



***Volta Belting
Technology***

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About Volta Belting

Volta Belting Technology Ltd. has been a world leader in the manufacture of Thermoplastic Elastomer (TPE) belting and profiles for over 50 years. Volta Belting's homogeneous belts are known for their high material strength, superior dimensional exactitude and stability. The materials are cut and wear -resistant and impervious to water, oils and other fluids. They are easy to install on-site, with a minimum of contamination to the work area, and, if damaged, can be repaired efficiently by closing tears or replacing sections. Volta belting's positive drive flat belts are uniquely designed to overcome the numerous shortcomings associated with conventional conveyor belts: suitability in wet (even submerged) conditions without off-tracking and without the need for friction rollers, thereby saving on conveyor design and bringing the food processing industry closer to its goal of providing safe, affordable food for all. The food-grade belts are FDA/USDA/USDA Dairy approved and confirm to EC regulations. The materials also support HACCP principles and are suited to CIP procedures. In general industries, the belts come into their own by offering superior durability (for a "lifetime") and savings in maintenance and downtime. Volta Belting serves specialized industries such as wood and furniture, paper and packaging production, metal processing, automotive, recycling and mechanized logistic facilities. Volta Belting offers the largest range of round and trapezoid (V) profiles. In a number of key industries, the profiles can be used as rings to drive roller beds. Volta Belting provides experienced sales and technical service support in more than 50 countries, covering major industrial centers throughout North and South America, Europe, Asia and Africa. On site training is available at Volta Belting's main fabrication centers in North America and Europe. Volta Belting's innovative belting technology guarantees extended productivity, lower costs of ownership and optimal operation in every installation.



The Next Step in Belting



Dairy Industry
Conveying Solutions



Volta is the Right Choice for the Dairy Industry

Volta's innovative hygienic belting serves the dairy industry with the highest quality and efficiency, providing a cost-effective solution which reduces bacteria counts and maintenance costs.

Simply Cleaner

Dairy products are known as high-risk in terms of bacterial development and Volta's homogeneous flat and positive drive belts stay cleaner for longer and streamline the entire cleaning process. At every stage of the production process through packaging, the buildup of product residue is minimized and food safety is enhanced.

The saving in time and water used for cleaning reduces the cost of ownership and frees more time for production. Volta belts support the HACCP Quality and Food Safety Program and the finished product can have enhanced shelf-life resulting from the typically lower bacteria counts.



Meets international hygiene standards for quality, reliability and food contact.

- | In compliance with USDA Guidelines of the Sanitary Design and Fabrication of Dairy Processing Equipment review.
- | Declaration of Conformity verifying compliance with Food Contact Regulations:
EU No.-10/2011 amended by 2017/752, 1935/2004 and 2023/2006 and FDA Art. 21. CFR.177.2600.

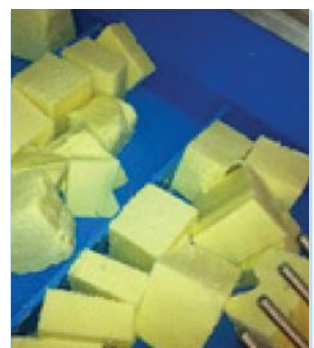
✓ **Soft Cheese:** Volta belts are in wide use for soft cheese production where molds are transported on trays and profile belts provide food grade protection as well as dimensional reliability and strength. The belts can be exposed to the various liquids such as whey and offer long belt life.



✓ **Hard Cheese:** Volta's homogeneous flat belt material will not absorb water and oils and has no ply. Ply is prone to soak up liquids thereby developing high concentrations of bacteria and causing cracks to form in the laminated surface. Volta smooth surface belts can be scraped with no resulting damage to welded joints and no danger of grooving. Further fabrications such as flights and side walls for containment make this system adaptable to elevators and even swan-neck conveyors.



✓ **Secondary Processing** - a significant percentage of cheese production goes through secondary processing, whether as reworked cheese mass, sliced for packs or grated for further use in products such as pizzas. This necessitates transporting on additional conveying systems where hygiene becomes critical as the product is exposed yet again to belting surfaces.



✓ **Deep Freeze Applications:** The Volta Low Temperature (LT) belt material is unique in its ability to work well in temperatures well below zero for transporting frozen cheese in grated or block form. The LT material does not stiffen and can be used on relatively small pulley diameter. It will not be damaged by the abrasion of the frozen product.

✓ **Packaging Lines:** Volta's homogeneous material does not absorb odors and will reduce contamination in general in the processing room. Many packaging lines incorporated inside the production hall need food grade belts to prevent cross-contamination. Moving large cheeses may pose a problem in terms of handling while sliced or grated cheese has more exposed surface area and greater care is needed in hygienic belt selection.



✓ **Other Dairy Products:** Products like powdered milk are often repacked into consumer packaging and the prevention of loose fibres from ply belts entering the food flow is a major concern. Volta Metal Detectable (MD) belting can give additional security in some cases.



✓ **Volta Textures and Fabrications:**

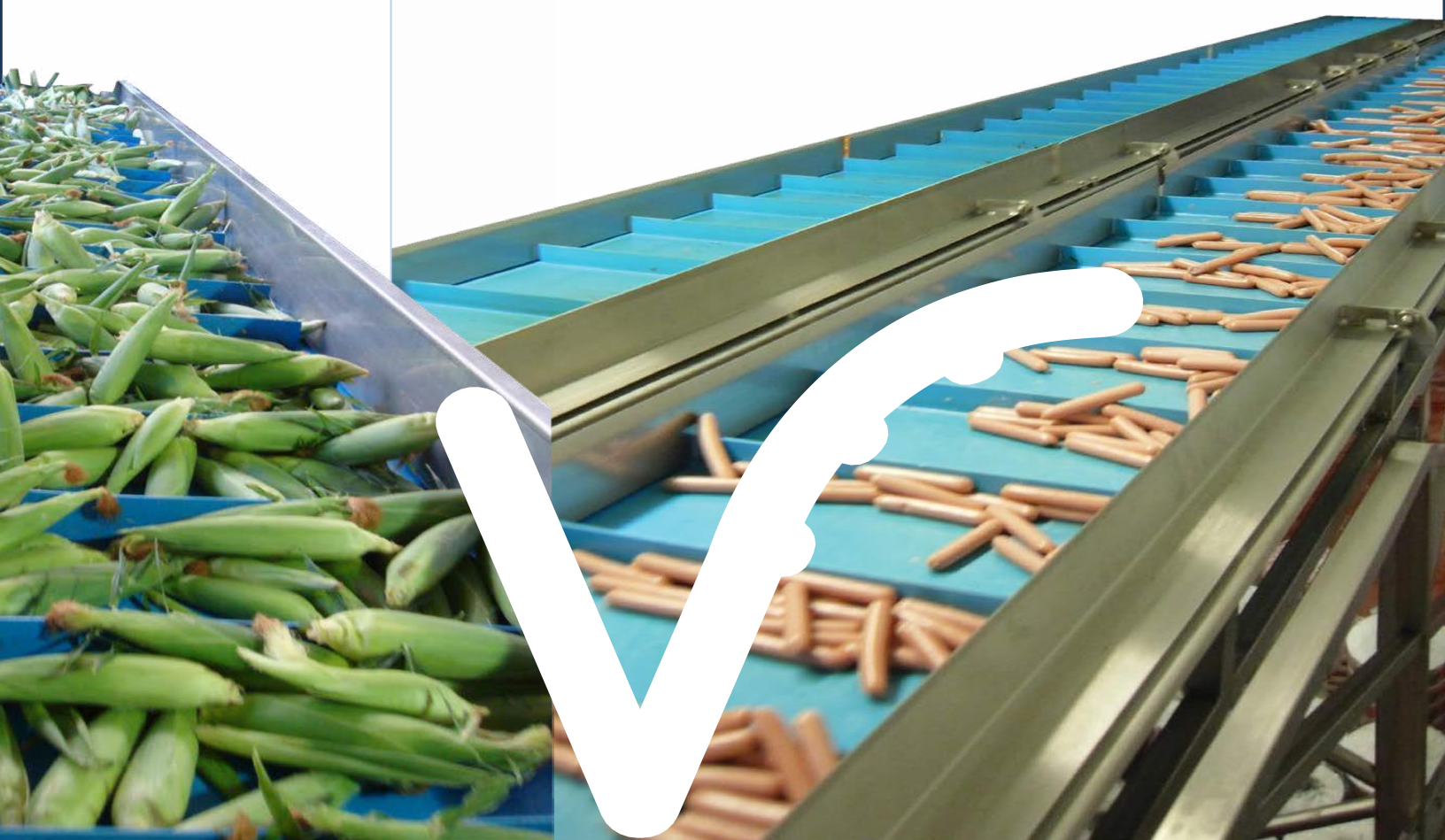
- | Mini Cleat (MC) belts are used to assist in small inclines where the product would otherwise slip.
- | HF welded cleats have a hygienic joint to the base belt ensuring quicker and more cost effective cleaning.

Positive Drive

The Positive Drive range combines all the classic advantages of the Volta material with extruded drive teeth suited to almost any conveyor pulley diameter from 48mm and upwards.

- | The SuperDrive™ and Mini SuperDrive™ belts have a central tooth configuration that serve as a built-in guide mechanism for the conveyor, eliminating belt slippage and preventing off-tracking. This minimizes maintenance and allows for hygienic conveyor designs with reduced electric consumption.
- | The Positive Drive belts are available in several food grade colors as well as in a Low Temperature (LT) version and a Metal Detectable (MD) version each of which suits the requirements of the given industry and its demands from external auditors and QA.
- | The bottom surface of the belt is a smooth extrusion which prevents the growth of bacteria in the areas which are more prone to harbor food residue. The Volta material has a surface quality not found in other plastic belts and can help reduce the use of caustic chemicals used in the dairy industry to remove 'soil'.





Flat Belts Food Industry
Conveying Solutions

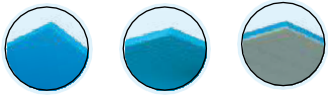
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- Volta has been manufacturing belts from homogenous Thermoplastic Elastomer (TPE) materials for over 55 years.
- The base belts are cut and abrasion resistant and have no ply or hinged elements which harbor bacteria.
- Volta products are the optimal choice where superior hygiene, conveying and cost efficiency are targets.

