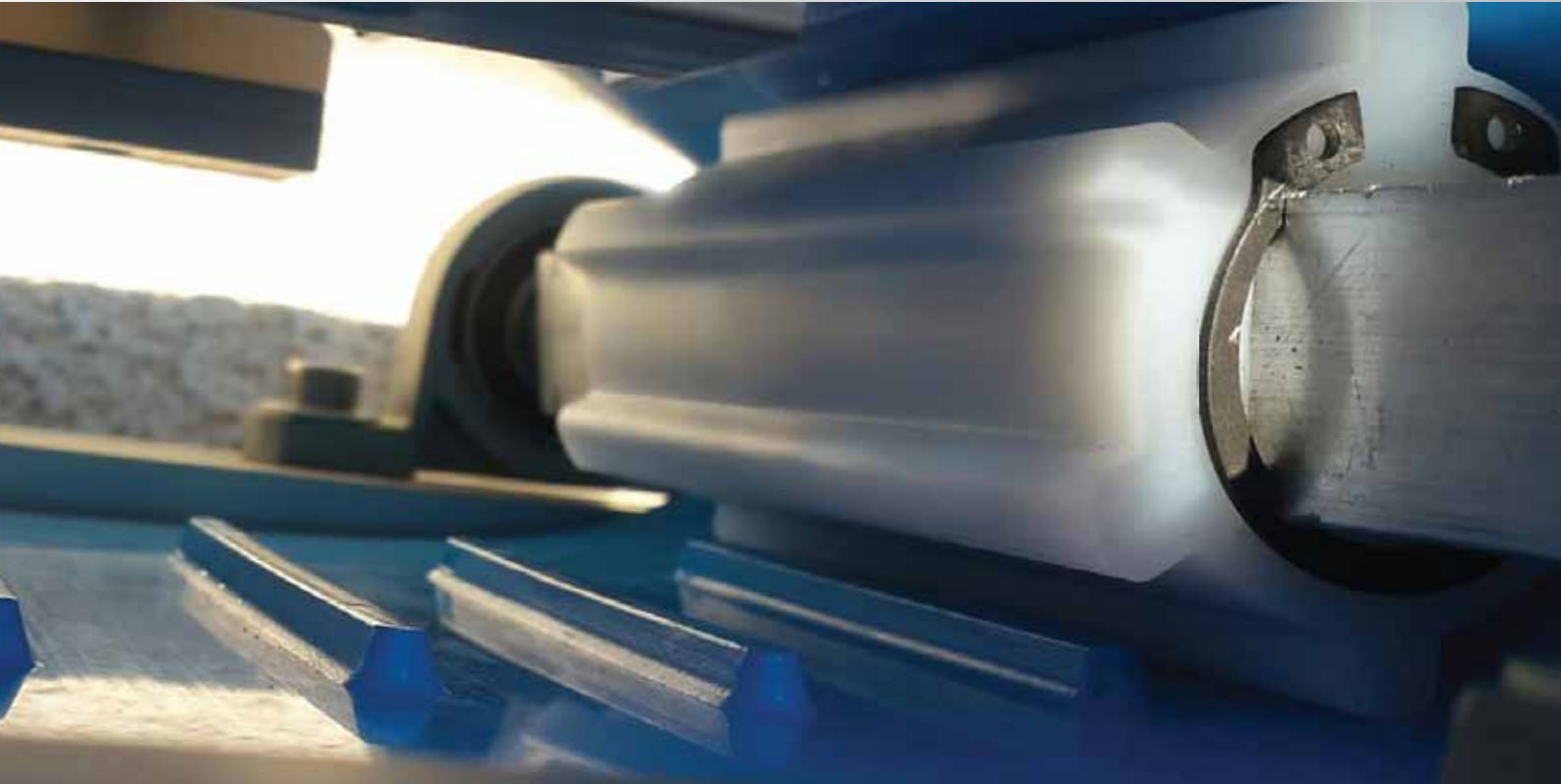


Conveyor  
**Viking**



Conveying Solutions

Mini Positive Drive Line



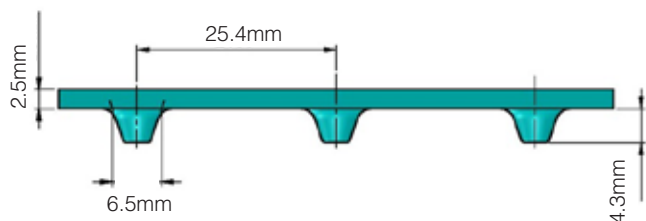
*The Next Step in Belting*

The new Mini series of Positive Drive products from Volta are designed to suit wet and dry applications in the food industry. We offer a solution to replace friction-driven and modular belts. The Mini range permits relatively small pulley sizes to facilitate tight transfer of products.

