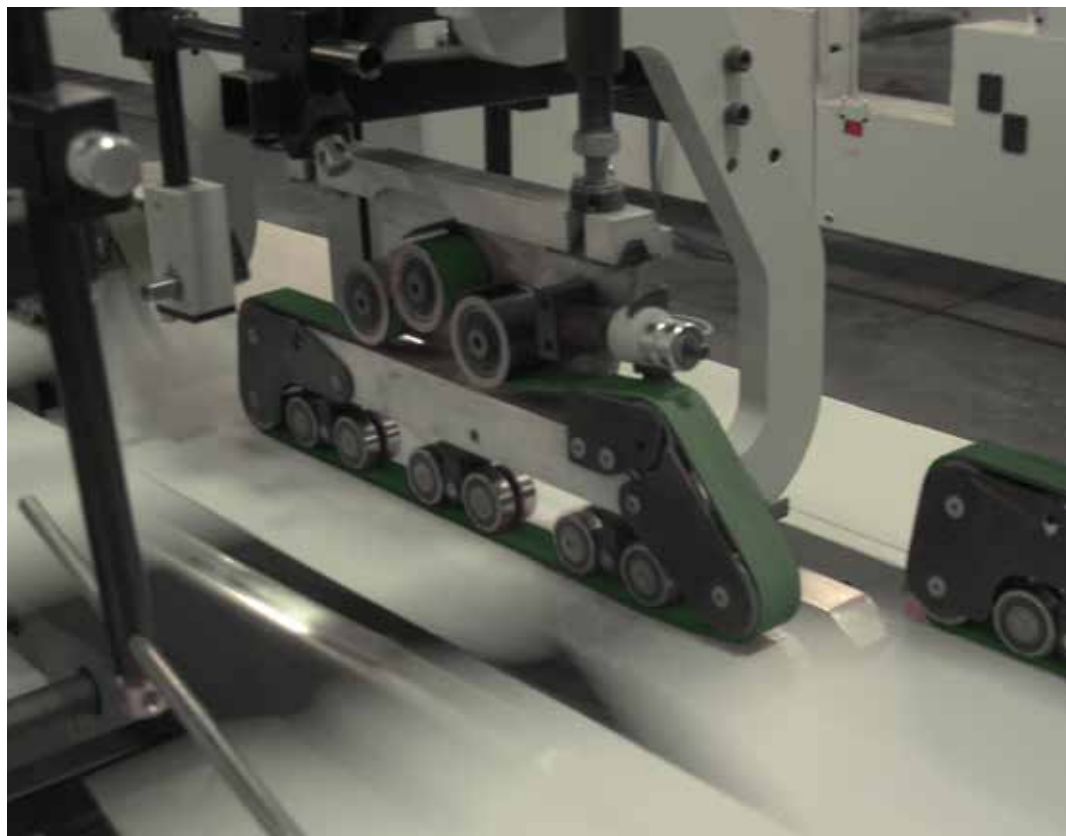
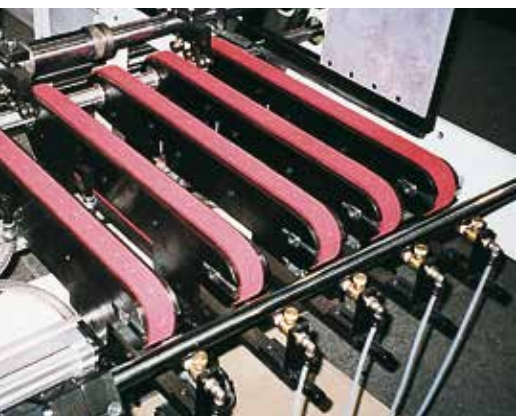
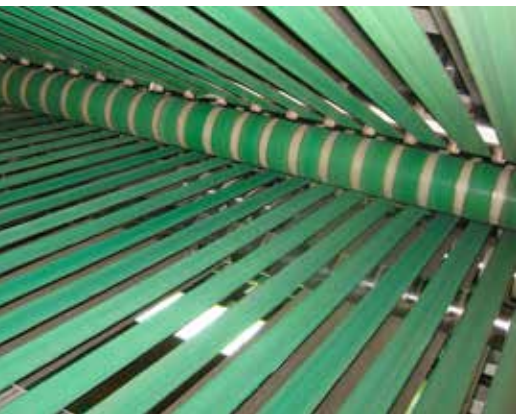