Homogeneous Belts											
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on S.Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Certifications
					mm		mm	Inch	kg/cm	lbs/in	
FHB	Blue16	59D	-20° C to 75° C -5° F to 170° F	0.28	2		70	2 ³ / ₄	2	11.20	FDA/USDA /EU
					3		90	3 ⁹ / ₁₆	3	16.80	
					4		110	4 ³ / ₈	4	22.40	
					5		150	5 ⁷ / ₈	5	28.00	
					6		180	7	6	33.60	
FHB	Blue13	59D	-20° C to 75° C -5° F to 170° F	0.28	4		110	4 ³ / ₈	4	22.40	FDA/USDA /EU
FHW	Off white	59D	-20° C to 75° C -5° F to 170° F	0.28	1.5		50	2	1.50	8.40	FDA/USDA /EU
					2		70	2 ³ / ₄	2	11.20	
					3		90	3 ⁹ / ₁₆	3	16.80	
					4		110	4 ³ / ₈	4	22.40	
					5		150	5 ⁷ / ₈	5	28.00	
					6		180	7	6	33.60	
FMB	Blue	95A/46D	-30° C to 70° C -20° F to 158° F	0.40	2.5		35	1 ³ / ₈	1.50	8.40	FDA/USDA /EU
					3		40	1 ⁵ / ₈	1.80	10.10	
					4		60	2 ³ / ₈	2.40	13.50	
					5		80	3 ¹ / ₈	3	16.90	
					6		90	3 ⁹ / ₁₆	3.60	20.25	
FMW	Beige	95A/46D	-30° C to 70° C -20° F to 158° F	0.40	2.5		35	1 ³ / ₈	1.50	8.40	FDA/USDA /EU
					3		40	1 ⁵ / ₈	1.80	10.10	
					4		60	2 ³ / ₈	2.40	13.50	
					5		80	3 ¹ / ₈	3	16.90	
					6		90	3 ⁹ / ₁₆	3.60	20.25	
FMWC	Clear	95A/46D	-30° C to 70° C -20° F to 158° F	0.40	2.5		35	1 ³ / ₈	1	8.40	FDA/USDA /EU
					3		40	1 ⁵ / ₈	1.2	6.70	
					4		60	2 ³ / ₈	1.6	9	
					5		80	3 ¹ / ₈	2	11	
					6		90	3 ⁹ / ₁₆	2.4	13.4	
FTB	Blue13	72A	-40° C to 40° C -40° F to 104° F	1.25	3		19	³ / ₄	0.57	3.2	FDA/ EU
Hydrolysis & Chemical Resistant (DR) Homogenous Belts											
FDR	Blue15	53D	-30° C to 70° C -20° F to 158° F	0.55	4		80	3 ¹ / ₁₆	2.4	13.5	FDA/USD A/ EU
Low Temperature (LT) Homogeneous Belts											
FMB-LT	Blue15	95A/46D	-35° C to 65° C -31° F to 149° F	0.36	3		40	1 ⁵ / ₈	1.20	6.70	FDA/ EU
					4		60	2 ³ / ₈	1.60	9	
					5		80	3 ¹ / ₈	2	11.20	
					6		90	3 ⁹ / ₁₆	2.40	13.40	
Metal Detectable (MD) Homogeneous Belts											
FMB-MD	Blue 09	95A	-20° C to 60° C -5° F to 140° F	0.50	3		75	3	1.80	10.1	FDA/ EU

Standard belt width = 1524mm (60"). Some of the belts are also available in 2032mm (80") width. Please contact Volta Belting representative for additional information.

Flat Belt Bottom Surfaces



Smooth Embossed Reinforced

Flat Belt Impression Top Surfaces



ITM Matt Top ITS - 70 Impression Top Square ITO - 50 Impression Top Oval ITR -10 Impression Top Rough IRT Impression Roof Top SP Spikes CT Crescent Top MC Mini Cleats IST Impression Saw Tooth INT Impression NubTop ITP Impression Top Fine Points ITD - 60 Impression Top Diamond

Homogeneous Embossed Bottom Belts										
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction S.Steel (Bottom)	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 1%		Certifications
						mm	mm	Inch	kg/cm	
FBHB	Blue 16	59D	-20° C to 75° C -5° F to 170° F	0.20	3	90	3 ⁹ / ₁₆	3	1680	FDAUSDA /EU
FEMB	Blue	95A46D	-30° C to 70° C -20° F to 158° F	0.25	1.6	24	1 ⁵ / ₁₆	0.60	3.60	FDAUSDA /EU
					2	30	1 ³ / ₈	0.80	4.50	
					2.5	35	1 ³ / ₈	1	5.60	
					3	40	1 ⁵ / ₈	1.20	6.80	
					4	60	2 ³ / ₈	1.60	9.20	
FBMW	Beige	95A46D	-30° C to 70° C -20° F to 158° F	0.25	5	80	3 ¹ / ₈	2.10	11.70	FDAUSDA /EU
					2	30	1 ³ / ₁₆	0.80	4.50	
					2.5	35	1 ³ / ₈	1	5.60	
					3	40	1 ⁵ / ₈	1.20	6.80	
					4	60	2 ³ / ₈	1.60	9.20	
FEMB-MD**	Blue 09	95A	-20° C to 60° C -5° F to 140° F	0.25	2	50	2	0.80	4.5	FDAEU
					3	75	3	1.20	6.8	
FELB	Blue	80A	-40° C to 50° C -40° F to 120° F	0.45	1.6	10	3 ⁸ /	0.32	1.79	FDAEU
					2	12	1 ² /	0.40	2.24	
					2.5	15	1 ⁹ / ₃₂	0.50	2.80	
					3	20	1 ³ / ₁₆	0.60	3.36	
FELB	Blue 02	80A	-40° C to 50° C -40° F to 120° F	0.45	1.6	10	3 ⁸ /	0.32	1.79	FDAEU
					2	12	1 ² /	0.40	2.24	
FELW	White 16	80A	-40° C to 50° C -40° F to 120° F	0.45	1.6	10	3 ⁸ /	0.32	1.79	FDAEU
					2	12	1 ² /	0.40	2.24	
					2.5	15	1 ⁹ / ₃₂	0.50	2.80	
					3	20	1 ³ / ₁₆	0.60	3.36	
					4	26	1 ¹³ / ₃₂	0.80	4.48	
FETB	Blue 10	72A	40° C to 40° C -40° F to 104° F	1	1.6	10	3 ⁸ /	0.29	1.6	FDAEU
					2	13	1 ² /	0.36	2	
					3	19	3 ⁴ /	0.55	3	
Reinforced Belts										
FRMB	Blue	95A46D	-30° C to 70° C -20° F to 158° F	0.20	2	25	1	6	33.50	FDAUSDA /EU
					3	35	1 ³ / ₈	7	39	
FRMW	Beige	95A46D	-30° C to 70° C -20° F to 158° F	0.20	2	25	1	6	33.50	FDAUSDA /EU
					2.5	30	1 ³ / ₁₆	6.50	36.20	
					3	35	1 ³ / ₈	7	39	
					4	70	2 ³ / ₄	7.5	42	
FRLB	Blue	80A	-40° C to 50° C -40° F to 120° F	0.20	1.6	8	5 ¹ / ₁₆	4	22	FDA/EU
					2	10	3 ⁸ /	5	28	
FRLW	White 16	80A	-40° C to 50° C -40° F to 120° F	0.20	1.6	8	5 ¹ / ₁₆	4	22	FDA/EU
					2	10	3 ⁸ /	5	28	
					3	18	1 ¹¹ / ₁₆	7.50	42	
FRTB*	Blue 10	72A	-40° C to 40° C -40° F to 104° F	0.20	1.6	8	5 ¹ / ₁₆	2.60	14.90	FDA/EU

Note: Standard belt width = 1524mm (60"). Some of the belts are also available in 2032mm (80") width. Please contact Volta Belting representative for additional information.

*FRTB-Blue10 - Pull Force (PF) calculated with Finger Splice welding.

**FEMB-MD-Blue09-Metal Detectable belt.

Impression Top Belts														
	Product & Color			Shore Hardness	Temperature Range	Coefficient of Friction on S.Steel (Bottom)	Thickness			Minimum Pulley Diameter		Pull Force: Pretension of 1%		Certifications
							mm	mm	Inch	kg/cm	lbs/in			
IT M	FEMB-ITM-LT*	Blue 15		95A/46D	-35°C to 50°C -20°F to 120°F	0.25	1	10	3/8	0.26	1.45	FDA/EU		
	FELB- ITS70	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	1.6 2	10 12	3/8 1/2	0.24 0.30	1.40 1.74	FDA/EU		
IST	FELB - IST	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	4**	35	1 3/8	0.40	2.20	FDA/EU		
ITD60	FLB -ITD60	Blue 02		80A	-40°C to 50°C -40°F to 120°F	0.55	2	12	1/2	0.46	2.58	FDA/EU		
	FELB - ITD60	Blue 02		80A	-40°C to 50°C -40°F to 120°F	0.45	1.8	11	7/16	0.3	1.68	FDA/EU		
ITO50	FELB - ITO50	Blue		80A	-40° C to 50° C -40° F to 120° F	0.45	2*	12	1/2	0.32	1.87	FDA/EU		
							2.5	15	9/16	0.40	2.32			
							3	18	11/16	0.50	2.80			
							5	35	1 3/8	0.90	5			
	FELB - ITO50	Blue 02		80A	-40° C to 50° C -40° F to 120° F	0.45	3	18	11/16	0.50	2.80	FDA/EU		
	FMB-ITO50	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.36	2.5	35	1 3/8	1.50	8.40	FDA/USDA/ EU		
	FEMB-ITO50	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	2	30	1 3/16	0.60	3.36	FDA/USDA/ EU		
							3	40	1 5/8	0.94	5.26			
FEMW-ITO50	Beige		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	2.5 3	35 40	1 3/8 1 5/8	0.74 0.94	4.20 5.26	FDA/USDA/ EU			
FEMB -ITO50-MD**	Blue 09		95A	-20°C to 60°C -5°F to 140°F	0.25	2	50	2	0.60	3.36	FDA/EU			
						3	75	3	1	5.6				
ITR10	FELW - ITR10	White16		80A	-40°C to 50°C -40°F to 120°F	0.45	4	25	1	0.70	3.92	FDA/ EU		
IRT	FELB - IRT	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	4	25	1	0.60	3.40	FDA/USDA/ EU		
	FEMB - IRT	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	3.5	40	1 5/8	1	5.60	FDA/EU		
Spikes SP**	FELB-SP	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	2	20	1 3/16	0.40	2.24	FDA/USDA/ EU		
							2.5	24	1 5/16	0.50	2.80			
							3	28	1 1/8	0.60	3.36			
	FEMB-SP	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	2	40	1 5/8	0.80	4.50	FDA/USDA/ EU		
							2.5	45	1 3/4	1	5.60			
							3	50	2	1.20	6.80			
FEMW-SP	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	2	40	1 5/8	0.80	4.50	FDA/USDA/ EU			
						2.5	45	1 3/4	1	5.60				
IT P	FELB - ITP	Blue 02		80A	-40°C to 50°C -40°F to 120°F	0.45	2	12	1/2	0.40	2.24	FDA/EU		
INT	FEMB - INT	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	2	50	2	0.80	4.50	FDA/USDA /EU		
CT	FELB - CT	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	3	35	1 3/8	0.60	3.36	FDA/EU		
Crescent Top - CT	FMB - CT	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.36	3	60	2 3/8	1.80	10.12	FDA/USDA /EU		
	FEMB - CT	Blue		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	3	60	2 3/8	1.20	6.75	FDA/USDA /EU		
	FEMW - CT	Beige		95A/46D	-30°C to 70°C -20°F to 158°F	0.25	2.5	50	2	1	5.60	FDA/USDA /EU		
	FEMB - CT-MD**	Blue 09		95A	-20°C to 60°C -5°F to 140°F	0.25	3	95	3 3/16	1.2	6.75	FDA/EU		
Mini Cleats	FELB - MC	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	40	1 5/8	0.50	2.80	FDA/EU		
	FEMB - MC	Blue		95A/46D	30°C to 70°C -20° F to 158°F	0.25	3	70	2 3/4	1.20	6.80	FDA/USDA /EU		

