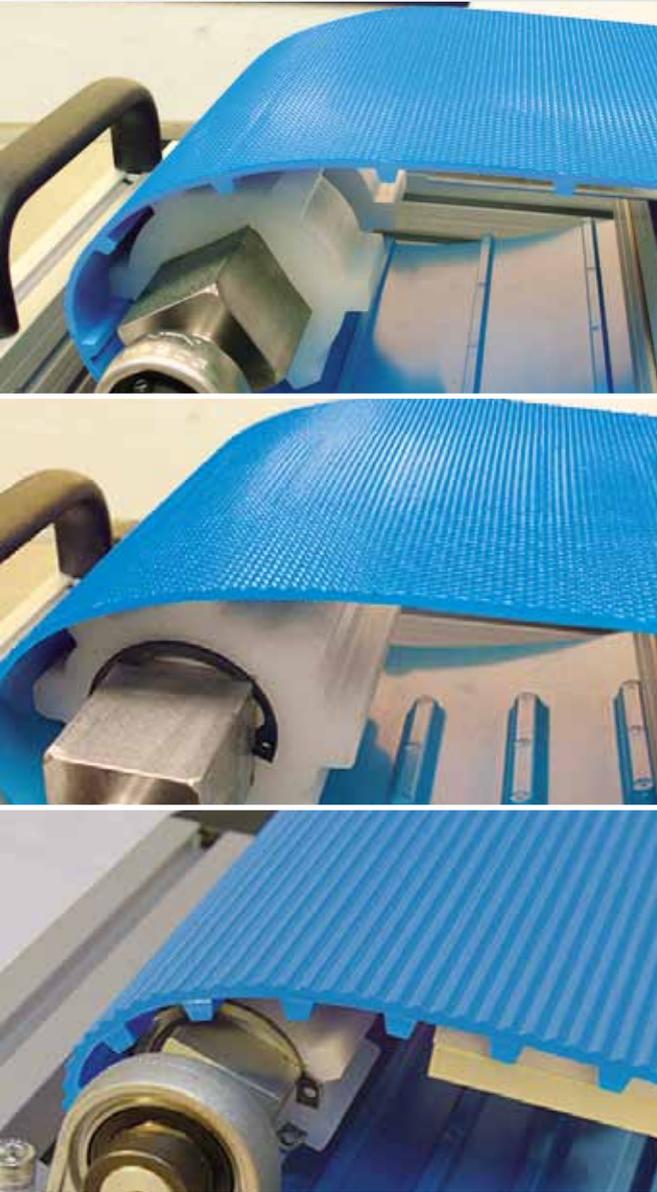




# Conveying Solutions *Positive Drive Line*

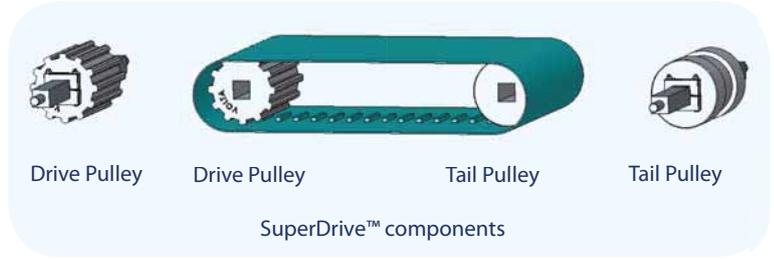


*The Next Step in Belting*

# SuperDrive™

Th!nk Positive, Th!nk SuperDrive™

SuperDrive™, the homogeneous positive drive belt, recognized worldwide as the best choice where hygiene and conveying efficiency are essential. This distinctive design combines positive drive benefits with Volta's firm commitment to superior quality, increasing hygiene standards and productivity.



- ➔ Eliminates Off -Tracking
- ➔ Extremely Hygienic



ITE  
Impression Top Embossed



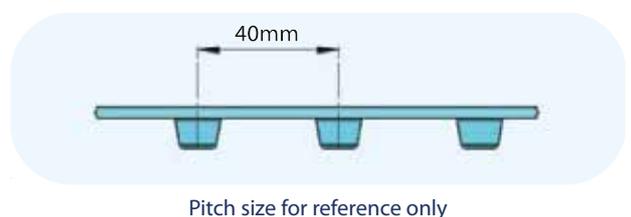
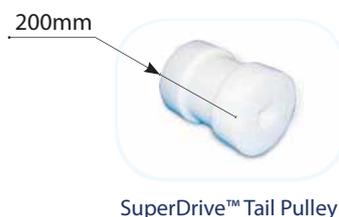
ITO-50  
Impression Top Oval

