

Conveyor and Ideas in motion power transmission belts





**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 adavanced 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 analysys 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.



CHIORINO is active worldwide through a network made of 18 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 9001:2008** 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, ISO 340 standards and UL94)
- food compliant according to EU regulations EC 1935/2004, EC 2023/2006, EU 10/2011, FDA, USDA
- resistance to abrasion, oils, fats and chemicals
- surfaces with low, medium or high coefficient of friction
- high and low temperature resistance
- high transverse rigidity and dimensional stability
- ▶ low noise (LdB belts)
- smooth or textured surfaces



#### **Applications**

- Food industry (bakery, meat and seafood, confectionary, dairy)
- > Fruit and vegetables
- > Paper and box folding industry
- > Printing and publishing
- > Postal automation
- Logistic (airports, materials handling, commercial distribution)
- ▶ Textile industry
- > Packaging and wrapping
- > Chemicals and pharmaceuticals
- Woodworking and furniture
- **→** Tanning
- Mechanical, metallurgical and automobile
- Marble, granite, brick, ceramics and glass
- > Sports equipment
- ▶ Renewable energy







## **Production program**

	,	iance (1)		strice of the st	\\ e \&	/ \$ /	/	ine <sup>tet</sup>		tible	ature (	ature	Coefficient with production with
THE	foodcom	Permaner Permanera Permanera	ic Low noise	suffee de tre	Total trickne	Weight	Wigner dis	Pull for 3%	n datidnis	Will semble	Mat tempe	Comparative	Coefficient with the production with the produ
		8.	0,	C C	mm	kg/m²	mm	N/mm	N/mm	[°C]	[°C]	mm	mm %
POLYURETHANE					111111	Kg/III-	111111	IN/IIIIII	IN/IIIIII	[ [ C]	[ [ C]	111111	111111
1M3 U0-U2 HP blue A	✓	✓		•	0.70	0.70	_	4	4	-30	110	MF	2000
1M5 U0-U2 A	✓	✓		•	0.70	0.80	$\rightarrow$	5	5	-20	100	MF	2000
1M5 U0-U2 D W A	<b>√</b>	1		0	0.70	0.70	$\overline{}$	5	5	-30	100	HF	2000
1M5 U0-U2 HP blue S A 1M5 U0-U2 HP W A	1	<b>√</b>			0.70	0.70		5	5 5	-30 -30	110 110	HF MF	2000
1M5 U0-U2 HP W S A	1	<b>√</b>		Ö	0.70	0.80		5	5	-30	110	HF	2000
1M5 U0-U2 HP VL blue A	✓	✓			0.70	0.80	$\rightarrow$	5	5	-30	110	MF	2000
1M5 U0-U2 W A	✓	✓		0	0.70	0.80	_	5	5	-20	100	LF	2000
1M5 U0-U2 W A LF VL 1M5 U0-U2 PN yellow	<b>√</b>	1			0.70 1.10	0.80		5	5 5	-20 -20	100 100	LF HF	2000
1T6 U0-U2 HP W A	<b>√</b>	1			0.80	0.90		6	6	-30	110	MF	2000
1M6 U0-U5 FL	✓	✓	√		1.00	1.00	10	6	6	-20	100	MF	2000
1M6 U3-U3 FL	✓	√		•	1.20	1.30	10	6	6	-20	100	MF	2000
1M6 U5-U5 FL	1	1	,		1.60	1.90	20	6	6	-20	100	MF	2000
1M12 U0-U3 HP PN N S ST06	1	<b>√</b>	✓		1.50 0.60	1.60 0.60	10	8	12 4	-30 -30	110 100	HF MF	2000
2M5 U0-U0 HP A	<b>√</b>	<b>√</b>			1.00	1.00		6	12	-30	110	LF	2000
2M5 U0-U1 blue S A	✓	✓		•	1.30	1.30	$\rightarrow$	6	12	-20	100	HF	2000
2M5 U0-U1 W S A	1	1			1.30	1.50	_	6	12	-20	100	HF	2000
2M5 U0-U2 A 2M5 U0-U2 W A	1	<b>√</b>		0	1.20	1.40 1.50	$\overline{}$	6	12 12	-20 -20	100 100	LF MF	2000
2M5 U0-U2 W A	<b>√</b>	<b>√</b>			1.30	1.50		6	12	-20	100	LF	2000
2M5 U0-U2 HP blue A	1	1		ŏ	1.30	1.40		6	12	-30	110	MF	2000
2M5 U0-U2 HP blue S A	✓	✓		•	1.30	1.40	_	6	12	-30	110	HF	2000
2M5 U0-U2 HP W A	<b>√</b>	√		0	1.30	1.40		6	12	-30	110	MF	2000
2M5 U0-U2 HP W S A 2M5 U0-U2 HP PN W A	1	<b>√</b>		0	1.30	1.40 1.50	$\overline{}$	6	12 12	-30 -30	110 110	HF MF	2000
2M5 U0-U2 HP VL blue A	1	<b>√</b>			1.30	1.40		6	12	-30	110	MF	2000
2M5 U0-U2 HP PN blue A	✓	✓			1.60	1.50		6	12	-30	110	MF	2000
2M5 U2-U2 HP VL blue A	✓	✓		•	1.50	1.70	10	6	12	-30	110	MF	2000
2M5 U0-U8 HP CC blue	1	1			2.90	2.10	10	6	12	-30	110	HF	600
2M5 U0-U15 HP ST W A 2MT5 U0-U2 N FDA	1	<b>√</b>		•	3.50 1.80	2.70 2.10	50 30	5 6	10 12	-30 -10	110 60	MF LF	2000
2MT6 U0-0 HP	1				1.50	1.40	→ ====================================	6	12	-30	100	LF	2000
2M8 U0-U0	✓	✓		0	1.30	1.40	_	8	16	-20	100	LF	2000
2M8 U0-U0 SP	✓	<b>√</b>		0	1.30	1.10	$\rightarrow$	8	16	-20	100	LF	3000
2M8 U0-U0 GR 2M8 U0-U0 GR SP		<b>√</b>		0	1.30	1.40 1.10		8	16 16	-20 -20	100 100	LF LF	3000
2T8 U0-0	1			0	1.30	1.40		8	16	-20	100	LF	3000
2M8 U0-U2	✓	✓			1.40	1.60	$\rightarrow$	8	16	-20	100	LF	2000
2M8 U0-U2 SP		√		•	1.50	1.60		8	16	-20	100	LF	3500
2M8 U0-U2 W A SP 2M8 U0-U2 N HC	✓	<b>√</b>			1.50 1.60	1.50 1.60		8	16 16	-20 -20	100 100	LF LF	3500 2000
2M8 U0-U2 N SP		1			1.40	1.40	<u></u>	8	16	-20	100	LF	3500
2M8 U0-U5 TR	✓	✓		0	1.70	2.00	40	8	16	-20	100	LF	2000
2T12 U0-U2 W SP	1	<b>√</b>		0	1.60	1.80	30	12	24	-20	100	LF	3000
2T12 U0-U2 HP VL W A 2M12 U0-U3 R A	<b>√</b>	<b>√</b>			1.60 1.70	1.70 1.80	40	12 12	24 24	-30 -20	110 100	MF LF	2000
2M12 U0-U3 R W A	<b>√</b>	<b>√</b>			1.70	1.80	40	12	24	-20	100	LF	2000
2M12 U0-U3 R N A	✓	✓		•	1.70	1.80	40	12	24	-20	100	LF	2000
2M12 U0-V-U5	✓	√	✓	•	2.00	2.50	60	12	24	-10	60	LF	2000
2M12 U0-V-U5 SP 2M12 U0-U10 W A	1	<b>√</b>	<b>√</b>		2.10	2.50 2.70	60 50	12 12	24 24	-10 -20	60 100	LF LF	3000 2000
2M12 V5-V-U10 W A	<b>√</b>	<b>√</b>	•		3.50	4.00	80	12	24	-20	60	LF LF	2000
2M12 U0-U15 LT W A	1	√	✓	ŏ	6.00	3.50	50	12	24	-20	100	MF	500
2M12 U0-U17	✓	✓	√	•	3.40	3.80	80	12	24	-20	100	LF	2000
3M8 U0-U3	1	1			2.20	2.40	60	10	20	-20	100	LF	2000
3M8 U0-U5 HP blue A 3M18 U0-V-U10	1	<b>√</b>	✓		2.30 3.70	2.40 4.40	60 100	10 18	20 36	-30 -10	110 60	MF LF	2000
3M18 U0-V-U10 SP		✓	<b>√</b>		3.70	4.40	100	18	36	-10	60	LF	3000
3M18 U0-V-U30 blue	1	1			6.00	7.00	200	15	30	-10	60	MF	2000
PB													
PB-215		✓		•	2.15	2.20	80	20	20	-30	110	MF	2100
DD OCE					2	2 22	100	2.0	~ ~		110		2122
PB-265 PB-330		<b>√</b>		•	2.65	2.90 2.70	100 60	20 10	20 16	-30 -10	110 80	MF LF	2100 3400