Standard belt width = 1524mm (60").Some of the belts are also available in 2032mm (80") width. Please contact Volta Belting representative for additional information.

Note: *FEMB-ITM-LT - Min. Pulley diameter for temperature ≥5°C / 41°F. *FELB-2-ITO50 - not standard.

** FELB-IST - Base - 2mm; total belt height 4mm. **Spikes -Height of Spikes above base belt is 2.8mm.

**FEMB-ITO50-MD & FEMB-CT-MD-Blue09-Metal Detectable belts.

Reinforced Impression Top Belts

Product & Color			Shore Hardness	Temperature Range	Coefficient of Friction on S.Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Certifications
						mm		mm	Inch	kg/cm	lbs/in	
FRMB - ITO50	Blue		95A/46D	30° C to 70° C -20° F to 158°	0.20	2.5		32	1 ¼	4.10	24	FDA/USDA /EU
FRMW - ITO50	Beige		95A/46D	30° C to 70° C	0.20	2.5		32	1 ¼	4.10	24	FDA/USDA /EU
						3		36	1 7/16	4.30	25.20	
FRLB - ITO50	Blue		80A	-40° C to 50° C -40° F to 120° F	0.20	2.5		15	9/16	3.20	18	FDA/EU
FRLW - ITO50	White 16		80A	-40° C to 50° C -40° F to 120° F	0.20	2.5		15	9/16	3.20	18	FDA/EU
						3		18	11/16	3.48	21.60	
FRLW - ITR10	White 16		80A	-40° C to 50° C -40° F to 120° F	0.20	4		30	1 3/16	3.40	19	FDA/EU
FRLB - ITS70	Blue 02		80A	-40° C to 50° C	0.20	2		10	3/8	5	28	FDA/EU

Covered Bottom Flat Belts

Ideal for special applications, for example in bakeries and confectioneries where reinforcement is necessary and hygiene cannot be compromised. The fabric reinforcement is thermally-coated with a thin layer of Volta TPE to provide a seal, preventing both contamination and delamination. As an extra precaution, belt edges can be thermo-sealed or recessed to prevent fraying and the ingress of contaminants.



Fabric Reinforcement coated with homogeneous Volta material.

Covered Bottom/ Covered Bottom Impression Top Belts

Product & Color			Shore Hardness	Temperature Range	Coefficient of Friction on S.Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Certifications
						mm		mm	Inch	kg/cm	lbs/in	
FRLB - CEB - B	Blue		80A	-40° C to 50° C -40° F to 120° F	0.30	2		19	3/4	2.20	12.40	FDA/EU
FRLW - CEB - C	White 16				0.30	3		30	1 ¼	2.80	15.60	FDA/EU
FRLW - CB	White 16				0.40	2		19	3/4	3.10	17.40	FDA/EU
FRMB - CEB - B	Blue		95A/46D	-30°C to 60°C -20°F to 120°F	0.30	0.80		12	1 5/3	3.50	19.6060	FDA/USDA /EU
					0.30	3		40	1 5/8	4.80	38	
FRMW - CEB - C	Beige		95A/46D	-30°C to 60°C -20°F to 120°F	0.30	3		40	1 5/8	4.80	38	

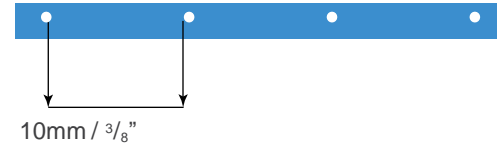
Belt Coating Materials for the Food Industry

Products	GIB*-Blue17	MIB*-Blue17	WIB*-Blue17	FEIB-Blue-17	FEMB-SP-Blue FEMW-SP-Beige	FELB-SP-Blue	FELB-IST-Blue
Illustration							
Description	Super Grip	Multi Grip	Wood Grip	High Grip	Spikes**	Spikes**	Saw Tooth
Hardness	62A	62A	62A	62A	95A	80A	80A
Size (mm)	Width*	50	50	70	1524	1524	1524
	Thickness	4	6	4	2/2.5/3	2/2.5/3	2/2.5/3
CoF (Stainless Steel)	0.98	1.08	1.05	0.95	0.25	0.45	0.45
Temperature Range	-20° C to 40° C				-30° C to 70° C		-40° C to 50° C
Certifications	FDA/EU				FDA/USDA/EU		FDA/ EU

Note: *Width - Maximum available width | * For dry use only | ** Height of Spikes above the base belt is 2.8mm | *** FELB-IST - Total belt thickness.

Aramid Cord Reinforced Belts

A food grade flat belt with special tensioning members, hermetically encased in non-porous homogeneous material which has been tested for durability. Used mainly in applications with significant loads on long narrow belts with small diameter pulleys.



Aramid Cord Reinforced (ACR) Embossed Bottom Belts

Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on S.Steel (Bottom)	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 0.2%		Certifications
						mm	Inch	kg/cm	lbs/in	
FELB-ACR	Blue	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	20	0.79	4	22.40	FDA/EU

Aramid Cord Reinforced (ACR) Impression Top & Embossed Bottom Belts

FELB-ACR-ITO50	Blue	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	20	0.79	4	22.40	FDA/EU
FELB-ACR-ITO50	Blue 02	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	20	0.79	4	22.40	FDA/EU
FELB-ACR-IST	Blue 02	80A	-40°C to 50°C -40°F to 120°F	0.45	4*	35	1.38	4.2	23.40	FDA/EU

Low Temperature (LT) Aramid Cord Reinforced (ACR) Impression Top & Embossed Bottom Belts

FELB-ACR-ITO50-LT	Blue 15	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	18	0.70	4	22.40	FDA/EU
FEMB-LT ITO50-ACR	Blue 15	95A/46D	-35°C to 50°C -30°F to 120°F	0.25	2.5	40	1.57	4	22.40	FDA/EU

Note: Standard belt width = 1524mm (60"). Some of the belts are also available in 2032mm (80") width. Please contact Volta Belting representative for additional information.
*FELB-ACR-IST – Base belt thickness = 2mm // Total belt thickness including Saw tooth impression top = 4mm.
Pull force in table relates to a finger splice weld 20x50 mm. The calculation takes into account the weld splice which has strength of 28kg/cm. Note that various finger splice methods and different tools can result in differing belt strengths.

Endless Splicing Techniques

FBW - Flat Butt Welding System The FBW System performs a butt-weld, fusing belts edge to edge.



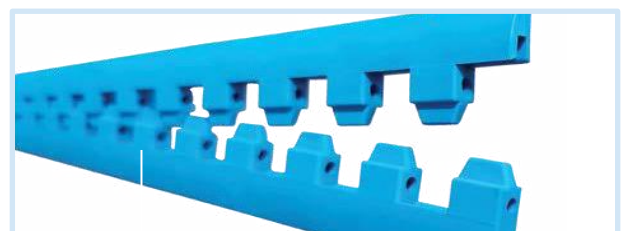
FT - Electrode Welding System The FT Welding System provides electrode welding technology.



