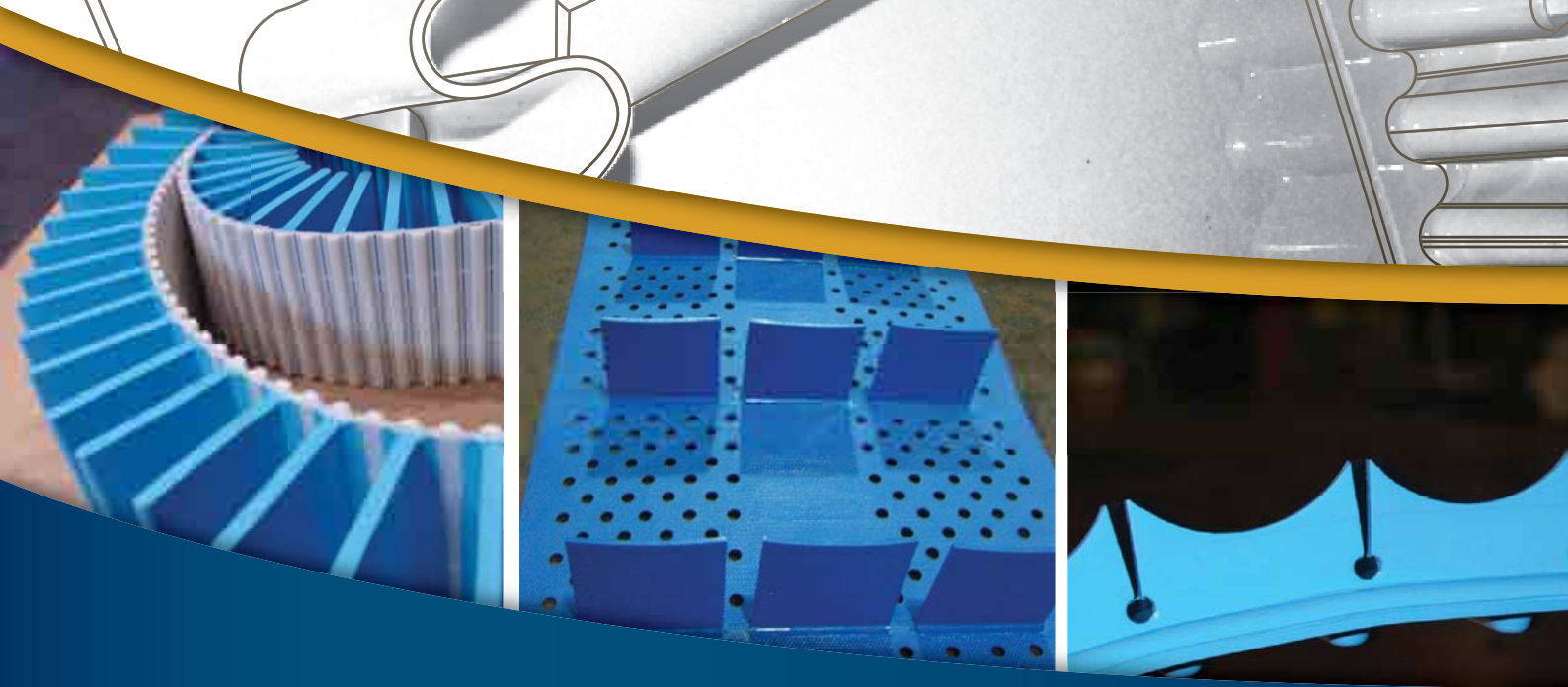




*Conveying Solutions*  
***The Art of Fabrications***





**Volta Belting** has created an outstanding technique and ideal tooling to perform state of the art heat welded fabrications to fit your specific needs, simply. The possibilities are endless.

Fusing of the solid Volta homogeneous flat belt with matching material flights, sidewalls, guides, etc. result in a nearly unbreakable fabrication and high performing belt construction.

*Infinite tailor-made fabrications to suit your needs, available upon request.*



**↑** Perforation on Volta flat belts eliminates fraying ensuring a smooth clean hole area highly suitable for fluid drainage or vacuum applications. Perforation pattern can be distinctly defined.

**↑** Pace Lines heat welded into base belt form a totally smooth surface with integrated marks in contrasting colors or permanent striking production line markers in your belt.

## Guides

All Volta guides are heat welded eliminating the use of any adhesive and avoiding the tearing of the guide from the base belt.

The Volta Guides provide excellent durability, withstanding harsh abrasion and resist oils and industrial chemicals resulting in the long life of the guide on a solid flat base belt.