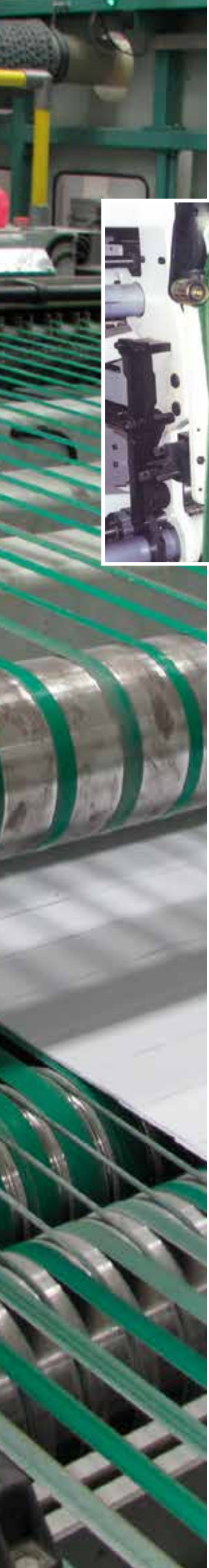
**CHIORINO**<sup>®</sup>  
1906

*Passion for belting*

**Partner  
for printing excellence**

Machine tapes, conveyor  
and folder belts for paper  
and printing industry





# Conveyor and folder belts for paper and printing

Chiorino products cover all applications in the paper and printing industry:

- **Printing, graphic and publishing industry (magazines, newspaper, books, catalogues)**
- **Paper converting machines: cutters, tube winders, tissue**
- **Folder-gluer machines for plain and corrugated cartons**
- **Production lines for corrugated boxes and cartons.**



## Food compliance

The **DU** polyurethane folding belts are ideal for aseptic packagings for food and pharmaceutical use.

They comply with the latest european and international food regulations.

**REGULATION EC 1935/2004** and amendments

**REGULATION EC 2023/2006** and amendments

**REGULATION EU 10/2011** and amendments

**FDA (Food and Drug Administration)**



## Fast Joint

With the Chiorino **FAST JOINT KIT** the **PT**® machine tapes can be made endless on site in a few minutes, reducing the maintenance time.



# PT<sup>®</sup> thermoplastic belts with CHIO-TPE<sup>™</sup> intermediate layer

### Reduced energy consumption

Chiorino PT<sup>®</sup> machine tapes consume less energy compared with competitors thermoplastic belts, thanks to the highly flexible CHIO-TPE<sup>™</sup> intermediate layer.

Category	kWh consumption
CHIORINO	Low
COMPETITORS	High

### High temperature resistance

Chiorino PT<sup>®</sup> machine tapes provide a higher temperature resistance compared with competitor thermoplastic belts, thanks to the unique CHIO-TPE<sup>™</sup> intermediate layer.

Category	Temperature (°C)
CHIORINO	80
COMPETITORS	70

### Reliable FASTJOINT

The FAST JOINT technology in combination with the new CHIO-TPE<sup>™</sup> intermediate layer, enables easy on-site joining, high reliability and long service life.

# Conveyor and folder belts with HS<sup>®</sup> elastomer cover

### High abrasion resistance

The unique HS<sup>®</sup> friction covers provide an excellent abrasion resistance and a uniform coefficient of friction over time.

Category	Elastomer consumption (mm²)
CHIORINO HS <sup>®</sup>	Low
TRADITIONAL ELASTOMER	High

### Excellent resilience

The unique HS<sup>®</sup> elastomer offers outstanding resilience, high elasticity and crack resistance.

### Long service life

Chiorino belts provide a long service life, thanks to the low aging property of the HS<sup>®</sup> covers.

Category	Time
CHIORINO HS <sup>®</sup>	Long
TRADITIONAL ELASTOMER	Short

# MF<sup>™</sup> Seamless elastomer belts

### Seamless

Total surface uniformity due to the endless MF<sup>®</sup> technology (no joint). They track perfectly and can run in both directions.

### High production precision

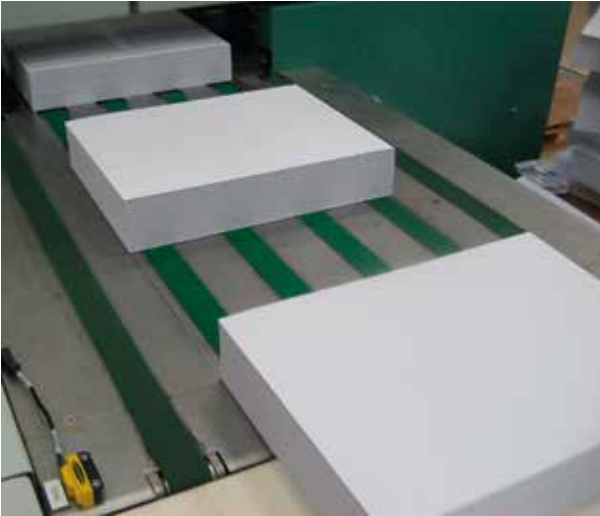
The special MF<sup>®</sup> elastomer offers high production precision thanks to the consistently high coefficient of friction during their whole working life.

### Long service life

The MF<sup>®</sup> elastomer offers excellent resistance to abrasion, oils, inks and chemicals. The MF<sup>®</sup> seamless belts do not mark the paper.



# Paper converting



CHIORINO offers a range of specialized products for paper converting:

## > CUTTERS

- Thermoplastic polyurethane Fast Joint belts.
- Low friction traditional belts with polyamide traction core providing high capability of accumulation.

## > TUBE WINDERS

- **DG-E HS Fast Joint** series: belts with polyester traction core and thermoplastic elastomer covering.
- **DG HS** series: belts with polyamide traction core and very high resistance to abrasion.

