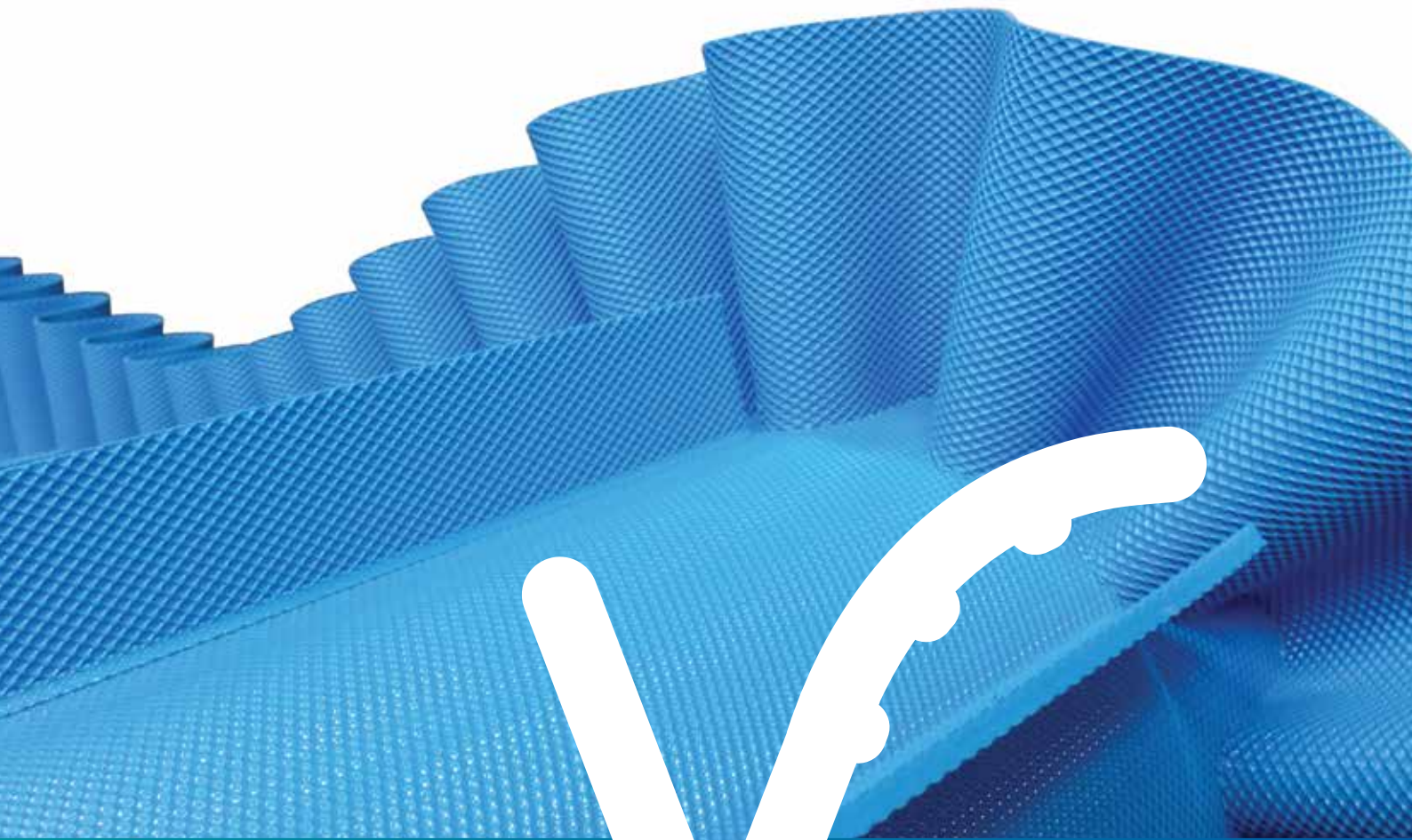




The Next Step in Belting



Food Industry
Application Album
Conveying Solutions

The Next Step in Belting

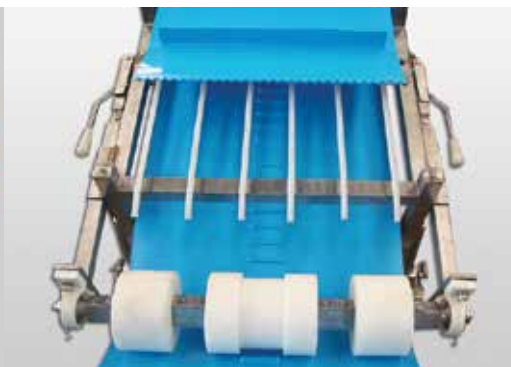
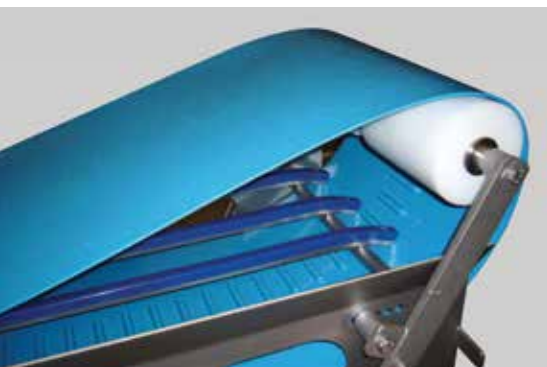
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Conveying Solutions

SuperDrive™ & Mini SuperDrive™



Raw Meat Conveyed on Modular Belt - High Preparation Costs, Low Profit



Retrofitting a Modular Belt with SuperDrive™ Belt - Improved Hygiene and Cost Reduction

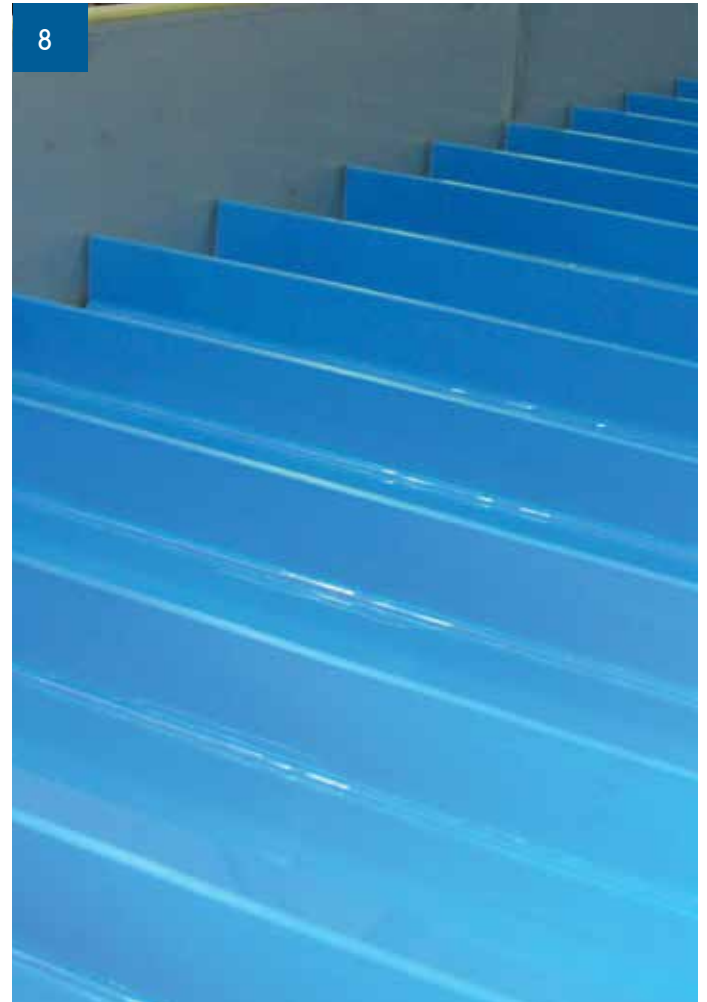
Endless Welding with Volta FT - Flat Electrode Welding System



On-site Installation with Volta FBW - Flat Butt- Welding System



Retrofitting a Modular Belt with a SuperDrive™ Belt with Cleats.
Wear Resistant, Improved Hygiene & Reduced Noise.



Volta Drive Pulleys

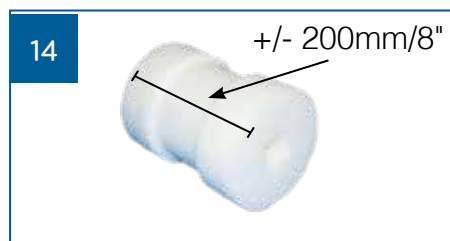
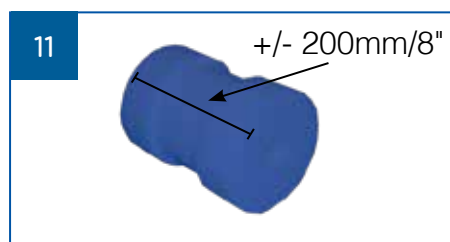


Volta Tail Pulleys

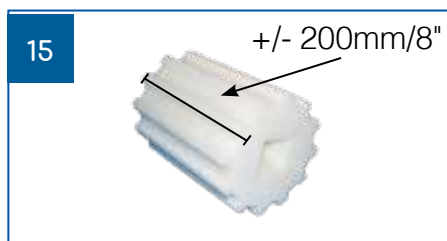
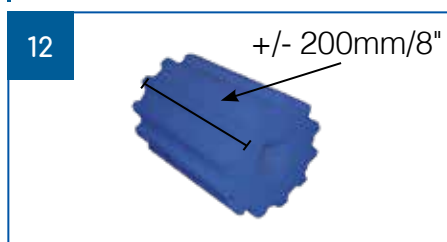


UHMW Pulleys for the SuperDrive™ Belt

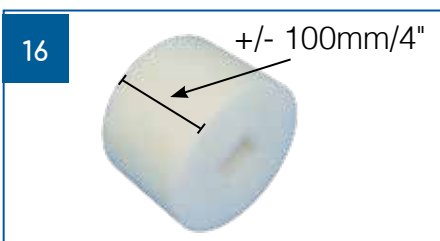
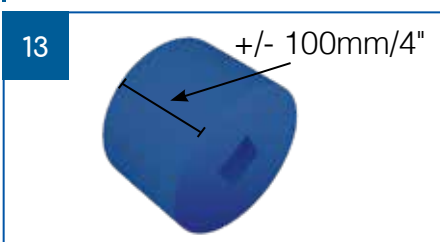
Tail Pulley



