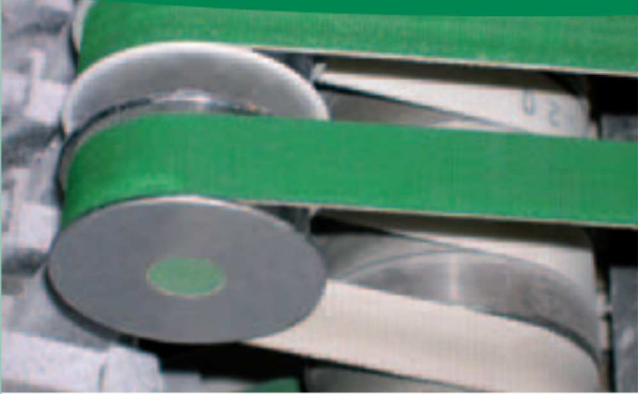


Ideas in motion



General catalogue



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## The company

CHIORINO S.p.A., founded in Biella in 1906, is today an international leading company in the full-cycled production of conveyor and transmission belts for any application, in any industrial field and in the service industry

### The production

The production systems designed and built to CHIORINO specifications afford the company many different techniques to process any type of material. The complete production autonomy of the company is a guarantee of reliable and consistently high quality products. Using advanced spreading, calendering, laminating and blending lines, CHIORINO produce:

- ▶ **Conveyor and process belts in polyurethane, PVC, elastomer and silicone**
- ▶ **Power transmission belts**
- ▶ **Polyurethane round and V-belts**
- ▶ **“Texgum” roller coverings**
- ▶ **Rubber cots and aprons**

Today’s market requires specialization, flexibility and technological innovation, as well as the sensitivity to understand how to interpret the needs of customers. CHIORINO responds perfectly to the needs of every sector, offering products that are custom-designed, highly technological and of superior quality.

CHIORINO also provides custom finishing of the product in its own factories. The combination of multiple expertise and technology make it possible to CHIORINO to personalize its products; its engineers work with customers to study the most appropriate solution and monitor the process from start to finish.



## The Research & Development

CHIORINO laboratories are equipped with advanced and constantly evolving scientific instruments monitoring the rheological, chemical and physical-mechanical analysis of the polymeric materials. They have always focused their work on researching and developing new materials, polyurethanes, elastomeric blends and new textile fabrics to ensure innovative solutions capable of anticipating and meeting all market demands.



## The Service

CHIORINO is active worldwide through a network made of 15 Associates and more than 60 between exclusive distributors and specialized service centres, all of these highly qualified to provide quick assistance and on site fitting twenty-four hours a day.



## The Quality

CHIORINO's policy toward **quality assurance systems and environmental protection** is extremely rigorous and complies with the strictest international standards.

Quality management involves the entire process of design, production, marketing and post-sales services.

Environmental protection entails pollution prevention and maximum disclosure to the community and local authorities, limiting environmental impact to a minimum.

This strategy earned CHIORINO **UNI EN ISO 9001:2000** and **UNI EN ISO 14001:2004** certification and it was also one of the first major Italian companies to earn **EMAS** validation (Eco Management and Audit Scheme).



## Conveyor and process belts

CHIORINO's full-cycled production equipment includes sophisticated calendering and spread-coating lines that treat raw materials and combine them with other components to obtain, as the end product, conveyor and process belts for light and medium duty, suitable for any industrial field.

The standard production range includes belts with textile carcass made of polyester, cotton, polyamide or fiberglass, covered with:

- ▶ POLYURETHANE
- ▶ PVC
- ▶ ELASTOMER
- ▶ SILICONE

### The endless making

CHIORINO is able to perform all necessary operations in its highly automated workshops including finger punching, skiving, pressing, edge trimming, for the fabrication of endless belt manufacture.

Belts can be supplied endless spliced or with prepared ends for on-site splicing, to be done with dedicated solutions and CHIORINO designed equipment (see page 22).

Special belts can also be manufactured complete with:

- ▶ guides, profiles and sidewalls fitted by means of high frequency and hot air welding machines
- ▶ perforations
- ▶ special corrugated and finger profiles for belts used in the fruit and vegetable industry
- ▶ special corrugated and finger profiles for belts used in the fruit and vegetable industry
- ▶ personalization with customised logo
- ▶ special design/cut to suit curve conveyors.

CHIORINO's ENGINEERING DIVISION designs for its own workshops and those of its Sister Companies and Distributors all the equipment for the fabrication of conveyor and transmission belts. This important technical knowledge guarantees precision to a high standard throughout the world, ensuring ease of use and reliability.