Volta RoundFlex™ Lace

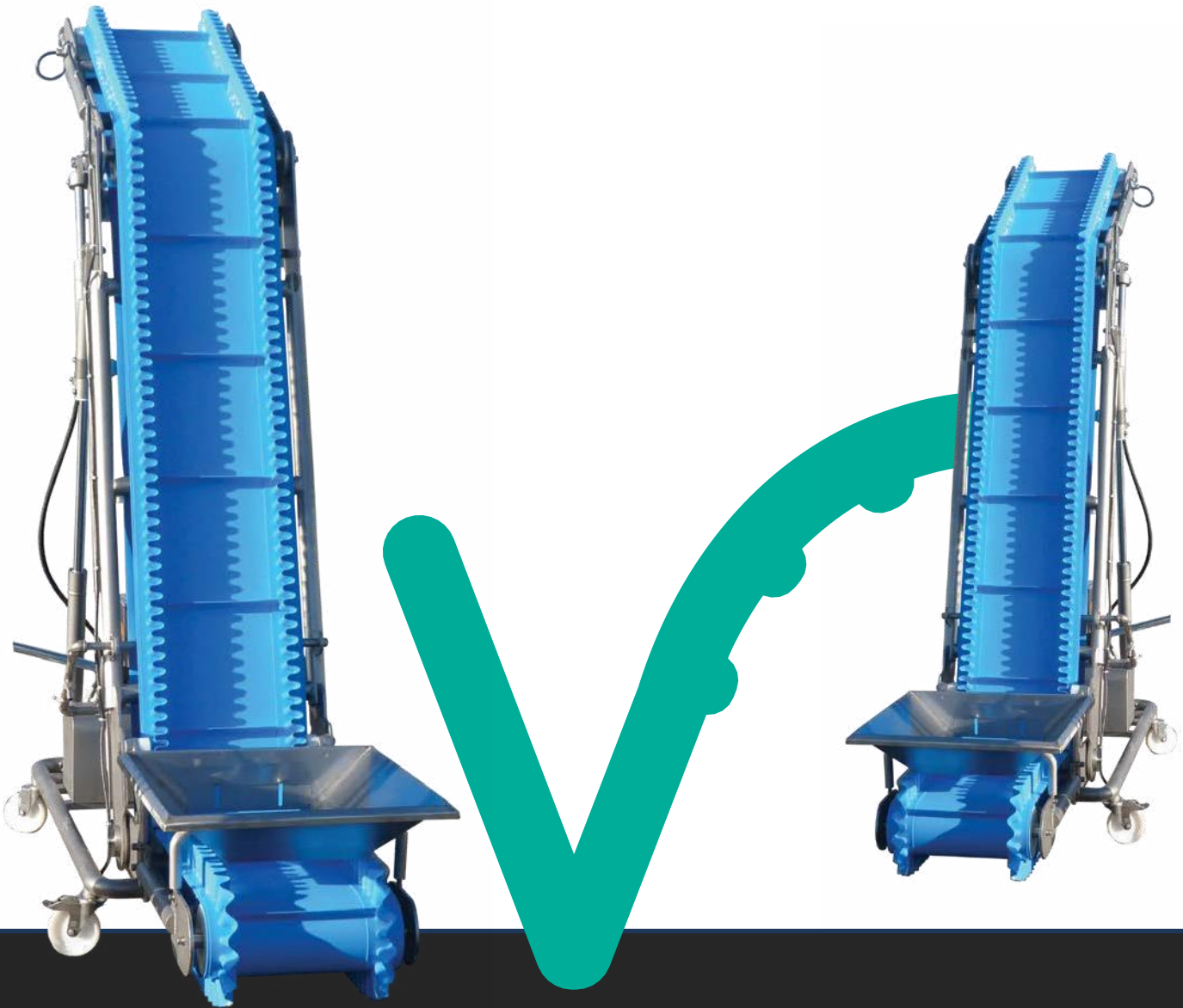
New, improved geometry for a better grip on pulleys. Compatible with Volta MB, MW, MB-MD and DR material belts from 2.5 to 5mm thickness. All Volta flat belt materials are easy to clean without removing from conveyor and therefore lace is used only where absolutely necessary. The strength of the belt will be affected at the joint where lace is used.

RoundFlex™ Lace





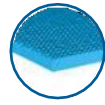
The Next Step in Belting



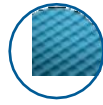
Food Grade Positive Drive Line
Conveying Solutions



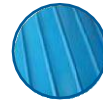
SuperDrive™



ITE
Impression
Top Embossed



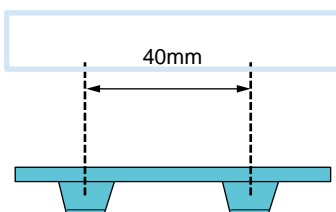
ITO-50
Impression
Top Oval



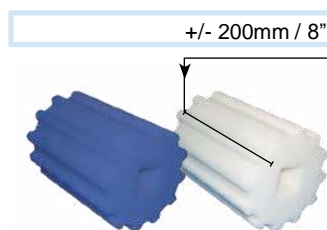
MC
Mini
Cleats

The homogeneous Positive Drive, recognized worldwide as the best choice where hygiene and conveying efficiency are essential.

Smooth Top SuperDrive™ Belts											
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on UHMW	Thickness	Minimum Pulley Diameter		Maximum Pull Force		Certifications	
						mm	mm	Inch	kg/cm		lbs/in
FHB-SD	Blue 16	55D	-20°C to 90°C -5°F to 194°F	0.20	3	126	4 ³¹ / ₃₂	7	39.2	FDA/USDA/EU	
					4	176	6 ¹⁵ / ₁₆	9	50.40		
					6	300	11 ¹³ / ₁₆	14	78.40		
FHW-SD	Off White	55D	-20°C to 90°C -5°F to 194°F	0.20	3	126	4 ³¹ / ₃₂	7	39.2	FDA/USDA/EU	
					4	176	6 ¹⁵ / ₁₆	9	50.40		
FHB-SD	Blue 13	55D	-20°C to 90°C -5°F to 194°F	0.20	3	126	4 ³¹ / ₃₂	7	39.2	FDA/USDA/EU	
					4	176	6 ¹⁵ / ₁₆	9	50.40		
FEHB-SD-ITM2	Blue 16	55D	-20°C to 90°C -5°F to 194°F	0.18	3	126	4 ³¹ / ₃₂	7	39.2	FDA/USDA/EU	
					4	176	6 ¹⁵ / ₁₆	9	50.40		
FMB-SD	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
					4	120	4 ³ / ₄	8	44.80		
					6	240	9 ³ / ₄	12.50	70		
FMW-SD	Beige	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
					4	120	4 ³ / ₄	8	44.80		
FMB-SD	Blue 02	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
FEMB-SD-ITM2	Blue	53D	-20°C to 70°C -5°F to 158°F	0.22	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
					4	120	4 ³ / ₄	8	44.80		
Impression Top SuperDrive™ Belts											
FHB-SD-ITO50	Blue 16	55D	-20°C to 90°C -5°F to 194°F	0.20	3	126	4 ³¹ / ₃₂	7	39.2	FDA/USDA/EU	
					4	176	6 ¹⁵ / ₁₆	9	50.40		
FHB-SD-ITE	Blue 16	55D	-20°C to 90°C -5°F to 194°F	0.20	3	126	4 ³¹ / ₃₂	7	39.2	FDA/USDA/EU	
FMB-SD-ITO50	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
FMB-SD-ITE	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
FMW-SD-ITE	Beige	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ¹ / ₄	6.25	35	FDA/USDA/EU	
FMB-SD-MC	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	100	4	6.25	35	FDA/USDA/EU	
Hydrolysis & Chemical Resistant SuperDrive™ Belts											
FDR-SD	Blue 15	53D	-20°C to 70°C -5°F to 158°F	0.30	3	80	3 ¹ / ₄	4.7	26.3	FDA/USDA/EU	
					4	120	4 ³ / ₄	6.25	35		
FDR-SD-ITO50	Blue 15	53D	-20°C to 70°C -5°F to 158°F	0.30	3	80	3 ¹ / ₄	4.7	26.3	FDA/USDA/EU	
FEDR-SD-ITM2	Blue 15	53D	-20°C to 70°C -5°F to 158°F	0.22	3	80	3 ¹ / ₄	4.7	26.3	FDA/USDA/EU	
FEDR-SD-ITO50	Blue 15	53D	-20°C to 70°C -5°F to 158°F	0.22	3	80	3 ¹ / ₄	4.7	26.3	FDA/USDA/EU	
Low Temperature (LT) SuperDrive™ Belts											
FMB-SD-LT	Blue 15	95A/46D	-35°C to 65°C -31°F to 149°F	0.30	3	80	3 ¹ / ₄	3	16.80	FDA/EU	
Metal Detectable (MD) SuperDrive™ Belt											
FMB-SD-MD	Blue 09	53D	-20°C to 60°C -5°F to 140°F	0.28	3	100	4	6	33.6	FDA/EU	
FMB-SD-ITO50-MD	Blue 09	53D	-20°C to 60°C -5°F to 140°F	0.28	3	100	4	6	33.6	FDA/EU	

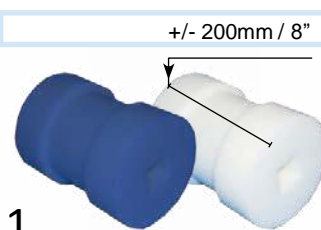


Pitch size for reference only

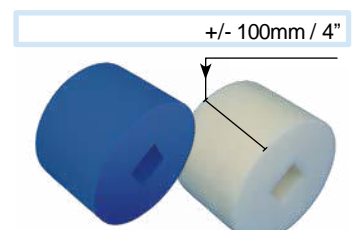


SuperDrive™ Drive Pulley

11



SuperDrive™ Tail Pulley



SuperDrive™ Support Pulley

Mini SuperDrive™

Food Grade - Positive Drive Line

The only trackable Mini Positive Drive product.

The MiniSD™ design is similar to the world leader, Volta SuperDrive™; scaled down for a smaller minimum pulley. Standard belt width: 1524mm/60" or 2032mm/80". Please contact Volta Belting representative for additional information.

Smooth Top Mini SuperDrive™ Belts											
Product & Color		Shore Hardness	Temperature Range***	Coefficient of Friction on UHMW	Thickness	Minimum Pulley Diameter*		Maximum Pull Force**		Certifications	
						mm	mm	Inch	kg/cm		lbs/in
FHB-MSD	Blue 16	55D	-20°C to 90°C -5°F to 194°F	0.20	2	80	3.15	4.5	25.2	FDAUSDA/EU	
						100	4	5.6	31.36		
FMB-MSD	Blue	95A/46D	-20°C to 70°C -5°F to 158°F	0.28	2.5	48	1.89	4	22.4	FDAUSDA/EU	

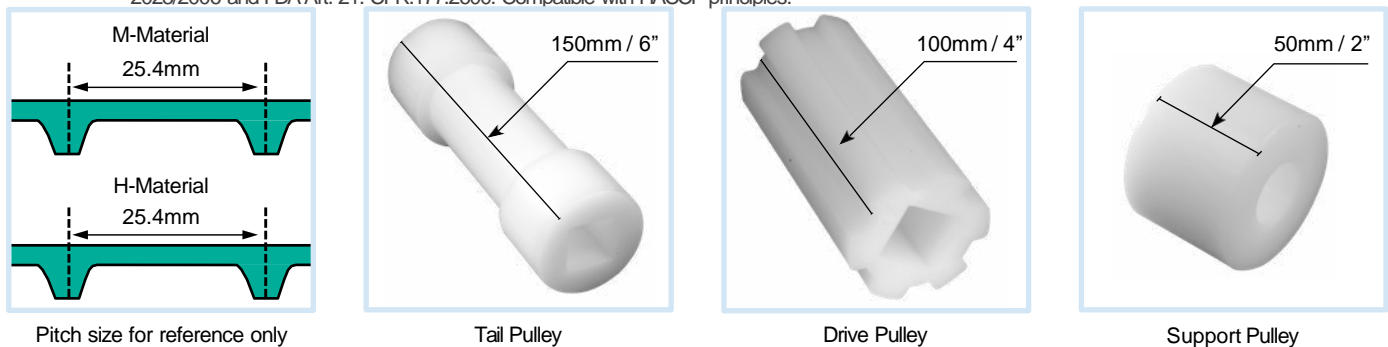
Impression Top Mini SuperDrive™ Belts											
Product & Color		Shore Hardness	Temperature Range***	Coefficient of Friction on UHMW	Thickness	Minimum Pulley Diameter*		Maximum Pull Force**		Certifications	
					mm	mm	Inch	kg/cm	lbs/in		
FMB-MSD-ITO50	Blue	95A/46D	-20°C to 70°C -5°F to 158°F	0.28	2.5	48	1.89	4	22.4	FDAUSDA/EU	
FMB-MSD-MC	Blue	95A/46D	-20°C to 70°C -5°F to 158°F	0.28	2.5	80	3.15	4	22.4	FDAUSDA/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.

