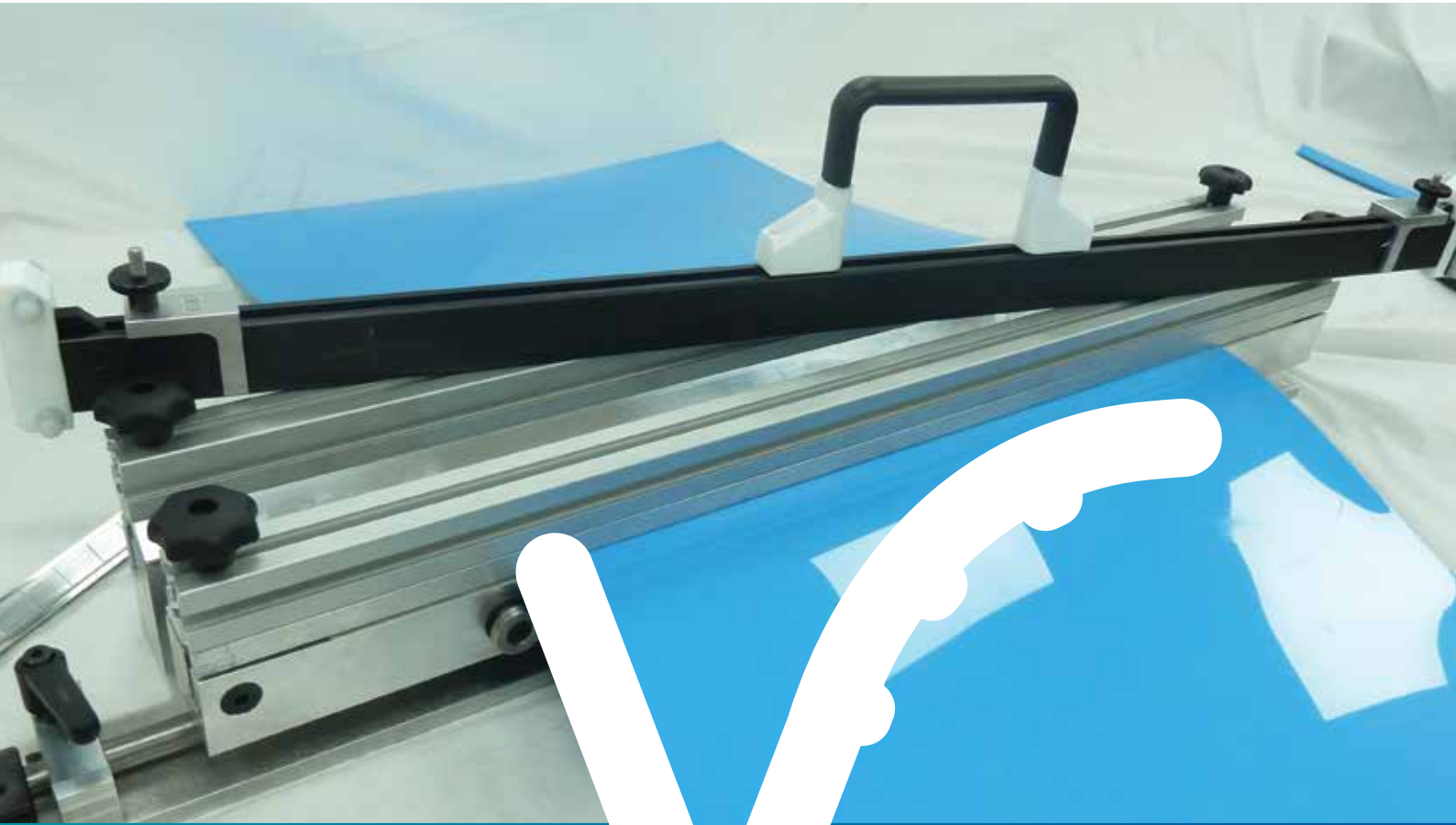




## The Next Step in Belting



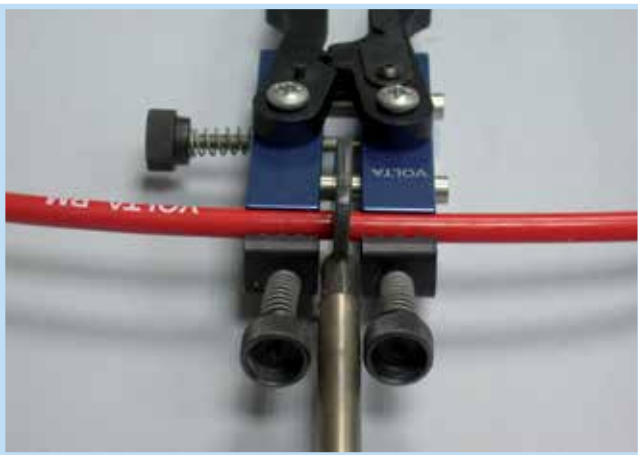
# Welding & Fabrication Tools

Conveying Solutions

## Welding & Fabrication Tools

✓ Volta Belting Technology has been manufacturing conveyor belting for over 50 years. The knowledge gained in those years of experience has gone into the design and assembly of every Volta belting tool. We have worked with belting houses in the shops and in the field to see how our tools would be used. We also checked the conditions experienced by conveyor belting technicians on-site.

✓ What we learned in the field has gone into the design of a full and very versatile line of belting tools. Whether you buy our tools separately or in kits, the result is always the same. Volta tools have a light-weight design so that each tool is compact, rugged and easy to use. Our tools will always provide you with long and reliable service. We design and manufacture custom-made tools to specification for your special belting requirements.



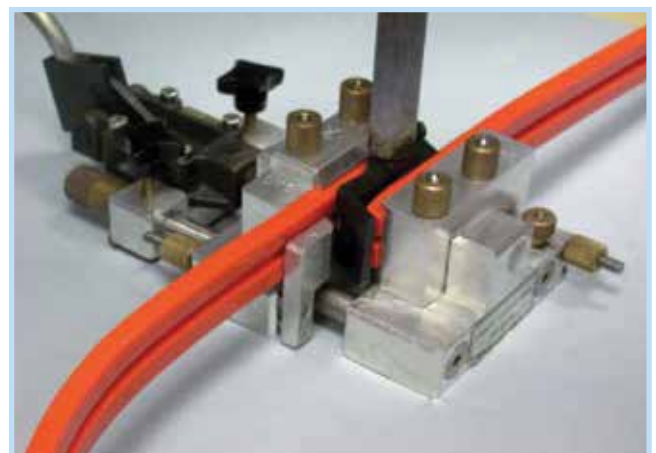
Mini Plier R-8



F-51 Pliers for standard 'V' and Round Profile



F-51 Pliers for special products



Easy Overlap Welding Tool

## Welding Tools for V and Round Profiles

### Pliers F-51

Cat. No. 8130201

- This versatile tool is ideal for welding a wide range of “V” and Round profiles: V-profiles from 8mm to 32mm. Round profiles with diameters from 2 mm ( $\frac{5}{64}$ ”) to 20mm ( $\frac{3}{4}$ ”). Flat belts with widths up to 50 mm (2”).