## > TISSUE

Low friction polyurethane and PVC belts with non marking surface for tissue production (handkerchief, napkins, toilet paper etc.)



## Benefits

- **Superb resistance to abrasion**
- **Excellent traction and highest feed precision with any type of paper**
- **High flexibility**
- **They do not mark the paper**
- **Permanent antistatic**
- **Punched holes on demand**
- **Long service life**

# Printing industry

CHIORINO manufactures a wide range of machine tapes designed to provide excellent performances for any application in the graphic, publishing and printing industry:

- > **NEWSPAPERS AND MAGAZINES PRINTING AND PAGE FOLDING**
- > **INSERTION CASSETTES WINDING/UNWINDING**
- > **CATALOGUES OFFSET PRINTING**
- > **BOOKBINDING**

With the **FAST JOINT** presses the CHIORINO thermoplastic machine belts can be made endless on site in a few minutes without use of adhesives, reducing the machine downtime.



## Benefits

- **Excellent traction and highest feed precision with any type of paper**
- **Highest resistance to chemicals and inks**
- **Superb resistance to abrasion**
- **High flexibility**
- **They do not mark the paper**
- **Smooth surface**
- **Long service life**

# Box folding industry

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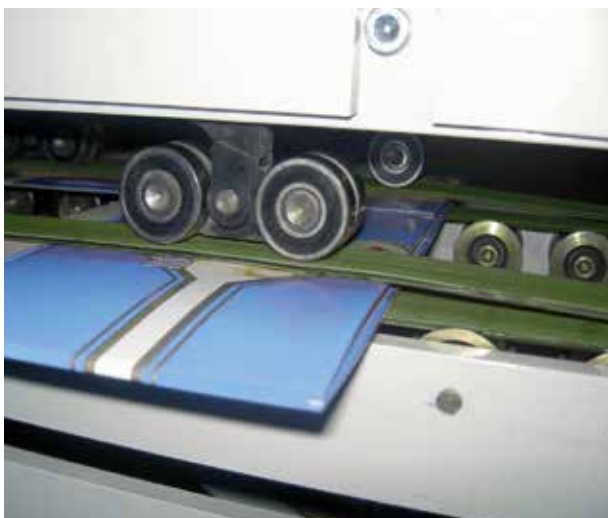
Chiorino studies and manufactures customized belts to satisfy the increasing demand of high speeds in the folder glueing industry for any type of carton, plain or synthetic materials with any type of finish (special inks, varnishing etc.) and corrugated cartons.

## FEEDING (pos. 1)

Seamless belts with special **MF**<sup>®</sup> elastomer cover that keeps their high friction capabilities during their whole working life. The drive surface elastomer cover of the **MF-351 G** guarantees a consistent drive to provide efficient feeding even on the fastest machines. These feeder belts are latex-free, therefore they can be used for producing light weight cartons for the food and pharmaceutical industry.

These belts are available with three different versions of the **MF**<sup>®</sup> cover to be selected according to the type of material to be processed:

- **HS W white** (40 Sh.A)
- **L raspberry** (35 Sh.A)
- **R purple red** (45 Sh.A)



## FOLDING-GLUEING (pos. 2)

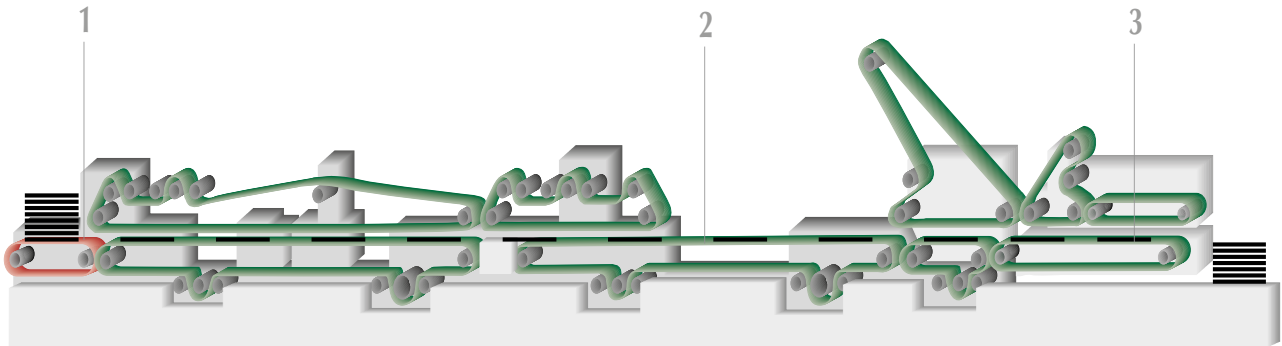
- **DG-E HS "Fast Joint"** series: thermoplastic folder belts with traction core in polyester and **HS**<sup>®</sup> elastomer covering that can be fitted on site using the FAST JOINT system and equipment, which require only few minutes and no adhesives.
- **DG HS** series: folder belts with traction core in polyamide and the special **HS**<sup>®</sup> elastomer covering which, thanks to its resilience, prevents cuts and surface crackings.



