



# Power Transmission Line



The Next Step in Belting

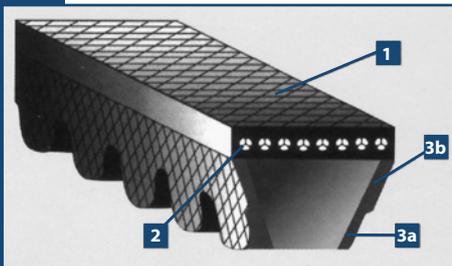


## Power Transmission

**A**fter a long research and development process, our highly experienced and professional engineering team developed a unique technique to manufacture power transmission V-belts using thermoplastics rather than rubber. With this new technique, Volta has the ability to manufacture any standard cross-section in any length and, at the same time, meet your special requirements.

While the computerized production process provides excellent length accuracy, the system also produces small quantities of standard and non-standard belts in a short-time frame. Therefore, there are no minimum quantity orders (in most belt types) and lengthy waits in order to accumulate sufficient orders to make the production cycle profitable.

We have the capability of adding to your Volta Power® belt a surface cover from our broad belt coatings line that guarantees a uniform and durable functionality.



- 1 Top Component**  
Profile extruded from TPR, heat-welded to link all components
- 2 Cord Component**  
Polyester and high strength adhesive cord layout is balanced
- 3a Base Component**  
Continuous high traction moulded cog made from TPR
- 3b** Abrasion resistance and high performance TPR

### Resistant to Water, Oil and Chemicals

Power transmission belts are constantly exposed to water, oils or chemicals in many industrial applications. This is a well-known fact in the industry and Volta Power® offers you the best solution on the market.

Our power transmission belts are manufactured using high quality materials that have proven to uniquely resist hydrolysis and exposure to oils and chemicals. Now you can have a belt that is extremely durable and highly resistant to fluids.

### Custom Profiles on Request

Not all machinery uses standard power transmission belt profiles. We offer unique profile shapes and dimensions to your specifications while supplying them in a short-time frame. Volta Belting is ready to help you with custom extrusions. Take advantage of our expertise and capabilities when designing a new machine - we can produce a power transmission belt specifically for your machinery.

### Short Delivery Time

We have devised a special system to manufacture most of our power transmission belts in a very short lead time while keeping to the highest standards for quality and reliability. We may manufacture small quantities of standard and non-standard belts at no time; thus, there is no need for a minimum quantity order. Another plus is that you may order any power transmission belt with virtually no length limitation.

## Power Transmission



### Environmental Friendly Components

Thermoplastic rubber combine with the performance properties of thermoset rubber and the ability to use thermoplastics processing equipment. No compounding is required. No vulcanization is necessary. TPR offers better quality and dimensional consistency and, unlike thermoset rubber, regrind can be recycled.

### Fully Operates in Low Temperatures

The special design and characteristics of Volta Power® Transmission belts ensure that the belt will not crack or break while smoothly operating in low temperature applications. Another plus is that our power transmission belts keep superior performance while efficiently operating in extremely cold conditions of up to -40° C.

### Availability of Private Labels/ Brands

Our unique state-of-the-art systems allow us to manufacture power transmission belt types as private labels and/or brands according to your special request and specifications.

We also offer propriety belt types with their own branding and part numbers to OEMs. This unique concept to Volta Power® expedites your production while producing optimum results for the expenditure.

## Volta Power® Transmission Belts Highlights

|                                    |  |
|------------------------------------|--|
| Resistant to Harsh Environment     | Volta Power® belts are highly resistant to chemicals, oils and extremely low temperatures.               |
| State-of-the-Art Technology        | Volta Power® excellent dimension accuracy is achieved by our patented computer controlled system.        |
| High Performace and Operating Life | Volta Power® belts are extremely resistant due to their TPR material characteristics and special design. |
| No Minimum Quantity Required       | Volta Power® technology allows us to manufacture these belts in small quantities at no time.             |



## Power Transmission



### Classical V-Belts

The range of Classical V-belts meets all relevant international standards (DIN 2215, BS3790, ISO4184).

| Sections |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|
| Z        | A  | B  | C  | 25 | D  | E  |
| ZX       | AX | BX | CX |    | DX | EX |



### Narrow V-Belts

The range of Narrow V-belts meets all relevant international standards (DIN 7753, BS3790, USA Standard RMA/MPTA, ISO 4184).