Smooth Top SuperDrive™ Belts										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness	Minimum Pulley Diameter*		Maximum Pull Force**		Approvals	
					mm	mm	Inch	kg/cm		lbs/in
FHB	55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU	
				4	140	5½	9	50.40		
				6	280	11	14	78.40		
FHW	55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.20	FDA/ USDA/ EU	
				4	140	5½	9	50.40		
FMB	53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6.25	35	FDA/ USDA/ EU	
				4	120	4¾	8	44.80		
				6	240	9¾	12.50	70		
FMW	53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6.25	35	FDA/ USDA/ EU	
				4	120	4¾	8	44.80		
Impression Top SuperDrive™ Belts										
FHB - ITO 50	55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU	
				4	140	5½	9	50.40		
FHW - ITO 50	55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU	
				4	140	5½	9	50.40		
FHB - ITE	55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU	
				4	140	5½	9	50.40		
FHW - ITE	55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU	
				4	140	5½	9	50.40		
FMB - ITO 50	53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6.25	35	FDA/ USDA/ EU	
FMB - ITE	53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6.25	35	FDA/ USDA/ EU	
FMW - ITE	53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6.25	35	FDA/ USDA/ EU	
Low Temperature (LT) SuperDrive™ Belt										
FMB - LT	95A/ 46D	-35° C to 35° C -31° F to 95° F	0.55	3	80	3¼	3	16.80	FDA/ USDA/ EU	

**Note:** \* Minimum Pulley Diameter – Normal Flex. Dimensions are relevant for an ambient temperature above 0° C / 32° F.

\*\* Maximum Pull Force – in kg/cm width & lb/in width.

Declaration of Conformity in compliance with EU Regulations No. : 10/2011, 1935/2004 and Directive 2002/72/EC. Compatible with HACCP principles.



# DualDrive

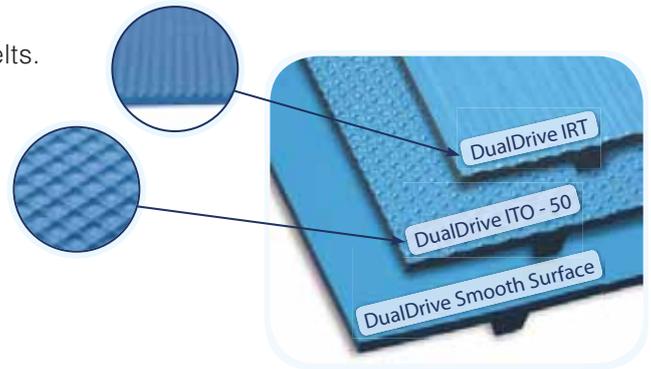
Unhygienic old modular systems can easily be fitted with DualDrive

- Minimal retrofitting required. DualDrive runs on certain types of existing sprocket configuration however replacement with Volta sprockets is recommended to optimize belt life and hygiene.
- DualDrive is a fully extruded positive drive belt with drive teeth running the full width of the belt at a 2" pitch.



## Mechanical Benefits:

- Replaces modular systems that require extensive cleaning, lengthy soaking and wear quickly at the joints.
- Greatly reduced noise levels in comparison with modular belts.
- Integrated teeth for a positive drive with no slippage.
- No pretension of the belt is needed.
- Extruded in 30 or 60 m (100 or 200 ft) length and 1524 mm (60") width.



## Material Features:

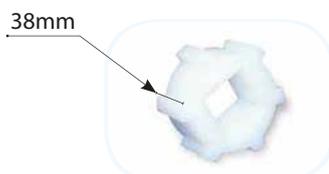
- Smooth or textured homogeneous surface.
- Special texture available for non-stick applications.
- No ply or fraying of fibers.
- Easy and effective cleaning.
- No cracks or crevices that can potentially harbor bacteria.

Smooth Top DualDrive Belts										
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness	Minimum Pulley Diameter*		Maximum Pull Force**		Approvals
						mm	mm	Inch	kg/cm	
FHB		55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU
FHW		55D	-20° C to 75° C -5° F to 170° F	0.40	3	100	4	7	39.2	FDA/ USDA/ EU
FMB		53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6	33.6	FDA/ USDA/ EU
					4	120	4¾	7.7	43	
FMW		53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6	33.6	FDA/ USDA/ EU
Impression Top DualDrive Belts										
FMB - ITO 50		53D	-20° C to 60° C -5° F to 140° F	0.50	3	80	3¼	6	33.6	FDA/ USDA/ EU
FMB - IRT		53D	-20° C to 60° C -5° F to 140° F	0.50	4	100	4¾	7.7	43	FDA/ USDA/ EU
Low Temperature (LT) DualDrive Belt										
FMB - LT		95A/ 46D	-35° C to 35° C -31° F to 95° F	0.55	3	80	3	3	16.80	FDA/ USDA/ EU

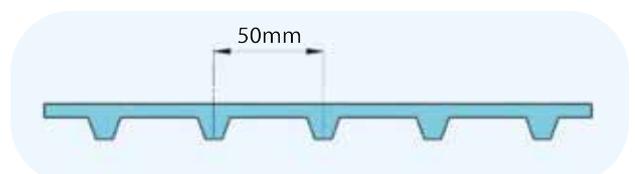
**Note:** \* Minimum Pulley Diameter – Normal Flex. Dimensions are relevant for an ambient temperature above 0° C / 32° F.