## COMPRESSION (pos. 3)

Compression belts in PVC or elastomer, antistatic.





## Benefits

- Superb resistance to abrasion
- Excellent resistance to any type of ink
- Highest resistance to chemicals
- Excellent traction properties
- They do not mark the paper
- High flexibility
- Punched holes on demand
- Long service life



## Food compliance

The **DU** polyurethane folding belts are ideal for aseptic packagings for food and pharmaceutical use. They comply with the latest european and international food regulations.

**REGULATION EC 1935/2004** and amendments

**REGULATION EC 2023/2006** and amendments

**REGULATION EU 10/2011** and amendments

**FDA (Food and Drug Administration)**



# Corrugated carton boxes

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CHIORINO offers a complete range of belts for the whole production cycle of carton boxes, from the corrugator to the stacker.

## **LOADING** (pos. 1) **CONVEYING TO PUNCHER AND SLOTTER** (pos. 3)

Belts with PVC or elastomer covering with high coefficient of friction and superior abrasion resistance.



## **FEEDERS TO PRINTER** (pos. 2) **FLEXP-FOLDERS** (pos. 5)

Belts with polyamide traction core with self-regenerating elastomer cover that guarantee very high friction and abrasion resistance.

## **FLEXP-FOLDERS BELTS** (pos. 6)

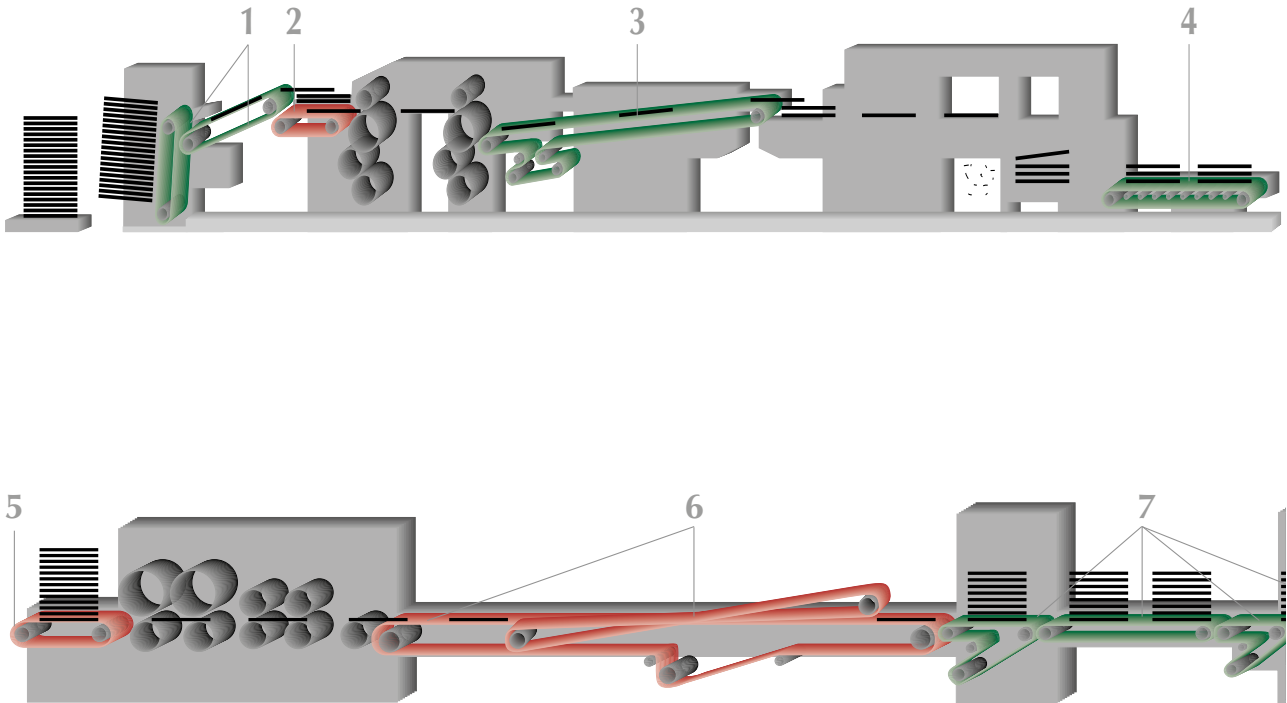
- Belts with elastomer or PVC covering with high resistance to abrasion, excellent traction capability and high flexibility.
- Belts with **MF**<sup>®</sup> self-regenerating elastomer covering that offer a very high coefficient of friction.



## **STACKERS** (pos. 4, 7)

- **DG HS** belts with high resistance to abrasion and excellent traction capability.
- **DG MF** belts where very high friction is required and for an absolute precision feed of corrugated carton boxes.