***To determine the allowable Pull force, check the "Temperature Correction Factor" table.

Declaration of Conformity in compliance with Food Contact Regulations: EU No.-10/2011 amended by 2017/752, 1935/2004 and 2023/2006 and FDA Art. 21. CFR.177.2600. Compatible with HACCP principles.



Mini DualDrive™

A scaled-down version of the original DualDrive™ tooth geometry. Standard belt width: 2032mm/80".

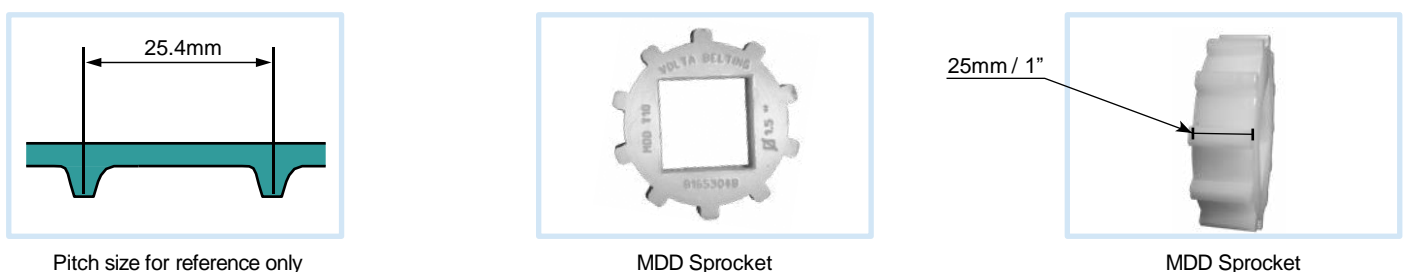
Smooth Top Mini DualDrive™ Belts											
Product & Color		Shore Hardness	Temperature Range***	Coefficient of Friction on UHMW	Thickness	Minimum Pulley Diameter*		Maximum Pull Force**		Certifications	
						mm	mm	Inch	kg/cm		lbs/in
FMB-MDD	Blue	95A/46D	-20°C to 70°C -5°F to 158°F	0.28	2.5	48	1.89	4	22.4	FDAUSDA/EU	

Impression Top Mini DualDrive™ Belts											
Product & Color		Shore Hardness	Temperature Range***	Coefficient of Friction on UHMW	Thickness	Minimum Pulley Diameter*		Maximum Pull Force**		Certifications	
					mm	mm	Inch	kg/cm	lbs/in		
FMB-MDD-ITO50	Blue	95A/46D	-20°C to 70°C -5°F to 158°F	0.28	2.5	48	1.89	4	22.4	FDAUSDA/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.

***To determine the allowable Pull force, check the "Temperature Correction Factor" table. Declaration of Conformity in compliance with Food Contact Regulations: EU No.-10/2011 amended by 2017/752, 1935/2004 and 2023/2006 and FDA Art. 21. CFR.177.2600. Compatible with HACCP principles.



DualDrive™

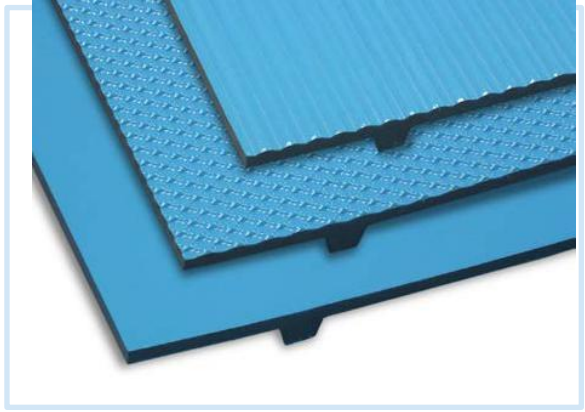
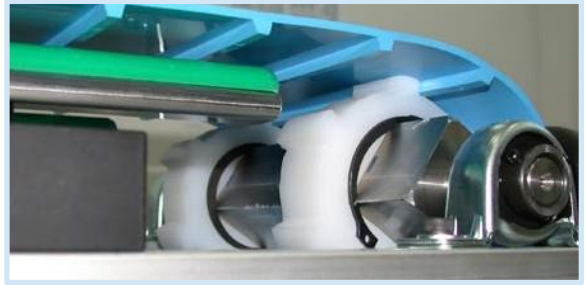
- Minimal retrofitting required. DualDrive™ is suited to some 2" pitch modular belt sprockets but for both reliability and hygiene these should be replaced.
- DualDrive™ is a fully extruded Positive Drive belt with drive teeth running the full width of the belt at a 2" pitch.

Mechanical Benefits:

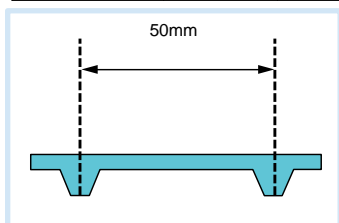
- Replaces modular systems that require extensive cleaning and lengthy soaking and wear quickly at the joints.
- Greatly reduced noise levels in comparison with to modular belts.
- Integrated teeth for a Positive Drive with no slippage.
- No pretension of the belt is needed.
- Extruded in 30 or 60m (100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

Material Features:

- Smooth or textured homogeneous surface.
- Special texture available for non-stick applications.
- No ply/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 UHMW	Thickness	Minimum Pulley Diameter		Maximum Pull Force		Certifications	
						mm	mm	Inch	kg/cm		lbs/in
FHB-DD	Blue 16	55D	-20°C to 90°C -5°F to 194°F	0.20	3	126	4 ^{31/32}	7	39.2	FDA/USDA/EU	
FHB-DD	Blue 02	53D	-20°C to 90°C -5°F to 194°F	0.28	3	80	3 ^{1/4}	6	33.6	FDA/USDA/EU	
FMB-DD	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ^{1/4}	6	33.6	FDA/USDA/EU	
					4	120	4 ^{3/4}	7.7	43		
FMB-DD-ITM2	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ^{1/4}	6	33.6	FDA/USDA/EU	
FMW-DD	Beige	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ^{1/4}	6	33.6	FDA/USDA/EU	
FMW-DD-ITM2	Beige	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ^{1/4}	6	33.6	FDA/USDA/EU	
Impression Top DualDrive™ Belts											
FMB-DD-ITO50	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	3	80	3 ^{1/4}	6	33.6	FDA/USDA/EU	
FMB-DD-IRT	Blue	53D	-20°C to 70°C -5°F to 158°F	0.28	4	100	4	6	33.6	FDA/USDA/EU	
Hydrolysis & Chemical Resistant DualDrive™ Belts											
FDR-DD	Blue 15	53D	-20°C to 70°C -5°F to 158°F	0.30	3	80	3 ^{1/4}	4.7	26.3	FDA/USDA/EU	
FDR-DD-ITM2	Blue 15	53D	-20°C to 70°C -5°F to 158°F	0.30	3	80	3 ^{1/4}	4.7	26.3	FDA/USDA/EU	
Low Temperature (LT) DualDrive™ Bel											
FMB-DD-LT	Blue 15	95A/46D	-35°C to 65°C -31°F to 149°F	0.30	3	80	3 ^{1/4}	3	16.80	FDA/EU	
Metal Detectable (MD) DualDrive™ Belt											
FMB-DD-MD	Blue 09	53D	-20°C to 60°C -5°F to 140°F	0.28	3	100	4	6	33.6	FDA/EU	