## Features of CHIORINO belts

- antistatic and non-conductive
- flame retardant (in compliance with DIN 22103 and ISO 340 standards)
- food quality types to FDA, 2005/79/CE and HACCP standards
- resistance to abrasion, oils, fats and chemicals
- surfaces with low, medium or high coefficient of friction
- high temperature resistance
- high transverse rigidity and dimensional stability
- low noise (LdB belts)
- smooth or textured surfaces



## Applications

- Airports
- Parcel handling
- Postal automation
- Commercial distribution
- Sports equipment
- Packaging and wrapping
- Bakers and oven products
- Chocolate and sweets sectors
- Milling and grinding
- Drinks industry
- Fruit and vegetables, vineyards
- Meat processing
- Paper, cardboard and printing
- Woodworking and furniture
- Mechanical, metallurgical and automobile
- Textiles and apparel
- Tanning
- Marble and granite
- Brick, ceramics and glass



# Production program

6

Type	Food compliance FDA and 2005 / 9 / CE		Permanent antistatic	Low noise fabric on driving surface (L66) (1)	Colour of the conveying surface	Total thickness	Weight	Minimum diameter	Pull for 1% elongation	Max. admissible pull	Min. temperature resistance	Max. temperature resistance	Compressive coeff. (4)	Maximum production width
	mm	kg / m <sup>2</sup>				mm	N / mm	N / mm	[°C]	[°C]	mm	mm		
<b>POLYURETHANE</b>														
EL2- U10 FL	✓	✓		⊕		1,0	1,2	10	2 <sup>(3)</sup>	2	-20	60	MF	2000
EL2- U10 W	✓			○		1,0	1,0	10	2 <sup>(3)</sup>	2	-20	60	LF	2000
EL2- U10 HP W	✓			○		1,0	1,1	10	2 <sup>(3)</sup>	2	-30	60	MF	2000
EL2- U10 HP blue	✓			⊕		1,0	1,1	10	2 <sup>(3)</sup>	2	-30	60	MF	2000
EL3- U15 FL	✓	✓		⊕		1,5	1,6	10	3 <sup>(3)</sup>	3	-20	60	MF	2000
EL4- U20 W	✓			○		2,0	2,2	10	4 <sup>(3)</sup>	4	-20	60	LF	2000
EL4- U20 FH	✓			⊕		2,1	2,1	10	4 <sup>(3)</sup>	4	-20	60	MF	2000
1M5 U0- U2 W A	✓	✓		○		0,7	0,8	↗	5	5	-20	100	LF	2000
1M5 U0- U2 W A LF VL	✓	✓		○		0,7	0,8	↗	5	5	-20	100	LF	1500
1M5 U0- U2 D W A	✓	✓		○		0,7	0,7	↗	5	5	-30	100	HF	2000
1M5 U0- U2 HP W A	✓	✓		○		0,7	0,8	↗	5	5	-30	110	MF	2000
1M5 U0- U2 HP W S A	✓	✓		○		0,7	0,8	↗	5	5	-30	110	HF	2000
1M5 U0- U2 HP VL blue A	✓	✓		⊕		0,7	0,8	↗	5	5	-30	110	MF	2000
1M5 U0- U2 PN yellow	✓			⊕		1,1	0,9	↗	5	5	-20	100	HF	2000
1M6 U0- U2	✓	✓	✓	⊕		0,8	0,9	↗	6	6	-20	100	LF	2000
1T6 U0- U2 HP W A	✓	✓		○		0,8	0,8	↗	6	6	-30	110	MF	2000
1M6 U0- U5 FL	✓	✓	✓	⊕		1,0	1,0	10	6	6	-20	100	MF	2000