## Benefits

- Superb resistance to abrasion
- Excellent resistance to any type of ink
- Excellent traction properties
- Permanent antistatic
- High flexibility
- Highest resistance to chemicals
- Punched holes on demand
- Long service life

# Production program


	Type	Traction core (1)	Top cover	Bottom cover	Permanent antistatic (UNI EN ISO 21179)	Total thickness	Weight	Minimum diameter (2)	Pull for 1% elongation	Min. temperature resistance	Max. temperature resistance	Comparative coefficient of friction (3)		
													mm	kg/m <sup>2</sup>
<b>Fast Joint</b>	PT0.9 0-0	PET-PA	-	●	-	●	✓	0,9	0,9	10	5	-20	+100	LF
	PT0.9 0-0 N	PET-PA	-	●	-	●	✓	0,9	0,9	10	5	-20	+100	LF
	PT1.0 0-U4	PET	TPU	●	-	●	✓	1,0	1,0	10	5	-20	+100	HF
	PT1.0 U1-U3	PET	TPU	●	TPU	●	✓	1,0	1,1	10	5	-20	+100	HF
	PT1.2 U2-U5	PET	TPU	●	TPU	●	✓	1,2	1,3	20	5	-20	+100	HF
	PT1.2 0-U2	PET	TPU	●	-	○	✓	1,2	1,3	20	6	-20	+100	HF
	PT1.4 G3-G3	PET	synthetic elastomer	●	synthetic elastomer	●	✓	1,4	1,6	15	6	-20	+100	HF
	PT1.5 0-G3 FL	PET	synthetic elastomer	●	-	●	✓	1,5	1,8	25	6	-20	+100	MF
	PT1.8 0-0	PA	-	●	-	●	✓	1,8	1,8	20	9	-20	+100	LF
	PT1.8 G1-0	PA	-	○	synthetic elastomer	●	✓	1,8	1,8	20	9	-20	+100	LF
	PT1.4 EL G3-G3 FL	TPU	synthetic elastomer	●	synthetic elastomer	●	✓	1,4	1,5	15	2,5 <sup>(4)</sup>	-10	+60	HF
	PT1.4 EL G3-G3 SK	TPU	synthetic elastomer	●	synthetic elastomer	●	✓	1,4	1,5	15	2,5 <sup>(4)</sup>	-10	+60	HF
	EL2-U10 FL	-	TPU	●	TPU	●	✓	1,0	1,2	10	2 <sup>(4)</sup>	-20	+60	MF
	EL3-U15 FL	-	TPU	●	TPU	●	✓	1,5	1,6	10	3 <sup>(4)</sup>	-20	+60	MF
	EL4-U20 FH	-	TPU	●	TPU	●	✓	2,3	2,1	10	4 <sup>(4)</sup>	-20	+60	MF
	1M6 U0-U5 FL	PET	TPU	●	-	●	✓	1,0	1,0	10	6	-20	+100	MF
	1M6 U3-U3 FL	PET	TPU	●	TPU	●	✓	1,2	1,3	10	6	-20	+100	MF
	1M6 U5-U5 FL	PET	TPU	●	TPU	●	✓	1,6	1,9	20	6	-20	+100	MF
	DU-E 10/30 W	PET	TPU	○	TPU	○	✓	3,0	3,0	30	15	-20	+80	MF
	DU-E 10/40 W	PET	TPU	○	TPU	○	✓	4,0	4,2	40	15	-20	+80	MF
DG-E 10/30 HS	PET	synthetic elastomer	●	synthetic elastomer	●	✓	3,0	3,5	30	10	-20	+80	MF	
DG-E 10/40 HS	PET	synthetic elastomer	●	synthetic elastomer	●	✓	4,0	5,0	40	10	-20	+80	MF	
DG-E 10/50 HS	PET	synthetic elastomer	●	synthetic elastomer	●	✓	5,0	6,0	60	10	-20	+80	MF	
DG-E 10/60 HS	PET	synthetic elastomer	●	synthetic elastomer	●	✓	6,0	7,0	60	10	-20	+80	MF	
<b>LOW FRICTION</b>	1M6 U0-V3 A N	PET	PVC	●	-	●	✓	0,85	0,85	20	6	-10	+60	LF
	2M5 U0-U0 HP A	PET	-	○	-	○	✓	1,0	1,0	6	6	-30	+110	LF
	2MT5 U0-V3 N	PET	PVC	●	-	○	✓	1,8	2,0	20	6	-10	+60	LF
	2MT5 U0-V3 SM N	PET	PVC	●	-	○	✓	1,9	2,0	20	6	-10	+60	LF
	2M12 U0-U2 SP	PET	TPU	●	-	●	✓	1,5	1,5	8	8	-20	+100	LF
	2M10 U0-U2 N HC	PET	TPU	●	-	●	✓	1,2	1,4	10	10	-20	+100	LF
	2M12 U0-V3	PET	PVC	●	-	●	✓	1,9	2,1	40	12	-10	+60	LF
	SILON 60 HC	PET	non woven	●	non woven	●	✓	5,5	3,4	100	10	-20	+120	LF
	N	PA	-	●	-	●	✓	0,6	0,6	15	2	-20	+100	LF
	N8	PA	-	●	-	●	✓	1,0	0,9	15	3	-20	+100	LF
	P0	PA	TPU	●	synthetic elastomer	●	✓	0,9	1,0	15	2	0	+100	LF
	P1	PA	TPU	●	synthetic elastomer	●	✓	1,4	1,5	25	5	0	+100	LF
	P1-L	PA	-	●	synthetic elastomer	●	✓	1,25	1,2	25	2	0	+100	LF
	P2	PA	TPU	●	synthetic elastomer	●	✓	2,1	2,3	50	7,5	0	+100	LF
	PR0-L	PA	-	●	-	●	✓	0,9	0,8	15	2	0	+100	LF