Pitch size for reference only



Machined Drive Sprockets



Machined Drive Sprockets



Molded Drive Sprocket

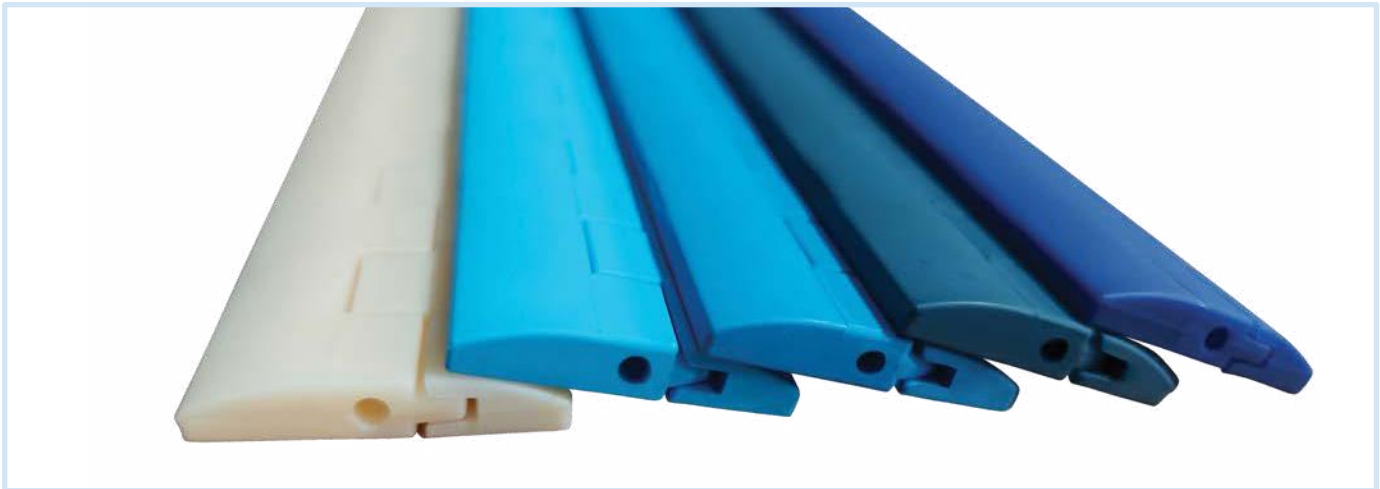


Molded Tail Roller

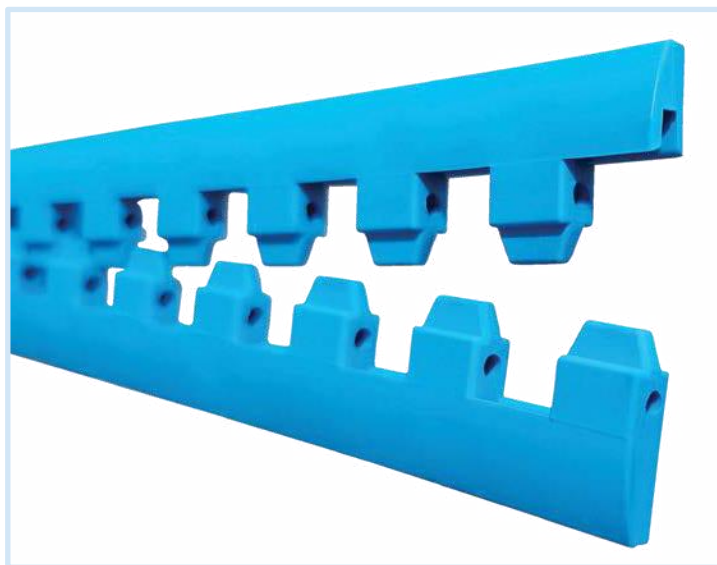
Volta RoundFlex™ Lace

New, improved geometry for a better grip on pulleys. Compatible with Volta MB, MW, MB-MD and DR material Flat and Positive Drive belts including MSD & MDD belts from 2.5 to 5mm thickness.

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



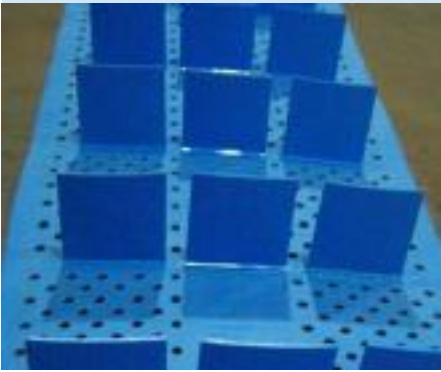
RoundFlex™ Lace



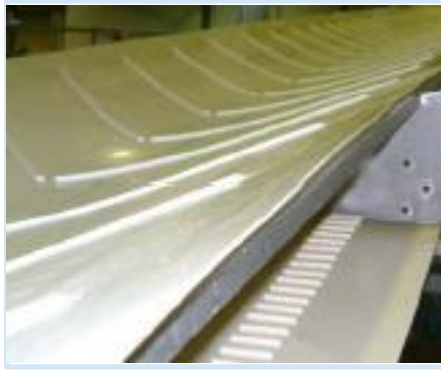
RoundFlex™ Lace

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.

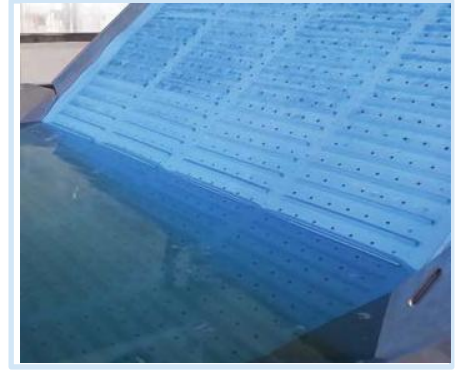
Fabrications on Positive Drive Belts



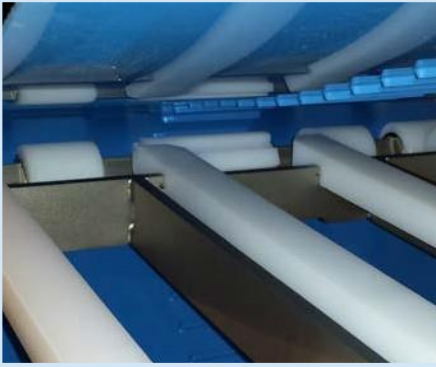
Perforated SuperDrive™
with Spaced Flights



SuperDrive™ Trough Conveyor with
Chevron Flights



Perforated Mini DualDrive™ Belt



Mini SuperDrive™ Belt



Perforated DD-IRT Belt



SuperDrive™ Z-elevator with Flights,
Guides and Sidewalls



DualDrive™ with Impression Top IRT
Flights & Guides



SuperDrive™ with Flights Working
under Water

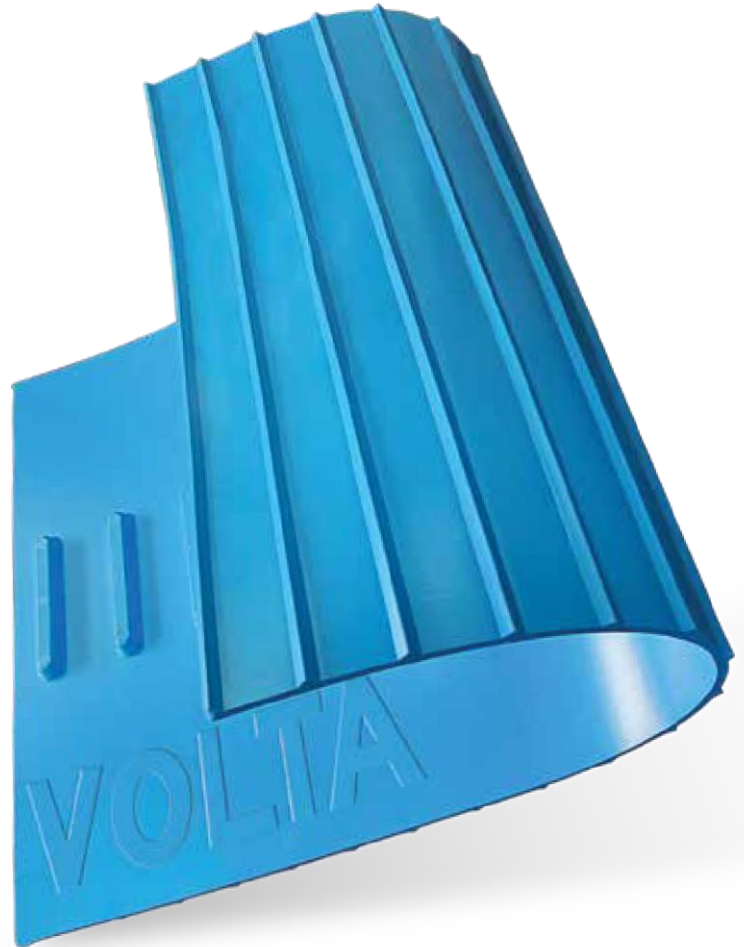


SuperDrive™ with Sidewalls
and Special Flights

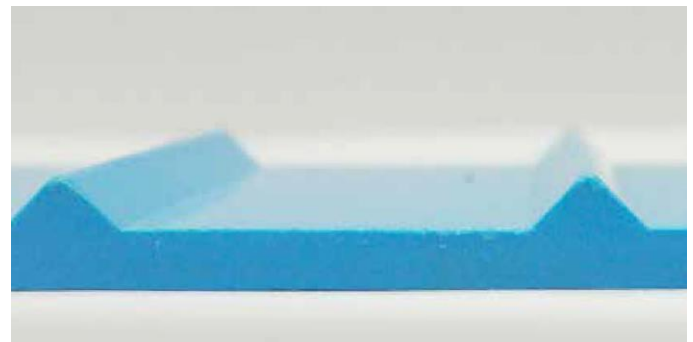
The built-in guide mechanism and the new textured top keep your product safe and steady.

**We are excited to present our new
Positive Drive Belt: FMB-SD-MC**

- ✓ The fully extruded Mini Cleat (MC) top on our SuperDriveTM homogeneous material enhances the incline conveyance capability of carrying bulk product by up to 25 degrees.
- ✓ The MC profile prevents product rollback on the incline without requiring flights.
- ✓ Mini Cleat (MC) top eliminates the need for fabricated cleats.
- ✓ The fully extruded, integrated teeth of the Super DriveTM function as a positive drive system and serve as a built-in guide mechanism to reduce tension and off-tracking.
- ✓ The result is eco-friendly SuperDriveTM belts that allow for a drastic reduction in water usage as well as the conversion of precious lost time spent on cleaning to increased production time.
- ✓ SuperDriveTM belt with Mini Cleat (MC) top are a cutting-edge solution for the potato, meat, fruit, and cheese industries. Suitable applications include, but are not limited to, French fries, chicken cutlets, cold cuts, bacon, sliced peaches and pears, shredded cheese, and nuts.



**Use this belt to keep your products
safe and steady and earn more
money than before.**



Molded BLUE Sprockets for DualDriveTM



Volta offers molded sprockets in blue Acetal for the DualDriveTM belts. These are offered in addition to the standard white and blue machined sprockets.

DualDriveTM Molded Sprockets

Number of Teeth	Drive Sprocket	Tail Roller
6T	DD-I-Sprocket-93.4mm/3.67"	DD-I-Tail Sprocket-84.3mm/3.32"
8T	DD-I-Sprocket-125.6mm/4.94"	DD-I-Tail Sprocket-116.5mm/4.59"
10T	DD-I-Sprocket-157.7mm/6.20"	DD-I-Tail Sprocket-148.5mm/5.85"

- Compatible with 40mm and 1.5" square bore shafts
- Light weight
- Have excellent chemical and abrasion resistance
- Easy to clean



The Next Step in Belting



Metal Detectable Flat Belts

Conveying Solutions



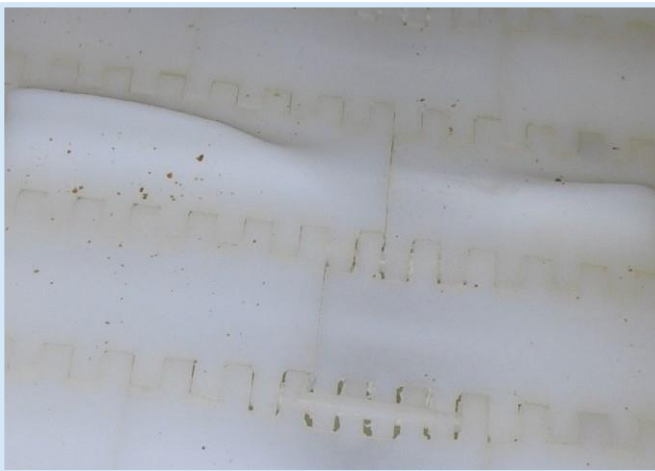
Metal Detectable (MD) Volta belts for the food industry

As you are aware, consumer safety has become a prominent issue in recent years due to heightened public awareness, increasingly stringent legal regulations, and the challenging responsibility of managing an automated food processing line. The ever-changing demands and pressures for superior food safety are driven internally by managers along with external pressures from consumers, industry regulators, and global associations.