1M6 U3- U3 FL	✓	✓		⊕		1,2	1,3	10	6	6	-20	100	MF	2000
1M6 U5- U5 FL	✓	✓		⊕		1,6	1,9	20	6	6	-20	100	MF	2000
1M12 U0- U3 HPPN N S	✓	✓	✓	⊕		1,5	1,6	↗	8	12 <sup>(5)</sup>	-30	110	HF	2000
ST06	✓	✓		⊕		0,6	0,6	10	4	4	-30	100	MF	2000
2M5 U0- U0 HP A	✓	✓		○		1,0	1,0	↗	6	12	-30	110	LF	2000
2M5 U0- U2 A	✓	✓		⊕		1,2	1,4	↗	6	12	-20	100	LF	2000
2M5 U0- U2 W A	✓	✓		○		1,3	1,5	↗	6	12	-20	100	MF	2000
2M5 U0- U2 LF W A	✓	✓		○		1,3	1,5	↗	6	12	-20	100	LF	2000
2M5 U0- U2 HP W A	✓	✓		○		1,3	1,4	↗	6	12	-30	110	MF	2000
2M5 U0- U2 HP W S A	✓	✓		○		1,3	1,4	↗	6	12	-30	110	HF	2000
2M5 U0- U2 HP PN W A	✓	✓		○		1,6	1,5	↗	6	12	-30	110	MF	2000
2M5 U0- U2 HP VL blue A	✓	✓		⊕		1,3	1,4	↗	6	12	-30	110	MF	2000
2M5 U0- U2 HP PN blue A	✓	✓		⊕		1,6	1,5	↗	6	12	-30	110	MF	2000
2M5 U2- U2 HP VL blue A	✓	✓		⊕		1,5	1,7	10	6	12	-30	110	MF	2000
2MT6 U0- 0	✓			○		1,5	1,4	↗	6	12	-20	100	LF	2000
2M8 U0- U0	✓	✓		○		1,3	1,4	↗	8	16	-20	100	LF	2000
2M8 U0- U0 SP	✓	✓		○		1,3	1,0	↗	8	16	-20	100	LF	3000
2M8 U0- U0 GR		✓		⊕		1,3	1,4	↗	8	16	-20	100	LF	2000
2M8 U0- U0 GR SP		✓		⊕		1,3	1,4	↗	8	16	-20	100	LF	3000
2T8 U0- 0	✓			○		1,3	1,4	↗	8	16	-20	100	LF	3000
2M8 U0- U2		✓		⊕		1,4	1,6	↗	8	16	-20	100	LF	2000
2M8 U0- U2 SP		✓		⊕		1,5	1,6	↗	8	16	-20	100	LF	3500
2M8 U0- U2 W A SP	✓	✓		○		1,5	1,5	↗	8	16	-20	100	LF	3500
2M8 U0- U2 N HC		✓		⊕		1,6	1,6	↗	8	16	-20	100	LF	2000
2M8 U0- U2 N SP		✓		⊕		1,4	1,4	↗	8	16	-20	100	LF	3500
2M8 U0- U5 TR	✓	✓		x		1,7	2,0	40	8	16	-20	100	LF	2000
2T12 U0- U2 W SP	✓	✓		○		1,6	1,8	30	12	24	-20	100	LF	3000
2T12 U0- U2 HP VL W A	✓	✓		○		1,6	1,7	↗	12	24	-30	110	MF	2000
2T12 U0- U2 FM FR		✓		⊕		1,8	1,8	30	12	24	-20	100	MF	2000
2M12 U0- U3 R A	✓	✓		⊕		1,7	1,8	40	12	24	-20	100	LF	2000
2M12 U0- U3 R W A	✓	✓		○		1,7	1,8	40	12	24	-20	100	LF	2000
2M12 U0- U3 R N A		✓		⊕		1,7	1,8	40	12	24	-20	100	LF	2000
2M12 U0- V- U5		✓	✓	⊕		2,0	2,5	60	12	24	-10	60	LF	2000
2M12 U0- V- U5 SP		✓	✓	⊕		2,1	2,5	60	12	24	-10	60	LF	3000
2M12 U0- U10 W A	✓	✓	✓	○		2,4	2,7	50	12	24	-20	100	LF	2000
2M12 V5- V- U10 W	✓	✓		○		3,5	4,0	80	12	24	-10	60	LF	2000
2M12 U0- U15 LT W A	✓	✓	✓	○		6,0	3,5	50	12	24	-20	100	MF	600
2M12 U0- U20	✓	✓	✓	⊕		3,4	3,8	80	12	24	-20	100	LF	2000
3M8 U0- U3		✓		⊕		2,2	2,4	60	10	20	-20	100	LF	2000
3M8 U0- V- U3 N SP		✓		⊕		2,1	2,6	60	10	20	-10	60	LF	3000
3M18 U0- V- U10		✓	✓	⊕		3,7	4,4	100	18	36	-10	60	LF	2000
3M18 U0- V- U10 SP		✓	✓	⊕		3,7	4,4	100	18	36	-10	60	LF	3000

