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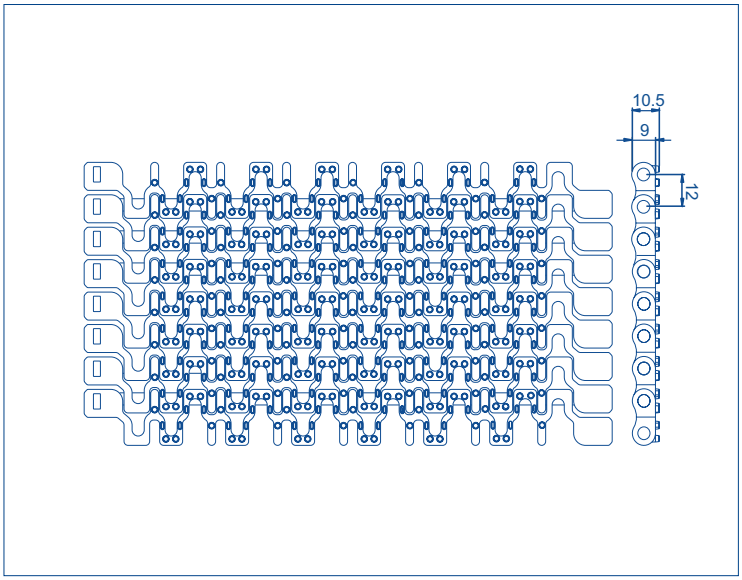
TECHNICAL DATA SHEET (TDS)

Version [05/2025]

Series ***C12***
Nub Top



Belt pitch	12 mm
Belt width	Multiples of 25 mm
Rod diameter	4,6 mm
Drive system	Hinge
Ø min direct rotation roller	18 mm
Ø min reverse rotation roller	75 mm

With a 12 mm pitch, it enables to carry out transfers of small product at high speed with minimum turn diameters up to 18 mm, reducing polygonal action. On the other hand, when combined with a bigdiameter sprocket, the turn diameter is close to an almost perfect circumference.

Its open-link structure, with reinforcements shaping a kind of fork, provides a great load capacity. Rods in view together with an extraordinary open surface supply a great easiness for cleaning

Belt surface	Belt material	Rod material	Belt resistance (kg/m)	Belt weight (kg/m2)	Temperature limit (C°)	Standard Colours[1]	Open Area + opening dimensions	Belt thickness	Retention system
Nub Top	PP-Polypropylene	PP-Polypropylene	980	4,51	+1 to +104	W - B	26% Maximum [8,5 x 4,6] mm	10,5 mm	Cap
	PE-Polyethylene	PE-Polyethylene	550	4,93	-50 to +65	B			
	POM -Acetal	PP-Polypropylene	1950	6,53	+1 to +90	B			
		PE-Polyethylene	1400	6,60	-40 to +65	B			

[1]*W = White G = Grey N = Natural B = Blue O = Black*

Food use compliance

Declaration of Conformity (EU)

The substances used are included in the Positive Lists of the Legislation of plastic materials in contact with food, Regulation (EU) 10/2011 and its modifications.

Food and Drug Administration (FDA)

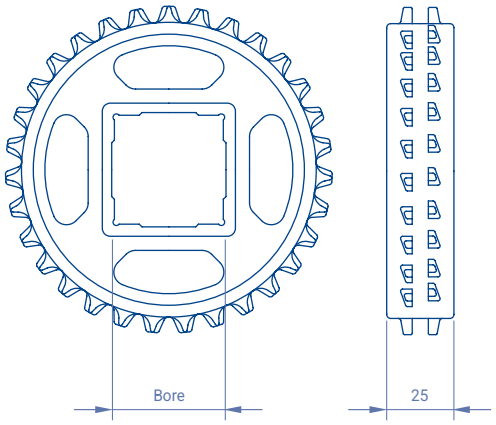
This regulation describes the polymers that can be safely used to manufacture articles that come into direct contact with food, 21CFR 177.1520 (Olefin polymers) and 21 CFR 177.2470 (Polyoxymethylene copolymer).