<b>MEDIUM FRICTION</b>	2M8 U0-V5 FM	PET	PVC	●	-	●	✓	2,1	2,3	30	8	-10	+60	MF
	2M12 V5-V10	PET	PVC	●	PVC	●	✓	3,0	3,5	80	12	-10	+60	MF
	3M18 U0-V15 A	PET	PVC	●	-	●	✓	4,2	4,9	100	18	-10	+60	MF
	3T18 U0-V15	PET	PVC	●	-	●	✓	4,2	4,9	100	18	-10	+60	MF
	2M8 U0-U-G5 HS FL	PET	synthetic elastomer	●	-	●	✓	2,0	2,4	25	8	-20	+100	MF
	2M8 U0-U-G15 HS FL	PET	synthetic elastomer	●	-	●	✓	3,0	3,4	50	8	-20	+100	MF
	NT1 HS	PA	synthetic elastomer	●	-	●	✓	1,2	1,2	15	3	-20	+100	MF
	NT2 HS	PA	synthetic elastomer	●	-	●	✓	2,0	2,1	20	3,5	-20	+100	MF
	NT3 HS	PA	synthetic elastomer	●	-	●	✓	3,0	3,2	40	6	-20	+100	MF
	NT4 HS	PA	synthetic elastomer	●	-	●	✓	4,0	4,3	60	6	-20	+100	MF
	DU 1/30 W	PA	TPU	○	TPU	○	✓	3,0	3,0	30	5	-20	+100	MF
	DU 1/40 W	PA	TPU	○	TPU	○	✓	4,0	4,2	40	5	-20	+100	MF
	DG1/15 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	1,6	1,8	20	5	0	+100	MF
	DG1/30 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	3,0	3,4	30	5	0	+100	MF
	DG1/40 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	4,0	4,6	40	5	0	+100	MF
DG2/20 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	2,4	2,8	40	7,5	0	+100	MF	
DG2/30 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	3,2	3,7	40	7,5	0	+100	MF	
DG2/40 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	4,0	4,8	50	7,5	0	+100	MF	
DG2/60 HS	PA	synthetic elastomer	●	synthetic elastomer	●	✓	5,5	6,3	60	7,5	0	+100	MF	
<b>HIGH FRICTION</b>	2M8 U0-V17 GP	PET	PVC	●	-	●	✓	5,2	3,7	50	8	-10	+60	HF
	2M12 U0-V7 LG	PET	PVC	●	-	●	✓	2,4	2,4	40	12	-10	+60	HF
	2M12 U0-V8 RT	PET	PVC	●	-	●	✓	2,3	2,4	40	12	-10	+60	HF
	2M12 U0-V10 RT	PET	PVC	●	-	●	✓	2,6	2,6	50	12	-10	+60	HF
	2M12 U0-V20 GP	PET	PVC	●	-	●	✓	5,5	3,9	50	12	-10	+60	HF
	2M8 U0-U-G10 FH	PET	natural elastomer	●	-	●	✓	2,3	2,4	50	8	-20	+100	HF
	2T12 U0-U-G10 HS FH	PET	synthetic elastomer	●	-	●	✓	2,2	2,2	50	12	-20	+100	HF
	2M12 U0-G25 GP	PET	natural elastomer	●	-	●	✓	5,5	4,5	60	12	-40	+100	HF
	2T12 U0-G25 HS GP	PET	synthetic elastomer	●	-	●	✓	5,5	4,5	80	12	-40	+100	HF
	2T12 U0-G35 HS GP	PET	synthetic elastomer	●	-	●	✓	6,5	6,5	80	12	-40	+100	HF
	3M18 U0-U-G40 HS GP blue	PET	synthetic elastomer	●	-	○	✓	7,0	7,0	100	18	-20	+100	HF
	DG2/70 HS GP blue	PA	synthetic elastomer	●	synthetic elastomer	●	✓	6,4	6,0	100	7,5	0	+100	HF
	2T12 U0-U-G15 MF	PET	natural elastomer	●	-	●	✓	2,8	3,4	50	12	-20	+100	HF
	3M18 U0-U-G40 MF	PET	natural elastomer	●	-	○	✓	5,7	5,9	100	18	-20	+100	HF
	3M18 U0-U-G60 MF	PET	natural elastomer	●	-	○	✓	7,3	8,3	100	18	-20	+100	HF
NT5 MF	PA	natural elastomer	●	-	●	✓	5,0	5,5	50	6	-20	+100	HF	
DG1/45 MF	PA	natural elastomer	●	synthetic elastomer	●	✓	4,5	5,1	50	5	0	+100	HF	
DG2/60 MF	PA	natural elastomer	●	synthetic elastomer	●	✓	6,5	7,1	75	7,5	0	+100	HF	
<b>ENDLESS</b>	MF HS W-300	PET	natural elastomer	○	-	●	✓	6÷12	(5)	(5)	10	-20	+100	HF
	MF L-300	PET	natural elastomer	●	-	●	✓	6÷12	(5)	(5)	10	-20	+100	HF
	MF R-300	PET	natural elastomer	●	-	●	✓	6÷12	(5)	(5)	10	-20	+100	HF
	MF HS W-351 G	PET	natural elastomer	○	synthetic elastomer	●	✓	6÷12	(5)	(5)	10	-20	+100	HF
	MF L-351 G	PET	natural elastomer	●	synthetic elastomer	●	✓	6÷12	(5)	(5)	10	-20	+70	HF
	MF R-351 G	PET	natural elastomer	●	synthetic elastomer	●	✓	6÷12	(5)	(5)	10	-20	+100	HF