		(age )	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	)/ /	5 /	/ /	netel	/ ,	he /	The /	rure	efficient
/s.	Food contr	Pernarent Pernarent	Christo and Contino	Total trickne	Weight	Millinum di?	Pull for job	Mat almis	Min temper	Wat temper	atu oparative	coefficient (a) Mathrutic
lite.	Koor	Peritista,	Coursing Colones	Tota	Meils	Mig.	Pullonga	Mati	Min. Sta	Mat.sta.	Confriction	Matidue
ASTIC				mm	kg/m²	mm	N/mm	N/mm	[°C]	[°C]	mm	mm
L2-U10 FL	<b>√</b>	1		1.00	1.20	10	2(5)	2	-20	60	MF	2000
L2-U10 W	<b>√</b>	· ·		1.00	1.00	10	2(5)	2	-20	60	LF	2000
2-U10 HP W	1			1.00	1.10	10	2(5)	2	-30	60	MF	2000
L2-U10 HP blue	1			1.00	1.10	10	2(5)	2	-30	60	MF	2000
-3-U15 FL	1	✓		1.50	1.60	10	3(5)	3	-20	60	MF	2000
3-U15 HP PN blue	1			1.50	1.40	10	3(5)	3	-30	60	MF	2000
_4-U20 W	1			2.00	2.20	10	4(5)	4	-20	60	LF	2000
L4-U20 FH	✓			2.10	2.10	10	4(5)	4	-20	60	MF	2000
T0.9 0-0		✓		0.90	0.90	10	5	10	-20	100	LF	1200
T0.9 0-0 N		1		0.90	0.90	10	5	10	-20	100	LF	1200
T1.0 0-U4		1		1.00	1.00	10	5	5	-20	100	HF	1500
T1.0 U1-U3		1		1.00	1.10	10	5	5	-20	100	HF	1500
T1.2 U2-U5		✓		1.20	1.30	20	5	5	-20	100	HF	1500
T1.2 0-U2		✓		1.20	1.30	20	6	12	-20	100	HF	1500
T1.4 EL G3-G3 FL		1		1.40	1.50	15	2.5	2.5	-10	60	HF	1200
T1.4 EL G3-G3 SK		✓		1.40	1.50	15	2.5	2.5	-10	60	HF	1200
T1.4 G3-G3		✓		1.40	1.60	15	6	6	-20	100	HF	1200
T1.5 0-G3 FL		· ✓		1.50	1.80	25	6	12	-20	100	MF	1200
T1.8 0-0		· /		1.80	1.80	20	9	16	-20	100	LF	2000
T1.8 G1-0		1	0	1.80	1.80	20	9	16	-20	100	LF	2000
DLYAMIDE												
PRO-I		✓		0.90	0.80	15	2	4	0	100	LF	500
71-L		1		1.25	1,20	25	2	6	0	100	LF	500
ENG		1		0.70	0.70	20	2	4	-20	100	MF	1200
NPG		1		1.00	0.90	20	2	4	0	100	MF	500
l		1		0.60	0.60	15	2	4	-20	100	LF	1200
18		1		1.00	0.90	15	3	6	-20	100	LF	1200
IT1 HS		1		1.20	1.20	15	3	6	-20	100	MF	1200
NT2 HS		✓		2.00	2.10	20	3.5	7	-20	100	MF	1200
NT3 HS		✓		3.00	3.20	40	6	12	-20	100	MF	1200
NT4 HS		✓		4.00	4.30	60	6	12	-20	100	MF	1200
ASTOMER												
M8 U0-U-G5 HS FL		✓		2.00	2.40	25	8	16	-20	100	MF	1200
M8 U0-U-G10 FH		✓		2.30	2.40	50	8	16	-20	100	HF	1200
2M8 U0-U-G15 HS FL		✓		3.00	3.40	50	8	16	-20	100	MF	1200
M8 U0-U-G10TP LG		✓		2.80	2.70	30	8	16	-20	100	HF	2000
T12 U0-U-G10 HS FH		✓		2.20	2.20	50	12	24	-20	100	HF	1200
M12 U0-G25 GP		✓		5.50	4.50	60	12	24	-40	100	HF	1200
2T12 U0-G25 HS GP		✓		5.50	4.50	80	12	24	-40	100	HF	1200
2T12 U0-G35 HS GP		✓	•	6.50	6.50	80	12	24	-40	100	HF	1200
M12 0-G-0 R		✓		2.00	2.10	50	10	20	-10	100	LF	1200
SM12 0-G-0		✓		2.80	3.10	50	15	30	-10	100	LF	1200
OG2/70 HS GP blue		✓		6.40	6.00	100	7.5	15	0	100	HF	500
F ELASTOMER												
2T12 U0-U-G15 MF		✓	•	2.80	3.40	50	12	24	-20	100	HF	1200
M18 U0-U-G40 MF		✓	•	5.70	5.90	100	18	36	-20	100	HF	1200
M18 U0-U-G60 MF		✓	•	7.30	8.30	100	18	36	-20	100	HF	1200
IT5 MF		✓	•	5.00	5.50	50	6	12	-20	100	HF	1200
OG1/45 MF		✓	•	4.50	5.10	50	5	10	0	100	HF	500
OG2/60 MF		✓		6.50	7.10	75	7.5	15	0	100	HF	500
LICONE								1				
M6 U0-S0	✓	✓	√ 0	0.60	0.40	20	6	6	-30	100	HF	2000
M5 U0-U-S2 W	✓	✓	0	1.30	1.40	_	6	12	-30	100	HF	2000
M8 U0-U-S0		<b>√</b>	0	1.30	1.10	30	8	16	-20	100	LF	2000
MT8 S0-S0		<b>√</b>	0	1.20	1.10	30	8	16	-40	160	LF	2000
MT8 S0-S2	✓	✓	0	1.30	1.30	30	8	16	-40	160	HF	2000
LON												
ILON 25 W	✓		0	2.50	1.30	30	10	10	-20	120	LF	2000
ILON 25 HC		✓	•	2.50	1.45	30	10	10	-20	120	LF	2000
ILON 40 HC		✓	•	4.00	2.40	60	10	10	-20	120	LF	2000
ILON 60 HC		✓	•	5.50	3.40	100	10	10	-20	120	LF	2000
SILON 60 NA				5.50	3.40	100	10	10	-20	120	LF	2000
24		✓		3.40	3.70	200	20	40	0	100	LF	2000
24/N		1		3.40	3.70	200	20	40	0	100	LF	2000
24/N 24/P		,		3.10	00				-			

## **Production program**

		(a)		(colle (3)	/	<u></u>	/ /	netet /	/ /	/e	ire	rure	efficient
Type	Foodcom	Pernaret Pernaret	Low roise	Strike of the Colonian of the	Total trickre	Weight	Minimum dia	Pull for 19%	Mat adnise	Mile sistance	Wat state	Confidence of the Confidence o	Maximum num
		\$,	0,	<u>c</u>	mm	kg/m²	mm	N/mm	N/mm	[,C]	[,C]	mm	mm e
PVC													
1M6 U0-V3 A N		1		•	0.8	0.8	20	6	6	-10	60	LF	3500
1M6 U0-V5	1	✓	✓	•	1.0	1.1	20	6	6	-10	60	MF	3000
1M6 U0-V5 W	1	1	<b>√</b>		1.0	1.1	20	6	6	-10	60	MF	3000
1M6 U0-V5 N 1M6 U0-V5 FM N		1	1		1.0	1.1	30	6	6	-10 -10	60	LF LF	3000 3000
1M6 U0-V5 SM N		1	<b>√</b>		1.0	1.0	20	6	6	-10	60	LF	2000
1M6 V5-V5	1	1	,		1.8	2.0	30	6	6	-10	60	MF	3000
1M12 U0-V5 N		1	✓	•	1.8	2.0	30	8	12	-10	60	LF	2000
1M12 U0-V5 FH N		1	√	•	2.0	2.1	30	8	12	-10	60	MF	2000
1M12 U0-V5 SM N		✓	✓	•	2.1	2.0	30	8	12	-10	60	LF	2000
2T5 0-V-0 2MT5 U0-V3 N	1	1	,	0	1.6 1.8	1.7	20	5	10 12	-10 -10	60	LF LF	2000 3000
2MT5 U0-V3 FH N		1	√		2.1	1.9	30	6	12	-10	60	MF	2000
2MT5 U0-V3 SM N		1	1	•	1.9	2.0	20	6	12	-10	60	LF	2000
2M8 U0-V-U0	1	1			1.5	1.5	30	8	16	-10	60	LF	3000
2T8 U0-V-0	1			0	1.4	1.4	30	8	16	-10	60	LF	3000
2M8 U0-V5 A	1	1		•	2.0	2.3	30	8	16	-10	60	MF	3500
2M8 U0-V5 W	<b>√</b>			0	2.0	2.3	30	8	16	-10	60	MF	3000
2M8 U0-V5 PN W 2M8 U0-V5 blue	1				2.2	2.3	30	8	16 16	-10 -10	60	MF MF	2000 3000
2M8 U0-V5 FM	1	1			2.0	2.3	30	8	16	-10	60	MF	3000
2M8 U0-V5 FM N	<b>'</b>	1			2.1	2.3	30	8	16	-10	60	HF	3000
2M8 U0-V5 PS GR		1			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	1			0	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 2M10 U0-V10	,	1			5.2 2.8	3.7	50 50	8	16 20	-10 -10	60	HF MF	2000 3000
2M10 U0-V10 W	1				2.8	3.3	50	10	20	-10	60	MF	3000
2M10 U0-V10 W	1				2.8	3.1	50	10	20	-10	60	MF	3000
2M12 U0-V-U0 GR		1	✓		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
2M12 U0-V7 LG 2M12 U0-V8 RT		1	1		2.4	2.4	40	12 12	24	-10 -10	60	HF HF	2000
2M12 U0-V10 A	1	1	<b>√</b>		2.5	2.9	50	12	24	-10	60	MF	3500
2M12 U0-V10 W	1	,	1	0	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	✓	1		•	2.5	2.9	50	12	24	-10	60	MF	3000
2T12 U0-V10 W 2M12 V5-V10	1				2.5 3.0	2.9 3.5	50 80	12 12	24 24	-10 -10	60	MF MF	3000 2000
2M12 V5-V10 W	1				3.0	2.8	80	12	24	-10	60	MF	2000
2T12 V5-V10 W	1			ŏ	3.0	3.5	80	12	24	-10	60	MF	2000
2T12 V5-V10 blue	1			•	3.1	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V15 W	1		✓	0	3.0	3.4	80	12	24	-10	60	MF	3000
2M12 U0-V15 CL W	✓		✓	0	5.5	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V15 FB W	1		√	0	4.1	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V15 GPL N 2M12 U0-V15 ST W	1	1	1		3.8	3.5	60 80	12 12	24	-10 -10	60	HF MF	2000
2M12 U0-V13 31 W	1	1	<b>√</b>		5.5	3.9	50	12	24	-10	60	HF	2000
2T12 U0-V20 GP W	1	1	4	0	5.5	3.9	50	12	24	-10	60	HF	2000
2T20 V10-V10 W A	1	1		Ŏ	4.5	5.4	120	20	40	-10	60	MF	2000
2M20 U0-V25 RT	1		✓	•	5.0	5.7	100	20	40	-10	60	MF	2000
3T18 U0-V0				•	3.7	3.9	120	18	36	-10	60	LF	2000
3M18 U0-V15 A	1	1	√ .		4.2	4.9	100	18	36	-10	60	MF	3500
3M18 U0-V15 W 3T18 U0-V15	1	1	✓	0	4.2	4.9 4.9	100	18 18	36 36	-10 -10	60	MF MF	3000 3000
3T18 U0-V15 W	1	٧			4.2	5.0	100	18	36	-10	60	MF	3000
3T18 V10-V20 W	1	1		0	6.7	7.9	100	18	36	-10	60	MF	2000
3T30 V10-V10 W	1	1		Ŏ	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