- The F-51 Pliers is used with our welders to produce clean and exceptionally strong welds.
- The F-51 Pliers are available as a separate unit and also as part of the VaR Tool Kit.



### Mini Pliers R-8

Cat. No. 8130202

### Handles for Mini Pliers R-8

Cat. No. 8130208

- For accurate welding of small profiles, use Volta Mini Pliers R-8.
- The Mini Pliers R-8 is a very versatile tool. You may weld round profiles with a maximum diameter of 10 mm ( $\frac{3}{8}$ ”) and “V” profiles up to section “A”.
- The Mini Pliers R-8 may be used with or without optional handles. The handles are easily mounted and are convenient and easy to use.
- The Mini Pliers R-8 are available as a separate unit and also as part of the Mini VaR Tool Kit.



### Driller D-11 Set

(Includes Driller and three bits: I, II, III)

Cat. No. 8151600

### Drill Bit I

Cat. No. 8151601

### Drill Bit II

Cat. No. 8151602

### Drill Bit III

Cat. No. 8151603

- The Driller is used for removing the reinforcing cord from the ends of reinforced VaR profiles before welding. The Driller is supplied with three standard bits.
- The technical data sheets for reinforced profiles include a column indicating which bit to use for each belt dimension.
- The Driller is available as a separate unit and also as part of the VaR Tool Kit and EZ Overlap Kit.



