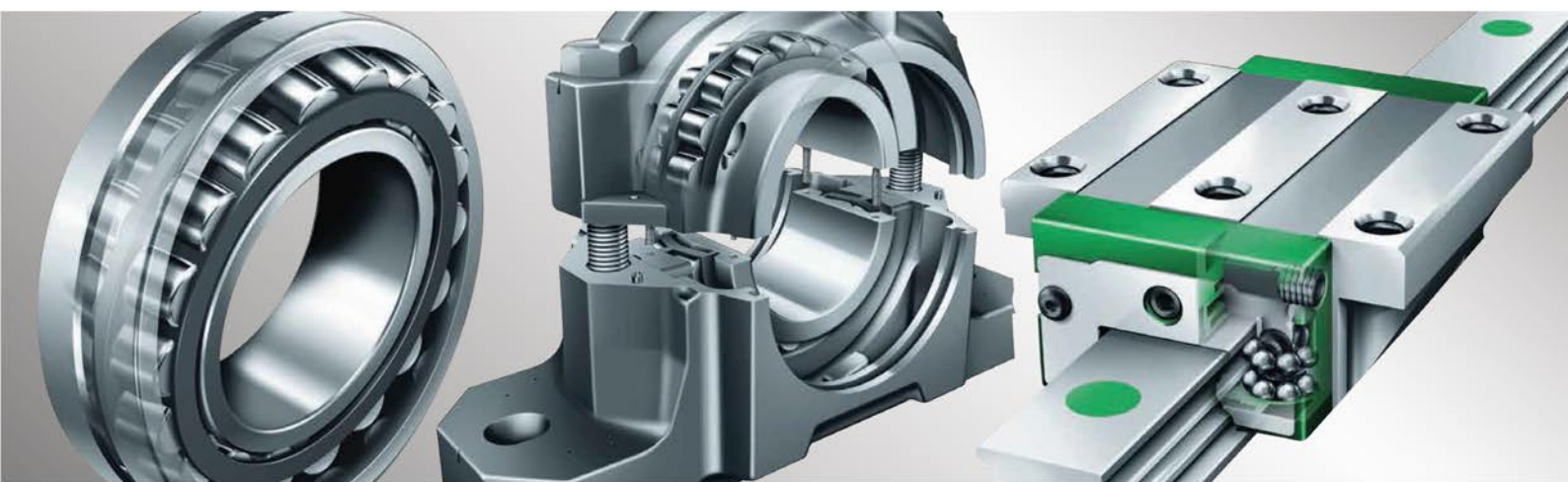


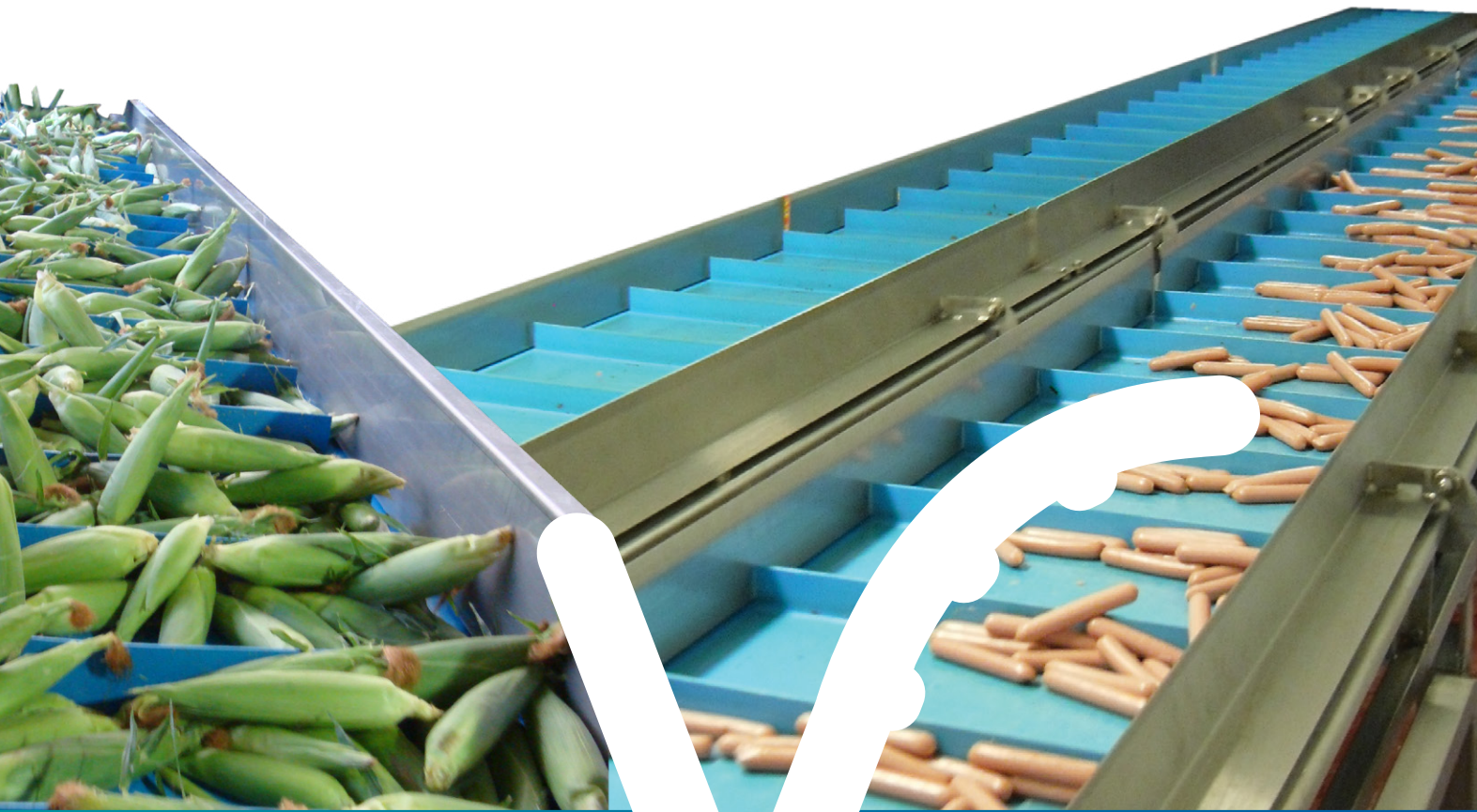
## CORREIAS PLANAS PARA A INDÚSTRIA ALIMENTAR