SPROCKETS

We are 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.

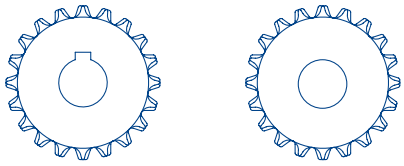
Nº teeth Z	Ø Pitch	Bore for square shaft		Hub width
		mm	inch	
11	42,59	20	3/4	25
16	61,51	20 - 25	0,8 - 1	25
20	76,70	40	1,5	25
26	99,55	40	1,5	25
31	118,61	40 - 60	1,5 - 2,5	25
40	152,94	40 - 60	1,5 - 2,5	25

**Consult the technical department for the availability of split sprocket or mechanized sprocket with different numbers of teeth.*



It is manufactured in polypropilene, polyacetal and stainless steel

**check availability in other materials*



WITH KEYWAY WITHOUT KEYWAY

RETAINING RINGS

Eurobelt retaining rings are used to secure the central gear on the drive and driven shafts.They are placed on both sides of the central sprocket and are part of the self-guiding system of the modular belts, preventing the sprocket from sliding along the shaft and avoiding lateral displacements of the belt.

Additionally, the effects of temperature cause the belt to expand or contract.

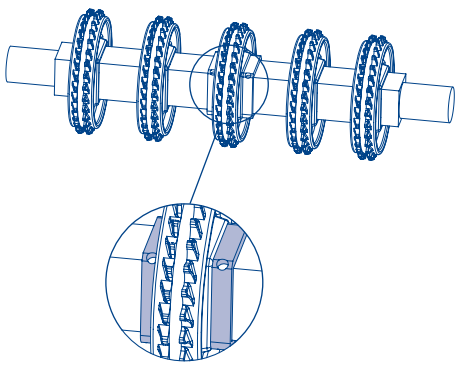
The rest of the sprockets slide freely along the shaft, allowing them to adapt to the variations and lateral movements of the belt. This ensures that the correct tooth position is maintained at all times.