	/	diance (1)		talicorde de se suita de se su	tale me	/ s /	dia	meter	/ /.s	sible est	ture ref	ature Compatitue	coefficient with
The	Foodcor	Permaner Permaner	Low nois	stabic olds surface of the Conveinds	Total thickness	Weight	Minimum dia	Pull for Joh	Mat atris	Mile stander	Mat temper	Comparation	to the structure of the
					mm	kg/m²	mm	N/mm	N/mm	[°C]	[°C]	mm	mm
PVC FLAME RETARDANT							,						
1M12 U0-V5 PN FR		✓	✓	•	1.8	1.9	40	8	12	-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-V5 FR		1	1	•	2.2	2.4	50	12	24	-10	60	LF	2000
2M12 U0-V7 LG FR		1	1	•	2.7	2.4	40	12	24	-10	60	HF	2000
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
PVC AGR (6)													
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 has been formulated under normal environment conditions. They are subject to alteration without notice.

- (1) Food compliant according to: EC 1935/2004, EC 2023/2006, EU 10/2011 and amendments, FDA, USDA (see technical data sheet).
- (2) The belts having a LdB bottom fabric give quiet running properties.
- (3) Minimum roller diameter is dependent on the joint recommended by CHIORINO.
- (4) Conveying surface coefficient of friction: LF low MF medium HF high
- (5) Elastic belts "EL": pull for 8% elongation.
- (6) The "AGR" range of belts is supplied only in rolls in the full manufactured width available at time of inquiry.

#### COEFFICIENT OF FRICTION ON DRIVING SURFACE

Type of		g bed		ed pulley
coating	Raw steel sheet	Lamin. plastic or wood	Steel roller	Rubberized roller
0	0.20	0.25	0.20	0.30
G1	unsu	itable	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	unsu	itable	0.40	0.60

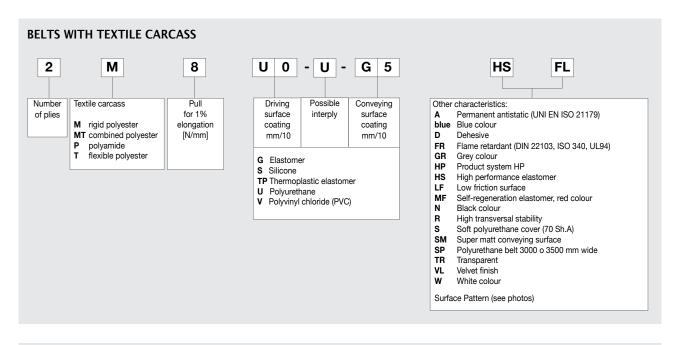
### TOLERANCES ON ENDLESS BELTS AND CUT LENGTHS WITH TEXTILE CARCASS

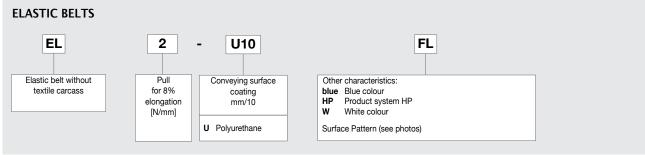
	Widths (mm)										
	widths	s (mm)									
10 ÷ 100	101 ÷ 500	501 ÷ 1000	1001 ÷ 3000								
±2 mm	±4 mm	±6 mm	±10 mm								
	Length	s (mm)									
0 ÷ 2500	2501 ÷ 5000	5001 ÷ 10000	> 10000								
± 0,5 %	± 0,5 % ± 0,4 % ± 0,3 % ± 0,2 %										
These tolerand	es do not consi	der variations d	ue to special								

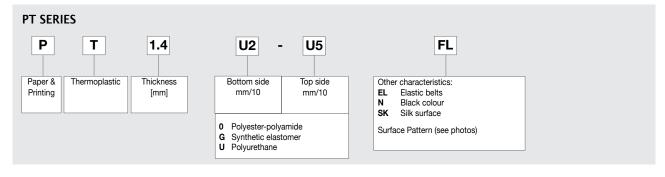
These tolerances do not consider variations due to special environmental conditions.

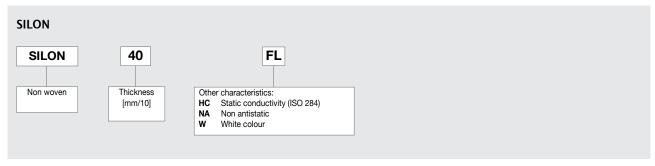
<sup>-:</sup> knife edge

## Explanation of type designation



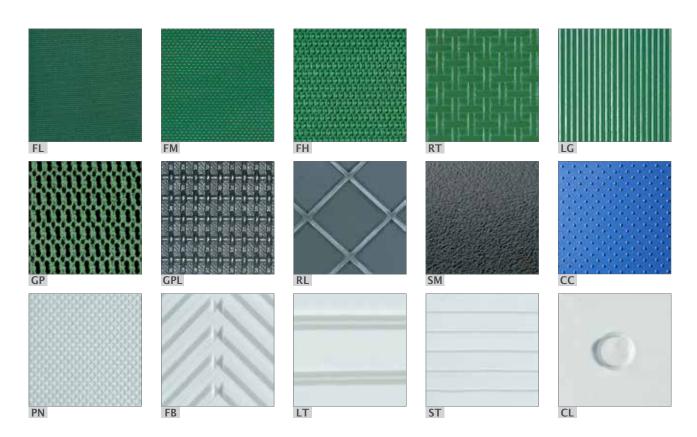






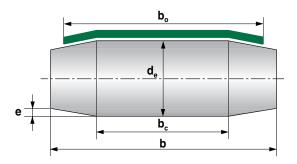


### Surface patterns



### Configuration of the pulleys

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



#### Legenda

**b**= pulley width

 $\mathbf{b}_{c}$  = width of the cylindrical section

 $\mathbf{b}_0$  = 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 Sh.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	THE	Sizes	Thidiness	Minimum (	Hardness	Standard Standard		Moes	
		[mm]	[mm]	[mm]	[Sh.A]	green	white		
POLYURETHAN	IE SIDEWALLS								
	C-U 10/20	10 x 20	1.7	50	85	✓	✓		
SI	C-U 10/30	10 x 30	1.7	70	85	✓	√	Polyurethane sidewalls,	The drawings below
	C-U 10/40	10 x 40	1.7	100	85	✓	✓	without base, fitted longitudi-	show width and pi-
	C-U 10/50	10 x 50	1.7	120	85	✓	✓	nally. They allow the use of small pulley diameters.	tch of the sidewalls.
	C-U 20/60	20 x 60	1.7	150	85	✓	✓	pulley diameters.	
	C-U 20/80	20 x 80	1.7	190	85	✓	✓		
<b>PVC SIDEWALL</b>	S WITH TEXTI	LE CORE							
	CV-T 10/20	10 x 20	1.7	60	60	✓	✓	Sidewalls with textile core, pur-	Ino Ite
	CV-T 10/30	10 x 30	1.7	80	60	✓	✓	posely designed to be applied on PVC belts on any thickness	U.ā
5	CV-T 10/40	10 x 40	1.7	110	60	✓	✓	and number of plies for use	24 mm
	CV-T 10/50	10 x 50	1.7	140	60	✓	✓	in special applications (e.g. in food-processing, agriculture or	
	CV-T 20/60	20 x 60	3.4	170	60	✓	✓	for general conveying of loose	25 m 24 m
	CV-T 20/80	20 x 80	3.4	210	60	✓	✓	bulk products).	50 mm