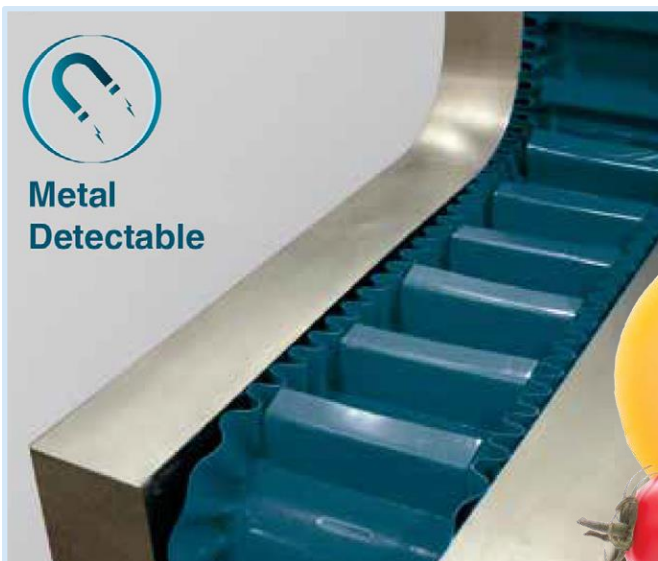
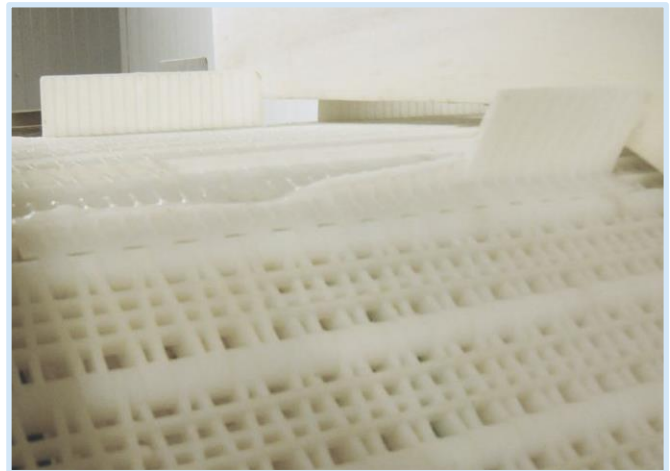
Often called “farm to fork”, the path from raw food to a finished and packaged product is one that has hazardous contact points. Before consumers have their food on their tables, that food has come into contact with harvesting equipment, slaughterhouses, freezers, cold storages, a wide array of transportation means, and various processing machinery. Although most contaminants (much of which is ferrous) are removed in early processing stages, trace contaminants can still remain in foods. Thus, metal detection is often used as a last line of defense in most processing facilities.

Food routinely makes contact with conveyor belting and with the widespread use of fragile modular belting, concerns arise over plastic contaminants being deposited into the flow of food due to wear and tear. Volta firmly stands behind the safety and stability of all Volta food grade belts as a solution for alternative inferior belting types. Our ultimate goal is to eliminate any concerns and fears held by processors and consumers regarding food safety.

Abraded by Frozen Food



Broken cleats/flights



Metal detectable plastic is an important necessity to all types of food processors. Many would never consider allowing pens, electric ties, and plasters within the hygienic zone if they were not detectable.

While Volta Belting’s materials are resistant to cuts and breakage, food grade metal detectable belts have been developed to meet high demands and to give quality assurance and production teams the confidence in knowing that their products will meet the strictest food safety requirements.

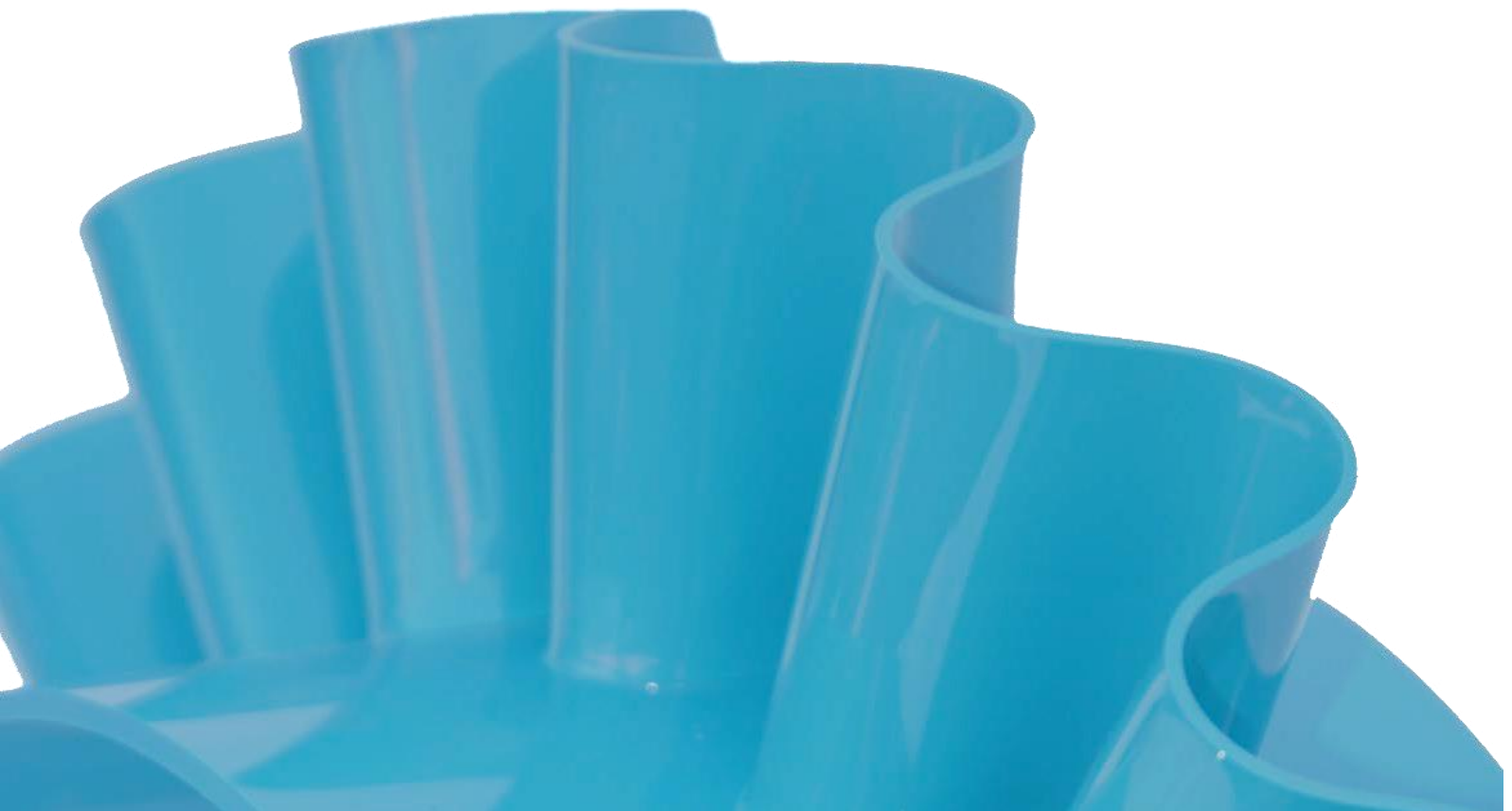
Detectability is determined by contaminant type, size, the size of the detector’s aperture, the orientation of the detectable material, and the frequency at which the detector is calibrated. Small particles may pass undetected if the food product has a similar phase angle to the contaminant (dry and moist products produce different signals), or if the particle passes through the center of a sufficiently large detector.

Metal Detectable (MD) Positive Drive Belts											
Product & Color		Shore Hardness	Temperature Range	CoF UHMW (bottom)	Thickness	Minimum Pulley Diameter		Maximum Pull Force		Certifications	
					mm	mm	Inch	kg/cm	lbs/in		
SuperDrive™ Metal & Detectable Belt											
FMB-SD-MD	Blue 09		53D	-20°C to 60°C -5°F to 140°F	0.28	3	100	4	6	33.6	FDA/EU
FMB-SD-ITO50-MD	Blue 09		53D	-20°C to 60°C -5°F to 140°F	0.28	3	100	4	6	33.6	FDA/EU
DualDrive™ Metal Detectable Belt											
FMB-DD-MD	Blue 09		53D	-20°C to 60°C -5°F to 140°F	0.28	3	100	4	6	33.6	FDA/EU

Metal Detectable (MD) Food Conveying Belts											
Product & Color		Shore Hardness	Temperature Range	CoF UHMW (bottom)	Thickness	Minimum Pulley Diameter		Pull Force: Pretension 1%		Certifications	
					mm	mm	Inch	kg/cm	lbs/in		
Flat, Homogeneous Metal Detectable Belts											
FMB-MD	Blue 09		95A	-20°C to 60°C -5°F to 140°F	0.28	3	75	3	1.80	10.1	FDA/EU
Flat, Homogeneous Embossed Bottom Metal Detectable Belts											
FEMB-MD	Blue 09		95A	-20°C to 60°C -5°F to 140°F	0.20	2	50	2	0.80	4.5	FDA/EU
						3	75	3	1.20	6.8	
Flat, Homogeneous Impression Top Metal Detectable Belts											
FEMB-ITO50-MD	Blue 09		95A	-20°C to 60°C -5°F to 140°F	0.20	2	50	2	0.60	3.36	FDA/EU
						3	75	3	1	5.6	
FEMB-CT-MD	Blue 09		95A	-20°C to 60°C -5°F to 140°F	0.20	3	95	3 3/16	1.2	6.75	