CLE RETAINING RING

**See more in common accessories*

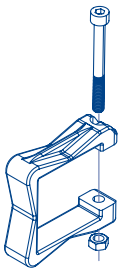
AISI 316 Stainless steel

Bore for square shaft	Screws
20	M5x5
25	M5x5
40	M6x6
60	M6x6



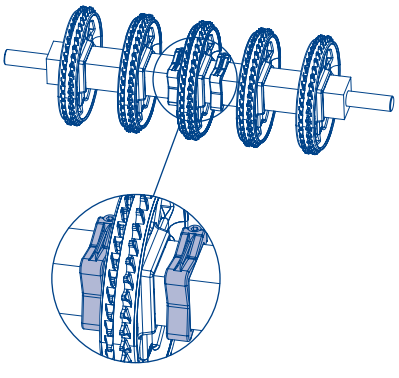
CLU RETAINING RING

**See compatibility with diameters in common accessories*



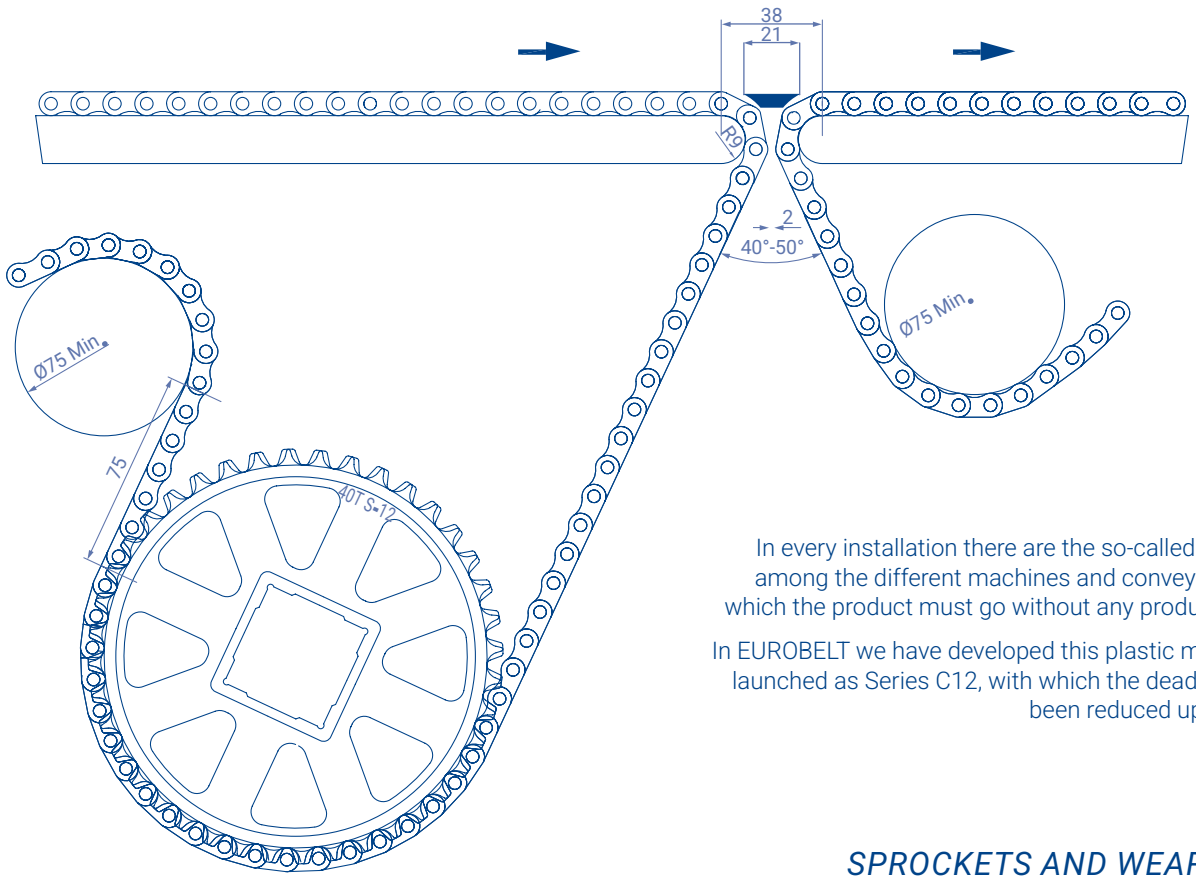
Acetal
High resistance

Working temperature: +60ºC / -40ºC
For bore square 40 mm or 1 1/2”



Series **C12**

CONSTRUCTION DATA



In every installation there are the so-called dead areas among the different machines and conveyors through which the product must go without any productivity loss.

In EUROBELT we have developed this plastic modular belt, launched as Series C12, with which the dead areas have been reduced up to 20 mm.

SPROCKETS AND WEARSTRIPS

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:

$$\text{Minimum quantity} = \frac{\text{Belt width (mm)}}{75\ \text{mm}}$$

This amount must always be odd.