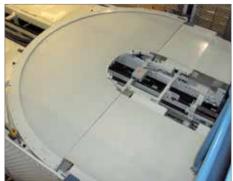


			/.	/	/ 5				/,2	<b>&gt;</b>		Minimu	r.a)	/2	in in (1)	/.	rin (1)	
Profile	Type		Dir. Inni	Hardne Hardne	7	Base		1	andare	Ś		Mirita	Miller	Ong. n	lui.	ransy.	luu,	Hotes
۸.	,		Apt,	Ligh.		, A.		2	'O'V			- Spile		\dian.		1, diani		4.
	PVC	PU		PVC	PUR		grooved					long.	transv.	PVC	PU	PVC	PU	
		K6 U	6 x 3	60	70	✓		✓	1			40	40	30	35	30	30	
	K6 TR	-	6 x 3	60	- 70	<b>√</b>	,		,		٧	-	40	25 40	50	30 40	50	
	K8 K8 TR	K8 U	8 x 5 8 x 5	60 60	70	1	<b>√</b>	✓	1			40	40	30	50	40	50	
		K10 U	10 x 6	60	70	<b>√</b>	<b>√</b>	1	1	1	'	40	40	60	65	50	50	Profiles mainly
	K10 TR	-	10 x 6	60	-	1	1						40	50	-	50	-	fitted on conveyor belts as
	K13	K13 U	13 x 8	60	70	✓	✓	1	1			45	45	80	85	80	80	quides.
	K13 TR	-	13 x 8	60	-	✓	✓				٧.		45	70	-	80	-	guiuco.
		K17 U	17 x 11	60	70	<b>√</b>	√ .	✓	1			45	45	120	125	100	120	
	K17 TR K30	-  -	17 x 11 30 x 15	60 60	-	1	✓	1	1		١,	60 45	45 60	120 220	-	100 150	-	
	KN8	KN8 U	8 x 5	60	70	<b>√</b>	1	1	1	+		40	40	35	40	-	-	
	KN8 GR	-	8 x 5	60	-	1					1	40	40	35	-	-	-	
	KN10	KN10 U	10 x 6	60	70	✓	✓	✓	✓			40	40	40	50	-	-	Knotched profiles
-33	KN10 GR, blue	-	10 x 6	60	-	✓				√ .	✓	40	40	40	-	-	-	can be used on
	KN13	KN13 U	13 x 8	60	70	1	√	√	√		<b>√</b>	45	45	50	60	-	-	smaller roller diameters.
	KN13 GR KN17	- KN17 U	13 x 8 17 x 11	60 60	- 70	1	1	1	1		۷	45 45	45 45	50 100	120	-	-	Giameters.
	KN30	-	30 x 15	60	-	<b>√</b>		<b>√</b>	1			60	60	180	-	-	-	
		S8 U	8 x 8	60	70	1	✓	1	1			40	40	80	70	50	50	
		S12 U	12 x 12	60	70	✓	✓	1	1			45	45	120	100	80	80	Profiles fitted
	S15	-	15 x 20	60	-		√	1	1			60	60	220	-	100	-	transversally or
	\$20 \$25	_	20 x 15 20 x 25	60 60	-		1	1	1			60	60	300	-	130 150	-	longitudinally.
		L20 U HP	20 x 25	-	70	<b>√</b>	· V	٧	1	1		- 60	40	300	-	-	40	PU HP, hardness
		L30 U HP	10 x 20	-	70	<b>√</b>				<b>√</b>		-	40	-	-	-	40	70 Sh.A,
		L40 U HP	10 x 40	-	70	✓			1	1		-	40	_	-	-	40	inclined lateral
		L50 U HP	10 x 50	-	70	✓				√		-	40	-	-	-	40	profiles with
		L80 U HP	10 x 80	-	70	1			_	1		-	40	_	-	-	40	highly flexible.
		T20 U HP T30 U HP	10 x 20 10 x 30	-	70 70	1			_	1		-	40	-	-	-	40	PU HP, hardness
		T40 U HP	10 x 30	-	70	<b>√</b>				<b>√</b>		-	40	-   -	-	-	40	70 Sh.A, lateral
		T50 U HP	10 x 50	-	70	· ✓			_	√		-	40	-	-	-	40	profiles, with highly flexible.
	-	T60 U HP	10 x 60	-	70	✓			✓	✓			40	_	_	_	40	mgmy nexible.
		L20 U	20 x 20	-	85	✓		1	1			-	45	-	-	-	60	
		L30 U L40 U	20 x 30 20 x 40	-	85 85	<b>√</b>		1	1			-	45	-	-	-	60	Polyurethane inclined lateral
		L50 U	20 x 40 20 x 50	-	85	<b>√</b>		<b>√</b>	1			-	45	-   -	-	-	60	profiles.
		L80 U	20 x 80	-	85	· ✓		1	1			-	45	-	-	-	60	
		T20 U	20 x 20	-	85	✓		1	1			-	45	-	-	-	60	
		T30 U	20 x 30	-	85	✓		1	✓			-	45	-	-	-	60	Polyurethane,
		T40 U	20 x 40	-	85 ee	<b>√</b>		1	1			-	45	-	-	-	60	lateral profiles, straight.
10/		T50 U T60 U	20 x 50 20 x 60	-	85 85	1		1	1			-	45 45	- -	- -	-	60	straigilt.
	L20	-	23 x 20	60	-	,	✓	<b>√</b>	1			-	55	_	-	80	-	
	L30	-	23 x 30	60	-		✓	✓	1			-	55	_	-	80	-	
	L40	-	23 x 40	60	-		✓	✓	1			-	55	-	-	80	-	PVC inclined
	L50	-	27 x 50	60	-		√	√	1			-	55	-	-	100	-	lateral profiles.
4.	L60 L70	-	27 x 60 27 x 70	60 60	-		<b>√</b>	1	1			-	55 55	_ _	-	100	-	
	L80	- -	27 x 70	60	_		<b>∀</b>	<b>√</b>	1			-	55	_	_	100	-	
	T20	-	23 x 20	60	-		<b>√</b>	1	√			-	55	-	-	80	-	
	T30	-	23 x 30	60	-		✓	1	1			-	55	-	-	80	-	
	T40	-	23 x 40	60	-		✓	1	1			-	55	_	-	80	-	PVC lateral
	T50	-	27 x 50	60	-		1	1	1			-	55	-	-	100	-	profiles, straight.
	T60 T70	-	27 x 60 27 x 70	60 60	-		1	1	1			-	55 55	-	-	100	-	
	T80	-	27 x 70	60	-		<b>√</b>	<b>√</b>	1			-	55	-	-	100	-	
	L20 RF	-	20 x 20	60	-	✓		1	1			-	50	-	-	80	-	PVC inclined
	L30 RF	-	20 x 30	60	-	✓		1	1			-	50	_	-	80	-	lateral profiles,
	L40 RF	-	20 x 40	60	-	1		1	1			-	50	-	-	80	-	flat base without
	L50 RF L70 RF	-  -	20 x 50 20 x 70	60 60	-	<b>√</b>		1	1			-	50	-	-	80 80	-	groove.
	T20 RF	<u>-</u> -	20 x 70	60	_	<b>√</b>		<b>√</b>	<b>√</b>	+		-	50	_	-	80	-	
	T30 RF	-	20 x 30	60	-	· ✓		1	1			-	50	-	-	80	-	PVC lateral
	T40 RF	-	20 x 40	60	-	✓		1	✓			-	50	-	-	80	-	profiles, straight
	T50 RF	-	20 x 50	60	-	✓		<b>√</b>	1			-	50	-	-	80	-	flat base without
	T60 RF	-  -	20 x 60	60	-	<b>√</b>		1	1			-	50	-   -	-	80	-	groove
	T80 RF	_	20 x 80	60	-	✓			۷			-	50			80	-	t conditions of 20°C.

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

### Special applications







#### **Curve belts**

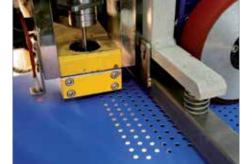
CHIORINO manufactures curve belts suitable for installation on any type of powered curve conveyor existing in the market.

Through a sophisticated totally computer-based (CAD controlled) cutting table, CHIORINO belts can be manufactured without any limitation in the external radius and angle, from a few degrees up to a complete circle (360°). Thanks to this innovative cutting system, CHIORINO curve belts can be supplied on demand for any dimensional requirement and in accordance with customized drawings, ensuring absolute precision and correct working on the conveyor.

The wide range of CHIORINO belts suitable for powered curve conveyors satisfies any application request in airport handling and sorting systems.

On request the curve belts can be fabricated with special finishing such as:

- perforations
- application of buttons
- application of eyelets.



#### Perforated belts

CHIORINO belts can be perforated according to customized drawings. This procedure is performed so that belts have air suction to prevent the conveyed material from moving around; it is also carried out to allow cooling air to pass through.



#### Sealed edges

#### **PRO CHLEAN**™

This is a procedure performed to protect the edges of CHIORINO belts.

