volta™
Belting Technology

The Next Step
in **Belting**



Small Pulleys, Big Performance

Conveying Solutions

Precision & Performance

Designed with OEMs and integrators in mind, we have developed a range of conveyor belts with excellent shape-memory and with no stressed belt joint, suited to small pulley diameters and thereby reducing product damage and waste.

Volta offers tested and certified food grade belts for all food processing needs and allows for true compliance with HACCP principles.

All our belts are made of high-quality abrasion- and chemical-resistant TPE.

Two distinct product lines offer solutions both for rigorous washdown regimes where conventional PU and PVC belts quickly turn into breeding grounds for pathogens, and a second option with low friction undersides for lower risk applications and packaging lines.

Small Pulley Conveyor Belts - Engineered for Tight Transfers

Engineered for small pulley diameters, the conveyor belt enable smooth, controlled product movement and reliable transfers between conveyors.

The range of materials, colors, top- and bottom textures was specially developed based on customer requests.



Top Side: Smooth



Bottom side: Embossed

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FELB	Blue		1.6	10	3/8	0.32	1.79
			2	12	½	0.40	2.24
			3	20	13/16	0.60	3.36
FELB	Blue 02		1.6	10	3/8	0.32	1.79
			2	12	½	0.40	2.24
FELW	White 16		1.6	10	3/8	0.32	1.79
			2	12	½	0.40	2.24
			2.5	15	19/32	0.50	2.80
			3	20	13/16	0.60	3.36
FETB	Blue 10		1.6	10	3/8	0.29	1.6
			2	13	1/2	0.36	2
			3	19	3/4	0.55	3





Top Side: Smooth



Bottom side: Reinforced

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FRLB	Blue		2	10	3/8	5	28
FRLW	White 16		1.6	8	5/16	4	22
			2	10	3/8	5	28
			3	18	11/16	7.50	42
FRTB*	Blue 10		1.6	8	5/16	2.60	14.90

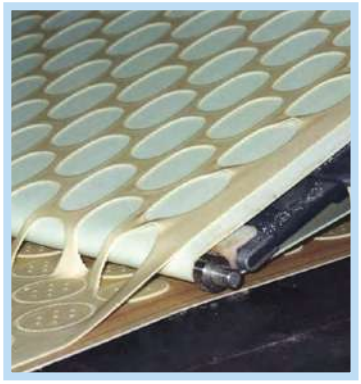
*Pull force calculated with Finger Splice



Top Side: ITS-70
Impression Top Square Texture

Bottom side: Embossed

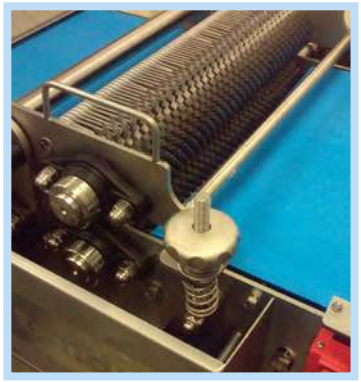
Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FELB-ITS70	Blue		1.6	10	3/8	0.24	1.40
			2	12	1/2	0.30	1.74



Top Side: ITD-60
Impression Top Diamond Texture

Bottom side: Smooth (FLB) / Embossed (FELB)

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FLB-ITD60	Blue 02		2	12	1/2	0.46	2.58
FELB-ITD60	Blue 02		1.8	11	7/16	0.3	1.68



Top Side: ITO-50
Impression Top Oval Texture

Bottom side: Embossed

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FELB -ITO50	Blue		2*	12	1/2	0.32	1.87
			2.5	15	9/16	0.40	2.24
			3	18	11/16	0.50	2.80
FELB -ITO50	Blue 02		3	18	11/16	0.50	2.80

*Not standard. Please contact Volta Belting representative for additional information.



Top Side: ITP
Impression Top Fine Points Texture

Bottom side: Embossed

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FELB-ITP	Blue 02		2	12	1/2	0.40	2.24

Textured Side: ITD60
Impression Top Diamond Texture

Textured side: ITS70
Impression Top Square Texture

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FLB-ITS70-ITD60	Blue 02		2	12	1/2	0.50	2.80



Top Side: SP
Spikes Texture

Bottom side: Embossed

Product & Color			Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 1% Pretension	
			mm	mm	Inch	kg/cm	Lbs/in
FELB-SP	Blue		2	20	13/16	0.40	2.24

NEW

New Elastic Belt

A butt-welded 1mm thick belt that performs where the competition fails—on small pulley diameters and in tight conveyor configurations. The thin, flexible construction enables smooth, reliable product transfers between lines or a transfer of sliced products without misalignment.

With a minimum pulley requirement of 7mm, the belt can be assembled endlessly in place with up to 6% pretension ensuring good grip on rollers and less drag on the under surface. The matt top surface provides good release properties for humid foodstuffs and is washable without absorbing cleaning chemicals and food residue. It resists the formation of colonies of food-borne pathogens.

Can be used for food contact; it is accurate on check-weighers and excellent for narrow belt arrays on slicers.



Belt Type	Color	Max. pretension%	Thickness	Minimum Pulley Diameter (MPD)
FELB-ITM2	Blue 02	6	1	7

The material can be welded on site or in a workshop and then assembled even on a conveyor not having a tensioning device, thanks to its elasticity.

ACR belts come into their own where long conveyors with relatively small pulleys are needed. They fit a niche between the smaller conveyors suited to soft, thin belts and the more robust applications where Volta's classic monolithic washdown belts such as FEMB are used to replace friction-driven fabric PU belts. They are suited to high-risk zones and applications.

Aramid Cord Reinforced Flat Belts

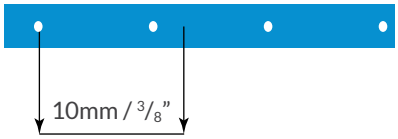
A food grade flat belt with special tensioning members fully sealed in a dense homogeneous material which has been tested for durability. Used, where heavy or unevenly loaded products are carried. The Volta code for this Aramid cord reinforcement is ACR and the splicing method advised is a finger splice.



Top Side: Smooth



Bottom side: Embossed



Product & Color		Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 0.2% Pretension	
		mm	mm	Inch	kg/cm	Lbs/in
FELB- ACR	Blue	2.5	20	13/16	4	22.40



Top Side: ITO50
Impression Top Oval Texture



Bottom side: Embossed



Product & Color		Thickness	Minimum Pulley Diameter (MPD)		Pull Force: 0.2% Pretension	
		mm	mm	Inch	kg/cm	Lbs/in
FELB-ACR -ITO50	Blue	2.5	20	13/16	4	22.40
FELB-ACR -ITO50	Blue 02	2.5	20	13/16	4	22.40

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.

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