

Volta's new spiral core winding belts offer maximum winding precision for cardboard and paper spiral tube manufacturing. These belts give precise results, reducing waste and increasing tube quality, Volta belts have a durable surface to ensure consistent grip and movement of materials being processed. All belts are truly endless and can be made to exact dimensional tolerances to provide a tight wrap on mandrels.

## Belt Construction:

- Lower layer - polyurethane 80A or 72A hardness
- Reinforcement - polyester cord
- Upper layer - polyurethane 80A or 72A hardness

## Polyurethane Upper (or Lower) Layer:

Polyurethane 80A or 72A Shore hardness.

Advantages of polyurethane upper (or lower) layer:

- High abrasion / friction resistance
- Excellent coefficient of friction
- New 72A Shore for improved higher grip

## Pre-Twist

Volta offers belts with a pre-twist incorporated in the belt construction. The pre-twist offers smoother wrap around the tube with less stress on the tension members in the belt. The pre-twist direction should be defined according to the winding direction of the tube production process. Refer to Figure 1.

- Pre-twist with **one wrap** is used for the common practice of **one wrap around the tube**.
  - Pre-twist with a double wrap is used to wind the belt **twice around the tube**.
- The two full wraps offer a higher grip and are generally used for thicker tube walls.

## Advantages:

- Truly endless
- Any Length from minimum 960mm/37.8"
- Pre-twist for improved performance
- Double Pre-twist for tube double wrap
- High breaking strength
- Low stretching

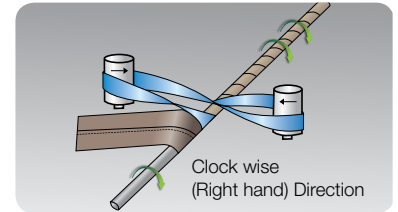
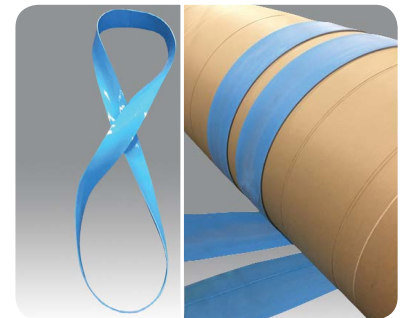








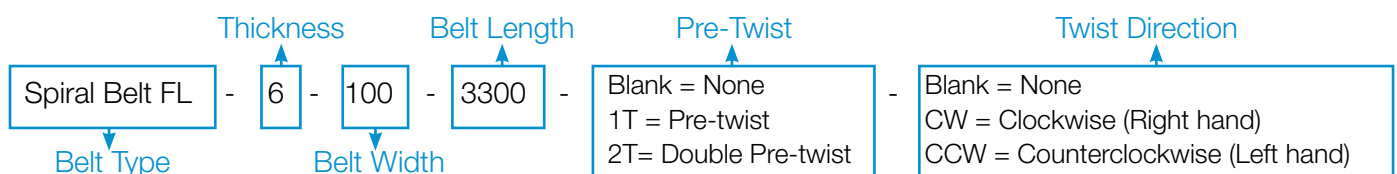
Figure 1



Double Pre-Twist

Belt type	Color	Thickness	Shore	Mandrel Diameter		Tensile Strength		Minimum Cardboard Tube Diameter		Cardboard Tube Thickness
						N/cm width	LBS/inch width			
Tube Winding Belt FLB	LB - 	4 mm	80A	50-120 mm	2"-4 3/4"	3250	1853	30 mm	1 1/6"	2-8 mm
Tube Winding Belt FL	L - 	6 mm	80A	> 70 mm	2 3/4"	5830	3324	70 mm	2 3/4"	> 4 mm
Tube Winding Belt FLB	LB - 	8 mm	80A	> 70 mm	2 3/4"	5830	3324	76 mm	3"	> 4 mm
Tube Winding Belt FTB	TB - 	4 mm	72A	50-120 mm	2"-4 3/4"	3250	1853	25 mm	1"	2-8 mm
Tube Winding Belt FTB	TB - 	6 mm	72A	> 70 mm	2 3/4"	5830	3324	70 mm	2 3/4"	> 4 mm
Tube Winding Belt FTB	TB - 	8 mm	72A	> 70 mm	2 3/4"	5830	3324	70 mm	2 3/4"	> 4 mm

**When ordering a Volta Tube Winding belt please use the information as below:**



Example: Spiral belt FLB - 4- 100x3300 - 1T - CW (Spiral belt FLB - 4- 100x3300 - Pre-Twist - Clockwise)  
Spiral belt FLB - 4- 4"x130" - 1T - CW (Spiral belt FLB - 4- 4"x130" - Pre-twist - Clockwise)

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