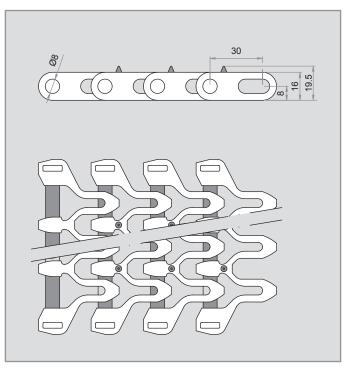
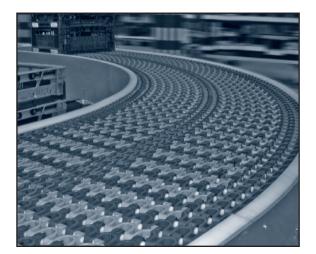


SERIES E93 CONIC



Eurobelt Series E93 Conic has a smooth surface with small conicshaped projections that provide a greater coefficient of friction, as well as they avoid the slippery products to change their position during the conveyance.





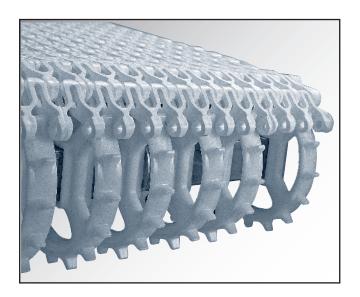
Pitch	30 mm
Surface	Conic
Open area	47 %
Drive system	Hinge
Belt width	Multiples of 25 mm (1)
Turn radius for curves	2.2 times the belt width
Rod diameter	Ø 8 mm
Retention system	Clip
Indent	[37.5] - [62.5] - [87.5] mm
Spacing of conic	Multiples of 30 mm

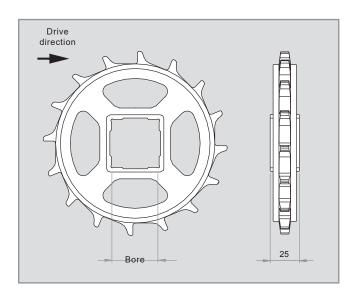
Material of	Material of	Belt strength		Temperature	Available
the belt	the rod	Straight (kg/m)	Curved (kg)	range (°C)	colours in stock
PP - Polypropylene		2,400	-	+1 to +90	[W] - [G]
PE - Polyethylene	AC - Polyacetal	1,520	-	-50 to +65	[N[
AC - Polyacetal		3,800	-	-40 to +90	[B] - [N]

Colours: [W] White - [G] Grey - [B] Blue - [N] Natural - [O] Black. // The materials and colours that are normally in stock are those above indicated. In special cases in which it is needed a belt in a material or colour different from those above mentioned, you should ask directly to EUROBELT. ⁽¹⁾ For a belt with tabs, its width will always be referred to the usable width without taking into account the tabs.



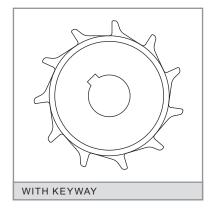
ACCESSORIES [SPROCKETS]





N° of teeth	Pitch	Bore for square shaft		Pitch Bore for square shaft Hub	Hub	Materials
Т	diameter	mm	inch	width	materials	
11	106.5	40	1,5"	25	Polypropylene	
16	153.5	40 60	1,5"	25	Polyacetal	
20	191.5	40 60	1,5"	25	Stainless steel	

SPROCKETS FOR SQUARE SHAFT







We have plastic sprockets for round shaft with and without keyway. We also have sprockets to be used with motor drum in applications needing a special cleaning or in conveyors in which it is not possible to place the motor in the outside due to problems of space or safety.



ACCESSORIES [RETAINING RINGS]

INSTALLATION

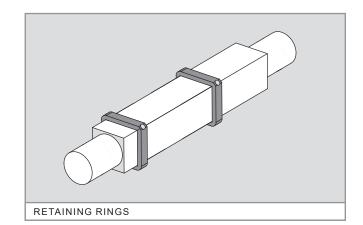
These rings are placed at every side of the central sprocket to fasten it to the shaft in order to avoid any lateral movements of the belt.

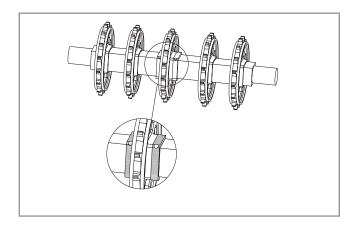
They are manufactured in AISI 316 stainless steel and they are fixed by means of a set screw stuffed in the ring itself.

One sprocket, duly fixed with 2 retaining rings, should be put in the centre. Then you should place the same quantity of sprockets at every side of the central one but without any fixing, as they will absorb the possible belt expansions and contractions.