Drive Pulley



Support Pulley



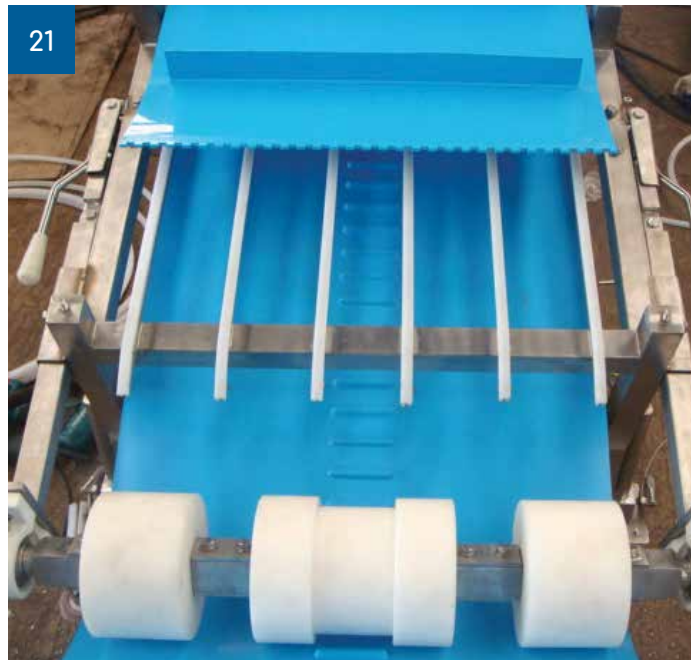
Friction Pulley - Before



Tail Pulley - After



Slide-bed Made of UHMW Strips

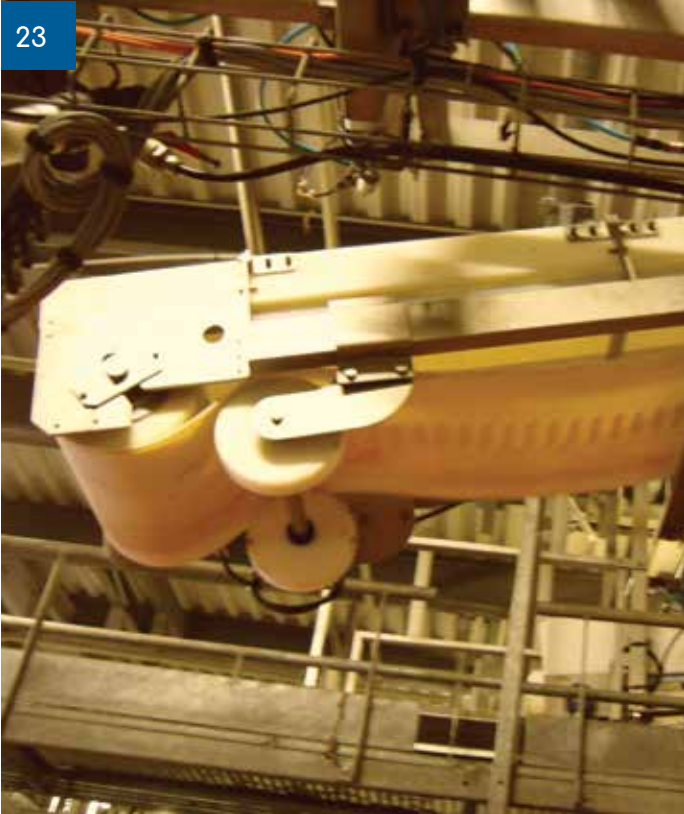


Drum Motor for SuperDrive™ Belt



Bridge Rollers

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Weighted Rollers

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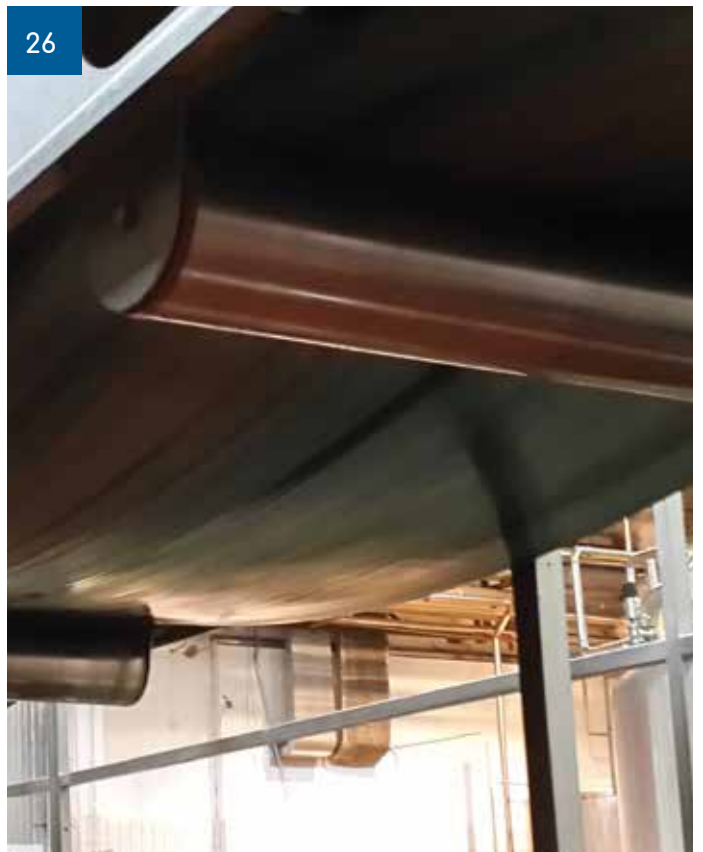


Return-way Support Rollers

25



26



Belt Take-up Device (Tensioner)



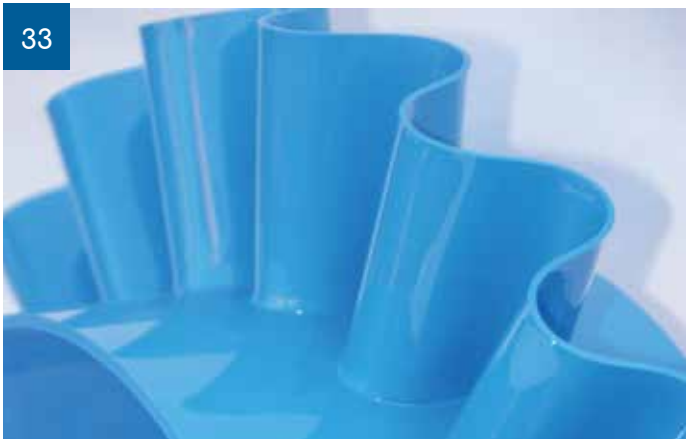
Fixed Folded Stainless Steel
Sidewalls with Rounded Corners



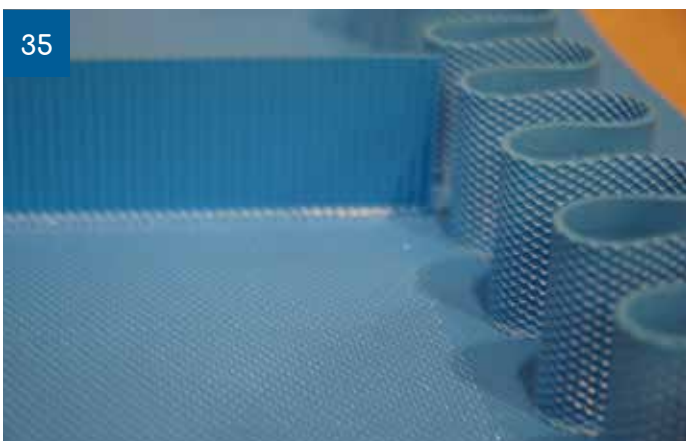
Fixed UHMW Sidewalls at the
End Section of Discharge



HF Welded Baseless Sidewall

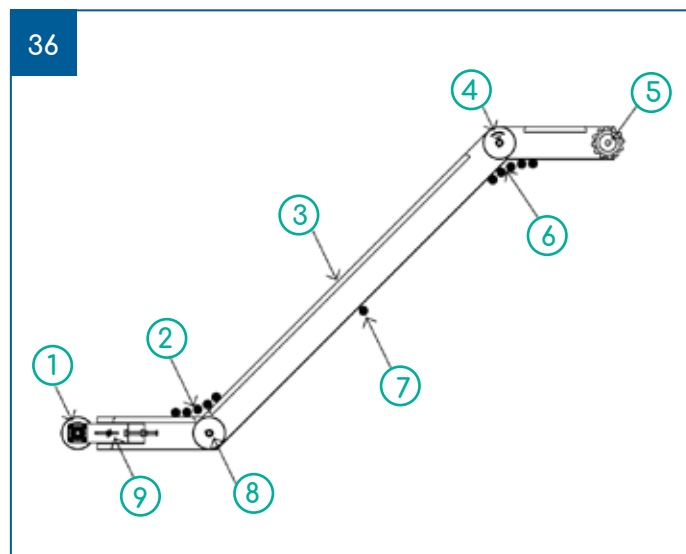


Welding Sidewalls
with Base



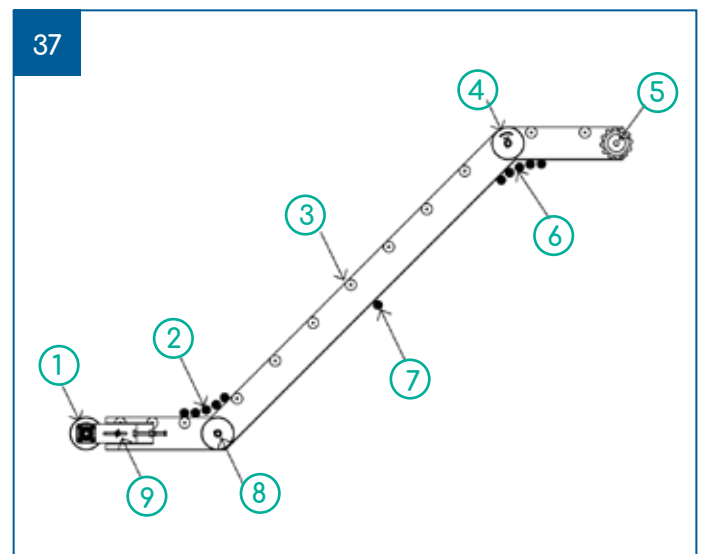
Swan Neck (Z) Conveyors - SD™ Operate without Tensioning; Quiet, Efficient & Productive

UHMW Strip Bed Construction



1. Tail Pulley
2. Roller Set: Transition Horizontal to Incline
3. Incline UHMW (PE-1000) Slide Bed
4. Top Roller: Transition Incline to Horizontal
5. Drive Pulley
6. Roller Set: Return transition horizontal to decline
7. Return Support Roller
8. Bottom Roller: Return transition decline to horizontal
9. Take-up Device (Tensioner) for tail pulley

Roller Bed Construction



1. Tail Pulley
2. Roller Set: Transition Horizontal to Incline
3. Roller Slide Bed
4. Top Roller: Transition Incline to Horizontal
5. Drive Pulley
6. Roller Set: Return transition horizontal to decline
7. Return Support Roller
8. Bottom Roller: Return transition decline to horizontal
9. Take-up Device (Tensioner) for tail pulley



FMB-3-SD



FMB-3-SD



Swan Neck (Z) FMB-3-SD

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Incline Conveyor FMB-3-SD

45



Vertical Swan Neck (Z) FMB-3-SD with Scoop Flights

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Swan Neck (Z) FMB-3-SD - Feeder

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SD™ Bead Elevator FHB-3-SD / FHW-3-SD

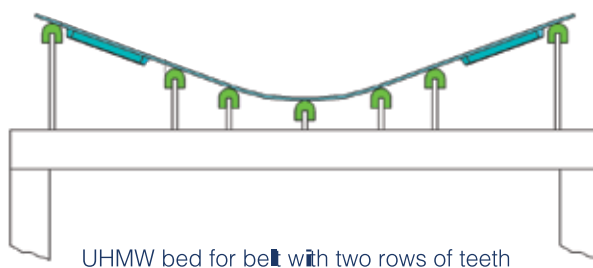
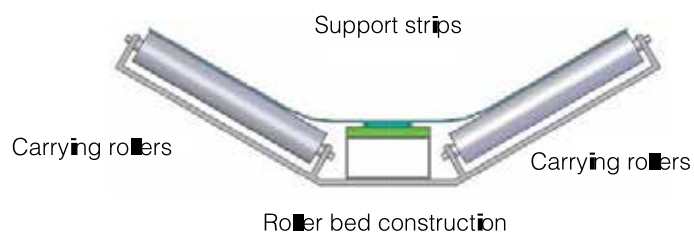


Cooked Beans on SD™ Bead Elevator



SD™ Belts Working on Trough Conveyors

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FMB-3-SD

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UHMW Sliding-bed for SD™ FMB-3-SD Belt with 1 Row of Teeth