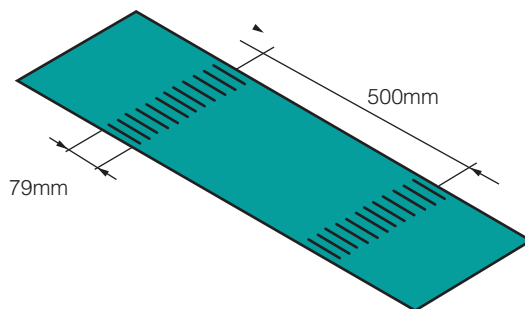
## Mini SuperDrive™

The only trackable Mini Positive Drive product.

The MiniSD™ design is similar to the world leader, Super Drive™; scaled down for a smaller minimum pulley. Extruded from unique 53D Shore LTS material for enhanced hydrolytic and chemical resistance.



Base Belt Thickness=2.5mm  
 Pitch Between Teeth = 25.4mm/1"  
 Tooth Height= 4.3mm  
 Tooth Base = 6.5mm  
 Tooth Width= 79mm/3.11"  
 Distance Between Teeth Rows, Center to Center = 500 mm/20"

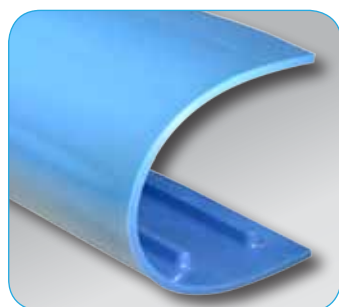


| Product:                               | FMB-2.5-MSD-LTS                   | FMB-2.5-MSD-ITO50-LTS |
|--|-----------------------------------|-----------------------|
| Working Surface                        |                                   |                       |
| Belt Thickness (mm):                   | 2.5                               |                       |
| Max Pull Force (kg/cm width)           | 3 kg/ cm width – 16.8 lb/in width |                       |
| Belt Min Pulley Diameter (Normal Flex) | 48 mm / 1.89"                     |                       |
| Belt Min Pulley Diameter (Back Flex)   | 65 mm / 2.56"                     |                       |
| Standard Belt Width                    | 1200 mm/47.24"; 1000 mm/39.37"    |                       |

## MiniSD™ Pulleys

| Number of Teeth       | 6    |      | 8    |      | 10   |      | 12   |      |
|-----------------------|------|------|------|------|------|------|------|------|
|                       | mm   | inch | mm   | inch | mm   | inch | mm   | inch |
| Pulley Outer Diameter | 48   | 1.89 | 65   | 2.56 | 80   | 3.15 | 96.5 | 3.8  |
| Belt Pitch Diameter   | 50.5 | 1.98 | 67.5 | 2.65 | 82.5 | 3.24 | 99   | 3.89 |

Note: Standard Pulley Width - Drive Pulley - 100mm / 4" ; Tail Pulley - 150mm / 6" ; Support Pulley - 50mm / 2".



MiniSD™ belt



Tail Pulley



Drive Pulley



Support Pulley

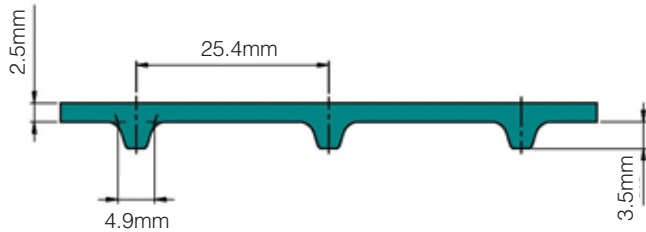
- Ensure a maximum gap of 1/4" between belt teeth and conveyor bed guide strips (a shorter conveyor can be fitted with a higher standard accuracy).
- Use Support Pulleys every 3"- 4" (75-100mm) between centers, according to the load.

## Mini DualDrive™



A scaled-down version of the original DualDrive™ tooth geometry.

FMB-2.5 MDD –Homogeneous 95A Shore extrusion with high pull force for heavier loads.

FMB-2.5 MDD LTS –Extruded from 53D Shore LTS material for enhanced hydrolytic and chemical resistance.