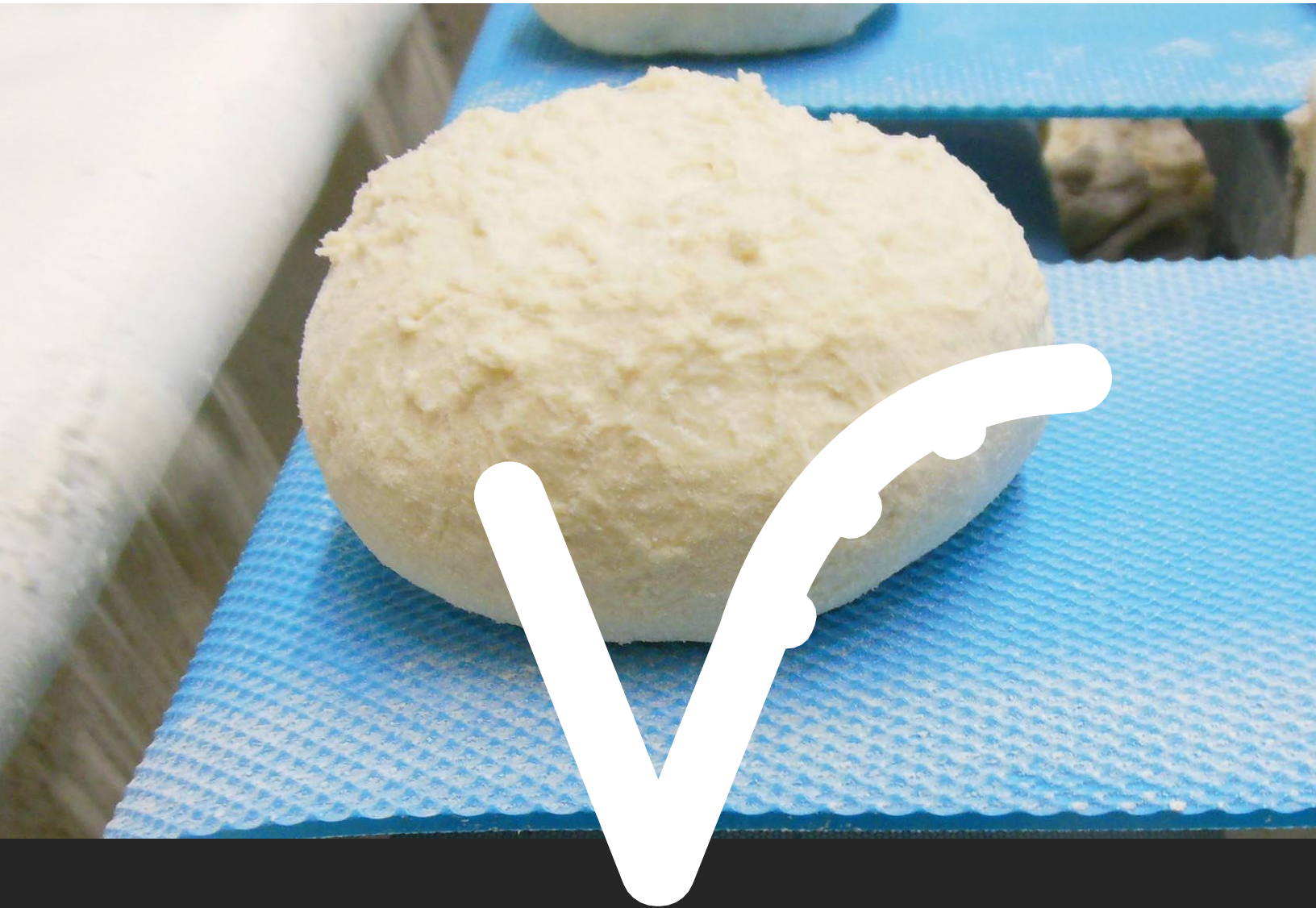
Guidelines and Suggested Materials for the Fabrication of Metal Detectable (MD) belts:

- ✓ The Metal Detectable material (MD) should be treated as a separate family of materials in terms of fabrications.
 - ✓ Sidewalls: It is possible to weld Sidewalls from MD material (FMB-MD) with a thickness of 2mm only.
 - ✓ Flights: It is recommended to use MD material for flights – FMB-MD.
 - ✓ Guides: Use the VLB-MD guide for the Metal Detectable belts.
 - ✓ Electrodes: Use EVMB-MD electrode.
 - ✓ RoundFlex™ Lace: Item code LMD-R
- Endless Closure of Belts: Volta recommends joining the Metal Detectable (MD) Positive Drive belts with a butt weld using an FBW Tool.





The Next Step in Belting



Aramid Cord Reinforced Flat Belts
Conveying Solutions

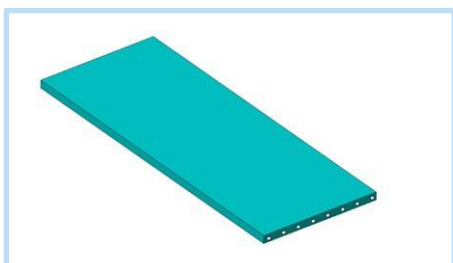


A food grade flat belt with special tensioning members fully sealed in a dense homogeneous material which has been tested for durability. Used, for example, where heavy or unevenly loaded products are carried. The Volta code for this Aramid cord reinforcement is ACR and the splicing method advised is a finger splice.

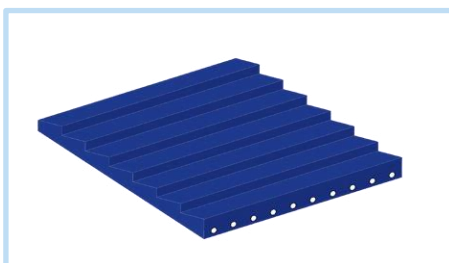


Aramid Cord Reinforced Flat Belt Range

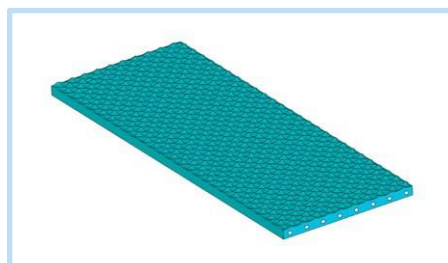
Embossed Bottom Belt



IST - Impression Saw Tooth



ITO50-Impression Top Oval



Aramid Cord Reinforced (ACR) Embossed Bottom Belts											
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on S.Steel (Bottom)	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 0.2%		Certifications	
					mm	mm	Inch	kg/cm	lbs/in		
FELB-ACR	Blue	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	20	0.79	4	22.40	FDA/EU	
Aramid Cord Reinforced (ACR) Impression Top & Embossed Bottom Belts											
FELB-ACR-ITO50	Blue	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	20	0.79	4	22.40	FDA/EU	
FELB-ACR-ITO50	Blue 02	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	20	0.79	4	22.40	FDA/EU	
FELB-ACR-IST	Blue 02	80A	-40°C to 50°C -40°F to 120°F	0.45	4*	35	1.38	4.2	23.40	FDA/EU	
Low Temperature (LT) Aramid Cord Reinforced (ACR) Impression Top & Embossed Bottom Belts											
FELB-ACR-ITO50-LT	Blue 15	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	18	0.70	4	22.40	FDA/EU	
FEMB-LT-ITO50-ACR	Blue 15	95A/46D	-35°C to 50°C -30°F to 120°F	0.25	2.5	40	1.57	4	22.40	FDA/EU	

Note: * FELB-IST-ACR – Base belt thickness = 2mm // Total belt thickness including Saw tooth impression top = 4mm.

** Available belt width: 1524mm/60inch-standard or 2032mm/80inch. Please contact Volta Belting representative for additional informations. Pull force in table relates to a finger splice weld 20x50 mm. The calculation takes into account the weld splice which has strength of 28kg/cm. Note that various finger splice methods and different tools can result in differing belt strengths

Guidelines for Finger Splice Welding of the Volta Aramid Cord Reinforced (ACR) Belts

The Finger splice, with its increased contact area overlapping reinforcement cords, ensures the best weld in terms of belt strength.



Important Note: All information in the finger splice instructions is to be used as general guidelines only, based on experience from service centers using a variety of equipment. It has been noted that the exact temperature of a specific welding bar and the pressure required will vary from press to press or even on the same press when used in a workshop and then on site. Prior to first use, it is recommended to run a small set of trials to calibrate a given press. Prior to repeated use in a different environment and/or with a different thickness or texture, a test should be made to confirm the quality of weld is consistent and that every splice is hermetically closed and free from bubbles and cracks.

For Splicing "L" Material Belts:

- | After switching on the press, wait for both the top and bottom platens to heat to 180°C.
- | When cutting the belt to the finger pattern, cut away any protruding Aramid fibers. Do not attempt to drill out the ends of these fibers into the belt surface.
- | Place belt in position on heated area. Do not leave for any length of time without continuing the operation.
- | Place an appropriate silicone pad across the top side of the belt in order to preserve the original belt surface (smooth or textured) as far as is possible.
- | Apply 2 Bar of pressure for 4 minutes.
- | Wait for the belt to cool down in the press (approx. 15 minutes) and then release.

For Splicing "M-LT" Material Belts

- | After switching on the press, wait for both platens to heat to 180°C.
- | When cutting the belt to the finger pattern, cut away any protruding Aramid fibers. Do not attempt to drill out the ends of these fibers into the belt surface.
- | Place belt in position on heated area. Do not leave for any length of time without continuing the operation.
- | Place an appropriate silicone pad across the top side of the belt in order to preserve the original belt surface (smooth or textured) as far as is possible.
- | Apply 2.5 Bar of pressure for 6 or 7 minutes.
- | Wait for the belt to cool down in the press (approx. 20 minutes) and then release.

Benefits:

- ✓ Reinforced belts with no fabric exposed
- ✓ No fraying, no delamination
- ✓ Eliminate contaminated reinforced fabric which is difficult to clean
- ✓ Fully extruded
- ✓ Food approved
- ✓ Compatible with HACCP principles
- ✓ Permits versatile applications such as soft base belts on small pulley diameters
- ✓ Can replace reinforced belts in wet applications where the sealed reinforcement hinders contamination and in bakery applications using flour
- ✓ High resistance to oils, fats and hydrolysis