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FMB-3-SD

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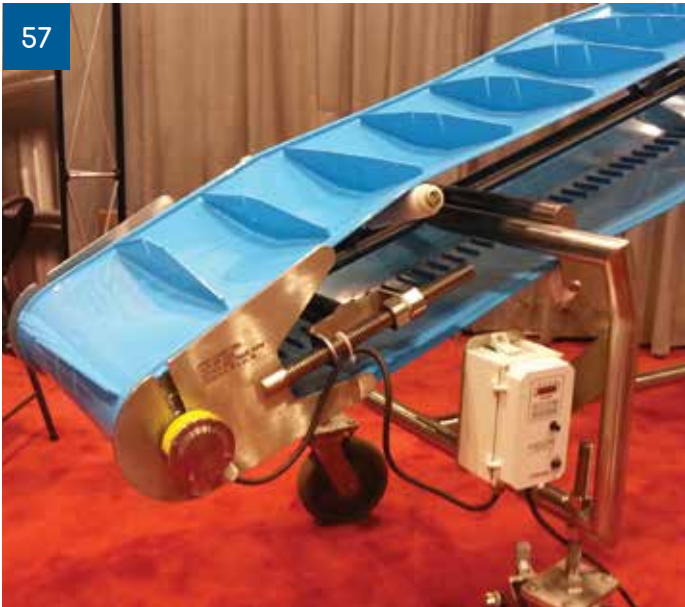


Trough Conveyors

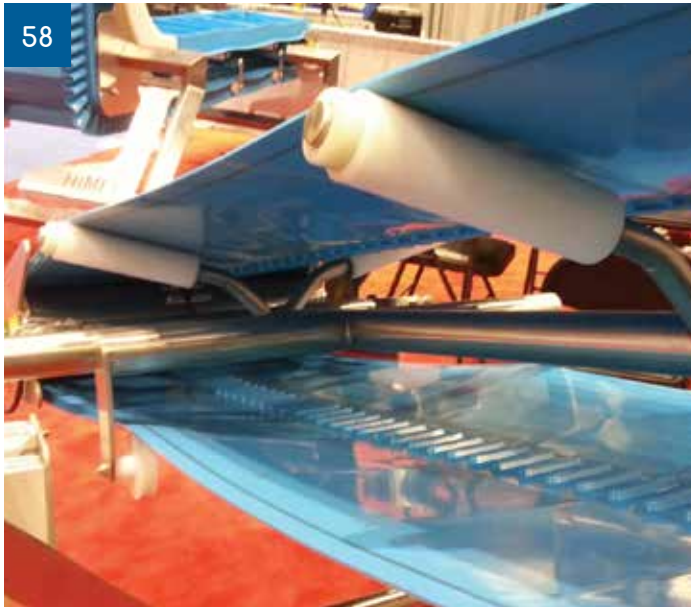
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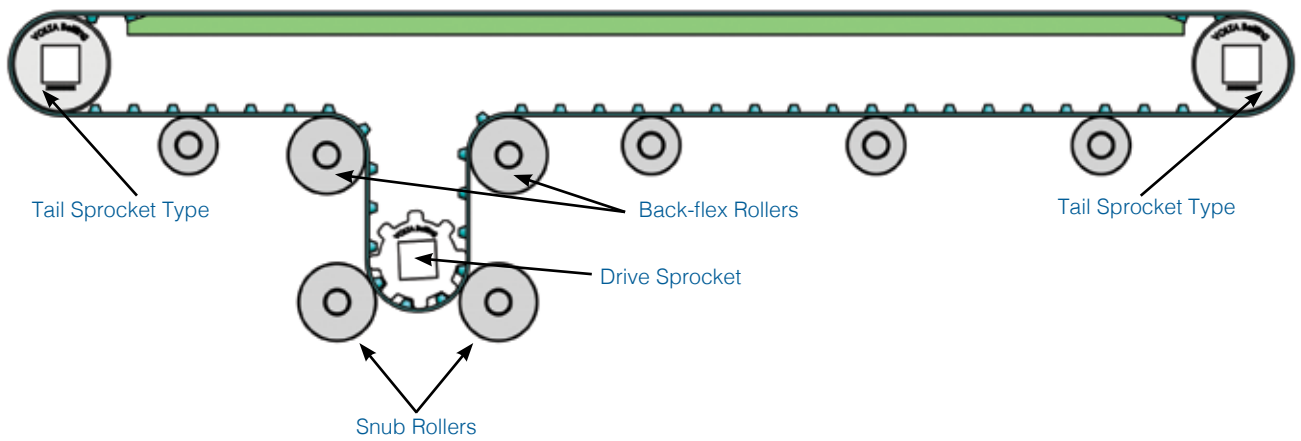
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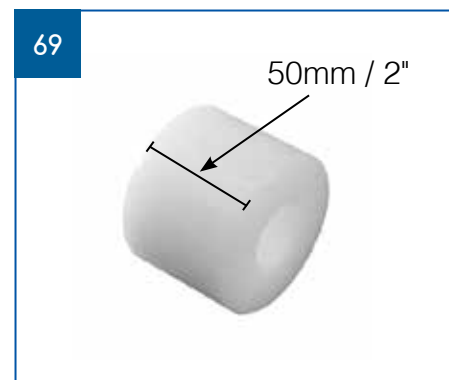
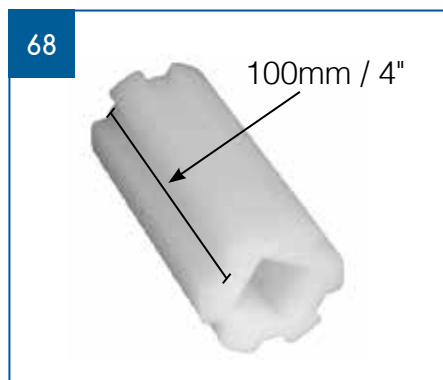
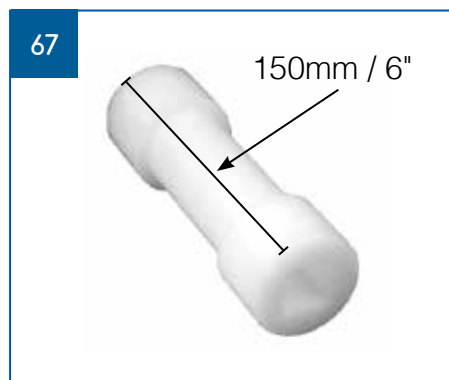
Center Drive Conveyor



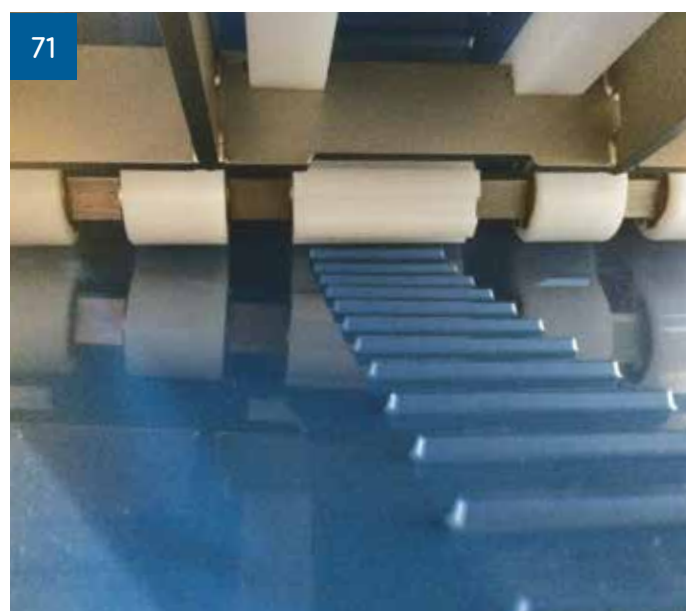
FMB -3- SD™ LT Belt in Deep Freezer



Mini SuperDrive™ (MSD) Accessories



Mini SuperDrive™ (MSD) Conveyor Construction



| Mini SuperDrive™ Applications

Washing Belt

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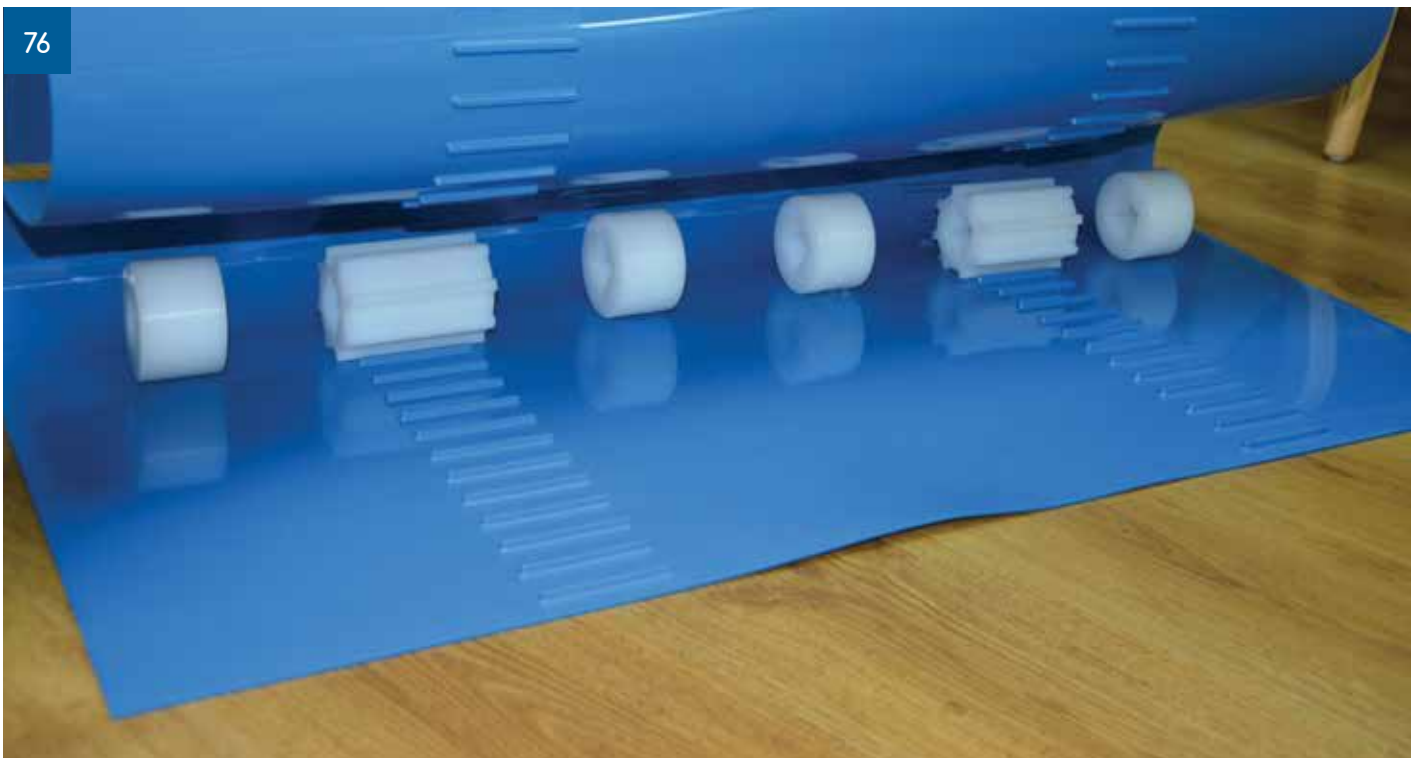
Fruit & Vegetable Processing

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Mini SuperDrive™ with 2 Rows of Teeth