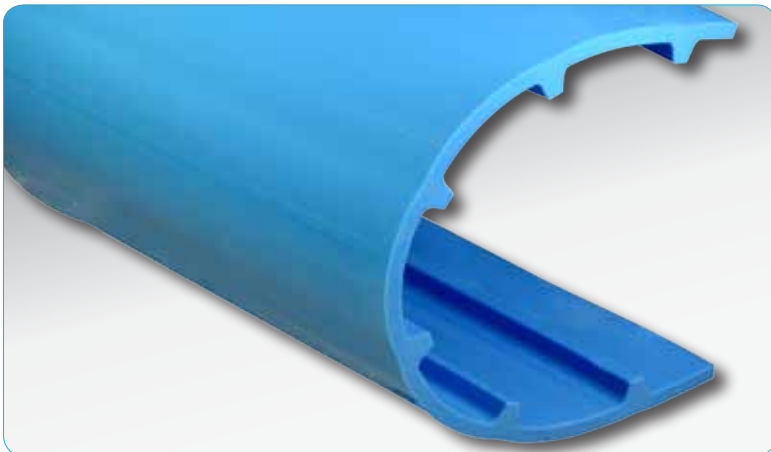


Base Belt Thickness=2.5mm  
 Tooth Height= 3.5mm  
 Total Belt Height= 6mm  
 Tooth Base= 4.9mm  
 Pitch Between Teeth : 25.4mm/1"

| Product:                               | FMB-2.5-MDD  | FMB-2.5-MDD-LTS   |
|--|--|---|
| Working Surface                        |  |  |
| Belt Thickness (mm):                   | 2.5  | 2.5   |
| Max Pull Force (kg/cm width)           | 4.5 kg/ cm width-25.2 lb/in width  | 3 kg/ cm width-16.8 lb/in width   |
| Belt Min Pulley Diameter (Normal Flex) | 48 mm / 1.89"  | 48 mm / 1.89"   |
| Belt Min Pulley Diameter (Back Flex)   | 65 mm / 2.56"  | 65 mm / 2.56"   |
| Standard Belt Width                    | 2032 mm / 80"  | 2032 mm / 80"   |

## MiniIDD™ Sprockets

| Number of Teeth         | 6    |      | 8    |      | 10   |      | 12   |      |
|-------------------------|------|------|------|------|------|------|------|------|
|                         | mm   | inch | mm   | inch | mm   | inch | mm   | inch |
| Measurement             |      |      |      |      |      |      |      |      |
| Sprocket Outer Diameter | 48   | 1.89 | 65   | 2.56 | 80   | 3.15 | 96.5 | 3.8  |
| Belt Pitch Diameter     | 50.5 | 1.98 | 67.5 | 2.65 | 82.5 | 3.24 | 99   | 3.89 |
| Sprocket Width          | 25   | 1    | 25   | 1    | 25   | 1    | 25   | 1    |



MiniIDD™ belt



MDD Sprocket

- Use Volta Drive Pulley and Tail Pulley every 3" - 4" (75-100mm) between centers, according to the load.
- Smooth Sprockets / rollers may be used on the tail side when pulley diameter is larger than 3" / 76mm

## Welding the MiniSD™ and MiniDD™ with Adapter and FBW Tool

To ensure an accurate and efficient weld of MiniSD™ and MiniDD™ belts choose the Adapter suitable to your FBW tool .

The PD 1" adapter is dedicated for welding both belts.



## Recommended Conveyor Structure:

- A slide bed made from longitudinal UHMW strips ensures minimal friction between the belt and the support
- Support rollers on the return side (slack side)
- Use only Volta Pulleys
- Maximum distance between the belt edge and the outermost UHMW strip: 50mm / 2".
- A take-up device and snub roller are recommended

## Mini SuperDrive™ & Mini DualDrive™ Advantages

- Fully hygienic solution for tight transfer applications.
- Enhanced resistance to a large range of applications
- Small pitch system to allow fabrications.
- Fully homogeneous – allows simple butt welding with dedicated Volta 1" pitch adaptors and can be done on site with existing Volta FBW welding tools.
- No complex additional mechanisms on the conveyor. Enables the design of total hygienic systems with belt and conveyor designed for lowest levels of contamination and fast, cost-saving wash downs.
- MiniSD™ eliminates off-tracking with no excessive containment needed. Reduces belt and conveyor wear even where side loading is needed.
- The MiniDD™ and MiniSD™ configurations are available with dedicated drive sprockets and pulleys in a range of diameters.

Conveyor  
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