## VaR Tools

Belt cutter with replaceable blade	Cat. No. 81533010
Stanley Blade 1992	Cat. No. 1160030

- The Cutter is designed to provide a clean and accurate cut on all VaR and narrow flat belts. It can cut all belts up to 32mm.



Mini-Welder (110 V/40 W)	Cat. No. 8111110
Mini-Welder (230 V/40 W)	Cat. No. 8111220

- The Mini-Welder is used for welding "V" and Round profiles. Round profiles of up to 8 mm diameter and trapezoid of up to 13mm.
- The Mini-Welder is available as a separate unit and also as part of the Mini VaR Tool Kit.



	Welding Width	
Welder, Universal WU-1*	50 mm (2")	Cat. No. 8111203
Welder, Universal WU-2**		Cat. No. 8111204
Welder, W-141N-110V	100 mm (4")	Cat. No. 81113044N
Welder, W-142N-230V		Cat. No. 81113045N
Welder, W-241N-110V	200 mm (8")	Cat. No. 81113046N
Welder, W-242N-230V		Cat. No. 81113047N

\*supplied with 110 VAC plug

\*\* supplied with German 230 VAC plug

- These welders are designed for both shop and field use. The blade length of each welder is designed for use with specific Volta pliers. Refer to the Pliers section of this catalog to determine the correct welder for use with your pliers.
- These welders are available as a separate unit. The WU Welder is available as a separate unit and also as part of the VaR Tool Kit.



## VaR Tool Kits

VaR Tool Kit (110V)	Cat. No. 8160716
VaR Tool Kit (230V)	Cat. No. 8160715

The VaR Tool Kit is a plastic case with foam insert to hold a set of VaR welding tools. This provides a convenient method of storing and carrying your VaR Welding Tools.

The kit includes:

- F-51 Pliers
- WU Welder (110 or 230 V)
- D-11 Driller
- Belt Snippers

The F-51 Pliers make this kit the most versatile on the market with the capability of welding “V” and round profiles from 2 mm up to 32mm.



Mini VaR Tool Kit (110V)	Cat. No. 8160718
Mini VaR Tool Kit (230V)	Cat. No. 8160719

The Mini Var tool Kit combines all the tools necessary to weld small belts sections. Welds round profiles up to 10 mm (3/8") and “V” belts up to 13mm.

The kit includes:

- Tool case
- Mini pliers \*(shown with handles - optional extra)
- Mini welder and stand
- Mini snippers and trimmer

\* Handles for the pliers can be obtained separately.

For availability, contact your local Volta Belting distributor.



VaR Easy Overlap Welding Kit (110V)	Cat. No. 8140016
VaR Easy Overlap Welding Kit (230V)	Cat. No. 8140019

The VaR Easy Overlap Welding Kit provides easy, accurate and strong connections for Volta reinforced profiles. Dies are available to adapt the Pliers to receive most “V” and Round sizes, Ridge-Top, Super-Grip, Multi-Grip and Double-V.

The kit includes:

- Easy Overlap Pliers (dies not shown\*)
- Welder and Stand
- D-11 Driller
- Utility Knife
- Double-Sided Tape

\* The kit does not include dies. Order specific dies based on the belts size you intend to weld.





## Flat Belt Welding and Fabrication Tools

✓ High quality, reliability, as well as maximum flexibility are only some of the benefits you will receive when using our Flat Belt Welding and Fabrication Tools. Flat and Positive Drive conveyor belts range in widths from less than 50 mm (2") up to 2 meters (80"). We manufacture a variety of tools capable of welding a broad range of belts, both in the shop and the field.