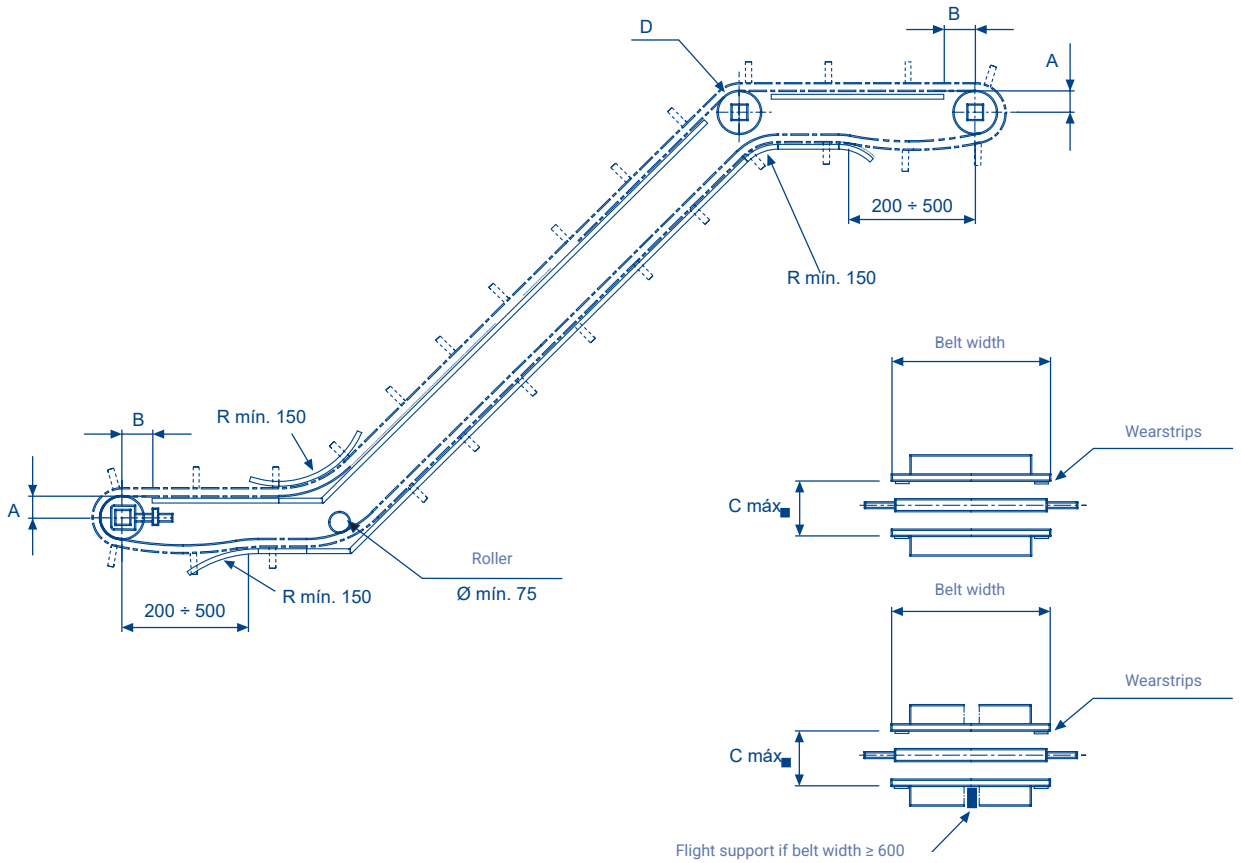
To calculate the quantity of supports, the weight of the product to be transported must be taken into account.

The distance between supports should not exceed 150 mm in the transport way or 300 mm in the return way.

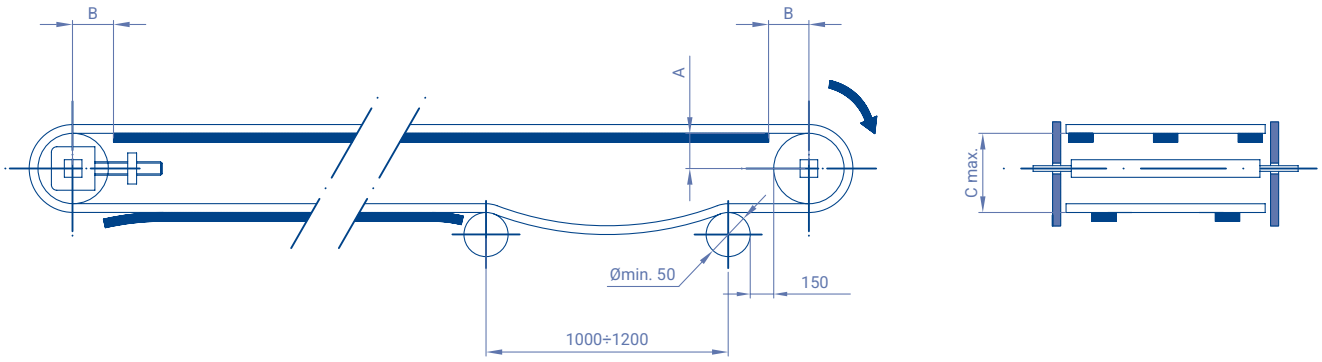
Belt nominal width (mm)		Minimum quantity of sprockets per shaft	Minimum quantity of wearstrips	
			Transport way	Return way
50	75	1	2	2
100	225	3	2	2
250	375	5	3	2
400	525	7	4	3
550	675	9	5	3
700	825	11	6	4
850	975	13	7	4
1000	1125	15	8	5
1150	1275	17	9	5
1300	1425	19	10	6
1450	1575	21	11	6
1600	1725	23	12	7
1750	1875	25	13	7
1900	2025	27	14	8
2050	2175	29	15	8