Rotary printer page folding	Insertion cassettes wind./unwinding	Stacking	Gathering	Wrapping / Binding	Cutters	Tube winders	Tissue	Feeding	Folding-glueing	Compression	Corrugator	Loading and conveying	Feeding	Flexo-folding	Stacking	MULTIPURPOSE CONVEYING	Type
PRINTING				PAPER			BOX FOLDING			CORRUGATED CARTON							
✓																	PT0.9 0-0
✓																	PT0.9 0-0 N
																	PT1.0 0-U4
																	PT1.0 U1-U3
																	PT1.2 U2-U5
																	PT1.2 0-U2
																	PT1.4 G3-G3
																	PT1.5 0-G3 FL
																	PT1.8 0-0
																	PT1.8 G1-0
																	PT1.4 EL G3-G3 FL
																	PT1.4 EL G3-G3 SK
																	EL2-U10 FL
																	EL3-U15 FL
																	EL4-U20 FH
																	1M6 U0-U5 FL
																	1M6 U3-U3 FL
																	1M6 U5-U5 FL
																	DU-E 10/30 W
																	DU-E 10/40 W
																	DG-E 10/30 HS
																	DG-E 10/40 HS
																	DG-E 10/30 HS
																	DG-E 10/40 HS
																	1M6 U0-V3 A N
																	2M5 U0-U0 HP A
																	2MT5 U0-V3 N
																	2MT5 U0-V3 SM N
																	2M12 U0-U2 SP
																	2M10 U0-U2 N HC
																	2M12 U0-V3
																	SILON 60 HC
																	N
																	N8
																	P0
																	P1
																	P1-L
																	P2
																	PR0-L
																	2M8 U0-V5 FM
																	2M12 V5-V10
																	✓ 3M18 U0-V15 A
																	✓ 3T18 U0-V15
																	2M8 U0-U-G5 HS FL
																	2M8 U0-U-G15 HS FL
																	✓ NT1 HS
																	✓ NT2 HS
																	✓ NT3 HS
																	✓ NT4 HS
																	DU 1/30 W
																	DU 1/40 W
																	DG1/15 HS
																	DG1/30 HS
																	DG1/40 HS
																	DG2/20 HS
																	DG2/30 HS
																	DG2/40 HS
																	DG2/60 HS
																	✓ 2M8 U0-V17 GP
																	✓ 2M12 U0-V7 LG
																	✓ 2M12 U0-V8 RT
																	✓ 2M12 U0-V10 RT
																	✓ 2M12 U0-V20 GP
																	✓ 2M8 U0-U-G10 FH
																	✓ 2T12 U0-U-G10 HS FH
																	2M12 U0-G25 GP
																	2T12 U0-G25 HS GP
																	2T12 U0-G35 HS GP
																	3M18 U0-U-G40 HS GP blue
																	DG2/70 HS GP blue
																	2T12 U0-U-G15 MF
																	3M18 U0-U-G40 MF
																	3M18 U0-U-G60 MF
																	NT5 MF
																	DG1/45 MF
																	DG2/60 MF
																	✓ MF HS W-300
																	MF L-300
																	MF R-300
																	MF HS W-351 G
																	MF L-351 G
																	MF R-351 G


### Explanation of type designation Conveyor and process belts

2	Number of plies
M	Textile carcass: M Rigid polyester MT Combined polyester T Flexible polyester
8	Pull for 1% elongation (N/mm)
U	Bottom cover
0	Thickness (mm/10)
U	Possible interply
G	Top cover
15	Thickness (mm/10)
FL	Surface pattern (see photos) Other characteristics
SILON	Non woven
60	Thickness (mm/10)
HC	Static conductivity (ISO 284)
EL	Elastic belt without textile carcass
2	Pull for 8% elongation (N/mm)
U	Material
10	Thickness (mm/10)
FL	Surface pattern (see photos)
P	Paper & Printing
T	Thermoplastic
1.2	Total thickness (mm/10)
U	Bottom cover
2	Thickness (mm/10)
U	Top cover
5	Thickness (mm/10)
N	Other characteristics
COATING AND INTERPLY MATERIALS	
G	Elastomer
U	Polyurethane
V	Polyvinyl chloride (PVC)
OTHER CHARACTERISTICS	
HP	High performance polyurethane
HS	High performance synthetic elastomer
MF	Self-regenerating elastomer
N	Black colour top cover
SK	Silk surface texture
SP	Polyurethane belt 3000-3500 mm wide