The edge is protected to insulate the fabric structure from the infiltration of conveyed material in order to ensure a longer wear of the belt and to comply with standards on hygiene and with the HACCP concept.



#### Corrugated profiles

These are applied with a special procedure on PVC or polyurethane belts used to convey fruit.

The special configuration of the profile deadens the impact of the conveyed product and prevents it from becoming bruised. The flexing of the profile during running allows the use of smaller diameter drums.



#### Finger profiles

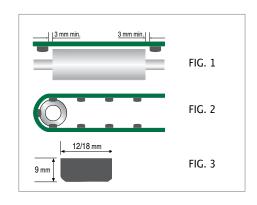
These are applied with a special procedure on PVC-W belts used in the fruit and vegetable industry on grading and sorting plants. They are made with a special compound resistant to low temperatures. The finger height is either 100 or 130 mm. With the 130 mm size the fingers are jointed by a reinforcement which limits flexing caused by the weight of the products.



#### **Guide buttons**

In special instances when the belt must be kept perfectly in place, PVC or polyurethane guides can be replaced with excellent results by buttons. These buttons allow drums with smaller diameters to be used. Made of plastic, they are smooth-running and wear-resistant; they are riveted on the belt, on one or on both edges.

At least three buttons must be in contact with the drum (fig. 2). Consequently the pitch between buttons will be determined by the roller diameter.





## Flat transmission belts

CHIORINO manufactures from raw materials a wide range of high duty transmission belts with excellent resistance to temperature, oils, dust and abrasion.

They are widely used as live roller drives, tangential drives, power transmission drives crossed or multiple, for low, medium and high power, as machine feeding belts and process belts in the paper and folding industry. In particular the main applications are in:

- graphic industry
- carton box folding industry
- textile industry
- packaging and confectionary
- mechanical constructions
- wood industry
- ▶ flour mills
- marble and tiles industry

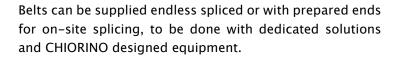


## The endless making

CHIORINO is able to perform all necessary operations in its highly automated workshops including cutting, skiving and glueing, punching for the fabrication of endless belt manufacture.

Special transmission belts can also be manufactured complete with:

- guides, profiles and sidewalls fitted by means of high frequency and hot air welding machines
- perforations



For the glueing of its transmission belts CHIORINO supplies special cement kits complete with directions for use.

The polyester belts can be made endless without use of cements in a very short time with the CHIORINO Fast Joint system and equipments (see page 24).





#### The range

Thermoplastic transmission belts with traction core in POLYESTER and elastomer covering.

 DG-E HS series: suitable for folder-gluers in the cardboard industry, as an alternative to the traditional nylon belts of the DG HS series.

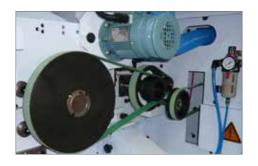
#### Transmission belts with traction core in POLYAMIDE.

- ▶ T series: specially designed for tangential drives in the textile industry. The high-quality features are: rectilinear and quiet running, antistatic, optimum grip, energy saving, resistance to abrasion, heat, oil, dust, are obtained in every field. Suitable for multiple drives. The T-T series yellow-black provide straight running and dimensional stability to an outstanding degree. The OE type is specially designed to suit the newest openend spinning frames.
- ▶ DG HS series: these double rubber faced belts have special elastomers which maintain continuous frictional values. Antistatic. Suitable for: folder-gluer machines, tube winders, post office machinery and in the graphic arts industry, multiple drives, etc.
- P series: suitable for both light and medium drives: power operated tools, auxiliary drives in the textile and mechanical industry, etc. Installed as conveyor belts in the packaging and graphic arts industries. Antistatic.
- Z series: suitable for both medium and high horsepower drives; extremely abrasion resistant; oil, grease proof; antistatic. Designed to perform well in difficult working conditions. Recommended for: pumps, ventilators, mixers, rolling-mills,turbines saws for marble, chippers, etc.
- LT series: belts with chrome leather driving surface. Contrary to belts with synthetical covers, LT belts are recommended for all drives subject to violent over loads since the leather driving surface allows temporary slipping without burning. Suitable for: conic drives, drives with belt-shifters, chippers, crushers, paper mills, etc. Suitable for cross drives.
- LL series: belts with double chrome leather covers. The same characteristics and applications envisaged for the LT series apply also to the LL series. Suitable for multiple drives and cross drives.











## **Production program**

	/	/		/						/	(D)	tion		/
	, e			core	Driving surface			Total thick	ness	/ /չ	Rull for 1st	elongation rensile st	enght on	ile.
THE	Topsurface			Traction core	Driving 3		,	Totalthic	Weight	Minimun	Pulfor	Tensiles	enghi Temperati	je J
	material	colour	coefficient		material	colour	coefficient	[mm]	[kg/m²]	[mm]		[N/mm]	[,C]	[°C]
			of friction on steel				of friction on steel							
BELTS WITH PC	LYESTER	TRACTI	ON CO	RE										
DG-E 10/30 HS	elastomer	•	0.7	polyester	elastomer	•	0.7	3.0	3.5	30	10.0	180	-20	80
DG-E 10/40 HS	u	•	0.7	"	u	•	0.7	4.0	5.0	40	10.0	180	-20	80
DG-E 10/50 HS	и	•	0.7	"	и	•	0.7	5.0	6.0	60	10.0	180	-20	80
DG-E 10/60 HS	ı,		0.7	"	"	•	0.7	6.0	7.0	60	10.0	180	-20	80
T series														
то	elastomer	•	0.7	polyamide	elastomer	•	0.7	1.4	1.5	20	2.0	80	0	100
T1	и	•	0.7	и	и	•	0.7	1.7	1.8	25	5.0	200	0	100
T1R	и	•	0.7	и	"	•	0.7	2.1	2.3	25	5.0	200	0	100
T2	и	•	0.7	"	и		0.7	2.3	2.6	60	7.5	300	0	100
T2R	u	•	0.7	"	"	•	0.7	3.2	3.6	75	7.5	300	0	100
Т3	и	•	0.7	и	u		0.7	2.6	2.8	100	10.0	400	0	100
T3R	u	•	0.7	u	u	•	0.7	3.4	3.7	100	10.0	400	0	100
T4	и		0.7	"	и	•	0.7	3.1	3.4	150	15.0	600	0	100
T4R	и	•	0.7	"	"	•	0.7	3.9	4.5	150	15.0	600	0	100
T4S	и	•	0.7	"	u	•	0.7	5.1	5.9	150	15.0	600	0	100
T1-T	elastomer	•	0.7	polyamide	elastomer	•	0.7	1.8	2.1	25	5.0	200	0	100
T2-T	и	•	0.7	"	"	•	0.7	2.7	3.1	60	7.5	300	0	100
T3-O.E.	и	•	0.7	u	u	•	0.7	2.7	3.0	90	10.0	400	0	100
T3-T	и	•	0.7	"	"	•	0.7	2.9	3.4	100	10.0	400	0	100
T4-T	"	•	0.7	"	"	•	0.7	3.4	3.7	150	15.0	600	0	100
DG HS series					ı									
DG1/15 HS	elastomer	•	0.7	polyamide	elastomer	•	0.7	1.6	1.8	20	5.0	200	0	100
DG1/30 HS	"	•	0.7	u	"	•	0.7	3.0	3.4	30	5.0	200	0	100
DG1/40 HS	"	•	0.7	u	"	•	0.7	4.0	4.6	40	5.0	200	0	100
DG2/20 HS	"		0.7	"	"	•	0.7	2.4	2.8	40	7.5	300	0	100
DG2/30 HS	"	•	0.7	"	"	•	0.7	3.2	3.7	40	7.5	300	0	100
DG2/40 HS	и		0.7	"	"		0.7	4.0	4.8	50	7.5	300	0	100
DG2/60 HS	u	•	0.7	и	"	•	0.7	5.5	6.3	60	7.5	300	0	100