Type	Foot compliance FDA and 200579 CE		Permanent antistatic	Low noise fabric on driving surface (LdB) (1)	Colour of the conveying surface	Total thickness		Minimum diameter (2)		Max. admissible pull	Min. temperature resistance	Max. temperature resistance	Comparative coef. of friction (4)	Maximum production width
	✓	✓				mm	kg/m <sup>2</sup>	mm	N/mm					
<b>ELASTOMER</b>														
2M8 U0-U-G5 FL		✓		⊕		2,0	2,4	25	8	16	-20	100	MF	1200
2M8 U0-U-G10 FH		✓		⊕		2,3	2,4	50	8	16	-20	100	HF	1200
2M8 U0-U-G15 FL		✓		⊕		3,0	3,4	50	8	16	-20	100	MF	1200
2T12 U0-U-G10 FH		✓		⊕		2,2	2,2	50	12	24	-20	100	HF	1200
2M12 U0-G25 GP		✓		⊕		5,5	4,5	60	12	24	-40	100	HF	1200
2T12 U0-G25 GP		✓		⊕		5,5	4,5	80	12	24	-40	100	HF	1200
2T12 U0-G35 GP		✓		⊕		6,5	6,5	80	12	24	-40	100	HF	1200
<b>MF ELASTOMER</b>														
2T12 U0-U-G15 MF		✓		⊕		2,8	3,4	50	12	24	-20	100	HF	1200
3M18 U0-U-G40 MF		✓		⊕		5,7	5,9	100	18	36	-20	100	HF	1200
3M18 U0-U-G60 MF		✓		⊕		7,3	8,3	100	18	36	-20	100	HF	1200
NT5 MF		✓		⊕		5,0	5,5	50	6	12	-20	100	HF	1200
<b>POLYAMIDE</b>														
2P6 G1-0		✓		○		1,8	1,8	20	9	16	-20	100	LF	2000
PR0-L		✓		⊕		0,9	0,8	15	2	4	0	100	LF	500
P1-L		✓		⊕		1,3	1,1	25	2	6	0	100	LF	500
CNG		✓		⊕		0,7	0,7	20	2	4	-20	100	MF	1200
CNPG		✓		⊕		1,0	0,9	20	2	4	0	100	MF	500
N		✓		⊕		0,6	0,6	15	2	4	-20	100	LF	1200
N8		✓		⊕		1,0	0,9	15	3	6	-20	100	LF	1200
NT1		✓		⊕		1,2	1,2	15	3	6	-20	100	MF	1200
NT2		✓		⊕		2,0	2,1	20	3,5	7	-20	100	MF	1200
NT3		✓		⊕		3,0	3,2	40	6	12	-20	100	MF	1200
NT4		✓		⊕		4,0	4,3	60	6	12	-20	100	MF	1200
P4		✓		⊕		3,4	3,7	200	20	40	0	100	LF	2000
P4/N		✓		⊕		3,4	3,7	200	20	40	0	100	LF	2000
P4/P		✓		⊕		3,1	3,5	200	20	40	0	100	LF	2000
<b>SILICONE</b>														
1M6 U0-S0	✓	✓	✓	x		0,6	0,4	20	6	6	-30	100	HF	2000
2M8 U0-U-S0		✓		○		1,3	1,1	30	8	16	-20	100	LF	2000
2M8 U0-U-S0 GR		✓		⊕		1,3	1,1	↗	8	16	-20	100	LF	2000
2MT8 S0-S0		✓		○		1,2	1,1	30	8	16	-40	160	LF	2000
2MT8 S0-S2	✓	✓		x		1,3	1,3	30	8	16	-40	160	HF	2000
2T12 U0-U-S2	✓	✓		x		1,4	1,3	30	12	24	-30	100	HF	2000
2FG12 S0-S3 WHITE				○		1,1	1,5	40	12	24	-40	250	HF	1400
<b>SILON</b>														
SILON 25 W	✓			○		2,5	1,3	30	10	10	-20	120	LF	2000
SILON 25 HC		✓		⊕		2,5	1,6	30	10	10	-20	120	LF	2000
SILON 40 HC		✓		⊕		4,0	2,4	60	10	10	-20	120	LF	2000
SILON 60 HC		✓		⊕		5,5	3,4	100	10	10	-20	120	LF	2000
SILON 60 NA		✓		⊕		5,5	3,4	100	10	10	-20	120	LF	2000

The data of this table have been formulated under normal environment conditions. They are subject to alteration without notice.

- (1) The belts having a LdB bottom fabric give quiet running properties
- (2) Minimum roller diameter is dependent on the joint recommended by CHIORINO
- (3) Elastic belts "EL": pull for 8% elongation
- (4) Conveying surface coefficient of friction
  - LF low
  - MF medium
  - HF high
- (5) 1M12 = the figure in this code relates to the max. admissible pull