**PRODUTO - SERVIÇO - ENGENHARIA**



The Next Step in Belting



Flat Belts  
Food Industry  
Conveying Solutions

# Flat Belts for the Food Industry

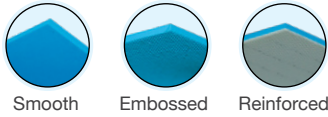
- Volta has been manufacturing belts from homogenous Thermoplastic Elastomer (TPE) materials for over 50 years.
- The base belts are cut and abrasion resistant and have no ply or hinged elements which harbor bacteria.
- Volta products are the optimal choice where superior hygiene, conveying and cost 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	
FHB	Blue16	59D	-20° C to 75° C -5° F to 170° F	0.28	1*	34	1 3/8	1	5.60	FDA/USDA /EU
FHB	Blue13**				1.5	50	2	1.50	8.40	
FHW	off white				2	70	2 3/4	2	11.20	
					2.5**	80	3 1/8	2.50	14.00	
					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	0.36	2	30	1 3/16	1.20	6.80	FDA/USDA /EU
FMB	Blue 02**				2.5	35	1 3/8	1.50	8.40	
FMW	Beige				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	
					7	105	4 1/3	4.20	23.80	
8	120	4 1/2	4.80	27.20						
FMWC	Clear	2.5	17	21/32	0.30	1.80	FDA/EU			
FLB	Blue	80A	-40° C to 50° C/ -40° F to 120° F	0.55	3	20		3/4	0.40	2.20
					4	30		1 3/16	0.60	3.40
FTB	Blue10	72A	-40° C to 40° C -40° F to 104° F	1.25	2.5	16	5/8	0.475	2.66	FDA/ EU
					3	19	3/4	0.57	3.2	
Low Temperature (LT) Homogeneous Belts										
FMB-LT	Blue15	95A/46D	-35° C to 65° C -31° F to 149° F	0.36	2	30	1 3/16	0.80	4.40	FDA/ EU
					3	40	1 5/8	1.20	6.70	
					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 & X-Ray Detectable (MD) Homogeneous Belts										
FMB-MD	Blue 09	95A	-20° C to 60° C -5° F to 140° F	0.50	2	50	2	1.20	6.8	FDA/ EU
					3	75	3	1.80	10.1	
					4	100	4	2.40	13.5	
					6	150	6	3.60	20.25	
FLB-MD	Blue 09	80A	-25° C to 50° C -13° F to 120° F	1.4	2	20	3/4	1.9	10.6	

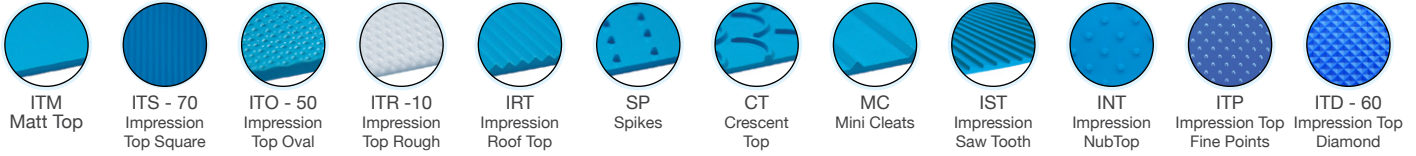
Standard belt width = 1524mm (60"). Some of the belts are also available in 2032mm (80") width. Please contact Volta Belting representative for additional information.

