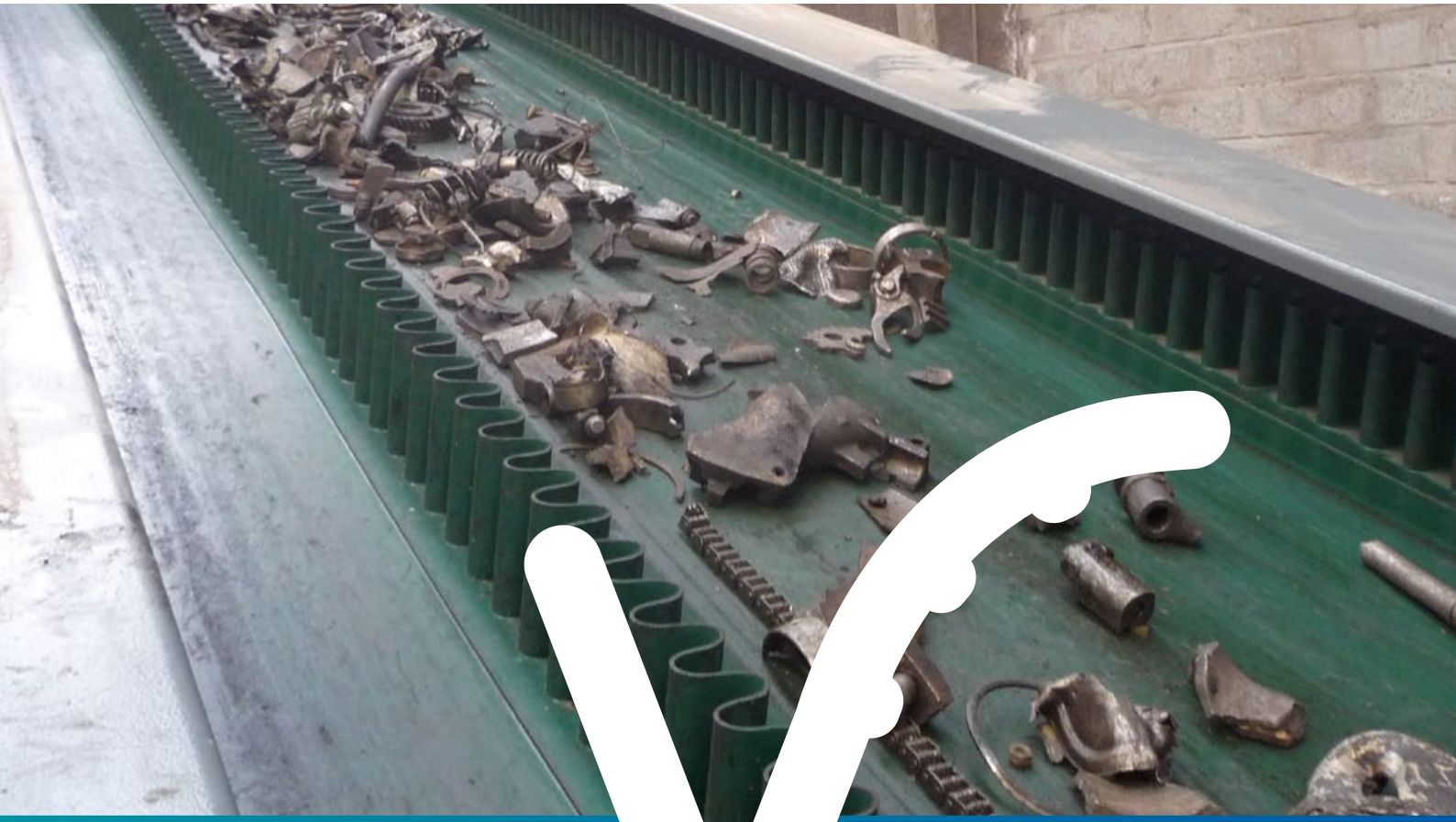
volta™
Belting Technology

The Next Step in Belting



Recycling Industry

Conveying Solutions

- Recycling evolved from being a sideshow to a major production industry. More and more materials either have sufficient economic value to warrant recycling and/ or are recycled out of necessity to protect the planet.
- It would be absurd if the recycling industry did not do its utmost to reduce its own carbon footprint by reducing energy consumption and the changeover of the large quantities of plastics and textiles used as belting.
- Volta is the only belt producer in the world to make serious advances in belts for recycling solid waste, whether it's used on conventional conveyor types or on magnetic systems such as Eddy Current separators.

Industrial or Household

Sorted or Mixed

Volta's Materials

- Last Longer
- Chemical and oil resistant
- Abrasion and cut resistant
- Functions under water without degradation

Common Recycling Processes

- Transfer of solid waste: unbroken, in large pieces, granular or in powder form
- Sorting lines: including where manual sorting is incorporated or high-speed belts are used with optical sorters
- Magnetic conveyor systems: magnetic drums, overband conveyors and Eddy Current separators