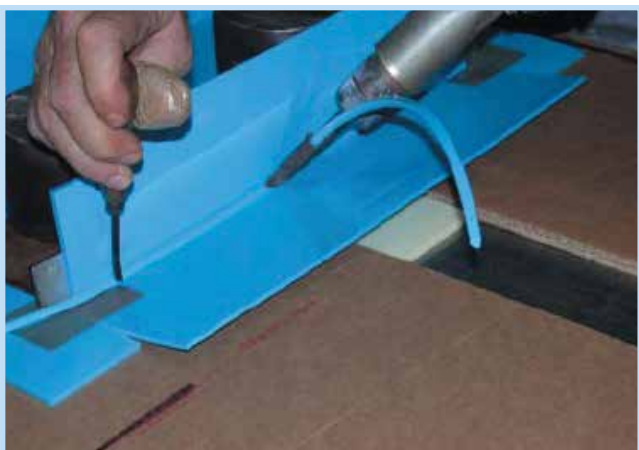


Flat Butt Welder



Welding narrow flat belts with Pliers P-200

✓ The welding process is completely reliable when using Volta Tools because of its unique and versatile design. Our tools are durable and rugged, and do not require cooling water or air pressure. We designed our tools for ease of handling and use. Most units can be transported and operated by one technician and if the welding belts are over 1.5 m (60" in width), they require only two people for handling.



Electrode welding of cleats

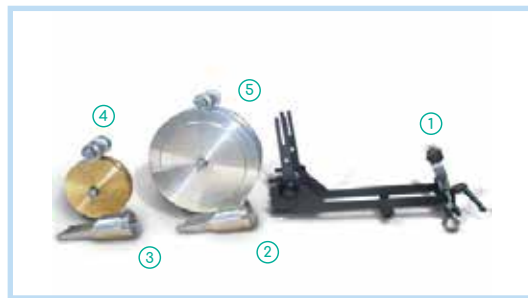


FT Electrode welder

Volta fabrications are thermo welded to ensure a superior bond.

## Flat Belt Fabrication Tools

<b>Sidewall Trolley Set (SWT 100)</b> (Including the following 5 items)	<b>Cat. No. 814151800</b>
<b>1. Trolley Frame</b>	<b>Cat. No. 814151802</b>
<b>2. Nozzle 40 mm</b>	<b>Cat. No. 814151804</b>
<b>3. Nozzle 70 mm</b>	<b>Cat. No. 814151806</b>
<b>4. Sidewall Wheel Set 20-40 mm</b>	<b>Cat. No. 814151808</b>
<b>5. Sidewall Wheel Set 50-100 mm</b>	<b>Cat. No. 814151810</b>



The Sidewall Trolley is designed to facilitate welding of sidewalls on flat belts. A pair of wheels and an air nozzle are available for each group of sidewalls.

<b>Guide Roller Frame For Triac S</b>	<b>Cat. No. 8141506</b>
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The Guide Roller Frame mounts on the barrel of the Leister Triac S providing a frame for welding guides and V-profile fabrications on flat belts. The Roller Frame requires use of rollers (see Guide Roller Frame below) for correct operation. Roller selection is based on the dimensions of the V-profile or guide being used.

The Roller is mounted in the frame and the hot air output of the Leister Gun is aimed at the point of contact between the guide (V-profile) and the flat belt.



<b>Roller 6 mm for Guide Roller Frame</b>	<b>Cat. No. 8141507</b>
<b>Roller 8/M for Guide Roller Frame</b>	<b>Cat. No. 8141502</b>
<b>Roller 10/Z for Guide Roller Frame</b>	<b>Cat. No. 8141501</b>
<b>Roller 13/A for Guide Roller Frame</b>	<b>Cat. No. 8141503</b>
<b>Roller 17/B for Guide Roller Frame</b>	<b>Cat. No. 8141504</b>
<b>Roller 22/C for Guide Roller Frame</b>	<b>Cat. No. 8141505</b>
<b>Flat (Roller) Nozzle - 6, M/8, Z/10 mm</b>	<b>Cat. No. 8121420</b>
<b>Flat (Roller) Nozzle A/13 mm</b>	<b>Cat. No. 8121421</b>
<b>Flat (Roller) Nozzle B/17 mm</b>	<b>Cat. No. 8121422</b>
<b>Flat (Roller) Nozzle C/22 mm</b>	<b>Cat. No. 8121423</b>



<b>Hot Air Gun Handle for Triac S</b>	<b>Cat. No. 8141408</b>
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The Hot Air Gun Handle provides additional grip and stability when using the Triac S. This allows the technician to apply additional pressure to the material in order to ensure maximum contact between the materials being welded.