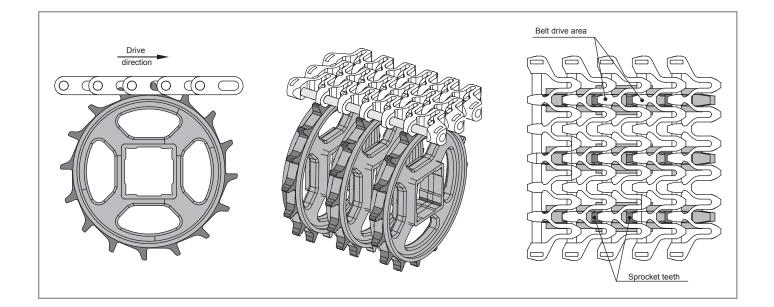
The same procedure should be carried out in both shafts.

Bore for square shaft	Screws
40	M 6 x 6
60	M 6 x 6





CENTRAL SPROCKET





ACCESSORIES [FASTENING RING CLU]

The CLU Eurobelt retainer rings guarantee the fastening of the Central Sprocket on both drive and idle shafts.

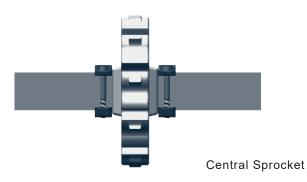
> High-resistance ACETAL. Working temperature: +60°C / -40°C Pour arbre carré de 40 mm ó 1 $\frac{1}{2}$ "



The belt can expand or contract due to the temperature.

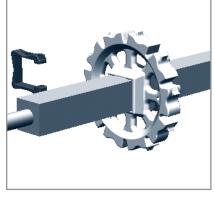
The drive system of modular belts requires the central sprocket not to move axially both in the drive and the idle shafts.

The rest of sprockets can slide freely on the shaft adapting to the possible changes of the belt, so that the correct position of the teeth is guaranteed.

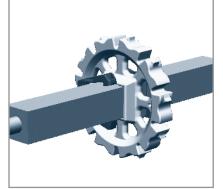




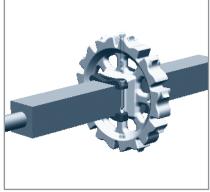
QUICK AND EASY INSTALLATION



1.Direct installation without dismantling the shaft.



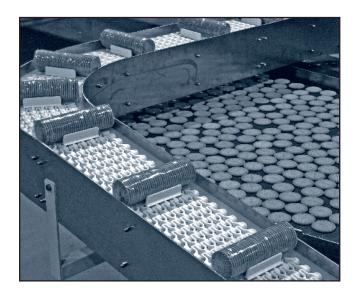
2.Easy placing on the shaft by 3.Reliable closing of the ring by opening the ring.



means of a screw and nut at a low cost.



ACCESSORIES [FLIGHTS]



STRAIGHT FLIGHT [STREAMLINE + NO CLING]

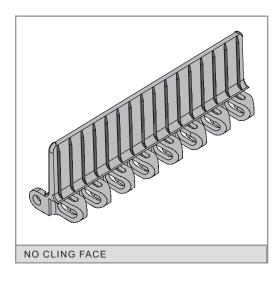
The flights are plastic accessories to be inserted across the belt. They are used to push the product in ascent, descent or accompaniment applications, avoiding that it slips along the belt.

Its non-stick side has ribs that project over the surface to prevent the product from sticking.

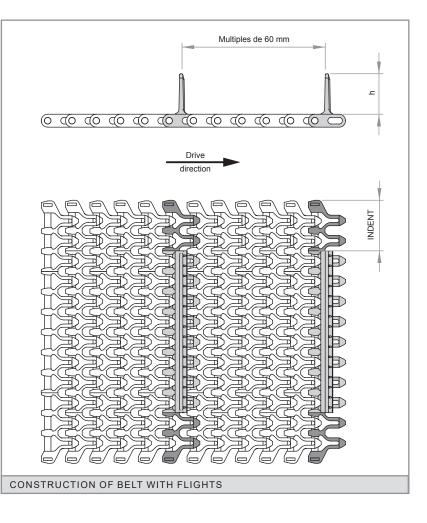
Their edges are completely rounded to avoid any damage of the product.

They can be used both in right and in curve sections.

It is possible to cut down the standard height for special applications.