Series **C12**

ELEVATING CONVEYOR WITH FLIGHTS



HORIZONTAL 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.

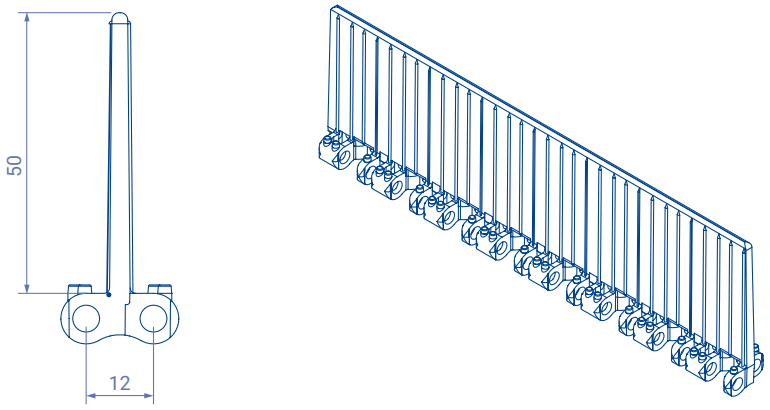
[R] This radius must be as big as allowed by the application in order to minimize the wear (min. 150 mm). For belts with side guards, consult about this radius.

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.

Nº of teeth Z	Ø Pitch	A	B max.	C max.
11	42,59	16	22	41
16	61,51	26	30	61
20	76,70	34	35	77
26	99,55	45	40	99
31	118,61	55	45	119
40	152,94	72	52	153

FLIGHTS

STRAIGHT FLIGHT
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.

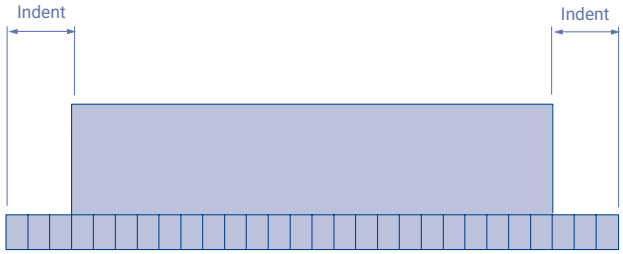
Its non-stick sides has ribs that project over the surface to prevent the product from sticking.

Their edges are completely rounded to avoid any damage of the product. There is the possibility of lowering the standard height for special applications

Accessories	Height (h)	Materials
Straight flight no cling	50	Polypropylene Polyethylene Acetal

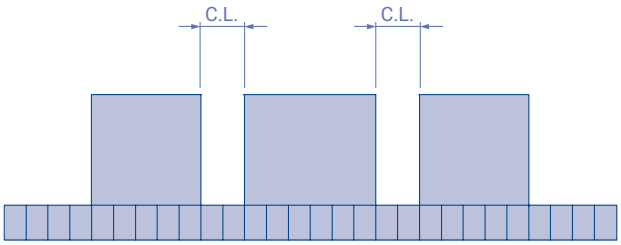
TECHNICAL DATA: FLIGHTS

BELT WITH ONLY FLIGHTS



Indent = Multiples of 8 mm (Minimum of 24 mm)
Distance between flights = Multiples of 40 mm

BELT WITH LONGITUDINAL CUTS



Flight longitudinal cut = increment of 8 mm (minimum 24 mm)