- Note:**
- \* Not standard.
  - \*\* FHB-Blue13 – available in 4mm only. 2.5mm available only in FHW-Off White. FMB-Blue02-available in 8mm only
  - \*\*\* FLB-2-MD-Blue09 – Coefficient of Friction refers to the Matt surface(side) of the belt. The COF of the Shiny side on Stainless Steel = 2.2.

## Flat Belt Bottom Surfaces



## Flat Belt Impression Top Surfaces



Homogeneous Embossed Bottom 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	
FEHB	Blue 16	59D	-20° C to 75°C -5° F to 170°F	0.20	3***	90	3 9/16	3	16.80	FDA/USDA /EU
FEHW	Off White				4	110	4 3/8	4	22.40	
FEMB	Blue	95A/46D	-30° C to 70°C -20° F to 158°F	0.25	1.6***	24	1 3/16	0.60	3.60	FDA/USDA /EU
FEMB***	Blue 02				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	
FEMW	Beige	5***	80	3 1/8	2.10	11.70				
FEMB-MD**	Blue 09	95A	-20° C to 60°C -5° F to 140°F	0.25	2	50	2	0.80	4.5	FDA/EU
					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	FDA/EU
FELB***	Blue 02				2	12	1/2	0.40	2.24	
					2.5***	15	9/16	0.50	2.80	
					3	20	1 3/16	0.60	3.36	
FELW	White 16									
FETB	Blue 10	72A	40°C to 40°C -40°F to 104°F	1	1.6	10	3/8	0.29	1.6	FDA/ EU
					2	13	1/2	0.36	2	
					3	19	3/4	0.55	3	
Reinforced Belts										
FRMB	Blue	95A/46D	-30° C to 70°C -20° F to 158°F	0.20	2	25	1	6	33.50	FDA/USDA /EU
FRMW	Beige				3	35	1 3/8	7	39	
				0.20	2	25	1	6	33.50	
					2.5	30	1 3/16	6.50	36.20	
FRLB	Blue	80A	-40° C to 50°C -40° F to 120°F	0.20	3	35	1 3/8	7	39	FDA/ EU
					4	70	2 3/4	7.5	42	
FRLW	White 16			0.20	1.6	8	5/16	4	22	
					2	10	3/8	5	28	
		0.20	1.6	8	5/16	4	22			
FRTB*	Blue 10	72A	-40°C to 40°C -40°F to 104°F	0.20	2	10	3/8	5	28	FDA/ EU
					2.5	15	9/16	6.20	35	
					3	18	11/16	7.50	42	
					1.6	8	5/16	2.60	14.90	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.

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

\*\*FEMB-MD-Blue09-Metal & X-Ray Detectable belt.

\*\*\* 3mm available in FEHB-Blue16 only, 2.5mm available in FEMB-Blue02 only, 5mm available in FEMW-Beige and FEMB-Blue only. FELB-Blue02 available in 1.6mm and 2mm only.

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		
ITM	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	
ITS70	FELB- ITS70	Blue		80A	-40°C to 50°C -40°F to 120°F	0.45	1.6	10	3/8	0.24	1.40	FDA/EU	
							2	12	1/2	0.30	1.74		
							3	18	3/4	0.45	2.60		
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	
	FELB - ITO50	Blue 02					2.5	15	9/16	0.40	2.32		
	FELW - ITO50	White16					3	18	11/16	0.50	2.80		
	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					0.25	2	30	1 3/16	0.60	3.36	FDA/USDA /EU
	FEMW - ITO50	Beige						2.5	35	1 3/16	0.74	4.20	
								3	40	1 15/8	0.94	5.26	
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			
						5	125	5	1.8	10.1			
ITR10	FELW - ITR10	White16		80A	-40°C to 50°C -40°F to 120°F	0.45	3	18	11/16	0.52	2.94	FDA/ EU	
							4	25	1	0.70	3.92		
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/EU	
	FEMB - IRT	Blue		95A/46D	-30°C to 70°C -20°F to 158°	0.25	3.5	40	1 9/16	1	5.60	FDA/USDA /EU	
Spikes*	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/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	
	FEMW - SP	Beige					2.5	45	1 3/4	1	5.60		
							3	50	2	1.20	6.80		
ITP	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	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					3	60	2 3/8	1.20	6.75		
	FEMW - CT	Beige					2.5	50	2	1	5.60		
	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	
	FELW - MC	White16					0.45	2.5	40	1 5/8	0.50	2.80	FDA/EU
								3	50	2	0.60	3.40	
	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:** \* Spikes -Height of Spikes above base belt is 2.8mm.FELB-2-ITO50-not standard.  
 \*\* FELB-IST - Base - 2mm; total belt height 4mm.FEMB-ITM-LT - Min.Pulley diameter for temperature ≥ 5°C/41°F.  
 \*\*\*FEMB-ITO50-MD & FEMB-CT-MD-Blue09-Metal & X-Ray Detectable belts.FELB-ITO50-Blue02 available [www.voltabelting.com](http://www.voltabelting.com) in 3mm only. 5mm available in FEMB-ITO50&FELB-ITO50 only.FELB-ITR10-Blue02-not standard, available in 4mm only.