### TEXTURES



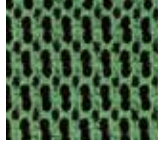
FH



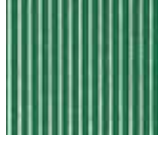
FL




FM




GP



LG



RT



SM

### Endless belts - Explanation of type designation

MF	Endless belt (mandrel made)
L	Outer cover HS-W white (40 Sh.A) L raspberry (35 Sh.A) R purple red (45 Sh.A)
351	3 ply polyester fabric and elastomer inner cover
300	3 ply polyester fabric
G	Synthetic rubber, green colour 65 Sh.A inner cover

- PA = polyamide PET = polyester
  - Minimum roller diameter is dependent on the joint recommended by CHIORINO
  - Top cover coefficient of friction: low LF, medium MF, high HF
  - Pull for 8% elongation
  - Weight and minimum diameter for MF belts according to total thickness
- ↗: knife edge

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



## CHIORINO AFFILIATED COMPANIES

### America

CHIORINO AMERICA  
Newark, DE  
Tel. +1-302-292-1906  
info@chiorino.us  
www.chiorino.us

### Australia

CHIORINO AUSTRALIA PTY. LTD.  
Brisbane  
Tel. +61-7-3274 1900  
sales@chiorino.com.au  
www.chiorino.com.au

### Benelux

CHIORINO BENELUX B.V.  
Utrecht, - The Netherlands  
Tel. +31-30-2413060  
chiorino@chiorino.nl  
www.chiorino.nl

### Byelorussia

CHIORINO-K  
Minsk  
Tel. +375-17-2804578  
general@chiorino.ru  
www.chiorino.ru

### China

CHIORINO ASIA Ltd.  
Hong Kong  
Tel. +852-397-10818  
info@chiorino.asia  
www.chiorino.asia

### CHIORINO LIAISON OFFICE

Shanghai  
Tel. +86-21-37831019  
info@chiorino.cn  
www.chiorino.cn

### France

CHIORINO SAS  
Lagny, Paris  
Tel. +33-1-64304075  
chiorino.paris@chiorino.fr  
www.chiorino.fr

### Germany

CHIORINO GmbH  
Mainz  
Tel. +49-(0)6131-55449-0  
info@chiorino.de  
www.chiorino.de

### Hungary

CHIORINO Kft.  
Szigetszentmiklós, Budapest  
Tel. +36-24525930  
mail@chiorino.hu  
www.chiorino.hu

### India

CHIORINO INDIA  
Salcete Goa  
Tel. +918-322-782454  
info@chiorino.in  
www.chiorino.in

### Italy

CHIORINO PARMA s.r.l.  
Parma  
Tel. +39-0521-292236  
chiorinoparma@chiorino.com

### CHIORINO VENETO s.r.l.

Colle Umberto (TV)  
Tel. +39-0438-430460  
chiorinoveneto@chiorino.com

### Poland

CHIORINO Sp. z o.o.  
Bydgoszcz  
Tel. +48-(0)52-3487708  
chiorino@chiorino.com.pl  
www.chiorino.com.pl

### Portugal

CHIORINO PORTUGAL, LDA  
Alfena Valongo, Porto  
Tel. +351-229684442  
geral@chiorino.pt  
www.chiorino.pt

### Romania

CHIORINO srl  
Cluj Napoca  
Tel. +40-264-432977  
chiorino@chiorino.ro  
www.chiorino.ro

### South Africa

CHIORINO SOUTH AFRICA (PTY) LTD.  
Johannesburg  
Tel. +27-11-3971268  
sales@chiorino.co.za  
www.chiorino.com

### Spain

CHIORINO IBERICA S.A.  
Rubi, Barcelona  
Tel. +34-93-5860480  
chiorino@chiorino.es  
www.chiorino.es

### Switzerland

CHIORINO SCHWEIZ GmbH  
Wetzikon  
Tel. +41-(0)43-3116001  
info@chiorino.ch  
www.chiorino.ch

### United Kingdom

CHIORINO U.K. Ltd.  
Featherstone  
Tel. +44-1977-691880  
sales@chiorino.co.uk  
www.chiorino.co.uk

## CHIORINO DISTRIBUTORS

Albania  
Argentina  
Armenia  
Austria  
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## HEADQUARTERS AND PRODUCTION PLANTS

### CHIORINO S.p.A.

Via S. Agata, 9  
I-13900 Biella, Italy  
Tel. +39 015 8489 1  
Fax +39 015 849 61 61  
chiorino@chiorino.com  
www.chiorino.com

UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
OHSAS 18001:2007  
EMAS

