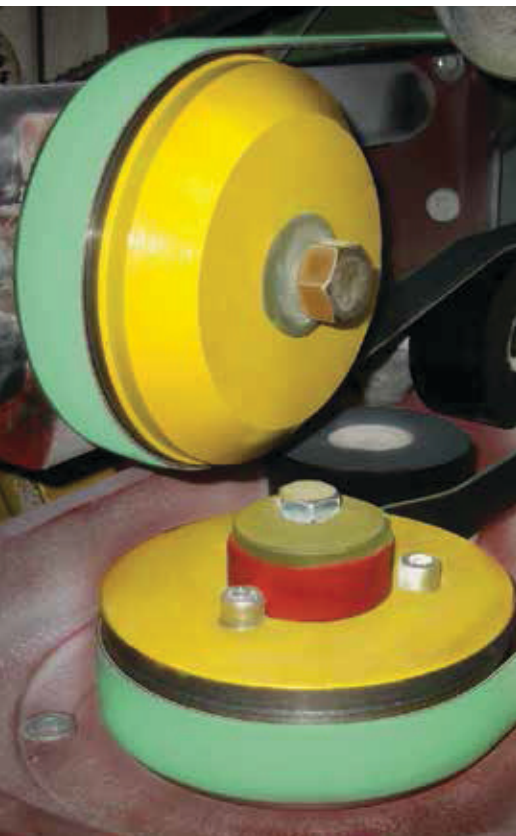


CHIORINO[®]
1906

Passion for belting

Your partner
for energy saving
and production safety

Power transmission belts



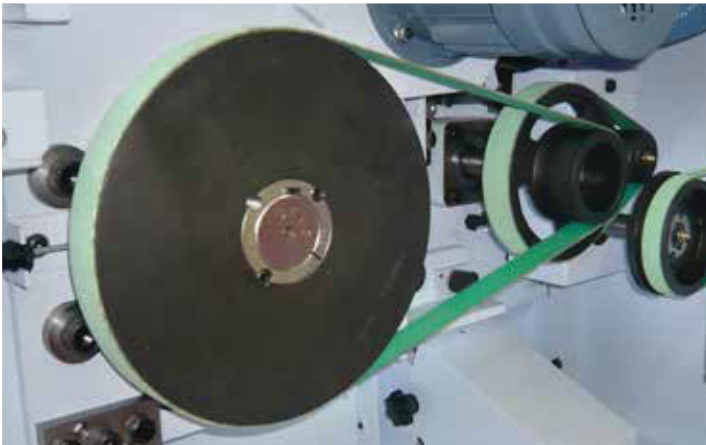
naren / **SHIFT**
TRANSMISSION BELTS
& CONVEYORS

(Authorised Distributor for South India)



Power transmission belts

You can choose from the new Chiorino Polyester power transmission belts for high speed machines, when your main goal is to reduce energy consumption, or you can decide for the robust and resilient Polyamide power transmission belts, especially known for their reliability and safety.



T-E series

Polyester belts with **CHIO-TPE™** intermediate layer



Key features

- High longitudinal flexibility
- High modulus of belt elasticity
- Uniform belt thickness, gentle and vibration free running

Application criteria

- Suitable high for speed machines with small pulley diameters and numerous reverse bendings
- Suitable for long machines with limited take-up
- Suitable for long, highspeed machines having many bearings and pulleys

T HS series

Polyamide belts with **HS®** elastomer cover



Key features

- Robust and resilient
- Suitable for short term overload
- High temperature resistance

Application criteria

- Suitable for high mechanical stress
- Suitable for aggressive acceleration
- Suitable for extreme environments

Technical data

Type	Top surface	Driving surface	Permanent antistatic	Total thickness	Minimum diameter ⁽¹⁾	K1% rel.	Temperature resistance	
	material	material					min. °C	max. °C
Polyester belts with CHIO-TPE intermediate layer								
T20/20E	elastomer	elastomer	•	2.0	25	12	-20	80
T20/25E	"	"	•	2.5	40	12	-20	80
T30/25E	"	"	•	2.5	50	18	-20	80
T30/30E	"	"	•	3.0	50	18	-20	80
T40/30E	"	"	•	3.0	50	20	-20	80
Polyamide belts with HS elastomer cover								
T0 HS	HS® elastomer	HS® elastomer	•	1.4	20	2	-20	100
T1 HS	"	"	•	1.5	25	5	-20	100
T1R HS	"	"	•	2.1	25	5	-20	100
T2 HS	"	"	•	2.3	60	7	-20	100
T2R HS	"	"	•	3.0	60	7	-20	100
T3 HS	"	"	•	2.6	100	10	-20	100
T3R HS	"	"	•	3.2	100	10	-20	100
T4 HS	"	"	•	3.1	150	15	-20	100
T4R HS	"	"	•	3.9	150	15	-20	100
T6 HS	"	"	•	3.5	200	20	-20	100

(1) The diameter values listed here are dependent upon the running speed. The data in this chart are valid under normal environmental conditions and are subject to change without notice.