## Flat Belt Fabrication Tools

Leister Triac S 110V/1600W	Cat. No. 8111403
Leister Triac S 230V/1600W	Cat. No. 8111404
Nozzle, Pencil Tip 5 mm	Cat. No. 8120005

The Leister Triac S features an adjustable temperature control. This allows the Triac S to be used to weld different belt materials. The Triac S comes equipped with a pencil nozzle for focus work. Nozzles can be used to adapt the Triac S to weld V guides and electrodes.



Nozzle, 5 mm Round*	Cat. No. 8121405
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- For special fabrications.

Nozzle, 7/9 mm Inverted Electrode	Cat. No. 8121409
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- For welding 7 or 9 mm electrodes upside down on flat belts as low profile cleats.

Nozzle, 7 mm Electrode	Cat. No. 8121406
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- For electrode welding 1.5 to 2.5 mm thick flat belts

Nozzle, 9 mm Electrode	Cat. No. 8121408
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- For electrode welding 3 to 5 mm thick flat belts.  
\* Non-standard item - Contact your Volta distributor for availability.



Hot Air Gun Electron 110V/2700 W	Cat. No. 8111401
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Hot Air Gun Electron 230V/3400 W	Cat. No. 8111402
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The Leister Hot Air Gun Electron is used for welding sidewalls and other coating. The Leister Hot Air Gun Electron is used for welding sidewalls and other coating. Frame.



V-Guide Nozzle 6 mm	Cat. No. 8121410
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V-Guide Nozzle Z/M - 10/8	Cat. No. 8121411
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V-Guide Nozzle 13/A	Cat. No. 8121412
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V-Guide Nozzle 17/B	Cat. No. 8121413
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V-Guide Nozzle 22/C	Cat. No. 8121414
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Attach the nozzles to the Leister Triac S for welding V-cleats or guides on flat belts. Nozzle selection is based on the profile being welded.

- \* We recommend using the Hot Air Gun Handle for Triac S.





## Flat Belt Welding Tools

✓ The **FBW System** is a light-weight, easy-to-use tool for butt-welding flat belts in both the shop and field. The FBW requires only electrical power for correct and efficient operation.

### FBW-Flat Butt Welding System for Flat and SuperDrive™ Belts

Model	Maximum Weld	
FBW 301 <sup>(1)</sup> (110V)	300 mm (12")	Cat. No. 8160708
FBW 301 <sup>(1)</sup> (230V)	300 mm (12")	Cat. No. 8160709
FBW 721 (110V)	720 mm (29")	Cat. No. 81607210
FBW 721 (230V)	720 mm (29")	Cat. No. 81607200
FBW 1061 (110V)	1060 mm (42")	Cat. No. 81610610
FBW 1061 (230V)	1060 mm (42")	Cat. No. 81610600
FBW 1301 (230V)	1300 mm (51")	Cat. No. 81613010
FBW 1701 <sup>(1)</sup> (230V)	1700 mm (67")	Cat. No. 81617010
FBW 2101 <sup>(1)</sup> (230V)	2100 mm (83")	Cat. No. 8162101
FBW 2301 <sup>(1)</sup> (230V)	2300 mm (91")	Cat. No. 8162301



(1) Non-standard item - contact your local Volta Belting distributor for availability.

**Note:** Special adapters for 1" pitch Positive Drive belts (Mini SuperDrive™ and Mini DualDrive™), DualDrive™ and DualDrive™ Small Pulley, Crescent Top, Spikes and MiniCleave are also available.

### FBW-PD&Mini-Flat Butt Welding System for Positive Drive & 1" pitch Positive Drive Belts

Model	Maximum Weld	
FBW 301 PD & Mini (110V)	300 mm (12")	Cat. No. 81613102
FBW 301 PD & Mini (230V)	300 mm (12")	Cat. No. 81613106
FBW 721 PD & Mini (110V)	720 mm (29")	Cat. No. 81613112
FBW 721 PD & Mini (230V)	720 mm (29")	Cat. No. 81613116
FBW 1061 PD & Mini (110V)	1060 mm (42")	Cat. No. 81613122
FBW 1061 PD & Mini (230V)	1060 mm (42")	Cat. No. 81613126
FBW 1301 PD & Mini (230V)	1300 mm (51")	Cat. No. 81613136



| The FBW-PD&Mini welding system includes built-in adapter and stoppers for splicing the SuperDrive™, DualDrive™ and PositiveDrive 1" pitch belts.