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SD™ in Potato Processing



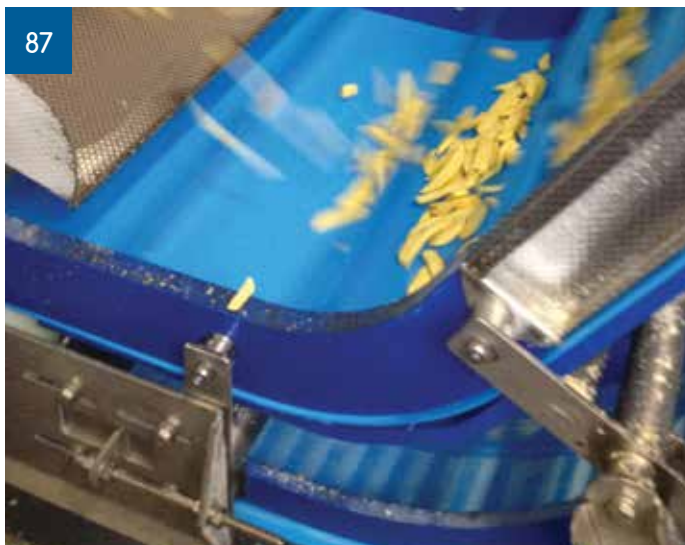
SD™ in Potato Industry



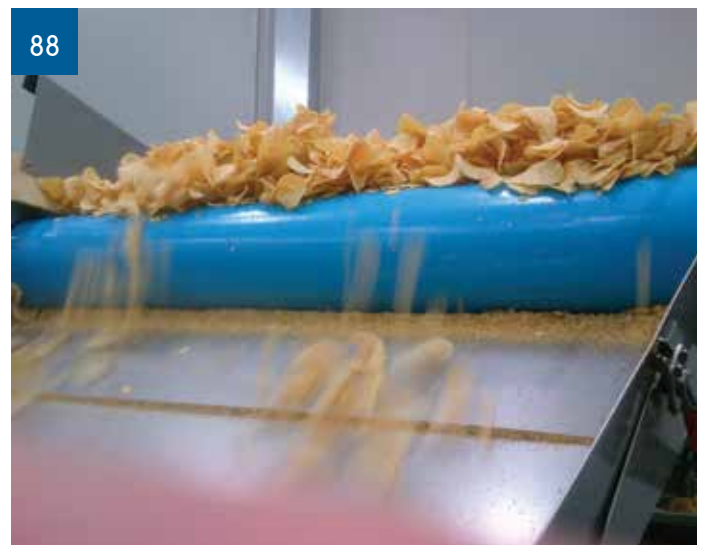
FMB-3-SD-ITM2 - Matt Finish SD™ Belt for Better Release



FHB-4-SD for Frozen Chips Conveying



FMB-4-SD After Frying



Perforated SD™ Working Under Water and in Wet Environment - FMB-3-SD



FMB-3-SD-Blue 02



SD™ in Vegetable Processing - Corn, Leek, Lettuce, Brussels Sprouts, Beans, Peas



| Acidic Food Processing with FHB-SD/FHW-SD

| Pineapple



| Sun Dried Tomatoes



| Tomato Processing



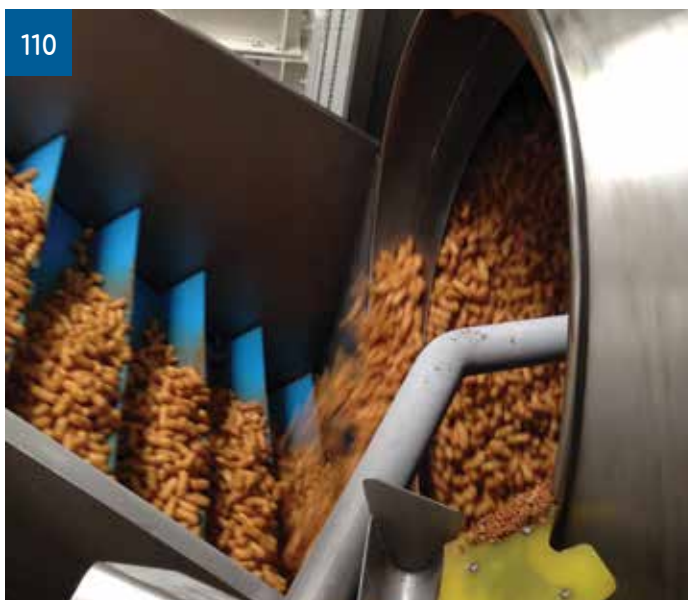
| Grapes



| Garlic

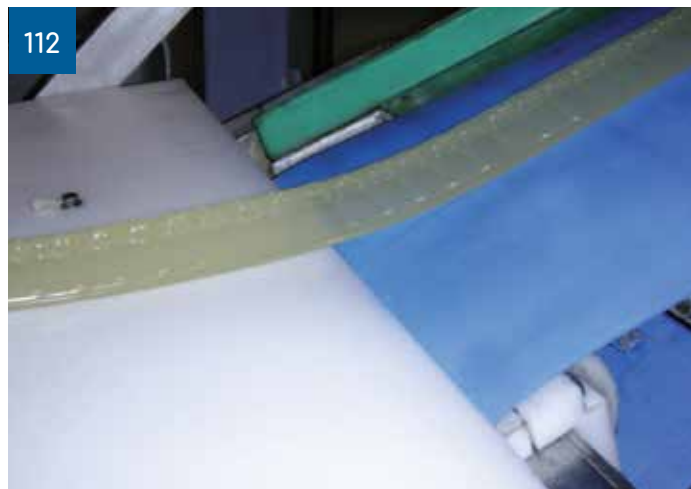


Dried Fruits & Snacks Processing



SD™ in Candy Production

FHB-3-SD™ Melted Candy Mass
80°C



SD™ in Bakery

Dough Pump

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Cookies

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Bread Crumbs

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SD™ in Cheese Processing

Mozzarella Cheese Processing



Cheese Handling



Grated Cheese



Cold Channel



Metal Detection



Frozen Packed Cheese



SD™ in Fish and Seafood Processing

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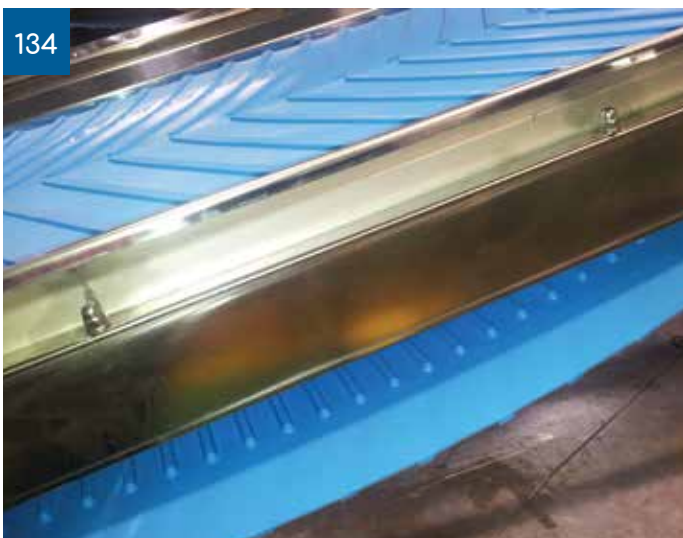


Chevrons with ITO50
Impression Top

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SD™ in Poultry Processing

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SD™ in Meat Processing Sausage Meat Paste



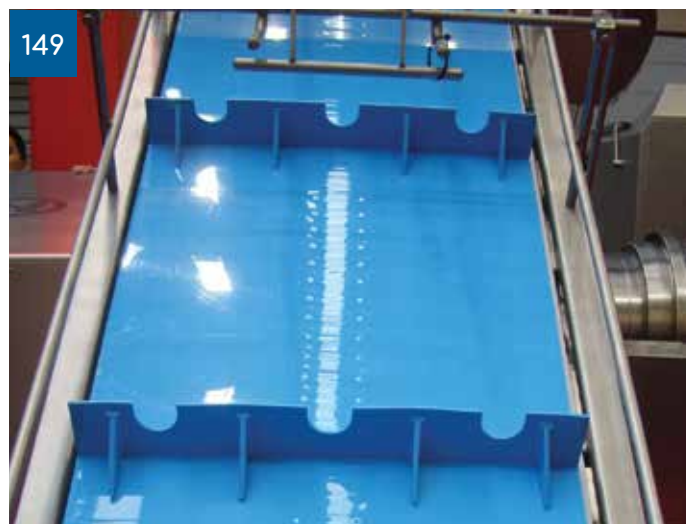
Joint Cutting



SD™ with Support Flights (Gusset Cleats)



FHB-3-SD with Gusset Cleats - 25kg Blocks



|SD™ in Meat Processing

FMB-3-SD - Compartments

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|Frozen Meat Blocks

FHW-3-SD

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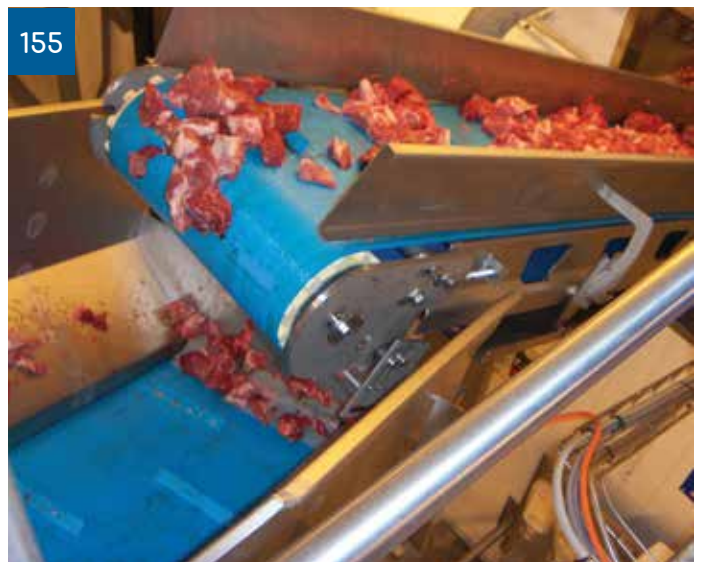
Synchronized Belt FHW-3 with Special Cleats

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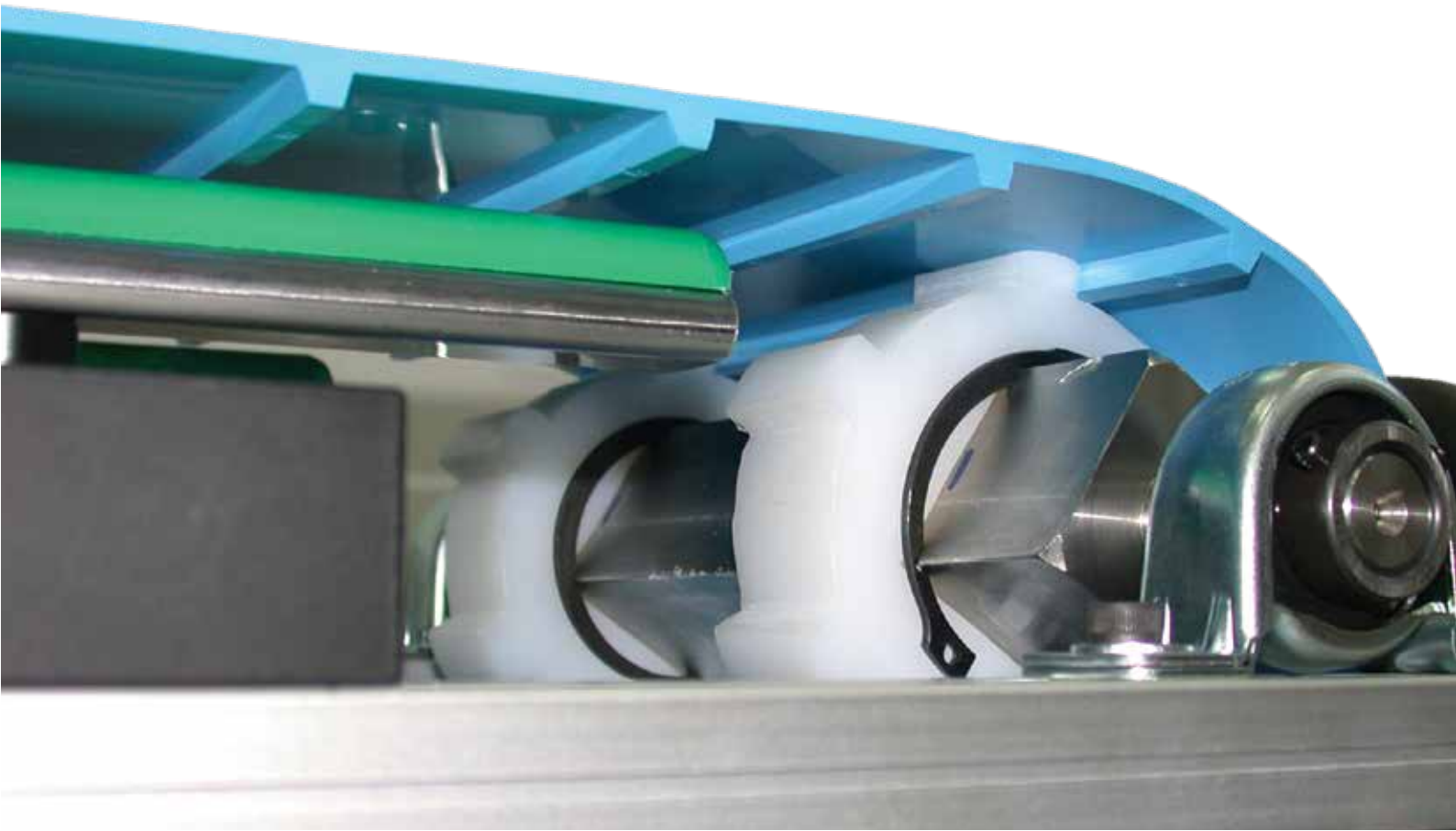
FMB-3-SD-ITO50