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 1/4	4.10	24	FDA/USDA /EU	
						3	36	1 7/16	4.30	25.20		
FRMW - ITO50	Beige		95A/46D	30° C to 70° C -20° F to 158°	0.20	2.5	32	1 1/4	4.10	24		
						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					2.5	15	9/16	3.20	18		
						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		
FRLB - ITS70	Blue					1.6	8	5/16	4	22		
						2	10	3/8	5	28		

### 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.



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	
						3	30	1 1/4	2.80	15.60		
FRLW - CEB - B	White 16				0.30	2	19	3/4	2.20	12.40	FDA/EU	
						3	30	1 1/4	2.80	15.60		
FRLW - CEB - C	White 16				0.30	3	30	1 1/4	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 5/8	3.50	19.6060	FDA/USDA /EU	
						0.30	3	40	1 5/8	6.80		38
FRMB - CB	Blue				0.45	3	40	1 5/8	7.20	40		
FRMW - CEB - C	Beige				0.30	3	40	1 5/8	6.80	38		
FRMB-CEBB-HMC***	Blue				0.30	3	120	4 7/8	5	28		
FRMB-CEBB-MC	Blue				0.30	3	85	3 3/8	4.80	26.80		
FRLB-CEBB-B-ITO50	Blue		80A	-40° C to 50° C -40° F to 120° F	0.30	2.5	15	9/16	3.50	18	FDA/EU	

Belt Coating Materials for the Food Industry							
Products	GIB-Bllue17	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	2/2.5/3/4	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

## 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 such as 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	80A	-40°C to 50°C -40°F to 120°F	0.45	4*	35	1.38	4.2	23.40	FDA/EU
FELB-ACR-SP	Blue	80A	-40°C to 50°C -40°F to 120°F	0.45	2.5	35	1.38	4	22.40	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

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:** \*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

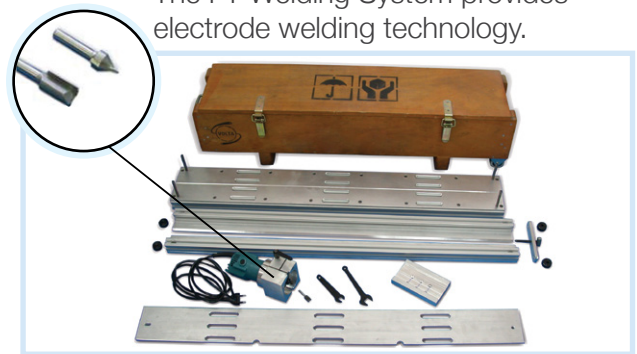
### FBW - Flat Butt Welding System

The FBW System performs a butt-weld merging belts edge to edge.



### FT - Electrode Welding System

The FT Welding System provides electrode welding technology.



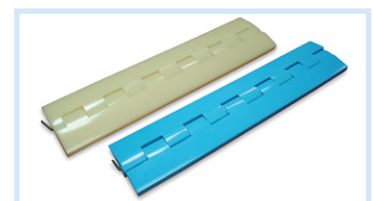
## Volta Hinge Lace Systems

Both Volta Universal Lace and Volta Roundflex™ Lace are 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.

RoundFlex™ Lace



Universal Lace



**volta**™  
Belting Technology

CORPORATE  
HEADQUARTERS  
Sales and Manufacturing  
sales@voltabelting.com

USA  
Tel. +1 973 276 7905  
Toll Free. 1-877-VOLTAUS  
voltaus@voltabelting.com

EUROPE  
Tel. +31 546 580166  
voltaeu@voltabelting.com

www.voltabelting.com

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### Sede

R. António Silva Marinho, 66  
4100-063 Porto | Portugal  
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Fax +351 226 197 361  
vendasporto@juncor.pt

### Filial - Montijo Comércio e Indústria

(Arm. 13/15)  
EN 5 Pau Queimado - Afonseiro  
2870-500 Montijo | Portugal  
Tel +351 212 306 030  
Fax +351 212 306 031  
vendaslisboa@juncor.pt



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