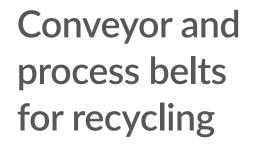


Your partner for process efficiency





# Lightweight conveyor belts for recycling increased efficiency

The increased waste of plastic, cardboard, metal, batteries etc. requires a higher recycling efficiency and sorting precision, in order to support the circular economy, reduce the  $CO_2$  emissions and safeguard the environment.

Chiorino has developed a wide range of **lightweight thermoplastic conveyor belts** able to support the demand for faster and more efficient recycling processes.

Chiorino lightweight thermoplastic belts respond to the very latest requirements of the recycling industry, offering high performance solutions compared to the less efficient



**Energy saving** 



Reliability

rubber traditional conveyor belts that require long and complex splicing procedures.

Chiorino thermoplastic belts reduce maintenance operations and costs, thanks to the quick and easy onsite installation equipment, optimizing the total cost of ownership.

They resist chemical attacks and maintain flexibility at low temperatures, **extending the belt service life**. They run on smaller pulleys allowing motor downsizing, lighter and faster machinery design and **reducing energy consumption**.





**Optimized TCO** 

Sustainability

# **Thermoplastic** belting solutions



## POLYURETHANE

High performance lightweight belting solutions for increasing efficiency and reducing maintenance operations and costs, extending belt service life.



Excellent resistance to cuts and wear caused by sharp, abrasive and sticky waste



Highest resistance to chemicals, liquids, oils

Ideal for high speed

Reduced energy consumption

Prevent dust build-up & Easy to clean

Quick and easy to install on site

## PVC/NITRILE ELASTOMER

The unique PVC/nitrile blend "V12" offers optimal performances and fast replacement on site.



Great resistance to chemicals, liquids, oils



Lateral stability and excellent tracking

Excellent resistance to cuts and wear



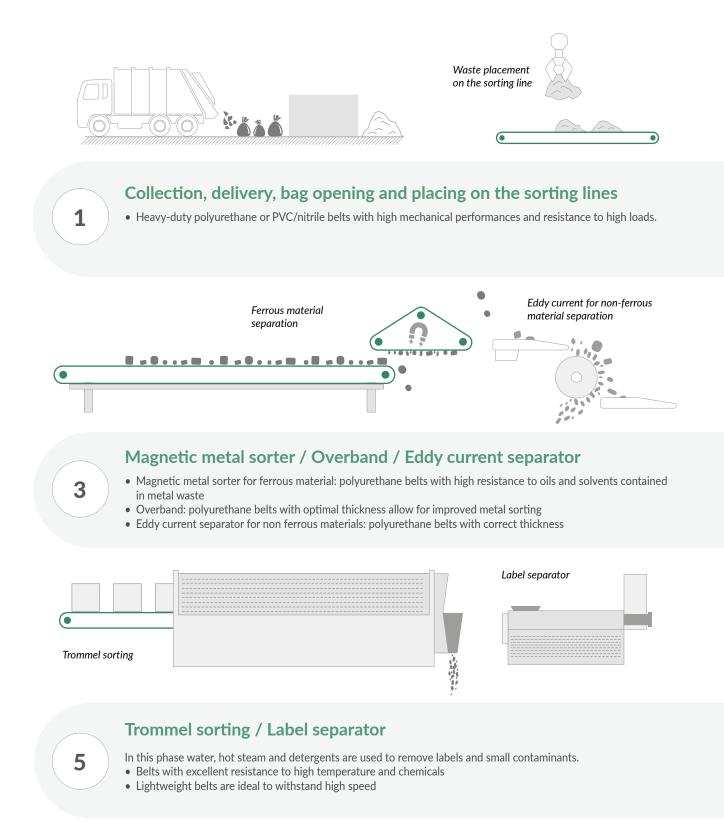


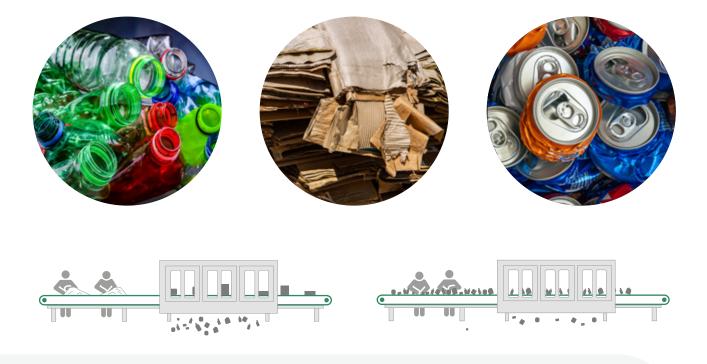


# **Complete belting range** for all recycling applications



Example flow of conveyor belt applications in a plastic recycling center.