Height (h)	25 mm 50 mm
Materials	Polypropylene Polyethylene Polyacetal
Indent	37.5 mm 62.5 mm 87.5 mm





ACCESSORIES [HOLD-DOWN PROFILES]

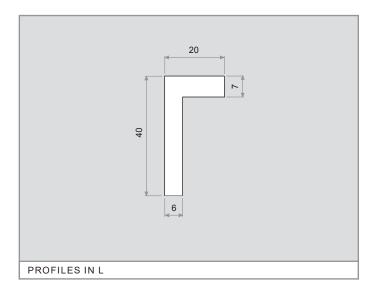


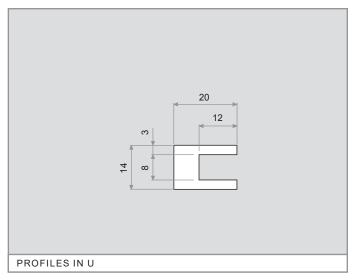
To make the fastening and the support of the belt, EUROBELT has designed two types of hold-down profiles with different geometries, but with the same uses and services.

These profiles, with a low coefficient of friction, are placed between the belt and the structure of the conveyor, reducing the wear of the surfaces in contact, which contributes to prolong the life of the belt.

EUROBELT offers all the hold-down profiles in special polyethylenes with very good sliding properties and an excellent resistance to impact.

	Dimensions	Materials
Profiles in L	40 x 20 x 2.000	Delvethylene
Profiles in U	20 x 14 x 2.000	Polyethylene

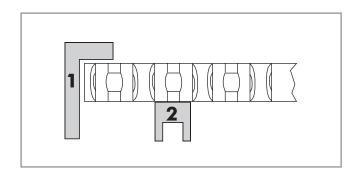






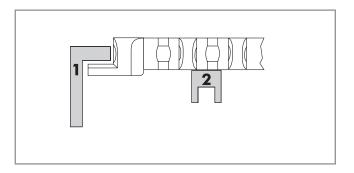
The hold-down profiles must always be placed in all turns to fasten the belt. This fastening will be carried out in different ways depending on the type to be used:

BELT WITHOUT EDGE TAB



The fastening will be made above the upper side of the belt.

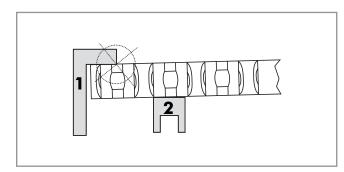
BELT WITH EDGE TAB

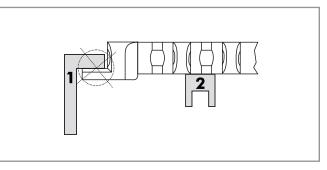


The fastening will be made over the tab. Thus, the carry way remains free of any interference.



The hold-down profiles must not be in contact with the belt (see the pictures below):

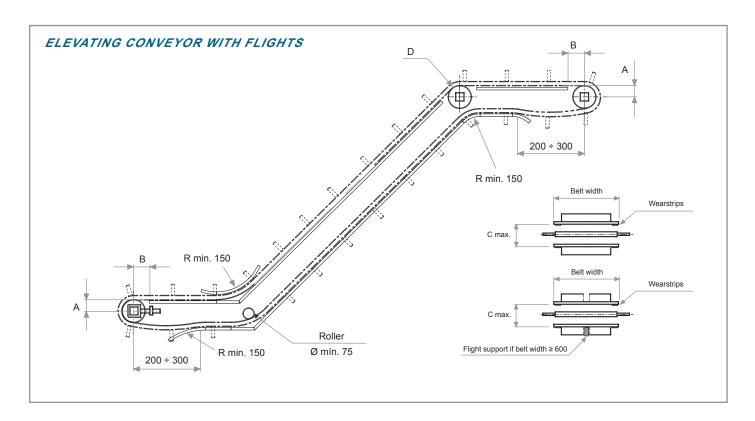


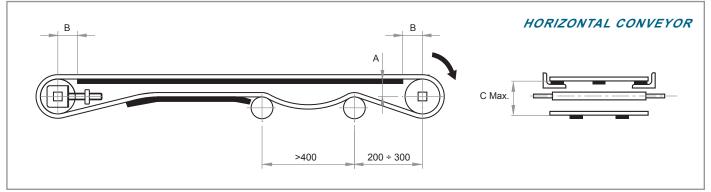


In cases in which there is going to be some manipulation on the belt, the lateral edges should be covered with a protection of 20 mm approximately, as a safety measure.



CONSTRUCTION DATA [CONVEYOR]





[A] Distance between the sliding surface of the belt and the centre of the shaft.

[B] Distance between the vertical of the shaft and the beginning of the sliding surface.

[C] Distance between the sliding surface of the belt and the support of the return way.

[D] If sprockets are used in the inflexion shaft, do not retain the central one.