\*\* Maximum Pull Force – in kg/cm width & lb/in width.

Declaration of Conformity in compliance with EU Regulations No. : 10/2011, 1935/2004 and Directive 2002/72/EC. Compatible with HACCP principles.



DualDrive Sprocket



Pitch size for reference only

# DualDrive SP (Small Pulleys)

DualDrive SP allows the positive drive concept to be used with small pulley diameters

## What makes DualDrive SP so special?

- Size: a minimum of 50 mm (8 teeth) for drive sprockets in ideal conditions.
- Tight transfer of products reduces product wastage.
- Lighter conveyor construction, saving drive motor energy costs.
- Positive drive mechanism prevents slippage.

## Improve hygiene levels!

- Smooth homogeneous surface on both sides prevents bacteria build up.
- No fraying fibres or broken belt fragments to contaminate product.
- Enables longer product shelf-life & higher product quality.
- Easy & effective cleaning, converting downtime to production time.
- Huge savings in water and water treatment costs.
- Reduced wash-down time allowing a quick change over between product types.



## The DualDrive Small Pulley belt can be used for both low and high load applications.

There are 2 series of pulleys applicable;

- for use in high load (HL) applications
- for use in low load (LL) applications.

One should ensure that the correct pulley type is chosen in relation to the required pull force. The use of incorrect pulley can cause disengaging problems.

Smooth Top DualDrive Small Pulley (SP) Belt												
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness	Minimum Pulley Diameter*		Maximum Pull force**				Approvals	
							Low Load		High Load			
					mm	mm	Inch	kg/cm	lbs/in	kg/cm		lbs/in
FMB	95A/46D	-30° C to 60° C -20° F to 140° F	0.50	2.5	50	2"	1.5	8.4	4.5	25.2	FDA/ USDA/ EU	
Impression Top DualDrive Small Pulley (SP) Belts												
FMB - ITO 50	95A/46D	-30° C to 60° C -20° F to 140° F	0.50	2.5	50	2"	1.5	8.4	4.5	25.2	FDA/ USDA/ EU	
FMB - IRT	95A/46D	-30° C to 60° C -20° F to 140° F	0.50	3.2	50	2"	1.5	8.4	4.5	25.2	FDA/ USDA/ EU	
Low Temperature (LT) DualDrive Small Pulley (SP) Belt												
FMB - LT	95A/46D	-35° C to 35° C -31° F to 95° F	0.50	2.5	50	2"	1	5.6	2.7	15.1	FDA/ USDA/ EU	

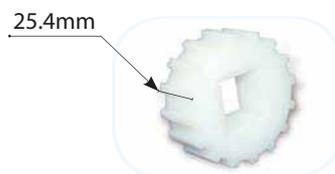
**Note:** \* Minimum Pulley Diameter – Normal Flex. Dimensions are relevant for an ambient temperature above 0° C / 32° F.

\*\* Maximum Pull Force – in kg/cm width & lb/in width.

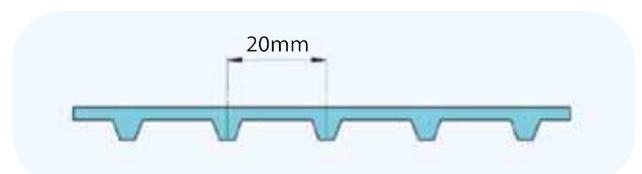
Declaration of Conformity in compliance with EU Regulations No. : 10/2011, 1935/2004 and Directive 2002/72/EC. Compatible with HACCP principles.



DualDrive Small Pulley for High Load



DualDrive Small Pulley for Low Load



Pitch size for reference only

# Endless Splicing Techniques

Volta provides you with a range of tools designed to execute high quality endless closing of all types of Positive Drive belts. The tools have a lightweight design and are compact and easy to operate even on site. Single phase electrical power is needed without water cooling or compressed air.



## ➔ FT - Electrode Welding Kit

The FT Welding System provides electrode welded technology and is highly suited to Volta flat belts and also for SuperDrive™, DualDrive and DualDrive SP. The FT Welding System utilizes a router to machine a bevel into the belt edges. The welding is performed with a Leister Hot Air Gun and Volta's compatible extruded electrodes.