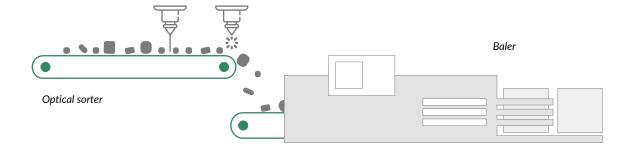




### Initial and secondary manual sorting / Star screening process

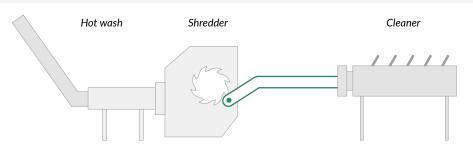
• Heavy-duty polyurethane or PVC/nitrile belts with matt surface prevents light reflection and facilitates manual sorting.





### Optical sorters (Infrared, Laser, X-Ray) / Baler

- The belts matt surface guarantees minimal light reflection, increasing sorting efficiency, precision and productivity. Uniform and even matt surface also in the joining area.
- The matt surface prevents dirt and dust accumulation and it's easy to clean
- Lightweight belts flexibility is ideal for small pulleys and high speed sorters, reducing energy consumption



## Hot wash / Shredder / Cleaning

- A further washing and cleaning phase for removing all potential contaminants from the waste.
- Belts resistant to high temperature and chemicals
- Belts with the proper surfacess to avoid the waste slipping during the cleaning operations

4

# **Technical data**

Product name	Conveying surface	Colour	Coefficient of friction	Textile carcass	Total thickness		Elongation 1%	Max. admissible pull	Tempe resist	ance	Max. width	Product code
									min	max		
					mm	mm	N/mm	N/mm	°C	°C	mm	

### POLYURETHANE

2M12 U0-U10 W A	smooth	white	low	PET	2.40	50	12	24	-20	100	2000	NA887
2M12 U0-U15	smooth	green	low	PET	3.00	60	12	24	-20	100	2000	NA1035
2DM12 U0-V-U5 N	matt	black	medium	PET	2.90	60	12	24	-10	60	3500	NA1825
2M12 U0-V-U15 N	matt	black	medium	PET	4.10	100	12	24	-10	60	3500	NA1622
2DM18 U0-U20 N A	matt	black	medium	PET	5.50	120	18	36	-20	100	3500	NA1812
2T30 U10-U20 N A FM/MATT	matt	black	medium	PET	5.00	120	30	60	-20	100	2000	NA1811
3M18 U0-V-U30 VL N	velvet	black	low	PET	6.00	120	18	36	-10	60	2000	NA1608

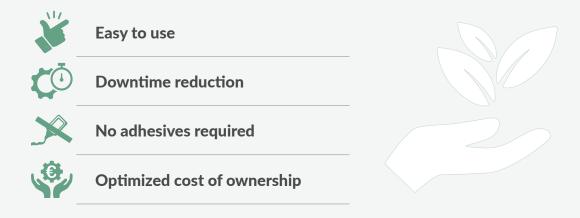
## **PVC/NITRILE ELASTOMER**

Z 20/2 FV/V12-40 MT black	matt	black	low	PET	4.00	80	20	40	-10	70	3000	NA2545
Z 25/3 FV/V12-50 MT black	matt	black	low	PET	5.00	110	20	50	-10	70	3000	NA2612

A wide range of polyurethane and PVC/Nitrile profiles and sidewalls is available. Please contact the Sales Department. <sup>(1)</sup> Minimum diameter is dependent on the joint recommended by Chiorino. <sup>(2)</sup> Use of the belt with limit values may reduce its life.

# Quick & Easy On-site installation equipment

For a **Fast, Easy & Environment-Friendly replacement** of the lightweight thermoplastic belts, Chiorino has designed and engineered equipment that can be used up to 4000 mm width, even in limited and narrow space for maintenance operations.