**Note:** Special adapters for 1" pitch Positive Drive belts (Mini SuperDrive™ and Mini DualDrive™), DualDrive™ and DualDrive SP™, Crescent Top, Spikes and MiniCleave are also available.

## Flat Belt Welding Tools

✓ The **FT Welding** System includes a built-in adapter for splicing SuperDrive™. The FT Welding System is a light weight, easy-to-use tool for electrode welding flat belts, in both the shop and field. The FT Welding System uses a router to cut the bevel on the belt edges and to trim the weld after welding. The weld is carried out by using a Leister Hot Air Gun and Volta electrodes. Electrode sizes are selected based on the thickness of the belt being welded. Refer to the our Technical Data Catalog for details.

### FT-Flat Electrode Welding System

Model	
FT 1000 Welding System (110V)	Cat. No. 8153415
FT 1000 Welding System (230V)	Cat. No. 8153416
FT 1500 Welding System (110V)	Cat. No. 8153420
FT 1500 Welding System (230V)	Cat. No. 8153421



| The FT Welding System includes a build-in adapter for splicing SuperDrive™ belt.

Model	
PD 1" pitch Adapter for FT1000	Cat. No. 815331805
PD 1" pitch Adapter for FT1500	Cat. No. 815331905



| The PD 1" pitch adapter is available as separate unit.

DD Adapter for FT 1000	Cat. No. 8153318
DD Adapter for FT 1500	Cat. No. 8153319



| The DualDrive™ adapter is available as separate unit.

DDSP Adapter for FT 1000	Cat. No. 81626344
DDSP Adapter for FT 1500	Cat. No. 81626354



| The DualDrive SP™ adapter is available as separate unit.

### Pliers for Narrow Flat Belt Welding

Model	
Pliers P-100	Cat. No. 8130300
Pliers P-200	Cat. No. 8130310
P-100 Adapter D/E	Cat. No. 8130302



| The P-100 and P-200 are the latest additions to the line of narrow flat belt welding tools. The P-100 is designed to butt weld belts of up to 100 mm in width. The P-200 is designed to butt weld belts of up to 200 mm in width. When welding at an angle the maximum belt width is reduced.

## Miscellaneous Tools

### Leister Knife

Cat. No. 8153100

The Leister knife is designed to provide clean and accurate trimming and also for cutting conveyor belt splices.



### Sleeve Mounting Jig Base

Cat. No. 8151660

### Sleeve Mounting Adapter Set\*

The Sleeve Mounting Tool is designed to mount Volta Sleeves (SLV) on rollers. The tool uses air pressure to form a cushion between the roller and the sleeve during sleeve installation.

The tool consists of a base, sleeve adapter and push rod. The base is standard and used with all adapter sizes. The adapter and push rod are suited to specific sleeve diameters and must be ordered based on the specific sleeve size being used.

\* For information on adapter and push rod catalog numbers, contact your local Volta Belting distributor.



### VaR Flash Trimming Tool (110V)

Cat. No. 8140030

### VaR Flash Trimming Tool (230V)

Cat. No. 8140031

When producing large quantities of round profile rings, use our Flash Trimming Tool to trim the flash after welding. This jig provides adjustments for different profile diameters and a heated blade for smoothly trimming the flash from the profile. The finished weld presents a physically smooth and visually clean joint.

This tool is suitable to use with round profiles from 3mm to 12mm.

Available only in selected markets.



### Timing Belt Cutter

Cat. No. 81533015

The Cutter is designed to provide a clean and accurate cut on all types of Timing belts.