Unique Belt Advantages

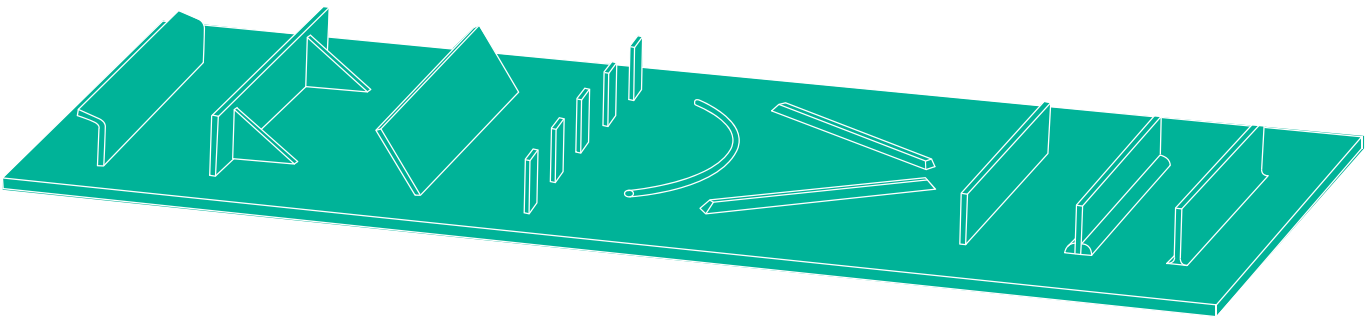
- Volta SuperDrive™ offers thermoplastic positive drive belts with self-tracking. Conveyor design is simplified, and the lightweight package of conveyor and belt can handle heavy loads with small motors and reduced electrical consumption.
- On-site welding is fast and reduces downtime and maintenance on systems that require high throughput.
- Elevators suffer less damage to cleats from falling materials and from abrasion.
- Thin belts are more durable than conventional ply/ fabric belts, thus reducing the air gap and increasing the magnetic field intensity acting on metals in separation applications.
- High impact and abrasion-resistance than any other belt type.
- Difficult to assemble and maintain, extra thick rubber belts can be conveniently replaced by over 50% thinner thermoplastic belts without loss of lifetime.
- Butt welded joints reduce vibrations even at high speed.

- Belts can work underwater and can be perforated with custom-made hole designs.
- Dual layer belts are available for gauging belt lifetime during use.
- Special 6mm positive drive belts can handle extra heavy loads and accumulation.
- All belts can work on roller beds and in troughs.
- Anti-static belts are available.
- Repairs can be performed on cuts and tears and patches (Dutchmen) can be welded in seamlessly.
- Where cleaning is essential to eliminate odors or remove particles, the belts clean up better and faster than any other available belt material, saving time and costly resources.
- Funnels and chutes can be custom-made to solve problems such as wear, impact, and noise at infeed and outfeed points.
- 100% homogeneous skirting materials are available for protecting belts. Do not curl in outdoor applications.
- Tooling can be acquired for inhouse belt replacement along with training for technicians and maintenance staff. The necessary skills can be acquired in minutes.

Recommended Belt Types and Fabrication Options

Applications	Type	Code	Thicknesses	Colour	Extra Features
General conveying belt for wet ambient	Flat homogeneous	FEZ	2, 2.5, 3, 4, 5 mm		
General conveying impact belt for wet ambient	Flat homogeneous	FEPZ	3, 6 mm		
General conveying – High grip top surface for inclines	Flat reinforced	FRG/ST	3, 3.5, 5 mm		Double layer for monitoring wear progress
General conveying abrasion resistant belt	Flat reinforced	FRZ	2, 2.5, 3, 4, 5 mm		
General conveying abrasion resistant belt for wet ambient	Flat reinforced	FRG	2, 3, 4 mm		
General conveying impact belt	Flat reinforced	FRPZ	2, 3, 4, 6, 8, 10 mm		
General conveying impact belt	Flat reinforced	FRBL ESD	2, 2.5 mm		Anti-static, no fabrications
Positive drive – All ambientes	Positive Drive homogeneous	FMB SD	3, 4, 6 mm		
Positive drive – Dry ambient	Positive Drive homogeneous	FEZ SD	3, 4 mm		
Positive Drive – Special	Positive Drive homogeneous	FMB SD MD	3 mm		Metal detectable

*Fabrications include: Cleats, cleats with gusset ,sidewalls, guides, and perforations. Special options are available with most materials.



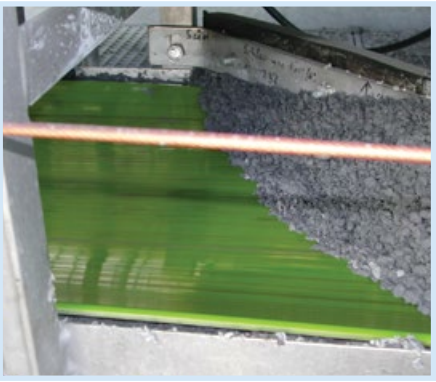
Volta - Recycling Applications

Car Parts

Aluminum

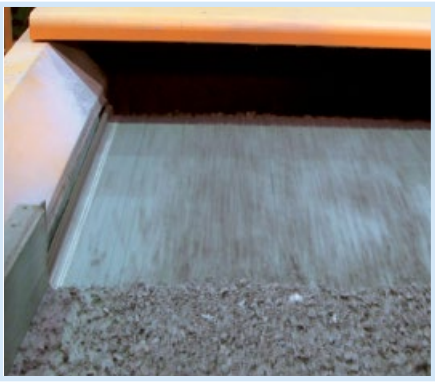
Magnetic Metal Separator

Glass



Paper

Sewage Treatment Lines



Magnetic Metal Separator

Biomass

FRPZ-8 belt repaired with electrode

Volta™ Belting Technology

CORPORATE HEADQUARTERS
Sales and Manufacturing
sales@voltabelting.com

USA
Tel. +1 973 276 7905
Toll Free. 1-877-VOLTAUS
voltaus@voltabelting.com

EUROPE
Tel. +31 546 580166
voltaeu@voltabelting.com

www.voltabelting.com

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