Lines	Manual sorting and star screening	Magnetic metal sorter	Overband	Eddy current separator	Optical sorters	Baler	Trommel sorting Label separator	Hot wash Shredder Cleaning	Product name
-------	--	-----------------------------	----------	------------------------------	--------------------	-------	--	----------------------------------	--------------

				•					2M12 U0-U10 W A
			•	•			•	•	2M12 U0-U15
•	•		•	•	•	•	•	•	2DM12 U0-V-U5 N
•	•			•	•	•	•	•	2M12 U0-V-U15 N
•	•		•	•	•				2DM18 U0-U20 N A
		•	•						2T30 U10-U20 N A FM/MATT
•	•		•	•	•				3M18 U0-V-U30 VL N

•	•		•	•	•		Z 20/2 FV/V12-40 MT black
•	•		•	•	•		Z 25/3 FV/V12-50 MT black



# PTR 4000 Crawler press

The PTR 4000 (AT591) crawler press is designed to operate in narrow spaces and it is quick & easy to assemble. With a pre-heating, a welding and a cooling station, it is ideal for installing belts on-site up to 6 mm thick and up to 4000 mm wide.



# P1200-3400 L Traditional light presses

Wide range of handy presses for thermoplastic belts, with heated plates and cooling system. Ideal for quickly joining belts on site up to 20 mm thick and 3400 mm wide.

### **HEADQUARTERS**

### CHIORINO S.p.A.

Via S. Agata, 9 I-13900 Biella, Italy Tel. +39 015 8489 1 Fax +39 015 8489 161 chiorino@chiorino.com www.chiorino.com

CHIORINO VENETO s.r.l.

chiorinoveneto@chiorino.com

CHIORINO Sp. z o.o. Bydgoszcz Tel. +48-(0)52-3487708

Tel. +39-0438-430460

chiorino@chiorino.com.pl

Alfena Valongo, Porto

Tel. +351-229684442

chiorino@chiorino.ro

geral@chiorino.pt

CHIORINO srl

CHIORINO PORTUGAL, Lda

Sannicoara, Jud.Cluj Napoca Tel. +40-264-432977

CHIORINO SLOVAKIA s.r.o.

CHIORINO SOUTH AFRICA Pty. Ltd.

, Tel. +421-910-486654

Colle Umberto (TV)

Poland

Portugal

Romania

Slovakia

Nové Zámky

South Africa

Johannesburg Tel. +27-11-3971268

sales@chiorino.co.za

info@chiorino.sk



#### Spain

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

#### Switzerland

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

#### Türkiye

ZİLİĞEN BT KONVEYÖR BANT Istanbul Tel. +90-216-671 11 90 info@ziligen.com

#### Ukraine

CHIORINO UKRAINE LLC Poltava region, Shcherbani village Tel. +38-050806560 office@chiorino.com.ua

#### United Kingdom

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

Chiorino operates all over the world through the Group companies and more than 100 distributors. More info on www.chiorino.com



Customer proximity



#### Engineering consultancy



Quick delivery



**On-Site Fitting** & Assistance



#### **CHIORINO GROUP COMPANIES** France CHIORINO SAS

CHIORINO AMERICA Inc. Suwanee, GA Tel. +1-302-292-1906 info@chiorino.us

SAFARI BELTING SYSTEMS, Inc. Olathe, KS Tel. +1-888-662-6611 info@safaribelting.com

#### Australia

America

CHIORINO AUSTRALIA Pty. Ltd. Brisbane Tel. +61-7-32741900 sales@chiorino.com.au

#### Benelux

CHIORINO BENELUX B.v. Utrecht - The Netherlands Tel. +31-302-413-060 chiorino@chiorino.nl

#### **Czech Republic**

REKO s.r.o. Jaromer Tel. +420-491-840012 info@reko-sro.cz

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

#### Germany CHIORINO GmbH

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

#### Hungary

CHIORINO Kft. Szigetszentmiklós, Budapest Tel. +36-24-525930 mail@chiorino.hu

#### India FRANSTEK BELTS PRIVATE Ltd.

Salcete Goa Tel. +91 93709 18733 info@chiorino.in

#### Italy

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