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Conveying Solutions

DualDrive™ & Mini DualDrive™



Retrofitting to DualDrive™ & Mini DualDrive™ Belt; Improved Hygiene and Cost Reduction

Ply Belt



Modular Belt



Top - Plyed Belt
Bottom - Volta DualDrive™



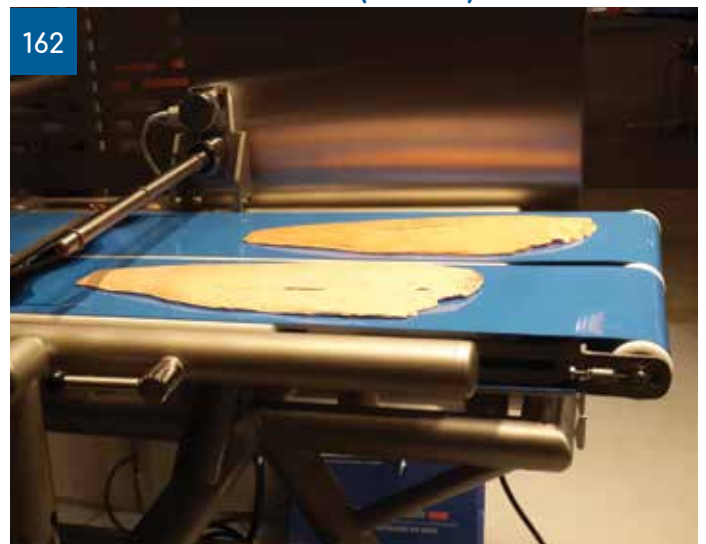
On-site Installation with Volta
FBW - Flat Butt- Welding System



DualDrive™ (DD) Belts



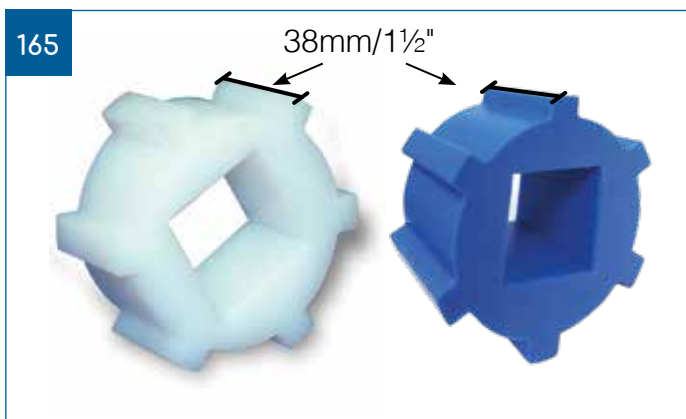
Mini DualDrive™ (MDD) Belts



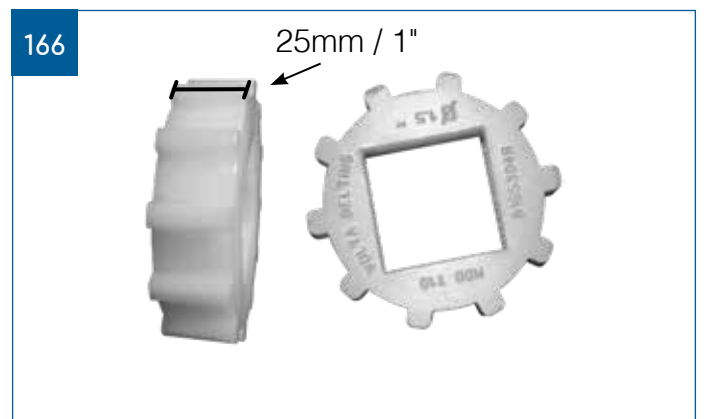
Volta DualDrive™ Replaces 2" Pitch Modular Belts and Mini DualDrive™ Replaces 1" Pitch Modular Belts



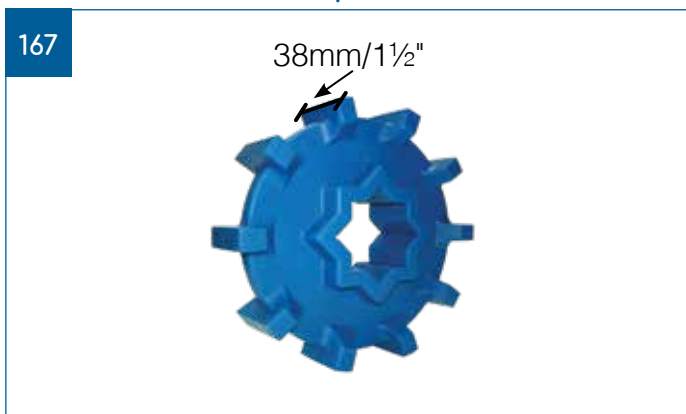
Machined Drive Sprockets for DualDrive™ Belt



Machined Drive Sprockets for Mini DualDrive™ Belt



Molded Drive Sprocket



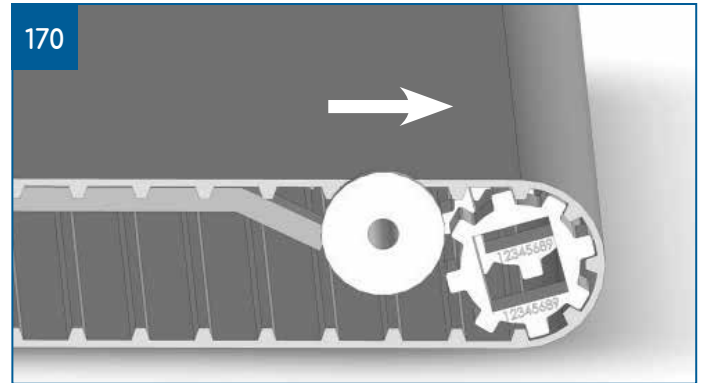
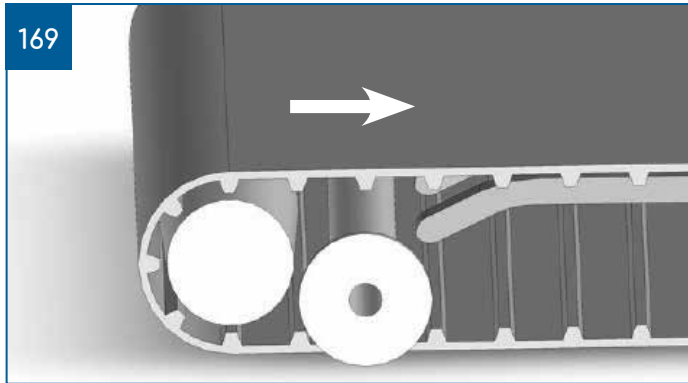
Molded Tail Roller



As DualDrive™ Belts Run with No Pre-Tension it is Possible to Contain the Belt Rather than Track or Guide.

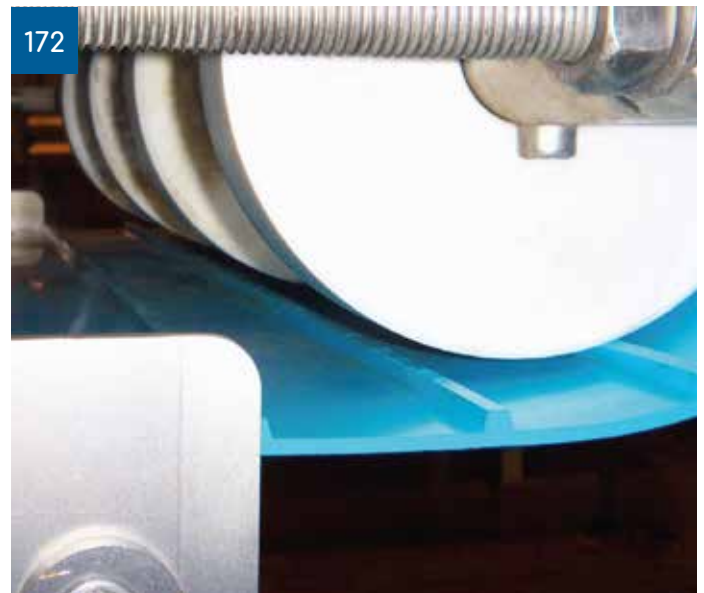
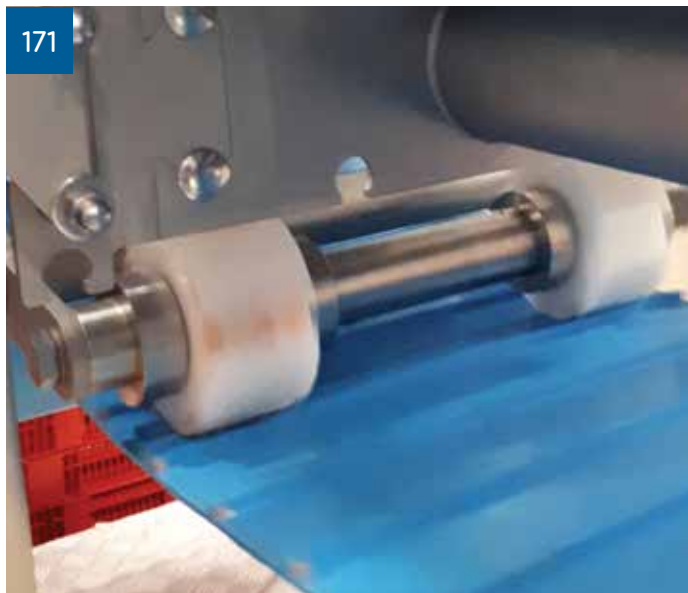
1. Flanged rollers on the return way