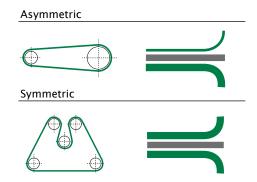
		/									Pulled 2	elongation Tensile str		/ie
	Topsulface			Traction core	Driving surface			Total thick	ness	TUTT	jiame or 2	e longation	enghi kemi	erature
THE	70P3		ĺ	Kacci	Drivit		ĺ	Zotai	Weight	Minit	Pull	Zens,	Wat sta	
	material	colour	coefficient of friction on steel		material	colour	coefficient of friction on steel		[kg/m²]	[mm]		[N/mm]	[°C]	[°C]
P series														
P0	polyurethane	•	0.3	polyamide	elastomer	•	0.6	0.9	1.0	15	2.0	80	0	100
PRO	"	•	0.3	"	polyurethane	•	0.3	1.0	1.1	20	3.0	120	0	100
P1	"	•	0.3	"	elastomer	•	0.6	1.4	1.5	25	5.0	200	0	100
P2	и	•	0.3	u	"	•	0.6	2.1	2.3	50	7.5	300	0	100
Z series														
<b>Z1</b>	polyurethane	•	0.3	polyamide	elastomer	•	0.6	1.4	1.5	25	5.0	200	0	100
<b>Z</b> 2	ш	•	0.3	ű	"	•	0.6	2.3	2.8	60	7.5	300	0	100
Z3	"	•	0.3	"	"	•	0.6	2.6	3.1	100	10.0	400	0	100
Z4	"	•	0.3	"	"	•	0.6	3.4	3.9	150	15.0	600	0	100
<b>Z6</b>	"	•	0.3	"	"	•	0.6	3.7	4.2	200	20.0	800	0	100
<b>Z</b> 9	"	•	0.3	"	"	•	0.6	4.9	5.8	300	30.0	1200	0	100
Z12	ıı.	•	0.3	"	"	•	0.6	5.6	6.3	400	40.0	1600	0	100
LT series														
LTOR	polyurethane		0.3	polyamide	leather		0.4	2.4	2.7	30	3.0	120	0	80
LT1	"		0.3	"	"		0.4	2.5	2.5	50	5.0	200	0	80
LT2	"		0.3	"	"		0.4	3.1	3.1	75	7.5	300	0	80
LT3	"		0.3	"	"		0.4	3.3	3.4	100	10.0	400	0	80
LT4	"		0.3	"	"		0.4	3.8	4.0	150	15.0	600	0	80
LT6	"	•	0.3	"	"		0.4	4.4	4.6	200	20.0	800	0	80
LT9	"		0.3	"	"		0.4	5.6	5.9	300	30.0	1200	0	80
LT12	"	•	0.3	"	"		0.4	6.1	6.8	400	40.0	1600	0	80
LL series														
LLO L	leather		0.4	polyamide	leather		0.4	3.2	3.2	50	2.0	80	0	80
LL1	ш		0.4	"	"		0.4	3.2	3.2	50	5.0	200	0	80
LL2	ш		0.4	"	"		0.4	4.0	4.1	75	7.5	300	0	80
LL3	u		0.4	"	"		0.4	4.2	4.4	100	10.0	400	0	80
LL4	u u		0.4	"	"		0.4	4.8	5.0	150	15.0	600	0	80
LL6	"		0.4	"	"		0.4	6.0	6.0	200	20.0	800	0	80
LL9	"		0.4	и	"		0.4	7.2	7.6	300	30.0	1200	0	80

(1) The above mentioned values depend on the running speed.

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

#### Flat belts structure

_	P, PR, Z, LT		Polyurethane
Top surface	DG-E HS, T, DG HS		Elastomer
Januare	LL		Leather
	P, PR, Z, T, DG HS, LT, LL	class 0÷6	Mono ply polyamide
Traction core		class 9÷12	Double ply polyamide
COLE	DG-E HS		Polyester fabric
	PR		Polyurethane
Driving surface	DG-E HS, P, Z, T, DG HS		Elastomer
Juniace	LT, LL		Leather



#### Rolls sizes

The maximum production width of the transmission belts is 500 mm. Maximum rolls' length (narrower, shorter, longer rolls can be supplied upon request):

#### **Endless belts tolerances**

Width	< 60	± 1
[mm]	60 ÷ 150	± 1,5
[]	> 150	± 2

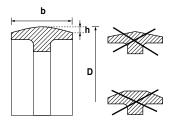
I a sa saala	< 5.000	± 0,5%
Length [mm]	5.000 ÷ 20.000	± 0,3%
[IIIIII]	> 20.000	± 0,2 %

#### Configuration of the pulleys

To assist tracking of the belt it is advisable to crown the drive pulley. When considering drives with minimal difference between the pulleys' diameters or with vertical or semi-crossed drives, it is advisable to also crown the smaller pulley, decreasing the h value by half. With multiple pulley drives, the pulleys to be crowned are only those touched by the same face of the belt. It is important to crown the pulley (s) as shown in the figure below. Do not fit pointed or truncated cone-shaped pulleys. Materials recommended: cast iron or steel with smooth surface finish. The dimension h is a value of the pulley diameter up to 400 mm (see table 1). For  $\emptyset \ge 400$  mm, h is a value of the diameter  $\emptyset$ , as well as the face width b of the pulley (see table 2). Usually the belt width recommended is as a minimum 10 mm narrower than the pulley face width.

TAB. 1 Dimensions for pulleys having diameter D from 40 to 355 mm (ISO R 22/DIN 111)

( , , ,				
Diameter D	Dimension h max			
from 40 to 112	0,3			
125 and 140	0.4			
160 and 180	0.5			
200 and 224	0.6			
250 and 280	0.8			
315 and 355	1.0			



Dimensions for pulleys having diameter D from 400 to 2000 mm (ISO R 22 / DIN 111)

•	•						
Width b	≤125	140 and 160	180 and 200	224 and 250	280 and 315	355	≥400
Diameter D			Dir	nension h m	nax		
400	1.0	1.2	1.2	1.2	1.2	1.2	1.2
459	1.0	1.2	1.2	1.2	1.2	1.2	1.2
500	1.0	1.5	1.5	1.5	1.5	1.5	1.5
560	1.0	1.5	1.5	1.5	1.5	1.5	1.5
630	1.0	1.5	2.0	2.0	2.0	2.0	2.0
710	1.0	1.5	2.0	2.0	2.0	2.0	2.0
800	1.0	1.5	2.0	2.5	2.5	2.5	2.5
900	1.0	1.5	2.0	2.5	2.5	2.5	2.5
1000	1.0	1.5	2.0	2.5	3.0	3.0	3.0
1120	1.2	1.5	2.0	2.5	3.0	3.0	3.5
1250	1.2	1.5	2.0	2.5	3.0	3.5	4.0
1400	1.5	2.0	2.5	3.0	3.5	4.0	4.0
1600	1.5	2.0	2.5	3.0	3.5	4.0	5.0
1800	2.0	2.5	3.0	3.5	4.0	5.0	5.0
2000	2.0	2.5	3.0	3.5	4.0	5.0	6.0

## Polyurethane round and V-belts



CHIORINO manufactures by extrusion both polyurethane round and V Section belts which are used in various markets for transmission of light duty drives, at medium low speeds and conveying light loads.

Main characteristics: extremely good tensile strengths, elasticity and flexibility values; very high resistance to abrasion, tearing, grease and pure mineral oils, petrols and hydrolisis. The recommended working temperatures is between -20 and +60 C degrees.

Round belting is now available in two versions:

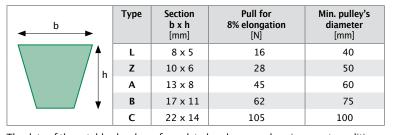
- "RU HP" series in blue color with smooth surface, complying to EU regulations EC 1935/2004, EC 2023/2006, EU 10/2011 and FDA, 85 Sh.A hardness;
- "RU" series in green colour with rough surface, 92 Sh.A hardness.

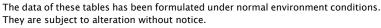
The **V-belts** are manufactured in a single range which has a smooth surface, 92 Sh.A hardness, in bright green colour.



Being thermoweldable polyurethane it enables quick endless jointing of belts. For high precision joints of round and V-belts of any size CHIORINO supply the **FAST JOINT welder "S15"** – see photo and page 26.

Belts diameter	Nominal transmission power (kW) Tension 8%		Pull for 8% elongation	Min. pulley's diameter		
[mm]		speed [	m/sec]		[N]	[mm]
	2.5	5	10	15		
2	0.01	0.02	0.04	0.06	8	15
3	0.02	0.05	0.07	0.12	18	20
4	0.04	0.08	0.16	0.23	30	35
5	0.06	0.13	0.25	0.37	50	45
6	0.09	0.18	0.36	0.50	70	50
7	0.12	0.25	0.50	0.75	100	60
8	0.17	0.35	0.70	0.90	130	70
9	0.20	0.40	0.85	1.12	160	75
10	0.27	0.55	1.05	1.50	200	80
12	0.40	0.80	1.50	2.00	280	100
15	0.58	1.15	2.00	3.30	440	130















# Equipment and jointing systems







The **ENGINEERING DIVISION** of CHIORINO designs and supplies equipment for making endless conveyor and transmission belts. This booklet illustrates LIGHTWEIGHT EQUIPMENT and equipment suitable for JOINTING ON SITE, which are available ex-stock.

All the above equipment can be supplied either with 220 or 380 V and 50 or 60 Hz frequency. Every machine complies with the CE european directives and it is complete with the operating and maintenance instructions.

CHIORINO can also supply for the PROFESSIONAL WORKSHOPS:

- cutting benches
- cutting and slitting machines
- skiving machines and splitting machines (lappers)
- punching machines and workshop presses
- hot-air welders and high frequency machines for applying profiles and guides.

CHIORINO offers a wide choice of jointing systems, designed to match all the application needs. In the next page are summarised the types of joints that can be selected to make CHIORINO belts endless. All the the jointing systems described must be related to the belt type and the working conditions.

CHIORINO operates internationally through a widespread distribution and services network which provides the best applications and solutions for every sector as well as a fast service.

The CHIORINO technical service can solve any problem of product handling; highly specialized teams are available to perform on-site installations, offering the customer a truly global service.



## Conveyor and transmission belts jointing systems

#### OVERLAP

This system is applicable to thermoplastic polyurethane belts (photo 1).

#### FINGER JOINTS

Traditional splicing method that guarantees thickness and alignment evenness.

- MICRO Z: fast joint for conveyor and transmission belts (photo 2).
- **SINGLE Z**: it offers the maximum of flexibility. Ideal on fixed knife edges. Seam sealing foil can be used to increase strength and for heavy applications (photo 3).
- DOUBLE Z: it provides high strength and can be used in alternative to single Z (photo 4).