Type	CL/CLC		VL/VLB		CM		VM		CW/CWB		VW/VWB		CSB/CSC		VSB/VSC	
Shore Hardness	80A		80A		90A		90A		40D		40D		62A		62A	
Color	Brown/Clear		Brown/ Blue		Red		Red		White/Blue		White/Blue		Blue/Clear		Blue/Clear	
Cogged	Yes		No		Yes		No		Yes		No		Yes		No	
<b>Add To Minimum Pulley Diameter</b>																
Size (mm) WxH	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
6x4	NR		25	1	NR		NR		NR		NR		NR		15	9/16
8x5.2	NR		40	1½	NR		60	2½	NR		NR		NR		25	1
10x6	35	1⅝	45	1¾	50	2	65	2⅝	55	2¼	70	2¾	22	7/8	30	1½
13x8	40	1½	50	2	60	2½	85	3¼	60	2½	80	3¼	28	1⅝	35	1¼
17x11.5	60	2½	75	3	85	3½	115	4½	85	3½	110	4¼	40	1½	50	2
20x12.5	NR		85	3½	NR		125	5	NR		NR		NR		NR	
22x14.5	75	3	100	4	110	4¼	145	5½	110	4¼	150	6	NR		65	2⅝

**Note:** All guides can be ordered in rolls of 30m. lengths for your in-house use.

For any technical questions & additional information please contact your Volta representative or email to [sales@voltabelting.com](mailto:sales@voltabelting.com)

# Sidewalls

- 100% compatibility with Volta 'M' & 'L' material flat belts and flat sidewalls
  - Suitable for 'H' material applications
  - Also suitable for use with most PU and PVC belts
- Available in white, blue (food approved) and green (general conveying)
  - Highly durable; resistant to cutting, tearing and abrasion
- Nonporous homogeneous surface; does not absorb water, oils or chemicals
  - Heat welded forming strong bond to base belt
  - Smooth surface for easy cleaning & elevated hygiene levels



↑ Sidewalls



↑ Narrow Flat sidewalls, where space is tight.

Type	SW - 20		SW- 30		SW- 40		SW- 50		SW- 60		SW- 80		SW -100	
mm/inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Height : H	20	13/16	30	1 1/4	40	1 1/2	50	2	60	2 3/8	80	3 1/4	100	4
Base Width: W	40	1 1/2	40	1 1/2	40	1 1/2	70	2 3/4	70	2 3/4	70	2 3/4	70	2 3/4
Wall Width: B	18	5/7	18	5/7	18	5/7	34	1 5/16	34	1 5/16	34	1 5/16	34	1 5/16
<b>Minimum Pulley</b>														
Belt Thickness	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
2	80	3 1/4	80	3 1/4	90	3 5/8	NR	NR	NR	NR	NR	NR	NR	NR
2.5	80	3 1/4	80	3 1/4	90	3 5/8	100	4	110	4 1/4	NR	NR	NR	NR
3	90	3 4/8	90	3 5/8	100	4	110	4 1/4	120	4 3/4	150	6	200	8
3.2	90	3 4/8	90	3 5/8	100	4	110	4 1/4	120	4 3/4	150	6	200	8
4	100	4	100	4	120	4 3/4	120	4 3/4	130	5 1/8	150	6	200	8
5	110	4 1/4	110	4 1/4	120	4 3/4	120	4 3/4	130	5 1/8	150	6	200	8

**Note:** NR – Not Recommended.

**Note:** All sidewalls can be ordered in rolls of 100Mt. lengths for your in-house use.

↓ Volta tools used for easy professional welding of sidewalls onto flat base belt.



## Flights (Cleats)

Volta offers great flexibility and allows you to create the ideal flights to hold your product in place while moving along the production line. MPD should always be considered when choosing the flight type.

### High Frequency (HF) Welded Flights

HF welding will give you the strongest flights joined to the base belt so smoothly that you could almost believe that the flights were extruded in one with the belt. The join is completely seamless increasing hygiene safety levels.

#### HF Welded Specialized Flights:

##### Scoop ①

Act as a pocket to your produce on incline conveyors. Produced from 3mm to 8mm thick and max.150mm high flat belt material. Scoops can be ordered individually for in-house use.

##### Gusset ②

Additional support for heavy load conveyors that need the extra strength, made from flight material of 5mm or more. For ultra heavy duty applications flights are made from 8mm thick and max.150mm high flat belt material & welded with double electrodes.

##### Angled ③

Welded at approx. 70° angle that suits your incline application. Produced from 3mm to 8mm thick and max.150mm high flat belt material.

##### Spaced ④

Breaking the width of the flight up with spaces for a lighter belt. Produced from 3mm to 8mm thick and max.150mm high flat belt material.

##### Chevron Flights ⑤

'V' or round soft profile used to create flights in different patterns. Recommended profile diameter for chevron flights is – up to 17mm for V-profiles and up to 10mm for round profiles.