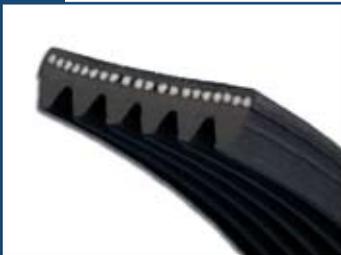
| Sections |     |         |     |     |
|----------|-----|---------|-----|-----|
| SPZ/3V   | SPA | SPB/5V  | SPC | 8V  |
| XPZ/3VX  | XPA | XPB/5VX | XPC | 8VX |



### Banded V-Belts

These belts combine molded, cogged V-belts under a single top. The banded belt construction is designed to handle large pulsating and shock loads found in compressors, internal combustion engines, stone crushers and similar machinery.

|           | 3V/<br>SPZ | SPA | 5V/<br>SPB | SPC | 8V | A/HA | B/HB | C/HC | D/HD | 3VX/<br>XPZ | XPA | 5VX/<br>XPB | XPC | 8VX | AX/<br>HAX | BX/<br>HBX | CX/<br>HCX | DX/<br>HDX |
|-----------|------------|-----|------------|-----|----|------|------|------|------|-------------|-----|-------------|-----|-----|------------|------------|------------|------------|
| max. ribs | 14         | 11  | 9          | 7   | 6  | 11   | 9    | 7    | 5    | 14          | 11  | 9           | 7   | 6   | 11         | 9          | 7          | 5          |



### Poly-V Belts

The poly-V provides smooth running, low noise operation at high speeds and small pulley diameters. This belt is excellent in serpentine applications. Volta Power® poly-V belts are available in either TPE or PU.

| Sections |    |    |
|----------|----|----|
| PJ       | PL | PM |



### Wide Angle Belts

The wide 60° angle provides more sidewall support under the tensile members for even load distribution and higher ratings.

Banded construction of wide angle belts minimizes or eliminates the "turnover" problem normally associated with small cross belts.

| Sections |     |
|----------|-----|
| 7M       | 11M |

## Special Products



### Hexagonal V-Belts

This belt provides excellent power transmission capabilities in serpentine applications.

| Sections |    |    |
|----------|----|----|
| AA       | BB | CC |



### Haul-off / Puller / Caterpillar Belts

Volta Power® Line has a wide range of Haul-off belts produced on either a flat or poly-V belt base depending on customer requirements. These belts exhibit superior performance and operating life due to exceptionally low wear features. Our unique production technology, combined with special PU materials allow us to provide unique customer specific belts with fast delivery times and no minimum order quantities. We have designed unique belts for plastic extrusion, rubber hose and wire production.



### Conveyor Belts

All V-belt conveyor sections are available with a standard flat top. The B and C sections can be ordered with a RidgeTop or SuperGrip cover.

Volta Power's line of conveyor products provides high load capacity.

| Sections |   |    |    |   |   |
|----------|---|----|----|---|---|
| A        | B | 19 | 20 | C | D |



### Volta Power® Specialty Bowling Belts

Volta Power® produces special belts for bowling equipment. These belts offer a long service life, reduced downtime and unplanned stops of the lanes.

#### Bowling belt line includes:

- Cross conveyor belt for pinsetter
- T-belt for ball retainer

We offer special belt lengths according to the customer's needs and/ or the different machine types. Our unique technology allows us to offer a solution to your special needs without a minimum quantity or long delivery time. Volta may manufacture power specialty belts for bowling machines using our unique Volta Power® technology.



Classical, narrow and banded black belts are available with antistatic characteristics.



## Volta Power® Wood Industry Products

The Volta Power® product line includes belts especially designed for the unique requirements of the wood processing industry. These belts are manufactured from unique materials, have a white color and special coatings to increase grip and eliminate marking of products. The belts are manufactured using our patented computer controlled machinery to ensure the highest quality and dimensional accuracy available on the market.

Volta white belts are available in classical sections as well as special dimensions and banded belts. These belts are available with a smooth, Soft top (PKR0 equivalent) or our Waffle top (PKR2 equivalent). All our belts exhibit excellent carrying capacity as well as a high resistance to abrasion, chemicals and oils; glues, paints and fluids, which ensure a long and reliable operating life.