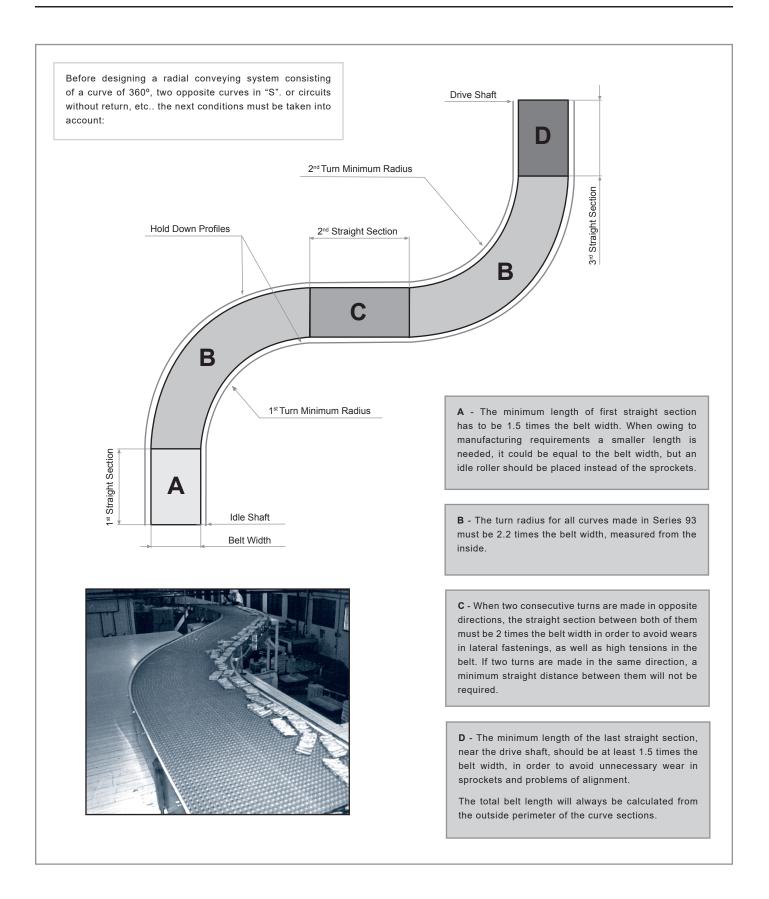
[R] This radius must be as big as allowed by the application in order to minimize the wear (min. 150 mm).

In the construction of conveyors, the distances appearing in the chart below must be respected according to the belt Series and the size of the sprockets.

N⁰ of teeth T	Ø Pitch	А	B max.	C max.
11	106.5	44	50	115
16	153.5	69	65	160
20	191.5	87	75	200



CONSTRUCTION DATA [RADIAL APLICATIONS]





CONSTRUCTION DATA [SPIRAL]



SERIES E93 can also be used for applications in spiral conveying systems. Its design of flat and rounded edges reduces considerably frictions between the inner curved radius and the drum, getting a smooth power transference from the central drum to the belt, having as a result a saving in energy costs.

Thanks to its design and its technical characteristics, EUROBELT SERIES E93 can be used to make any kind of configuration, giving the appropriate solution to many of your conveying problems.

Some of its main applications are:

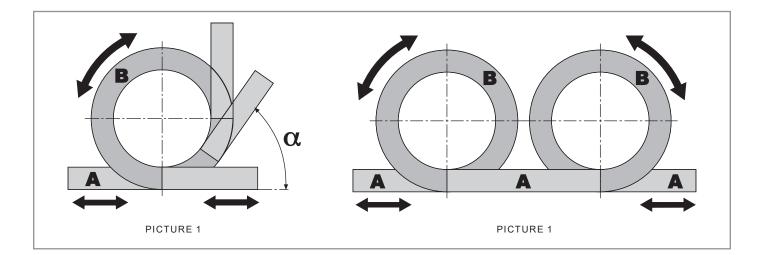
- Repose and fermentation belts for bakery.

- Elevating and descending conveyors with minimum inclination.

- Cooling and/or freezing belts, as due to the 47% open area you can obtain a great energy transference.

- Special vertical accumulation tables, with a big capacity of storage in a reduced space, thanks to the spiral configuration and to the materials used by EUROBELT.

In the pictures below, we can see different possible configurations: one only bidirectional spiral (elevating, descending or bidirectional, picture 1). and two spirals (one of them elevating and the other one descending, or bidirectionals, picture 2):



A - Like in the radial applications, the minimum length of the infeed section as well as that of the outfeed one, must be 1.5 times the belt width.