↗: knife edge



# Production program

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Type	Food compliance FDA and EU (95/9/CE)				Low noise fabric of driving surface (Lob) (1)	Total thickness		Minimum diameter (2)		Max. advisable pull	Min. temperature resistance	Max. temperature resistance	Coefficient of friction (4)	Maximum production width
	Permanent antistatic					mm	kg/m <sup>2</sup>	mm	N/mm					
<b>PVC</b>														
1M6 U0-V3 A N	✓		⊕		0,8	0,8	20	6	6	-10	60	LF	3500	
1M6 U0-V5	✓	✓	⊕		1,0	1,1	20	6	6	-10	60	MF	3000	
1M6 U0-V5 W	✓	✓	○		1,0	1,1	20	6	6	-10	60	MF	3000	
1M6 U0-V5 N		✓	⊕		1,0	1,1	20	6	6	-10	60	LF	3000	
1M6 U0-V5 FM N		✓	⊕		1,1	1,0	30	6	6	-10	60	LF	3000	
1M6 U0-V5 SM N		✓	⊕		1,0	1,1	20	6	6	-10	60	LF	2000	
1M6 V5-V5		✓	⊕		1,8	2,0	30	6	6	-10	60	MF	3000	
1M12 U0-V5 N		✓	⊕		1,8	2,0	30	8	12 <sup>(5)</sup>	-10	60	LF	2000	
1M12 U0-V5 FH N		✓	⊕		2,0	2,1	30	8	12 <sup>(5)</sup>	-10	60	MF	2000	
1M12 U0-V5 SM N		✓	⊕		2,1	2,0	30	8	12 <sup>(5)</sup>	-10	60	LF	2000	
2T5 0-V-0	✓	✓	○		1,6	1,7	20	5	10	-10	60	LF	2000	
2MT5 U0-V3 N		✓	⊕		1,8	2,0	20	6	12	-10	60	LF	3000	
2MT5 U0-V3 FH N		✓	⊕		2,1	1,9	30	6	12	-10	60	MF	2000	
2MT5 U0-V3 SM N		✓	⊕		1,9	2,0	20	6	12	-10	60	LF	2000	
2M8 U0-V-U0	✓	✓	○		1,5	1,5	30	8	16	-10	60	LF	3000	
2T8 U0-V-0	✓		○		1,4	1,4	30	8	16	-10	60	LF	3000	
2M8 U0-V5 A		✓	⊕		2,0	2,3	30	8	16	-10	60	MF	3500	
2M8 U0-V5 W	✓		○		2,0	2,3	30	8	16	-10	60	MF	3000	
2M8 U0-V5 PN W	✓		○		2,2	2,3	30	8	16	-10	60	MF	2000	
2M8 U0-V5 blue	✓		⊕		2,0	2,3	30	8	16	-10	60	MF	3000	
2M8 U0-V5 FM		✓	⊕		2,1	2,3	30	8	16	-10	60	MF	3000	
2M8 U0-V5 FM N		✓	⊕		2,1	2,3	30	8	16	-10	60	HF	3000	
2M8 U0-V5 PS GR		✓	⊕		2,3	2,3	30	8	16	-10	60	HF	500	
2M8 U0-V5 RT GR		✓	⊕		2,2	2,3	30	8	16	-10	60	HF	2000	
2M8 V5-V5 W	✓		○		2,5	3,0	50	8	16	-10	60	MF	2000	
2M8 V5-V5 blue	✓		⊕		2,5	3,0	50	8	16	-10	60	MF	2000	
2M8 U0-V17 GP		✓	⊕		5,2	3,7	50	8	16	-10	60	HF	2000	
2M10 U0-V10			⊕		2,8	3,3	50	10	20	-10	60	MF	3000	
2M10 U0-V10 W	✓		○		2,8	3,3	50	10	20	-10	60	MF	3000	
2M10 U0-V10 blue	✓		⊕		2,8	3,1	50	10	20	-10	60	MF	3000	
2M12 U0-V-U0 GR		✓	⊕		1,7	1,6	40	12	24	-10	60	LF	3000	
2T12 U0-V0			⊕		2,5	2,6	80	12	24	-10	60	LF	2000	
2M12 U0-V3		✓	⊕		1,9	2,1	40	12	24	-10	60	LF	3000	
2M12 U0-V3 N		✓	⊕		1,9	2,1	40	12	24	-10	60	LF	3000	
2MT12 X0-V6 FH N		✓	⊕		2,1	2,0	60	12	24	-10	60	MF	2000	
2M12 U0-V7 LG		✓	⊕		2,4	2,4	40	12	24	-10	60	HF	2000	
2M12 U0-V8 RT		✓	⊕		2,3	2,4	40	12	24	-10	60	HF	2000	
2M12 U0-V10 A		✓	⊕		2,5	2,9	50	12	24	-10	60	MF	3500	
2M12 U0-V10 W	✓		○		2,5	2,9	50	12	24	-10	60	MF	3000	
2M12 U0-V10 N		✓	⊕		2,9	3,5	60	12	24	-10	60	LF	3000	
2M12 U0-V10 RT		✓	⊕		2,6	2,6	50	12	24	-10	60	HF	2000	
2T12 U0-V10		✓	⊕		2,5	2,9	50	12	24	-10	60	MF	3000	
2T12 U0-V10 W	✓		○		2,5	2,9	50	12	24	-10	60	MF	3000	
2M12 V5-V10			⊕		3,0	3,5	80	12	24	-10	60	MF	2000	
2M12 V5-V10 W	✓		○		3,1	2,8	80	12	24	-10	60	MF	2000	
2T12 V5-V10 W	✓		○		3,0	3,5	80	12	24	-10	60	MF	2000	
2T12 V5-V10 blue	✓		⊕		3,1	3,5	80	12	24	-10	60	MF	2000	
2M12 U0-V15 W	✓		○		3,0	3,4	80	12	24	-10	60	MF	3000	
2M12 U0-V15 CL W	✓		○		5,5	3,5	80	12	24	-10	60	MF	2000	
2M12 U0-V15 FB W	✓		○		4,1	3,5	80	12	24	-10	60	MF	2000	
2M12 U0-V15 GPL N		✓	⊕		3,8	3,5	60	12	24	-10	60	HF	2000	
2M12 U0-V15 ST W	✓		○		3,6	3,5	80	12	24	-10	60	MF	2000	
2M12 U0-V20 GP		✓	⊕		5,5	3,9	50	12	24	-10	60	HF	2000	
2T12 U0-V20 GP W	✓		○		5,5	3,9	50	12	24	-10	60	HF	2000	
2T20 V10-V10 W A	✓	✓	○		4,5	5,4	120	20	40	-10	60	MF	2000	
2M20 U0-V25 RT			⊕		5,0	5,7	100	20	40	-10	60	MF	2000	

