



BELTING
Technology

Conveying Solutions
Industrial Grade
Flat Belts



The Next Step in Belting

THE LIGHT SIDE OF HEAVY DUTY

The distinguishable Volta design with fully extruded tough top layer is particularly durable while excelling in rough recycling applications where sharp edges of broken glass, metal, plastic, etc. could easily damage the belt. Our thick solid belt has proven to be highly cut & abrasion resistant and long lasting in these heavy-duty, aggressive conditions.



Revealing the Volta Heavy Duty Advantage

- ✓ 6mm-8mm thick solid belts stand up to the harsh conditions of heavy duty industrial applications.
- ✓ The belt materials' flexible character is highly resistant to abrasion and inhibits surface cuts from spreading.
- ✓ Homogeneous smooth surface does not crumble or crack.
- ✓ Material is non-corrosive and long-lasting.
- ✓ Reinforced bottom belts used to prevent elongation on very long conveyors.
- ✓ Lightweight belt and conveyor construction reducing energy consumption.
- ✓ Ease of installation – simple on-site welding.
- ✓ Can withstand extremely cold conditions –temperatures of up to 20°C.
- ✓ Can be used in conjunction with metal detectors or magnetic systems.
- ✓ Superior lifetime - less maintenance and downtime on critical work stations.

Positive Drive Concept: SuperDrive™

- ➔ The additional advantage of the Positive Drive mechanism eliminates slippage and pre-tensioning while carrying heavy loads. This reduces elongation and strain on the belt, extending belt life and performance.
- ➔ Integral teeth on the drive-side of the SuperDrive™ belt serve as a built-in guide system for the belt.



Drive Pulley



Drive Pulley

Tail Pulley



Tail Pulley

SuperDrive™ components

➡ **Thick, solid upper layer resists cuts, cut expansion & impact punctures.**

Fully extruded belts of up to 8mm thick solid material with option of fabric reinforcement on bottom. This superior, strong surface withstands cuts that can pierce the upper surface of the belt. There are no fabric layers dividing the belt's strength and damage caused by aggressive products will only penetrate a fraction of the top surface. The belt material resists spreading of cuts giving the Volta belt a much longer operational life than conventional conveyor belting.



FRGZ-5mm with welded Sidewalls: METAL RECYCLING



FRPZ-6: GLASS RECYCLING

➡ **Resistant to chemicals.**

The sealed surface of this homogeneous material will not absorb industrial liquids, grease or chemical remains. Delamination as seen on regular plied belts where liquids seep into the fabric layers and cause breakdown of the belt is eliminated.

⬅ **Absorb the impact of falling products well to ensure a long belt life.**

Volta thick TPE belts act as a good cushion for heavy objects falling onto the conveyor. The elasticity of the belt softens the fall of the product and displays exceptional resistance to heavy wear and tear. The high resistance to abrasion and cuts allows long term operation under the harshest conditions.



FZ-5: CONVEYING CAUSTIC SODA

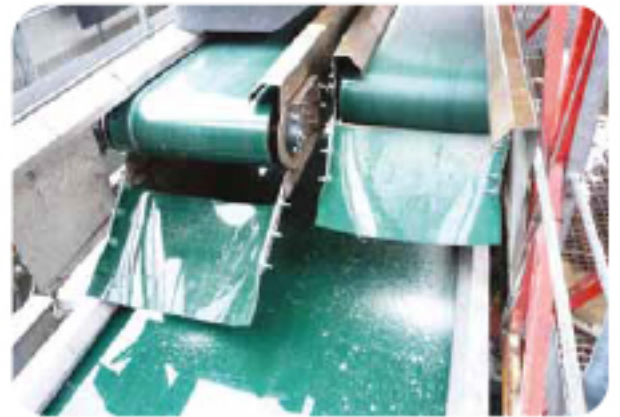


FRGZ-4: HEAVY BRICK CONVEYING

⬅ **Highly resistant to abrasion caused by rough materials.**
Abrasion resistant material gives you a longer belt life – less downtime and fewer intervals in production time.

➡ **Flexible material ideal for forming slides or hammocks to soften the fall onto belt.**

Belt material absorbs the impact of falling products. Simple to cut and attach hammocks along the line. Resists cut and abrasion from sharp objects and does not encourage spreading of cuts.