B - The minimum turn radius must be 2.2 times the belt width. Hold-down profiles should be placed all along the spiral in order to make the fastening of the belt.



TABLE OF SPROCKETS AND WEARSTRIPS

	Belt nominal Minimum quantity of weat		i quantity irstrips	
wiath	(11111)	of sprockets per shaft	Transport way	Return way
100	150	1	2	2
175	300	3	2	2
325	500	5	3	3
525	700	7	4	3
725	900	9	5	4
925	1,100	11	6	4
1,125	1,300	13	6	5
1,325	1,500	15	7	6
1,525	1,700	17	8	6
1,725	1,900	19	9	7
1,925	2,100	21	10	8
2,125	2,300	23	11	8
2,325	2,500	25	11	9
2,525	2,700	27	12	10

To calculate the necessary minimum quantity of sprockets for the drive shaft as well as for the idle one, the next formula has been used:



This amount must always be odd.

To calculate the quantity of supports, the weight of the product to be transported must be taken into account.

The distance between supports should not exceed 230 mm in the transport way or 300 mm in the return way.





ACCESSORIES [HOLD-DOWN PROFILES]

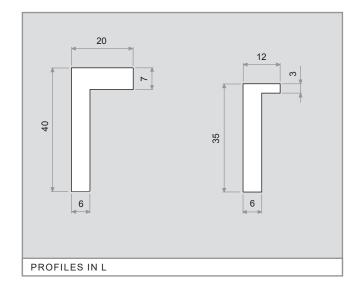


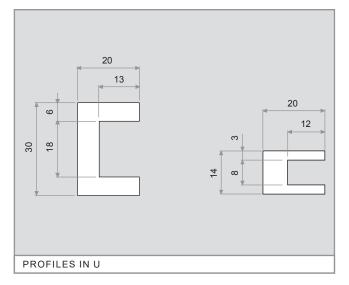
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EUROBELT offers all the hold-down profiles in special polyethylenes with very good sliding properties and an excellent resistance to impact.

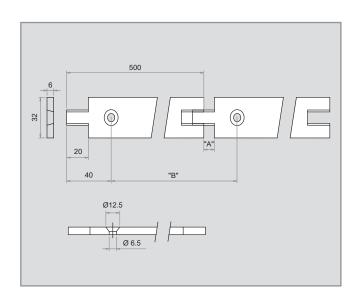
Accessories	Dimensions	Materials
Drofiles in l	40 x 20 x 2.000	
Profiles in L	35 x 12 x 2.000	Delvethylene
Profiles in U	20 x 30 x 2.000	Polyethylene
Profiles in U	20 x 14 x 2.000	







ACCESSORIES [WEARSTRIPS]



The flat wearstrips are fastened by means of flatheaded plastic screws, which contributes to obtain a smooth surface free of any possibility of hooking.

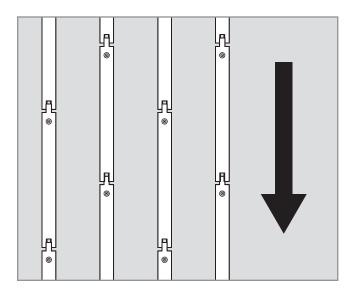
The dimensions of those screws are: M 6 x 25 mm.

Due to their dovetail design, they can adapt to possible longitudinal contractions and expansions of the belt.

Dimensions	Materials
6 x 32 x 500	Polyethylene Conductive polyethylene Polyacetal

The wearstrips arrangement is an important factor in the life span of a conveyor belt. It should be chosen the most suitable configuration according to the transport needs. To calculate the quantity of supports, the weight of the product to be conveyed should be taken into account.

PARALLEL RUNNERS



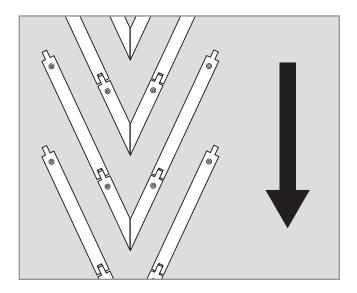
It consists of placing the wearstrips in a parallel and continuous way along the conveyor structure.

It is preferable to position them so that the joints do not coincide.

This is probably the simplest and most economical configuration although, depending on the load to be transported, uneven wears can arise on the back surface of the belt.

It is not advisable for applications with a very heavy load.

CHEVRON ARRAY



The wearstrips are placed throughout the length and breadth of the conveyor, as shown in the picture above.

The possible wear that might occur will be even all over the belt, since it is resting on the wearstrips lengthwise and breadthwise.

With this angle-shaped layout the cleaning and the removal of wastes are easy.

It is advisable for applications bearing heavy loads or for high speeds.