Type	Food compliance FDA and EU (95/19) CE	Permanent antistatic	Low noise fabric on driving surface (LdB) (1)	Colour of the conveying surface	Total thickness		Minimum diameter		Pull for 1% elongation	Max. admissible pull	Min. temperature resistance	Max. temperature resistance	Conveying coefficient of friction (4)	Maximum production width
					mm	kg/m <sup>2</sup>	mm	N/mm						
<b>PVC</b>														
3T18 U0-V0				⊕	3,7	3,9	120	18	36	-10	60	LF	2000	
3M18 U0-V15 A		✓	✓	⊕	4,2	4,9	100	18	36	-10	60	MF	3000	
3M18 U0-V15 W	✓		✓	○	4,2	4,9	100	18	36	-10	60	MF	3000	
3T18 U0-V15		✓		⊕	4,2	4,9	100	18	36	-10	60	MF	3000	
3T18 U0-V15 W	✓			○	4,2	5,0	100	18	36	-10	60	MF	3000	
3T18 V10-V20 W	✓	✓		○	6,7	7,9	100	18	36	-10	60	MF	2000	
3T30 V10-V10 W	✓	✓		○	6,3	7,4	200	30	60	-10	60	MF	2000	
3M30 U0-V25 RT			✓	⊕	6,6	7,8	200	30	60	-10	60	MF	2000	
<b>PVC FLAME RETARDANT</b>														
1M12 U0-V5 PN FR		✓	✓	⊕	1,8	1,9	40	8	12 <sup>(5)</sup>	-10	60	HF	2000	
2M5 U0-V5 PN FR		✓		⊕	1,9	2,1	40	6	12	-10	60	HF	2000	
2M12 U0-V-U0 FR		✓	✓	⊕	2,5	2,5	40	12	24	-10	60	LF	2000	
2M12 U0-V7 LG FR		✓	✓	⊕	2,7	2,4	40	12	24	-10	60	HF	2000	
2M12 U0-V10 FR		✓	✓	⊕	2,5	2,9	50	12	24	-10	60	MF	3000	
2M12 U0-V10 RT FR		✓	✓	⊕	2,7	2,9	60	12	24	-10	60	HF	2000	
2T12 U0-V10 FM FR		✓		⊕	2,6	2,9	50	12	24	-10	60	MF	3000	
2M12 U0-V20 FB FR		✓	✓	⊕	4,6	3,9	50	12	24	-10	60	HF	2000	
2M12 U0-V20 GP FR		✓	✓	⊕	5,5	3,9	50	12	24	-10	60	HF	2000	
2M12 U0-V30 RL FR		✓	✓	⊕	8,5	5,8	60	12	24	-25	70	HF	1200	
<b>PVC AGR SERIES <sup>(6)</sup></b>														
2M8 U0-V5 AGR				⊕	2,0	2,2	30	8	16	-15	60	MF	3000	
2M12 U0-V10 AGR				⊕	2,5	2,9	50	12	24	-15	60	MF	3000	
2M12 V5-V10 AGR				⊕	3,1	3,6	80	12	24	-15	60	MF	2000	
2M12 V5-V10 AGR N				⊕	3,0	3,4	80	12	24	-15	60	MF	2000	
2T12 V5-V10 AGR				⊕	3,1	3,6	80	12	24	-15	60	MF	2000	
2T12 V10-V12 AGR				⊕	4,0	4,6	80	12	24	-15	60	MF	2000	
3M15 U0-V15 AGR				⊕	4,1	4,6	100	18	36	-15	60	MF	3000	
3M15 V5-V10 AGR				⊕	4,1	4,8	100	15	30	-15	60	MF	2000	