2. Flanged rollers before the drive side



Smooth Tail Pulley for Mini DualDrive™

Smooth Tail Pulley for DualDrive™



DualDrive™ Belt with Drum Motor



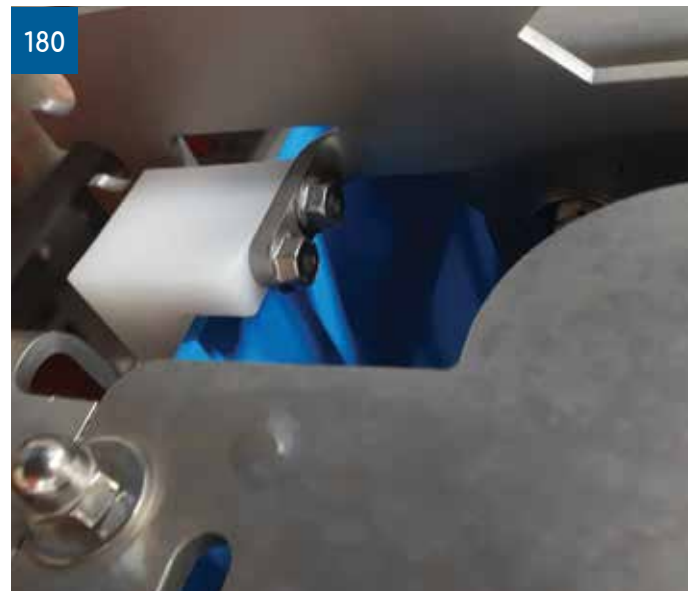
| Return-way Support Rollers



| Side Support Rollers



| Fixed Support Made of UHMW



Fixed Stainless Steel Sidewalls

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Fixed Support Made of UHMW

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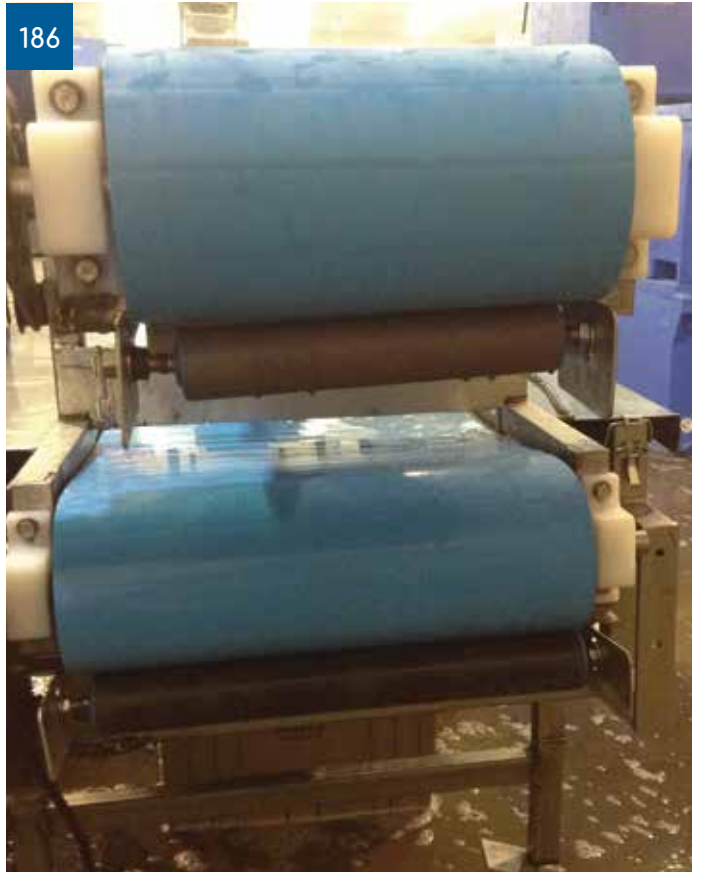


Volta DualDrive™ & Mini DualDrive™ Belt Working in Wet Environment

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Perforated DualDrive™ & Mini DualDrive™ Belt

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Volta DualDrive™ & Mini DualDrive™ Belts in the Vegetable & Potato Snack Industry - Hot Sweet Potato, Cabbage, Spinach Leaf

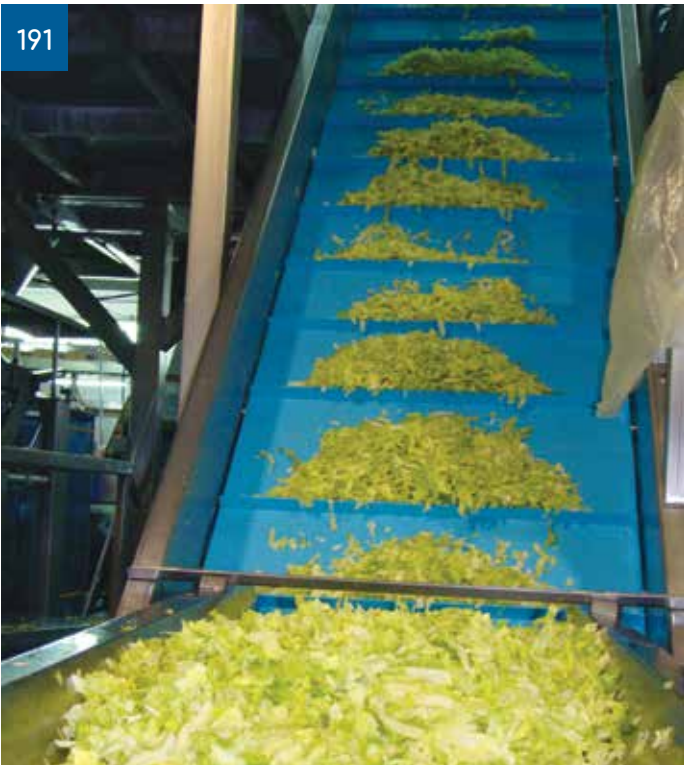
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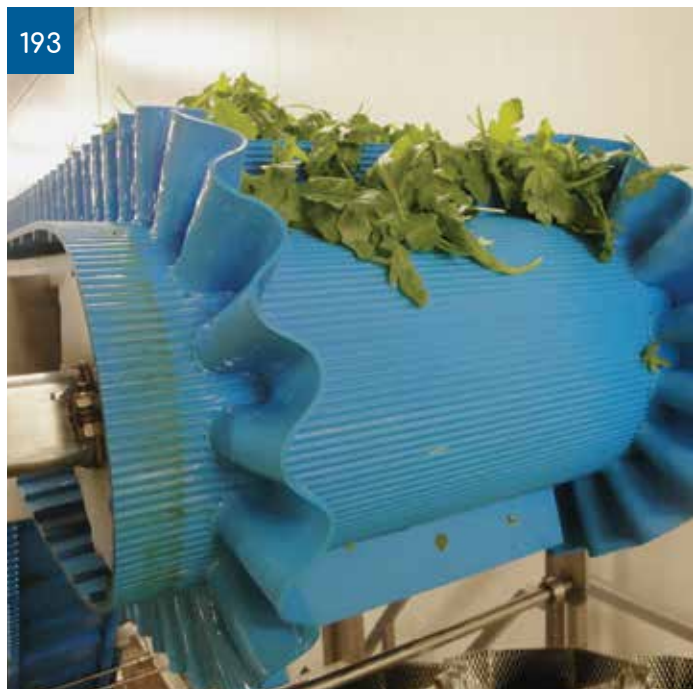


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Leaves on IRT Texture for Better Release

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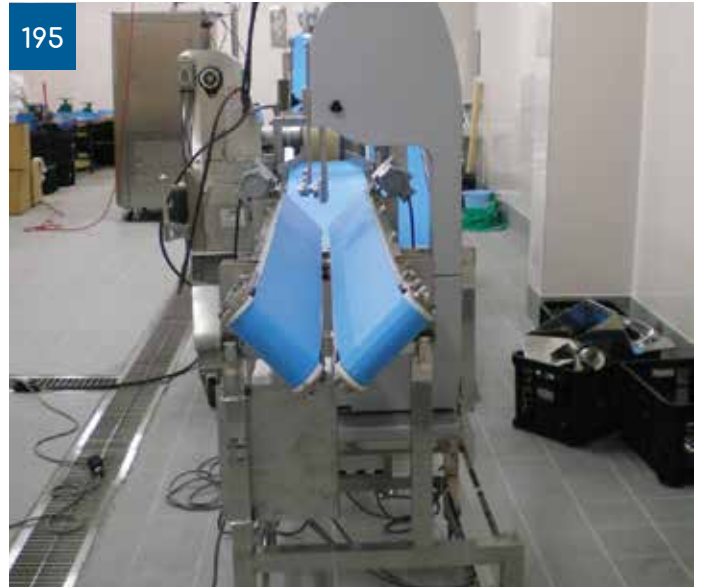


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Volta DualDrive™ Belt in Fruit Processing & Handling

Fruit Processing on FMB-DD-IRT Belt



Volta DualDrive™ & MDD Belts in Cheese Processing, Pizza & Bakery Lines

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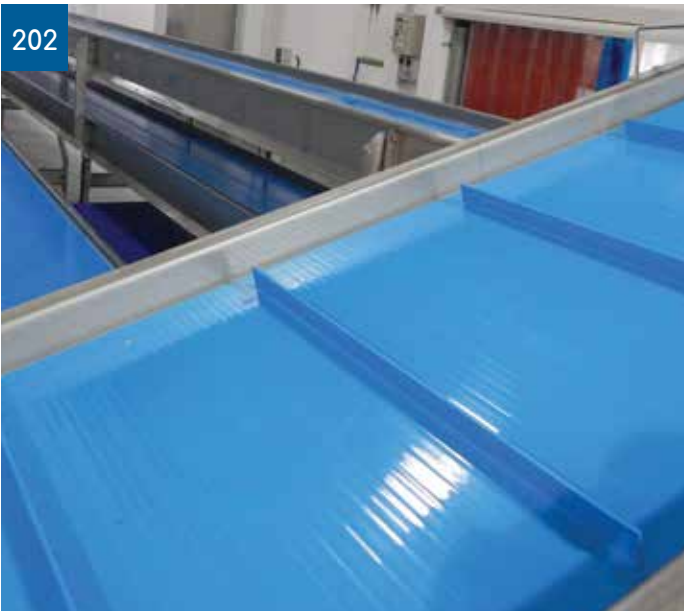
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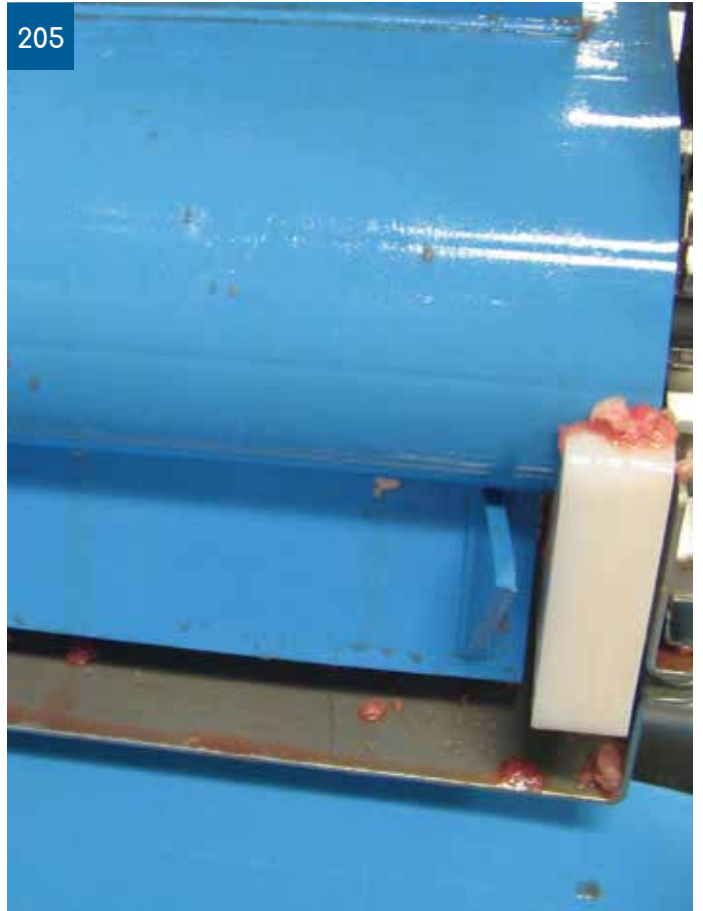


Volta DualDrive™ Belt in the Poultry Industry

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Sausage Elevator

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Volto DualDrive™ Belt in the Meat Industry

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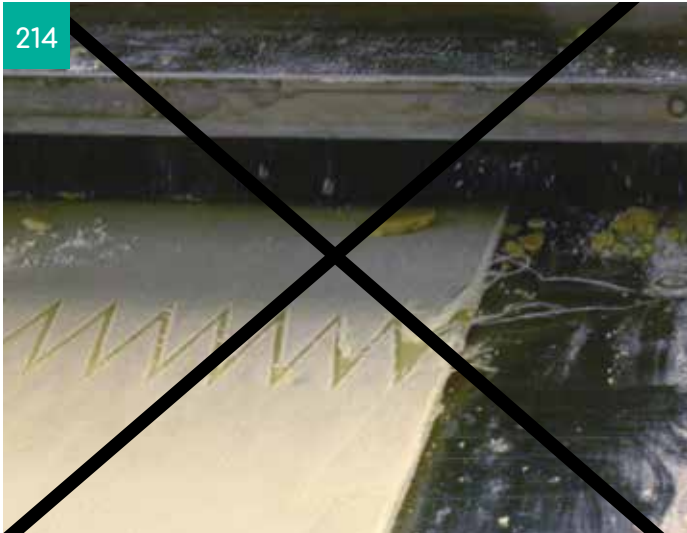
Conveying Solutions