#### ▶ SKIVED

Special method for polyamide transmission belts and some conveyor belts for special applications as alternative to the traditional finger joints (photo 5).

#### STEP

Special method for some belts and for special applications as alternative to the traditional finger joints (photo 6).

#### PLASTIC FASTENER

Non metallic fastener made of polyester fabric and spiralace. It has a high resistance to chemicals, guarantees flexibility and a short replacement time. It is FDA approved. It is suitable for over 16 mm diameter pulleys and in particular in those applications involving X-Ray scanners or metal detectors (photo 7).

#### METAL FASTENERS

Mechanical fasteners suitable in those situations where ease and speed of fitting is required. They are available both in galvanized and stainless steel, in the following types:

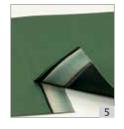
- M/G: suitable for every belt type, in particular for airport systems, for food industry and for textile industry (photo 8).
- M/M: suitable for every belt type and application. They do not need equipment for their application (photo 9).
- M/SL: suitable for every belt type and application (photo 10).
- M/SW: suitable for belts thicker than 2 mm. They guarantee superior strenght. They are in particular used in the agricultural industry (photo 11).







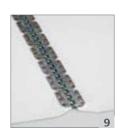


















3 min.



CHIORINO has designed fast and easy to make jointing systems obtained by using purpose designed equipment.

Features of the CHIORINO Fast Joint systems:

- they can be executed on thermoplastic conveyor and transmission belts
- > no use of cements
- they guarantee ease of use and speed of execution: a few minutes, using the equipment here shown and following the jointing procedures ensuring quality joints.









#### **CHIORINO FAST JOINT KIT**

With the Fast Joint Kit CHIORINO thermoplastic conveyor and transmission belts can be made endless in a few minutes without the use of adhesives in just four steps:

- ▶ 1: place the belt with prepared ends on the holding plate,
- ▶ 2: cover with the appropriate plate and fasten with the fastening clamps,
- ▶ 3: press according to the times recommended in the operating manual,
- ▶ 4: remove press and replace with cold clamp for cooling.



Type	Description	Plates' sizes wxl [mm]	Weight [kg]
P50 FJ	Press with 2 heated platens, suitable for endless making of CHIORINO thermoplastic conveyor and transmission belts, up to 40 mm wide and a maximum of 3 mm thickness. It is supplied along with 2 holding plates with fixed width (20 and 25 mm), 2 clamps for belt fastening and 1 cooling clamp.	50x50	1,4



	Description	Dimensions wxlxh [mm]	Weight [kg]
F35 M	Hand-operated puncher for MICRO-Z fingers of thermoplastic conveyor and transmission belts, up to 120 mm wide and a maximum of 4 mm thickness.	220x215x130	1,3



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
F80 ME	Hand-operated puncher for SINGLE-Z fingers of conveyor and transmission belts, up to 80 mm wide and a maximum of 6 mm thickness.	640x200x350	14



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
P120 FJ	Press with two heated platens, suitable for endless making of thermoplastic materials up to 80 mm wide and a maximum of 6 mm thickness. It can be supplied in a kit, along with holding plates, fastening and cooling clamps.	Plates' sizes wxl [mm] 100x140	4



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
EL250	Type EL250 Press with 2 heated platens, suitable for endless making of thermoplastic polyurethane elastic belts (EL series) up to 200 mm wide and a maximum of 2 mm thickness.	Plates' sizes wxl [mm] 230x25	17



## Punchers, skivers, welders



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
F700 M	Hydraulic hand operated puncher, for SINGLE Z fingers on belts up to a maximum of 5,5 mm thickness.	820x380x340	30



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
B80 D	Hand operated plate skiver for conveyor and transmission belts up to 80 mm wide and a maximum of 1,3 mm thickness.	320x250x250	5



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
B100 R	Roller skiver without motor (B100 R) or with motor (B100 RM) for conveyor and transmission	330x260x170	8,5
B100 RM	belts up to 100 mm wide with 90° straight cut and a maximum of 5 mm thickness.	570x260x250	25



Type	Description	Dimensions wxlxh [mm]	Weight [kg]
B300 SA	Skiver ideal to obtain accurate skives with preset angle on belts and belting up to 300 mm wide with 90° straight cut and max. thickness 10 mm.	550x600x450	42



Туре	Description	Dimensions wxlxh [mm]	Weight [kg]	
S15	Fast Joint welder for jointing PU round and V-belts. It can be supplied with clamp and pliers.	160x90x110	3	

## Presses for vulcanizing skived conveyor and transmission belts

Type	Description	Dimensions wxlxh [mm]	Max. temp. [°C]	Weight [kg]
P100 K	Press for vulcanizing skived conveyor and transmission belts up to 100 mm wide and a maximum of 5,5 mm thickness.	300x145x140  Plates' sizes  wxl [mm]  120x105	135	2

Type	Description	Dimensions wxlxh [mm]	Max. temp. [°C]	Weight [kg]
P200	Press for vulcanizing skived polyurethane	350x210x190	135	11
	and PVC conveyor and transmission belts up to 200 mm wide and	Plates' sizes wxl [mm]		
	a maximum of 10 mm thickness.	220x160		

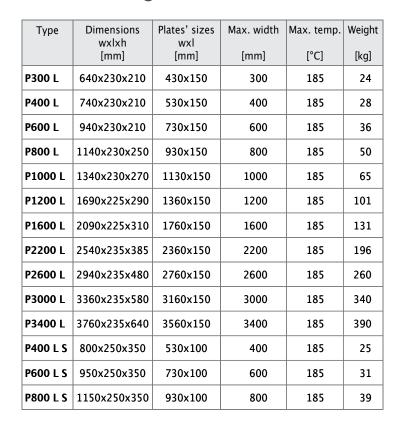


P100 K



P200

## Presses with cooling system for thermoplastic and thermosetting belts





P300-1000 L



P1200-3400 L



P400-800 LS

# "Texgum" roller coverings

"Texgum" roller coverings are designed to increase the coefficient of friction of rollers and are used mainly in the weaving and finishing sectors of the Textile industry. They are manufactured to the highest possible standards using specially designed elastomers.

The comprehensive range is suitable for all types of machinery and offers technical qualities such as:

- high quality textile carcass with very good dimensional stability even for wet processing;
- high wear resistant covers in natural rubber, specially formulated elastomers and silicones;
- consistant quality due to the fully automated cycle of production control.



#### Features

- ► Textile carcass: polyester fabric, except for the FG types (fiberglass), FLO (non woven).
- ➤ Self-adhesive version (/A): can be supplied for all types, except for SIO-FG, SI2-FG.
- ▶ Roll's width: available in 50 70 mm. Other widths upon request.



Clean rollers thoroughly by means of non oily solvent. To wrap the roller covering spiral-wise, cut the end of the covering aslant by a length equal to the circumference of the roller. Apply the adhesive first to the roller and then to the Texgum covering and wrap the latter while it is still slightly tacky. The silicone adhesive must be applied to the roller only, taking care to wrap the covering on the roller immediately. Then fix the ends of the covering by means of an adhesive tape. Wait for 8 hours before use.



#### **Adhesives**

▶ Texcol: for all types, except SIO-FG.

• Silicone: for SIO-FG.



THE	Covering			Thickness	Weight	Temperati Temperati	je je	Rolls lengt	
	material	colour	hardness Sh.A	mm	Kg/m²	min.	max.	m	
NG0			50	1.5	1.6	0	100	100	<b>SG</b> Type of covering
NG3			50	2.0	2.2	0	100	100	
NG5	Natural		50	1.9	2.1	0	100	100	Surface pattern
NG7	elastomer	•	50	1.7	1.9	0	100	115	M Special execution
NG7-S			50	2.5	2.6	0	100	115	
NG8			55	2.0	2.0	0	100	100	TYPE OF COVERING
SG0 SG0-D		•	55 75	1.8	2.1	-10 -10	120 120	115 115	FLO Velvet
SG0-E			50	2.7	2.2	-10	120	115	
SG0-E nc			50	2.7	2.2	-10	120	115	NG Natural elastomer
SG0-M		•	50	2.2	2.3	-10	120	115	NP Neoprene
SG0-S		•	55	2.5	2.6	-10	120	115	PV PVC
SG1		•	55	2.0	2.6	-10	120	115	SG Synthetic elastomer
SG1-E			40	3.0	2.3	-10	120	115	SI Silicone
SG3			65	2.0	2.2	-10	120	100	
SG4	Synthetic		50	4.2	2.9	-10	120	100	SURFACE PATTERNS
SG5	elastomer		65	2.0	1.8	-10	120	100	0 Smooth
SG6			65	2.0	2.3	-10	120	100	1 Light fabric
SG7		0	65	2.0	2.2	-10	120	115	2 Medium fabric
SG7 gr		•	65	2.0	2.2	-10	120	115	3 Heavy fabric
SG7-H			65	2.0	2.2	-10	120	115	4 Grip face
SG7-L		0	65	1.7	2.0	-10	120	115	5 Pimpled
SG7-M SG7-S			50 65	1.9 2.5	2.9	-10 -10	120 120	115 115	
SG8		0	60	2.0	2.9	-10	120	100	6 Fine sandblast
SG8 HX			50	2.5	2.1	-10	120	100	7 Medium sandblast
PV0			45	1.8	2.0	0	60	100	8 Heavy sandblast
PV0 ve			45	1.8	2.0	0	60	100	
PV5		0	45	2.3	2.4	0	60	100	SPECIAL EXECUTIONS
PV5 ve	D) (C	•	45	2.3	2.4	0	60	100	D High shore hardness
PV6	PVC	0	45	1.9	2.0	0	60	100	
PV6 ve		•	45	1.9	2.0	0	60	100	E Foam synthetic elastomer
PV7		0	45	1.9	2.0	0	60	100	FG Fiberglass textile carcass
PV7 ve		•	45	1.9	2.0	0	60	100	H High performance
SIO-FG		0	50 50	1.1 1.4	1.0	-20 -50	160 200	115 115	HX High performing carboxylic elastomer
SIO-S	Silicone	0	50	2.0	2.1	-20	160	115	L Less rubber
SI1 az		•	45	1.6	1.7	-20	150	115	M Soft
SI2-FG		0	50	1.5	1.4	-50	200	115	
NPO/A	Neoprene			3.5	0.7	-40	70	50	S Extra rubber
FLO	Velvet	•		2.4	0.8	-10	60	50	

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

## Endless rubber mandril made belts

CHIORINO manufactures a wide range of MF elastomer belts suitable for applications in various industrial sectors (carton folding industry, packaging, post office automation etc.).