The data of this table have been formulated under normal environment conditions. They are subject to alteration without notice.

- (1) The belts having a LdB bottom fabric give quiet running properties
- (2) Minimum roller diameter is dependent on the joint recommended by CHIORINO
- (3) Elastic belts "EL": pull for 8% elongation
- (4) Conveying surface coefficient of friction  
 LF low  
 MF medium  
 HF high
- (5) 1M12 = the figure in this code relates to the max. admissible pull
- (6) The "AGR" range of belts is supplied only in rolls in the full manufactured width available at time of inquiry

↖: knife edge

**COEFFICIENT OF FRICTION ON DRIVING SURFACE**

Type of coating	Sliding bed		Motorized pulley	
	Raw steel sheet	Lamin. plastic or wood	Steel roller	Rubberized roller
0	0,20	0,25	0,20	0,30
G1	unsuitable		0,60	0,70
S0	0,30	0,40	0,30	0,50
U0	0,20	0,25	0,20	0,30
U2	0,40	0,50	0,30	0,40
U3, U5	0,40	0,50	0,40	0,60
V5, V10	unsuitable		0,40	0,60
X0	0,14	0,16	0,20	0,30

**TOLERANCES ON ENDLESS BELTS AND CUT LENGTHS**

Widths (mm)			
10 ÷ 100	101 ÷ 500	501 ÷ 1000	1001 ÷ 3000
±2 mm	±4 mm	±6 mm	±10 mm
Lengths (mm)			
0 ÷ 2500	2501 ÷ 5000	5001 ÷ 10000	> 10000
± 0,5 %	± 0,4 %	± 0,3 %	± 0,2 %
These tolerances do not consider variations due to special environmental conditions.			

# Explanation of type designation

10

## PVC, POLYURETHANE, ELASTOMER, SILICONE

- 2** Number of plies
- M** Textile carcass
- 5** Pull for 1% elongation [N/ mm]
- U** Driving surface coating
- 0** Thickness [mm/ 10]
- U** Possible interply
- G** Conveying surface coating
- 10** Thickness [mm/ 10]
- FH** Surface pattern (see photos)  
Other characteristics

- EL** Elastic belt without textile carcass
- 2** Pull for 8% elongation [N/ mm]
- U** Material
- 10** Thickness [mm/ 10]
- FL** Surface pattern (see photos)  
Other characteristics

## SILON

- SILON** Non woven
- 40** Thickness [mm/ 10]
- HC** Other characteristics

## TEXTILE CARCASS

- FG** Fiberglass
- M** Rigid polyester
- MT** Combined polyester
- P** Polyamide
- T** Flexible polyester

## COATING AND INTERPLY MATERIALS

- G** Elastomer
- S** Silicone
- U** Polyurethane
- V** Polyvinyl chloride (PVC)
- X0** Self-lubricating impregnation

## OTHER CHARACTERISTICS

- AGR** Better resistance to low temperatures than the standard PVC belts
- Blue** Blue colour conveying surface coating
- D** Dehesive
- FR** Flame retardant (EN20340- ISO 340)
- GR** Grey colour conveying surface coating
- HC** Static conductivity (ISO 284)
- HP** HACCP (*Hazard Analysis and Critical Control Points*)  
The conveying surface of the HP polyurethane W and blue belts prevents bacteria growth and guarantees total resistance to baking oils and animal fats. Its high resistance to hydrolysis makes them suitable for usual cleaning procedures by means of water and steam.
- LF** Surface with low coefficient of friction
- MF** Self-regeneration elastomer, red colour
- N** Black colour conveying surface coating
- NA** Non antistatic
- R** High transversal stability
- S** Soft polyurethane cover (70 Sh.A)
- SM** Super matt conveying surface
- SP** Polyurethane belt 3000 o 3500 mm wide
- TR** Transparent
- VL** Velvet finish
- W** White colour according to FDA regulation and 2005/ 79/ CE