##### Straight ⑥

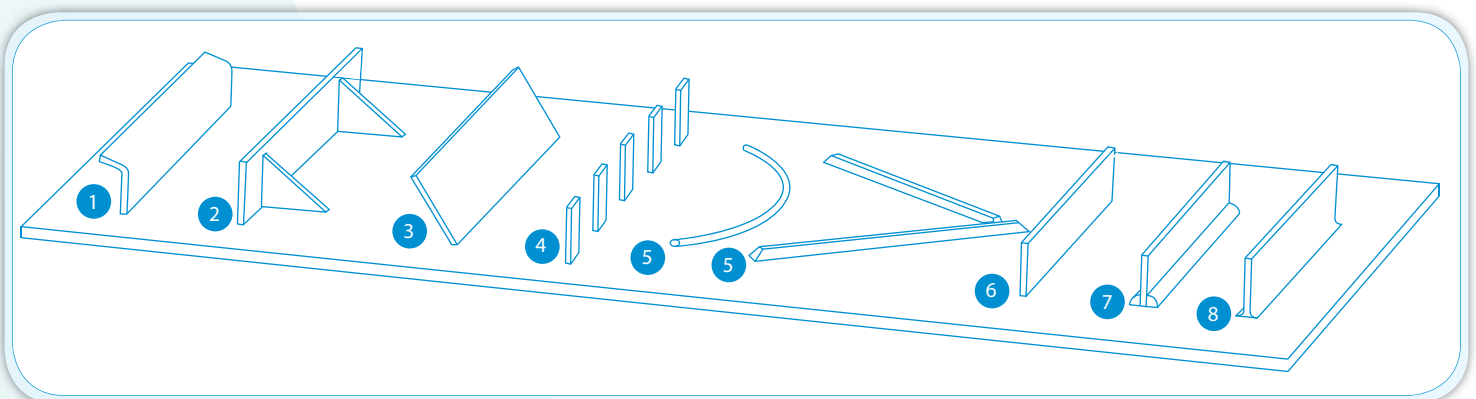
Flights produced from 3mm to 8mm thick and max, 150mm high flat belt material.

#### Electrode Welded Flights ⑦

The original double or single electrode welded flights. Electrodes are available in 7mm and 9mm diameter and in various Shore hardnesses to match the base material being used.

#### T-Cleats ⑧

Available for your in-house use. A solid wider base strengthens the flight when put under pressure and gives a very smooth transition from the belt onto the flight. Available in beige and blue, heights 25; 30; 40 & 50mm and in white, height 25mm. All T-cleats are 4mm thick and can be ordered in rods of 2.15m lengths.



*Upon request, all flights can be finished with smooth rounded edges to avoid damaging delicate products on sharp corners.*

# Endless Making Techniques

Volta provides you with a choice of tools especially designed to ensure high quality heat welded joints to make all flat belts endless. Our tools have a lightweight design which makes each tool compact, rugged and easy to use in the field and workshop. When using Volta tools only electrical power is needed and no water cooling or air pressure is required.

## ➔ FT - Electrode Welding Kit

The FT Welding System is a tool for electrode welded endless making highly suitable for Volta flat belts and SuperDrive™, DualDrive and DualDrive SP. The FT Welding System uses a router to cut the angle on the belt edges and to trim the weld on completion. The weld is carried out by using a Leister Hot Air Gun and Volta electrodes. When joining up to 2mm thick belts, use the 7mm diameter electrode and for a belt thicker than 2mm, the 9mm diameter electrode is used. This tool is supplied with a built-in adaptor for welding SuperDrive™ belts. When you plan to weld a Dual Drive or Dual Drive SP belt, suitable adaptors must be ordered. The FT tool is capable of joining belts up to a width of 1500mm.



## ← FBW - Flat Butt Welding Tool

The FBW System was created to butt-weld flat belts making them endless. The FBW Welding System can also be used for SuperDrive™, DualDrive, DualDrive SP and special textured top flat belts. The FBW tool is capable of joining belts up to a width of 2100mm.

## ➔ Narrow Butt Welding Tool

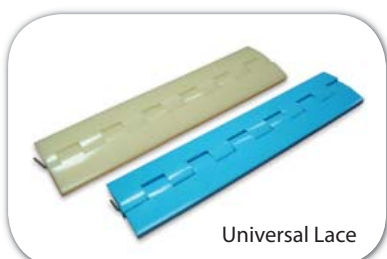
Narrow flat belts can be butt welded simply with the use of the P-100 Pliers suitable for belt widths of up to 100mm and the P-200 Pliers suitable for belt widths of up to 200mm. For best results, Welder W-141/2 are used with the P-100 Pliers and Welder W-241/2 are used with the P-200 Pliers.



*All reinforced flat belts should be made endless at an angle, this will reduce stretching and strengthen the join area.*

## ↓ Volta Lace Systems

The Volta Lace is a device that allows you to easily open the belt for cleaning or servicing of the conveyor. Our lace can also be used in applications where metal detectors are required and we can provide you with a polyester hinge pin upon request. Volta lace is compatible with Volta 'M' Family Flat Belts of 2.5 to 5 mm thickness. Specialized lace is available to suit the teeth spacing of the Dual Drive and DD SP belts. All Volta flat belt material is easy to clean without removing from conveyor and therefore we only recommend lace when absolutely necessary.



Universal Lace



DD Lace



DDSP Lace

# You can be sure that your Volta fabricated belt proves to be virtually unbreakable and continues to fulfill your highest expectations with:

- Great Cost Saving: water, time, energy
- Eco-friendly: longer life belt
- Increased Hygiene Levels
- Huge Water & Treatment savings
- Increased Product Quality & Shelf Life
- Increased Productivity

*Volta fabrications: a professional experience.*



For any technical questions & additional information please contact your Volta representative or email to [sales@voltabelting.com](mailto:sales@voltabelting.com)

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