#### Main features of "MF" CHIORINO endless belts:

- no joint: manufactured with endless technology which guarantees endless uniformity of the surface and the coefficient of friction
- absolute thickness regularity
- perfect dimensional stability due to the polyester fabric core

The **elastomer covering** which keeps its original working surface during the whole working life is available in the following colour and hardness range dependent on the coefficient of friction required on application:

**B** = beige, 50 Sh.A

HS = white, 40 Sh.A

L = raspberry, 35 Sh.A

R = purple red, 45 Sh.A

**Tooth belts** can be applied to the bottom surface to provide absolute synchronous drive where required avoiding any risk of slippage. The toothed belt can be in elastomer (metric and imperial pitch) or in polyurethane (metric pitch). Other special constructions including punched holes where air suction units are fitted can be manufactured on request.

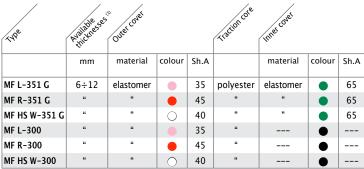
BELTS CONSTRUCTION			
Elastic belt (without fabric core)	Belt with polyester fabric core	For synchronous drive metric or imperial pitch timing belt base in elastomer	For synchronous drive metric timing belt base in polyurethane
Two elastomer layers: - feedside, high coefficient of friction, is available in the colours and hardnesses stated above; - black driveside, hard- wearing.	Composition: - feedside, high coefficient of friction, is available in the colours and hardnesses stated above; - fabric core; - natural colour driveside, hardwearing and low coefficient of friction	Timing belts designed for synchronous drive in both metric and imperial pitch. The high friction coefficient elastomer cover is available in the colours and hardness stated above.	Timing belts designed for synchronous drive in metric pitch. The high friction coefficient elastomer cover is available in the colours and hardness stated above.



#### **Carton folding industry**

Truly endless belts used as feeder belts on folder–gluers for smooth and corrugated cardboard. The outer cover made of self–regenerating elastomer maintains the coefficient of friction unchanged. The elastomer inner cover guarantees a consistent feeding even on the fastest machines. The CHIORINO truly endless belts are made without using any rubber latex and for this reason they are suitable for manufacturing boxes in the food and pharmaceutical industries. These belts are available with three different versions of the MF cover to be selected according to the type of material to be processed:

- L raspberry: suitable for smooth cardboard, either glossy or matt;
- R purple red: suitable for abrasive smooth cardboard, PVC boxes, corrugated cardboard;
- **HS W**: for very abrasive and heavy cardboard and for high speed folder-gluers.

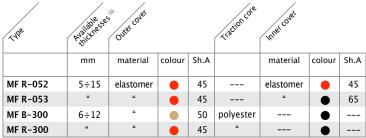


<sup>(1)</sup> For non-standard thicknesses, please contact the CHIORINO Technical Assistance.

#### Form-fill-seal belts

CHIORINO have specially developed a range of endless belts for form-fill machines to improve the filling of the packets mainly in the food industry. The packets are gripped and drawn down by two specially constructed belts, usually located vertically for easier filling control of the product with loose products (drops, chips, pasta etc.). Speeds are extremely high ranging from 80 to 150 packets per minute. The MF elastomer covering is available in two different versions of the MF cover according to the type of packaging, in order to get the best ratio of needed friction and surface abrasion resistance.

- R purple red: for PVC and polyethylene films; also suitable for abrasive packagings (paper, fabric);
- B beige: particularly suitable for abrasive packagings (paper, fabric).



<sup>(1)</sup> For non-standard thicknesses, please contact the CHIORINO Technical Assistance.

The data of these tables has been formulated under normal environment conditions. They are subject to alteration without notice.

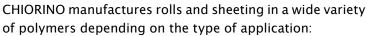








# Rubber and silicone sheeting



- elastomer where high flexibility is required
- ▶ silicone: for high temperature and non-stick application.

CHIORINO sheeting are manufactured in rolls of max. width 1600 or 2000 mm and standard length of 100/200 m. They can also be supplied cut to size according to customer's requirement.

They are available in hardnesses from 35 to 50 Sh.A and in different colours. They are manufactured in standard thicknesses from 1 to 10 mm; other thicknesses are available on request.



- ▶ Furnitures manufacturing: on veneering presses, for the application of PVC or wood films on shaped panels. Pads perfectly follow the panels' shapes under pressure, transferring the desired temperature during the working cycle. The silicone pad LI SI W can operate at temperatures up to 200° C.
- Carton box folding industry: the sheeting produced by CHIORINO are vulcanised on carcasses to manufacture truly endless feeding belts for box folding machines. The same rubber can be supplied in rolls and used for covering timing or flat belts for the same purpose. They can be supplied with a Sh.A hardness of 35 or 45 degrees to be suitable for any kind of carton, giving high surface friction and excellent wearing properties.
- Packaging: as covering for flat or timing belts automatic bag filling machines.
- Leather industry
- > Silk screen printing
- Photovoltaic

CHIORINO sheeting without fabric support are used in a wide range of other industrial sectors: mining and ceramics for material sieving, linings for piping for pumping water and silt from rivers, protective linings for animal cages, window wipers, bullet fragmentation and rebound control in shooting galleries, etc.

The availability of different Shore hardness allows this material to cover a wide range of industry.







		/		/5		attern		rure		Production within
THE	Material	Hadhess	Colout	Thickness	Weight	Surface Pattern		Temperature		Production
		Sh.A [±5]		mm	Kg/m²	outer	inner	min.	max.	mm
SHEETING FOR	VENEERING PRES	SSES								
LI-G10	elastomer	45	•	1.0	1.1			-20	120	2000
LI-G20	46	45	•	2.0	2.2			-20	120	2000
LI-G25	44	45	•	2.5	2.7			-20	120	2000
LI-G35	44	45	•	3.5	3.8			-20	120	2000
LI-G40	"	45	•	4.0	4.5			-20	120	2000
LI-G50	"	45		5.0	5.3			-20	120	2000
LI-SI10	"	40	0	1.0	1.1			-50	160	2000
LI-SI20	silicone	40	0	2.0	2.2	smooth	FL	-50	160	2000
LI-SI30	46	40	0	3.0	3.4			-50	160	2000
LI-SI40	"	40	<u> </u>	4.0	4.6			-50	160	2000
LI-SI10 W	"	50	0	1.0	1.1			-50	200	2000
LI-SI20 W	"	50	0	2.0	2.2			-50	200	2000
LI-SI30 W	"	50	0	3.0	3.3			-50	200	2000
LI-SI40 W	a a	50	0	4.0	4.4			-50	200	2000
SHEETING FOR	CARTON BOX FO	LDING IN	DUSTRY AND	PACKA	GING					
LC-G20 MF-R	elastomer	45	•	2.0	2.2			-20	100	1600
LC-G30 MF-L	"	35		3.0	3.0			-30	80	1600
LC-G30 MF-R	"	45		3.0	3.3			-20	100	1600
LC-G40 MF-L	"	35		4.0	4.0			-30	80	1600
LC-G40 MF-R	"	45	•	4.0	4.4			-20	100	1600
LC-G50 MF-L	46	35		5.0	5.0			-30	80	1600
LC-G50 MF-R	46	45		5.0	5.5	FL	FL	-20	100	1600
LC-G60 MF-L	46	35		6.0	6.0			-30	80	1600
LC-G60 MF-R	"	45	•	6.0	6.6			-20	100	1600
LC-G80 MF-L	"	35		8.0	8.0			-30	80	1600
LC-G80 MF-R	"	45		8.0	8.8			-20	100	1600
LC-G100 MF-R	"	45	•	10.0	11.0			-20	100	1600
SHEETING FOR	LEATHER INDUS	TRY								
LP-G20 FL	elastomer	45	•	2.0	2.2	F	F:	-20	120	2000
LP-G25 FL	u	45	•	2.5	2.7	FL	FL	-20	120	2000
SHEETING FOR	SILK-SCREEN PR	INTING								
LX-45-G20	elastomer	45	•	2.0	1.9	FH	FL	-20	100	2000

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