Food Grade Flat Belts



Replacement of Ply Belts -
Fraying and Short Operation Life

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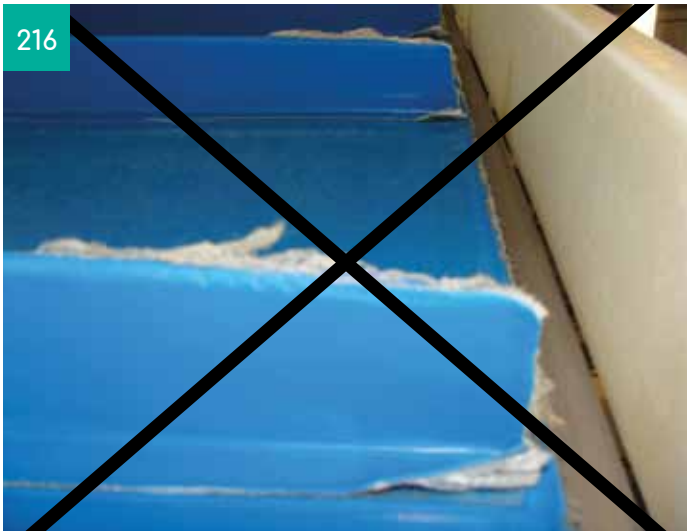
Volta belt FEMB - 2.5
No Fraying and Long Operation Life

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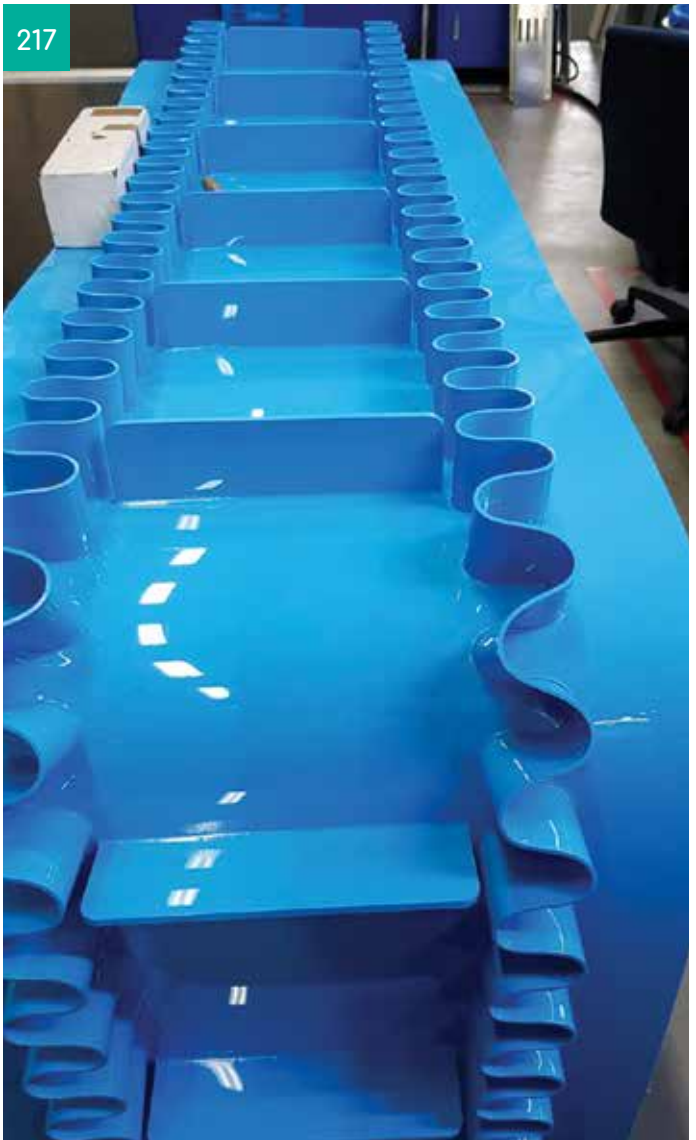
De-laminated and Fraying Flights

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Volta Homogeneous Flights

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Replacement of Ply Belt in Chocolate Powder Conveying

Old - Ply Belt After 8 Months

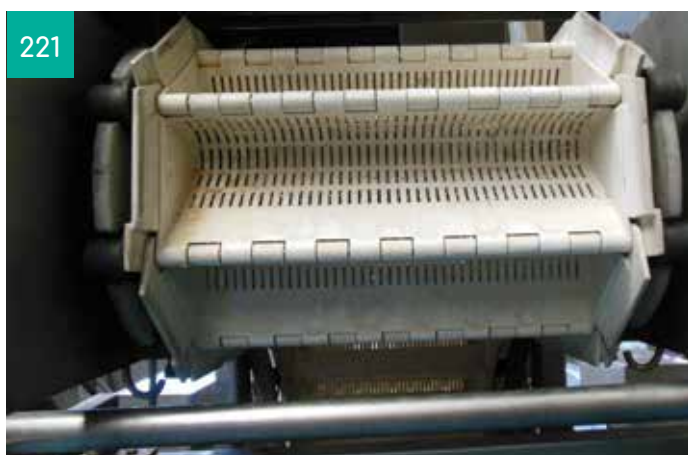


New - Volta Belt After 18 Months



Modular Belts in Pickled Vegetable Industry

Before



After

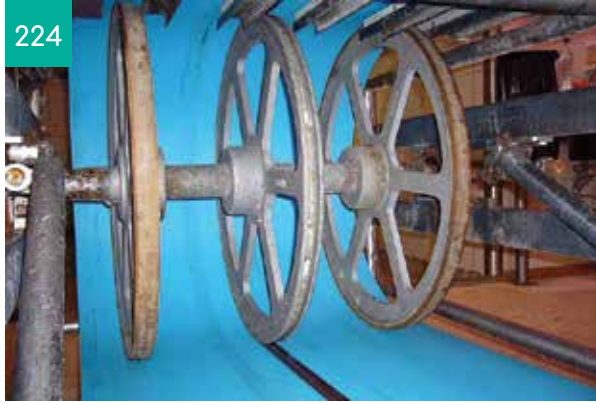


| Stainless Steel Belt Replacement to Volta FHW or FHB Belts in Meat Trimming & Tomato Processing Lines

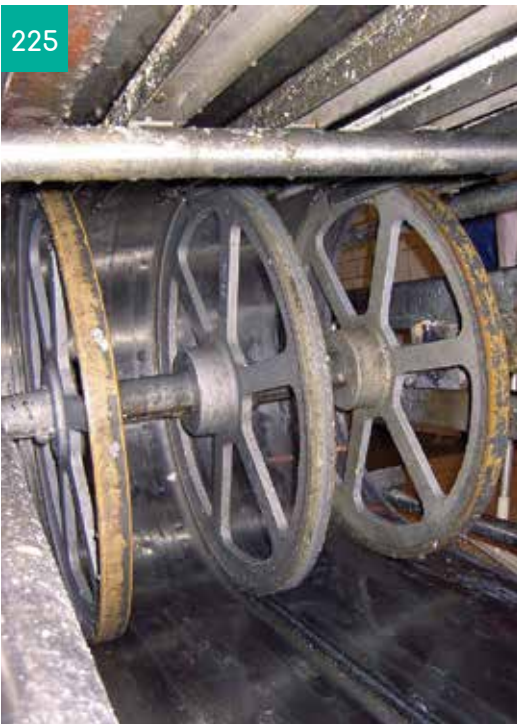
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| Non-Food Rubber Guides

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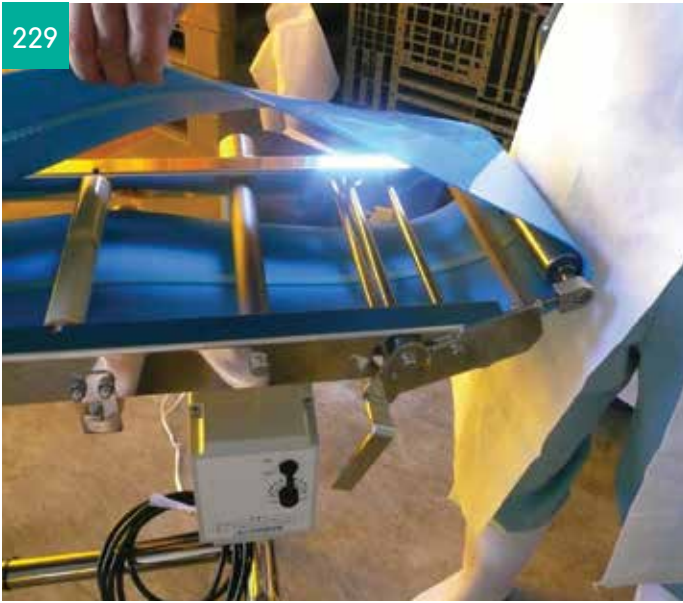
| Food Grade Volta Guides - VW-22

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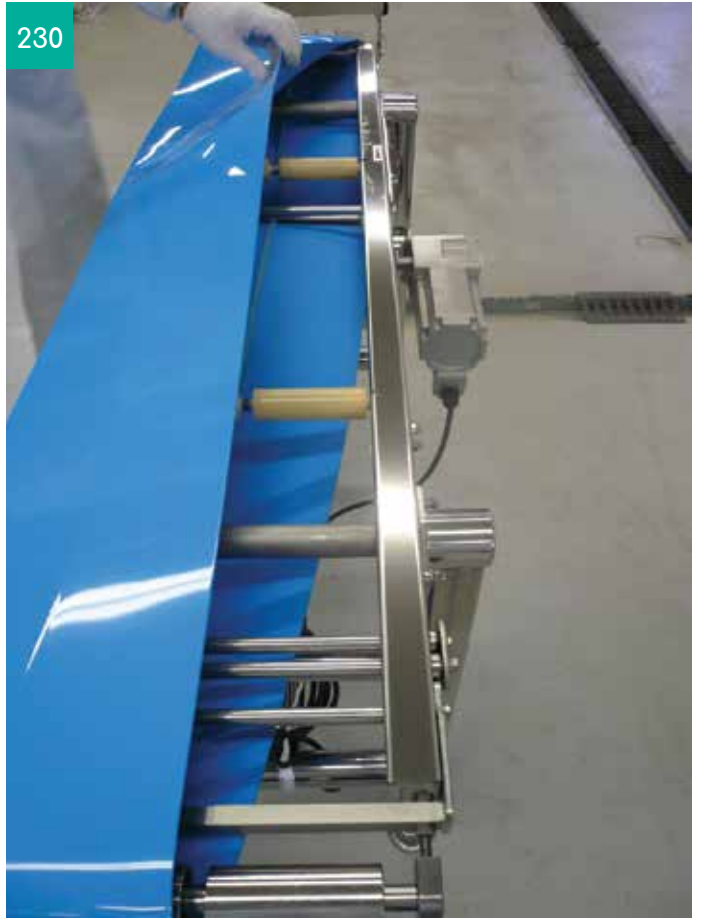


Volta Belts with Center Guide

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UHMW Side Restrictor to Control Off-tracking