SURFACE PATTERNS



FL



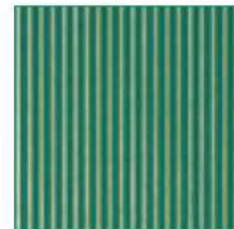
FM



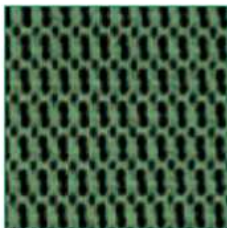
FH



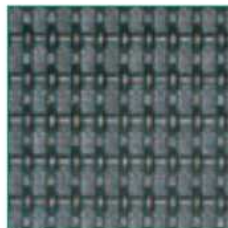
RT



LG



GP



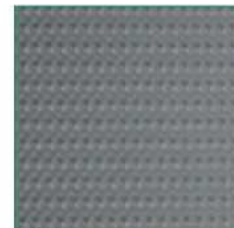
GPL



RL



SM



PS



PN



FB



LT



ST



CL

## Configuration of the pulleys

Formulas to determine the values:	
Pulley width	$b = 1,1 \cdot b_0 + 10$ (mm)
Taper	$e = (d_e + 100) / 500$ (mm)
Cylindrical section according to the total width of the pulley	$b_c = b / 2$ (mm)

### Legenda

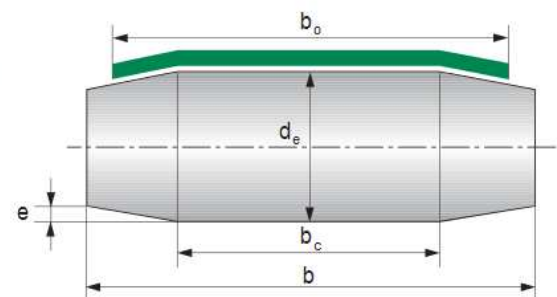
$b$  = pulley width

$b_c$  = width of the cylindrical section

$b_0$  = belt width

$d_e$  = external diameter

$e$  = taper



# Lateral profiles, longitudinal guides and sidewalls

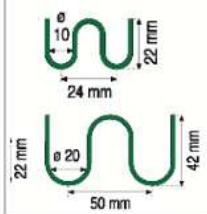


CHIORINO manufactures profiles, guides and sidewalls from special PVC and polyurethane compounds in various Shore A hardnesses giving high flexibility and resistance to abrasion and oils.

They have been designed to be perfectly compatible with the conveyor belt covers and are fitted by means of different vulcanising systems which guarantee a perfect and long lasting bond using equipment normally available in all the fabrication workshops of CHIORINO.

- ▶ Standard colours: see tables. Special colours can be supplied on request.
- ▶ Minimum pulley diameters: the values of the minimum pulley diameters are meant as a guide only and they are based on a 2 mm thick belt, working at room temperature. The minimum pulley values which refer to K, KN and S profiles are valid only when fitted on the driving surface of the belt.
- ▶ In case of back-flexing (for K and S guides) diameters have to be increased by 50%.
- ▶ It is not advisable to fit KN guides longitudinally on the conveying surface. For the fitting of K, KN e S profiles please contact the CHIORINO Technical Support.

Profile	Type	Size	Thickness	Minimum diameter (1)	Hardness	Standard colours		Notes
		Dxh [mm]	[mm]	[mm]	[Sh.A]	green	white	
<b>POLYURETHANE SIDEWALLS</b>								
	C-U 10/20	10 x 20	1,7	50	85	✓	✓	Polyurethane sidewalls, without base, fitted longitudinally. They allow the use of small pulley diameters.
	C-U 10/30	10 x 30	1,7	70	85	✓	✓	
	C-U 10/40	10 x 40	1,7	100	85	✓	✓	
	C-U 10/50	10 x 50	1,7	120	85	✓	✓	
	C-U 20/60	20 x 60	1,7	150	85	✓	✓	
	C-U 20/80	20 x 80	1,7	190	85	✓	✓	
<b>PVC SIDEWALLS WITH TEXTILE CORE</b>								
	CV-T 10/20	10 x 20	1,7	60	60	✓	✓	Sidewalls with textile core, purposely designed to be applied on PVC belts on any thickness and number of plies for use in special applications (e.g. in food-processing, agriculture or for general conveying of loose bulk products).
	CV-T 10/30	10 x 30	1,7	80	60	✓	✓	
	CV-T 10/40	10 x 40	1,7	110	60	✓	✓	
	CV-T 10/50	10 x 50	1,7	140	60	✓	✓	
	CV-T 20/60	20 x 60	3,4	170	60	✓	✓	
	CV-T 20/80	20 x 80	3,4	210	60	✓	✓	



(1) Minimum pulley diameters referred to environment conditions of 20°C.