**V**olta Power® belts such as the Special 2C, 50x20 and others can be supplied in any length of up to 70 meters, standard or non-standard, with no minimum quantities, and shipment within days of our receiving the order. No more suffering through 2-6 month lead times or having to maintain extensive and expensive inventories. **Volta Belting - delivers only when you need it.**

| Product Availability   | Characteristics  |
|--|--|
| <b>Classical Sections:</b><br>A, B, C, D   | <b>Volta white belts accommodate the wood industry requirements:</b> <ul style="list-style-type: none"> <li>■ <b>Non-marking</b> - the white color and special materials prevent marking of products during production</li> <li>■ <b>Resistant to abrasion</b> - are highly resistant to abrasion and cutting</li> <li>■ <b>Resistant to paints and glue</b> - prevents paint and glues from adhering to the surface</li> <li>■ <b>Dimensional accuracy</b> - Volta's patented manufacturing process guarantees dimensional accuracy and stability in all Volta Power® products. Length dimensions are so accurate that there is no need for matched sets</li> <li>■ <b>High grip</b> - the top cover, both smooth (PKR0 equivalent) and waffle top (PKR2 equivalent) provides excellent grip</li> </ul> |
| <b>Special Dimensions:</b><br>48x15<br>50x20   |  |
| <b>Special Banded Belts:</b><br>67x17 (Special 2-20)<br>70x17 (Special 2C)<br>75x17 (Special 2C) |  |

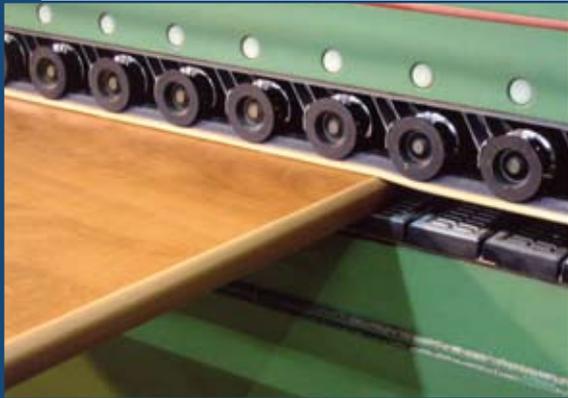


B with Waffle Top



Special 2C with Waffle Top

# Volta Power® Applications



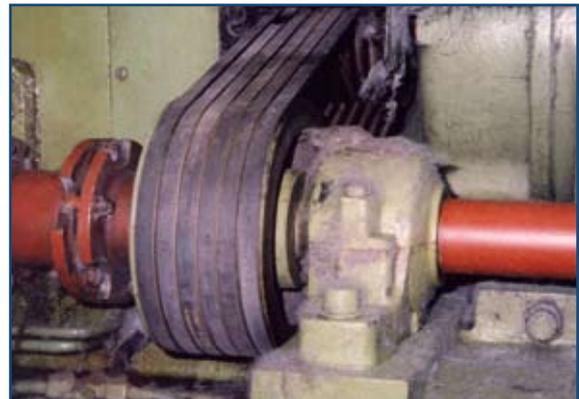
Wood Industry, Belt Type: SP - 2C



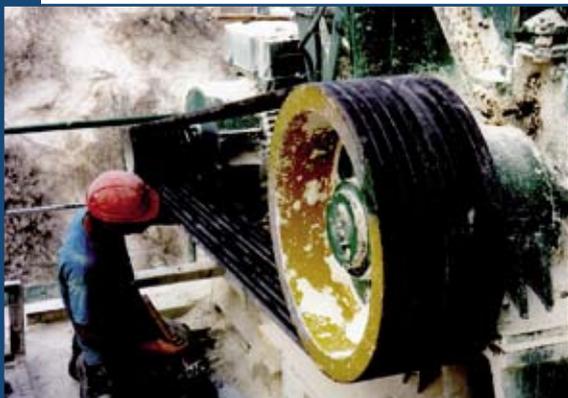
Belt Type: BX



Belt Type: SPC section



Belt Type: B section



Belt Type: 8V



Bowling, Belt Type: BLP

## Reasons to use Volta Power® Belts

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- Excellent resistance to oils, chemicals and water
- Highly resistant to the sun's UV radiation
- Superior performance in extremely cold operating conditions (-40° C)
- Belts available in any length and quantity without long lead time
- Non-standard lengths can be produced in days
- Computerized construction provides excellent length accuracy - there is no need to order matched sets
- There is no minimum quantity requirement for most Volta Power® belts



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