## ⬅ FBW Flat Butt Welding Tool

The FBW System performs a butt-weld merging belts edge to edge. The FBW Welding System includes a built-in adapter and stoppers for splicing SuperDrive™. Adaptors for DualDrive, DualDrive SP and special textured top flat belts are available.

## ⬇ Volta Hinge Lace System

The Volta Lace is a device that allows a belt to be opened for cleaning or servicing of the conveyor. It is used in metal detection systems where a polyester hinge pin is used in place of steel. Volta lace is compatible with Volta 'M' material belts from 2.5 to 5 mm thickness.

All Volta flat belt materials are easy to clean without removing from conveyor, and therefore lace is used only where absolutely necessary. The strength of the belt will be affected at the joint where lace is used.



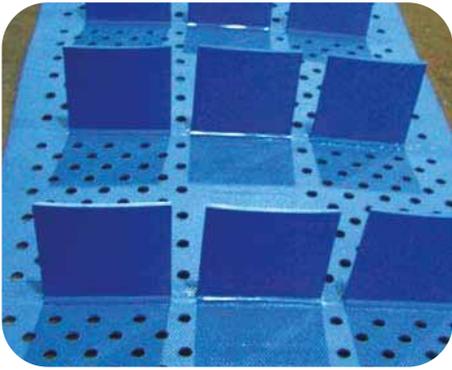
SD/DD Lace



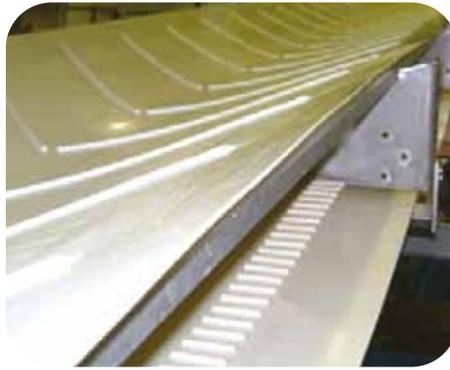
DD SP Lace

*We are committed to providing a complete package focusing on servicing our customers all the way, up until the belts are safely installed and the conveyor is running smoothly.*

## ⤵ Fabrications on Positive Drive Belts



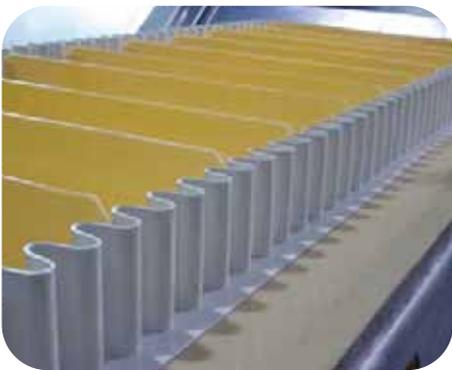
Perforated SuperDrive™  
with Spaced Flights



SuperDrive™ Trough  
Conveyor with Chevron Flights



DualDrive Small Pulley  
with Metal Spikes



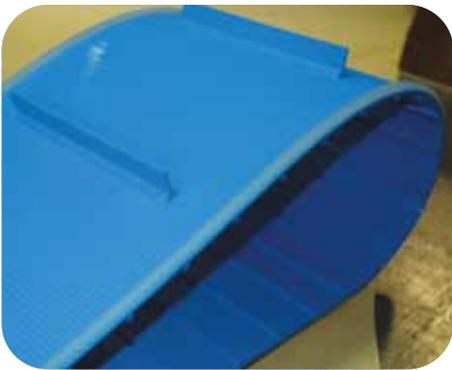
SuperDrive™ with  
Flights and Sidewalls



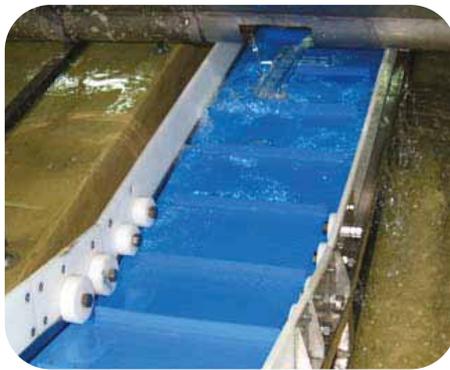
SuperDrive™ with Welded Profiles



SuperDrive™ Z-elevator with Flights,  
Guides and Sidewalls



DualDrive with Impression Top IRT  
Flights & Guides



SuperDrive™ with Flights  
Working under Water



SuperDrive™ with Sidewalls  
and Special Flights



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