FRPZ-6 with Hammocks : PLASTIC PARTS CONVEYING



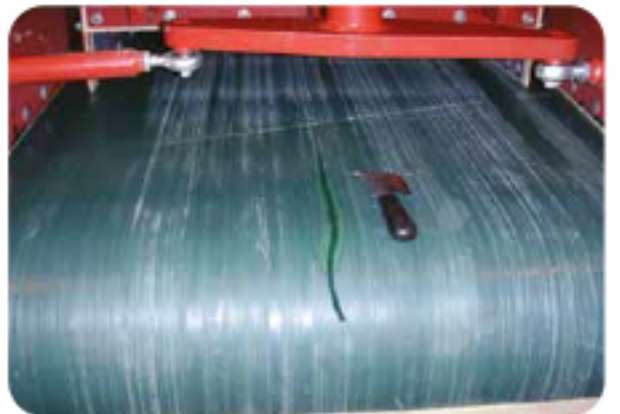
**FRG-3 with thermo welded sidewalls and flights:
CHEMICAL POWDER (RECYCLED SEWAGE)**

➡ **Easily repaired on site with electrode weld.**

Quick and easy repair by heat welding an electrode into the cut. No need to remove the belt. Keeps maintenance and downtime costs down to a minimum.

⌚ **Non-absorbent to industrial oils, fluids and chemicals.**

Sealed belt surface has no reaction to chemicals. Perfect material for incline applications where fabrications are needed. This resistant quality also inhibits pungent odors.



FRPZ-8 belt



Belt repaired on site.

⌚ **Energy saving – lightweight conveyor construction suitable to low powered motor.**

Reduce energy and maintenance costs with lightweight simple basic components of the conveyor construction. Improve plant production flow and efficiency with the Volta solution.

Easy and quick thermo-welded fabrications using Volta state-of-the-art tools.

Volta provides you with a choice of tools specially designed to ensure high quality heat welding of the full range of belts.

- ➔ Using VOLTA lightweight tools, belts can be made endless & repaired on-site, within minutes, reducing downtime. No more finger-splice weak points to deal with.
- ➔ When using Volta tools only electrical power is needed and no water cooling or air pressure is required. No more use for adhesives.
- ➔ Heat-welded fabrications. Fusing of the solid flat belt with matching material flights, sidewalls, guides, etc. result in a nearly unbreakable fabrication and superior performance.

Volta tips for best results when fabricating reinforced flat belts:

- ✓ Reinforced belts are butt-welded in an angle of less than 90° to ensure that the weld is not located along a single point and in order to give a longer line of contact between the joined edges.
- ✓ Belts can be equipped with bottom guides to prevent off-tracking. The fabric reinforcement can be machined off and the guide heat welded directly onto the base belt making the join solid and unbreakable.
- ✓ Scoop cleats can be fitted to increase belt capacity and gusseted cleats can assist in elevating heavy loads.

Custom-made fabrications are our specialty.

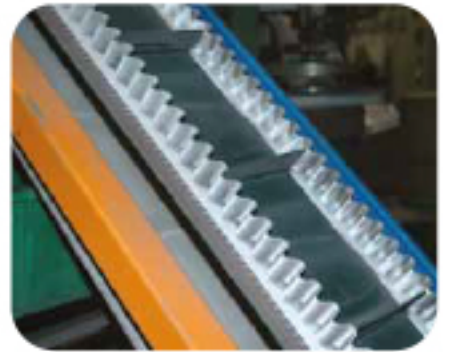




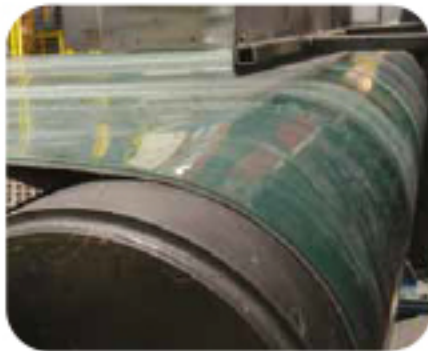
Volta Belt with Guide



Floor Tile Production



Sewage Treatment



Metal parts conveying



Metal Separator



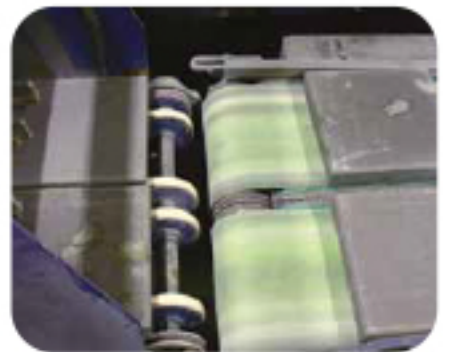
Volta Fabrication



Volta Belt with Flights



Eddy Current Conveyor



Brick Conveying