Customer benefits

Polyester belts with CHIO-TPE™ intermediate layer

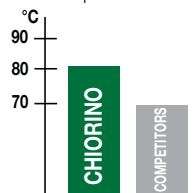
Reduced energy consumption

Chiorino Polyester belts consume less energy compared with competitor Polyester belts, thanks to the highly flexible CHIO-TPE™ intermediate layer.



High temperature resistance

Chiorino Polyester belts provide a higher temperature resistance compared with competitor Polyester belts, thanks to the unique CHIO-TPE™ intermediate layer.



Reliable FASTJOINT

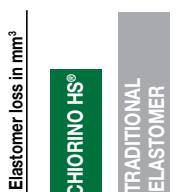
The FAST JOINT technology in combination with the new CHIO-TPE™ intermediate layer, enables easy on-site joining, high reliability and long service life.



Polyamide belts with HS® elastomer cover

High abrasion resistance

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



Excellent resilience

The unique HS® elastomer offers outstanding resilience, high elasticity and crack resistance.



Long service life

Chiorino Polyamide belts provide a long service life, thanks to the low aging property of the HS® covers.



Conveyor 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



Making endless

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.

Special belts can also be manufactured complete with:

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

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



Conveyor for Textile Industries

Type	Food compliance (1)	Permanent antistatic	Low noise fabric on driving surface (LdB) (2)	Colour of the conveying surface	Total thickness mm	Weight kg/m ²	Minimum diameter (3)	Pull for 1% elongation N/mm	Max. admissible pull N/mm	Min. temperature resistance [°C]	Max. temperature resistance [°C]	Comparative coefficient of friction (4)	Maximum production width mm
POLYURETHANE													
2M5 U0-U2 W A	✓	✓		●	1.30	1.50	↗	6	12	-20	100	MF	2000
2M8 U0-U2	✓	✓		●	1.40	1.60	↗	8	16	-20	100	LF	2000
PT1.2 U2-U5		✓		●	1.20	1.30	20	5	5	-20	100	HF	1500
PT1.4 EL G3-G3 SK		✓		●	1.40	1.50	15	2.5	2.5	-10	60	HF	1200
P1-L		✓		●	1.25	1.20	25	2	6	0	100	LF	500
2M8 U0-V-U0	✓	✓		●	1.5	1.5	30	8	16	-10	60	LF	3000
2M8 U0-V5 A	✓	✓		●	2.0	2.3	30	8	16	-10	60	MF	3500
2M12 U0-V3 N		✓	✓	●	1.9	2.1	40	12	24	-10	60	LF	3000
2M12 U0-V10 A	✓	✓	✓	●	2.5	2.9	50	12	24	-10	60	MF	3500
2M8 U0-V7 LG N		✓		●	2.40	2.40	40	8	16	-10	60	HF	2000
EL2 - U10 VL		✓		●	1.10	1.30	10	2 (8%)	2	-20	60	MF	2000
2M5 U0-U2 HP blue A	✓	✓		●	1.30	1.40	↗	6	12	-30	110	MF	2000

Polyurethane round belts

CHIORINO manufactures polyurethane round belts by extrusion which are used in textile industry for various application.

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 belts are now available in two versions.

- "RU HP" series in blue color with smooth surface, 85 Sh. A hardness;
- "RU" series in green color with rough surface, 92 Sh. A hardness.

Fast Joint

Being thermoweldable polyurethane it enables quick endless joining of belts. For high precision joints of round belts of any size CHIORINO supply the FAST JOINT welder "S15"

Belts diameter [mm]	Nominal transmission power (kW) Tension 8%				Pull for 8% elongation [N]	Min. pulley diameter [mm]
	speed [m/sec]					
	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

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



Joining presses for conveyor and transmission belts

Type	Description	Dimensions wxlh [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	135	2
		Plates' sizes wxl [mm]		
		120x105		



P100 K

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



P200

Type	Description	Dimensions wxlh [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.	330x155x130	4
		Plates' sizes wxl [mm]	
		100x140	



P120 FJ

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ENGINEERING ADVICE
ON -SITE INSTALLATION SERVICE
AFTER SALES SUPPORT



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