### Pitch Gauge Measuring Tool for Volta Positive Drive Belts

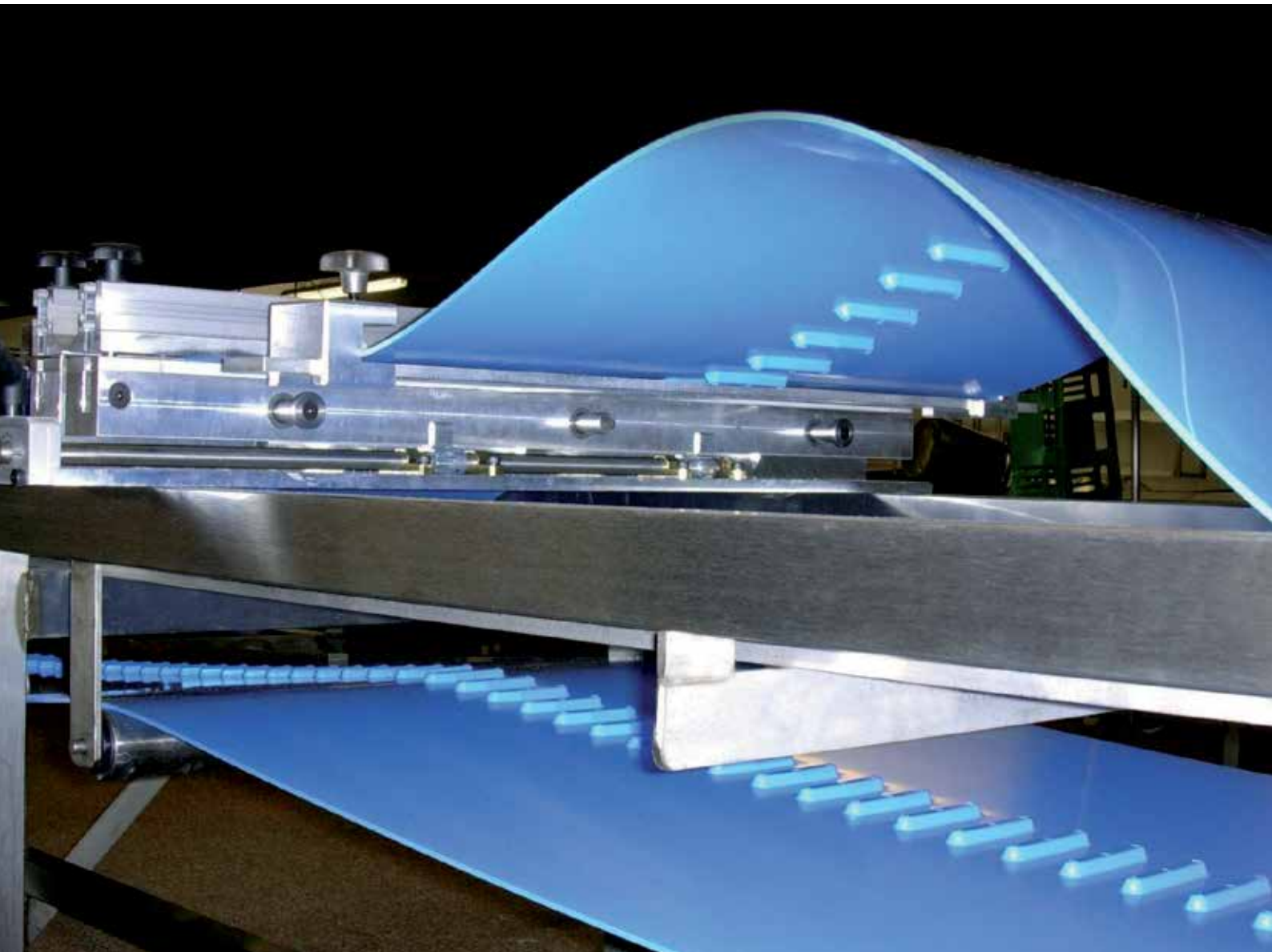
Cat. No. 81307570

The "Pitch Gauge Measuring Tool" was developed for measuring the pitch between the teeth after welding, the Volta Positive Drive belts.



# With Volta Tools You Can Never Go Wrong!

- ✓ Fast and simple belt installation.
- ✓ Unique and versatile design - compact, rugged and easy-to-use.
- ✓ Designed for both shop and field use.
- ✓ Light-weight construction.
- ✓ Usually does not require cooling water or air pressure.
- ✓ Convenient design and method of storing and carrying your tools.
- ✓ Welds and fabrications are strong, reliable and will last as long as your belt life.



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