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Knife edge / Nose-bar

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Back Flexing - FELB Belt

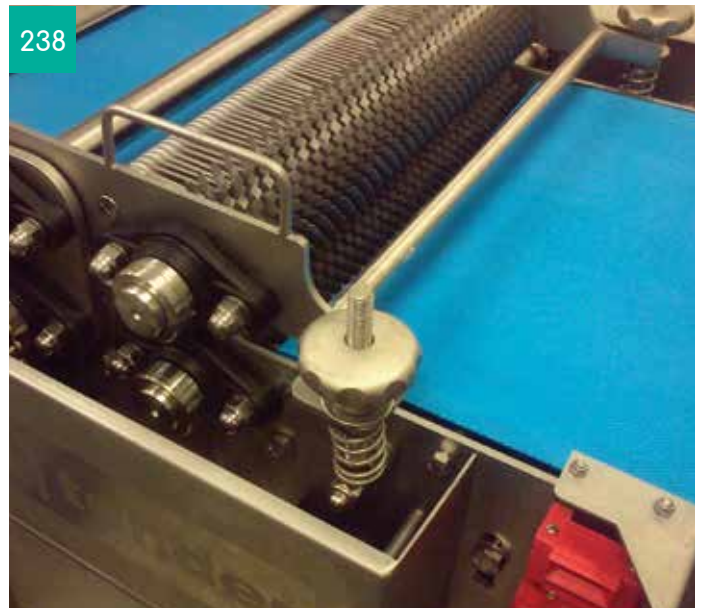
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Fruit Grader



Tenderizers - ITO50 Texture



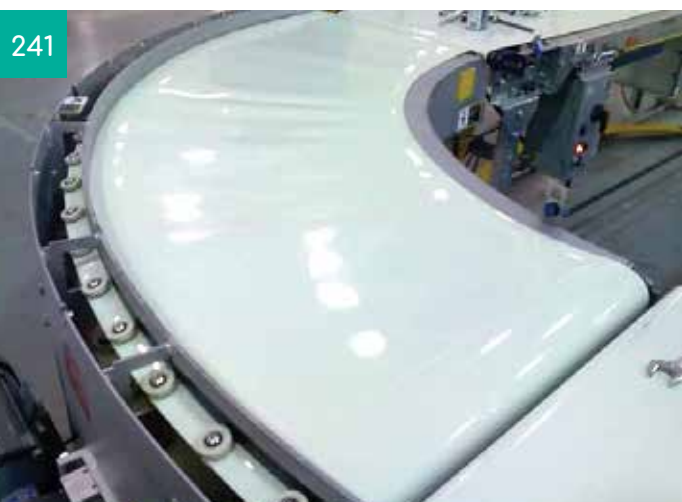
Meat Slicers - IRT Texture



Slicing System



FRLW Used on Curves



Perforated FMB Belt Working under Water



FHW-4

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FEMB-4

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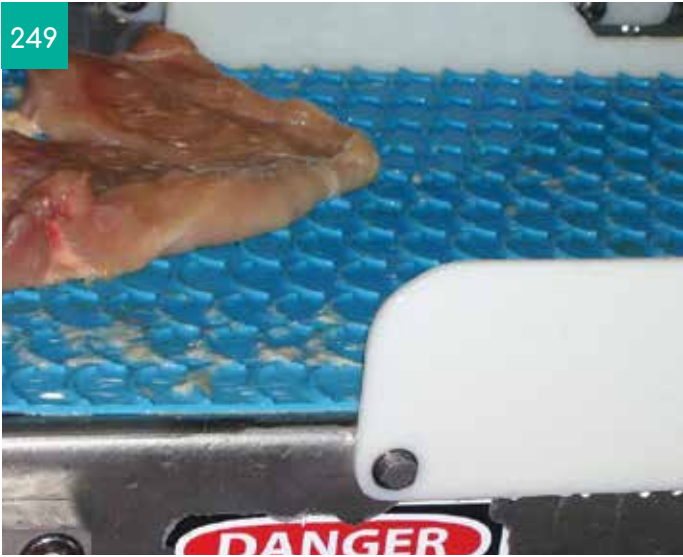
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Poultry Processing Lines

Crescent Top (CT)

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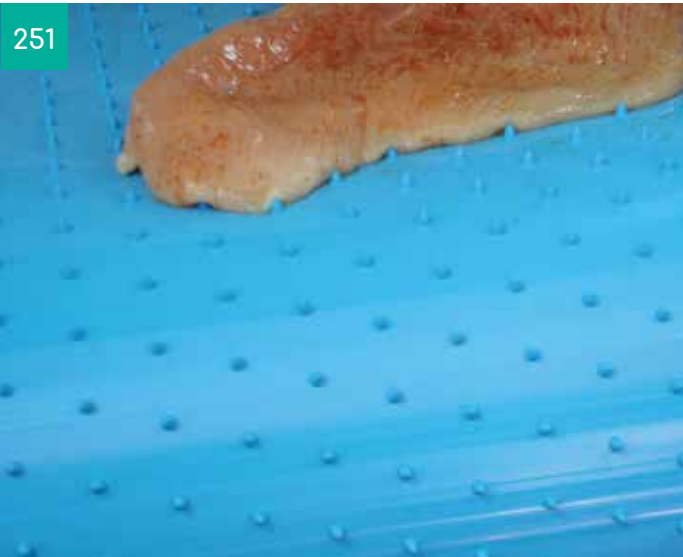
Impression Top Oval (ITO50)

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Spikes (SP)

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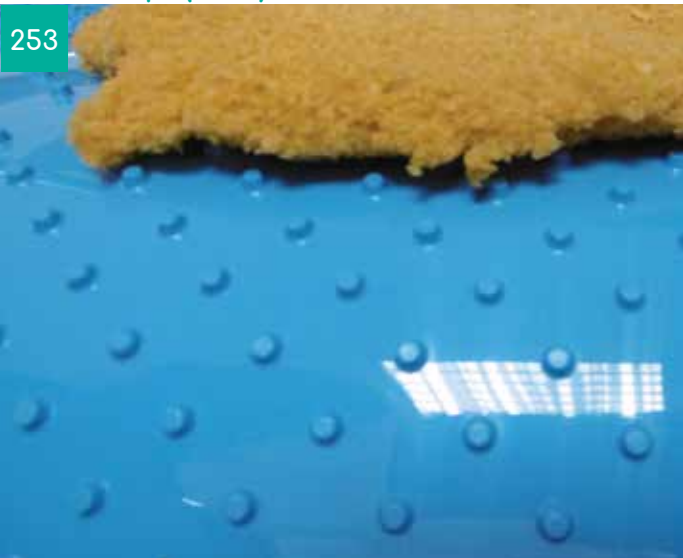
Meat Cleat (MC)

252



Nub Top (INT)

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Poultry Processing Lines



Volta FHB Belt in Tuna Processing

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FEMW on Tuna Canning Line

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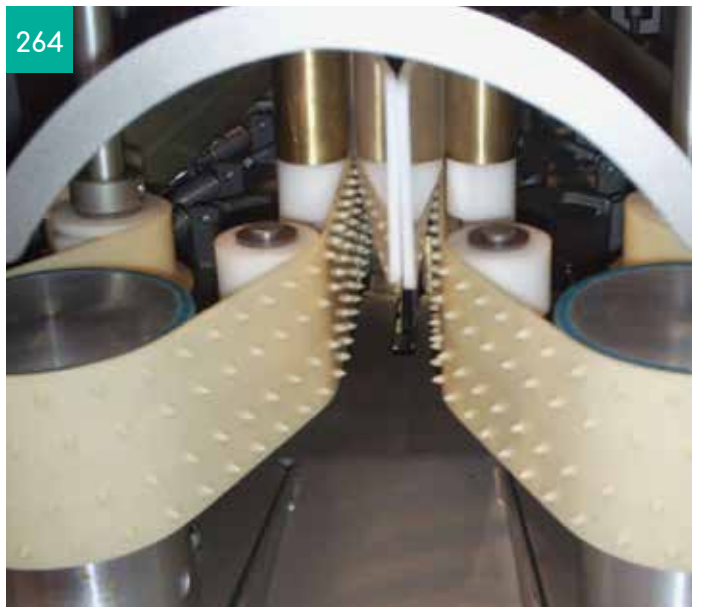
FHB

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FEMW-Spikes

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Fish Processing

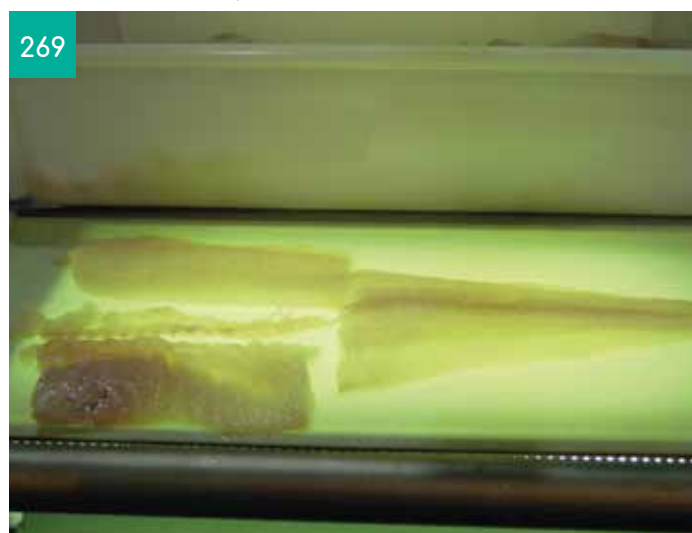
Salmon Processing Lines



Salmon Filleting FELB-2.5-MC



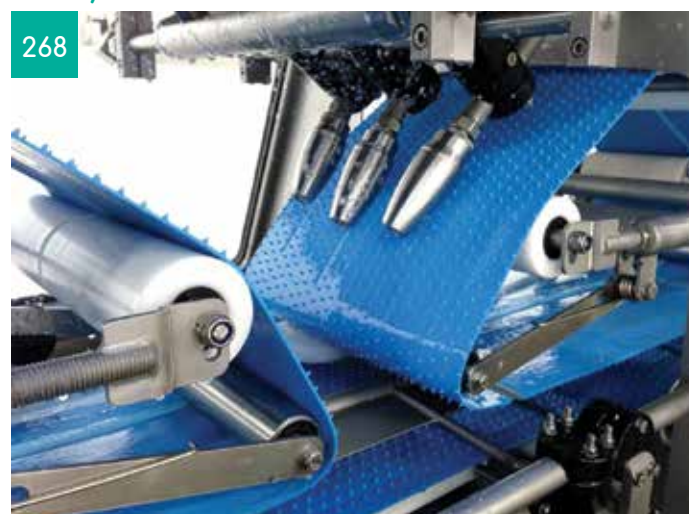
FELW for Optical Scanners



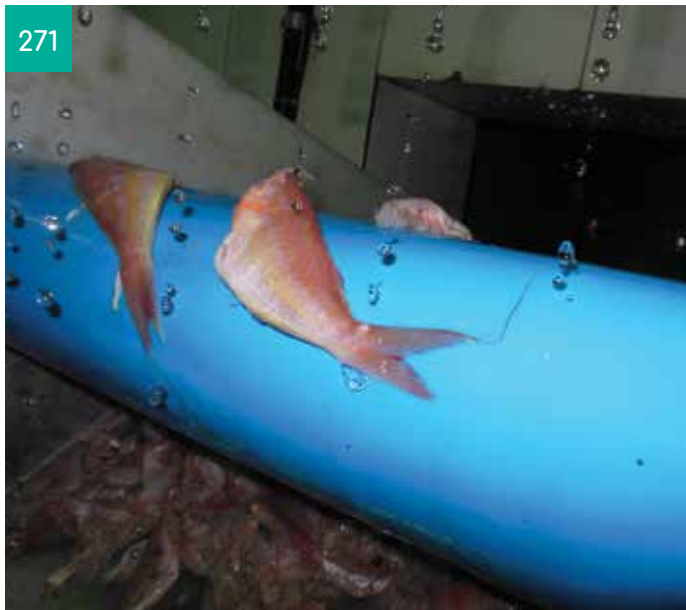
Salmon Processing Lines



FEMB-SP (Spike) - Easy Clean Mode on Slicer



Fish Washing Lines



Filleting Line



Fish Elevator



Scrap Conveyor



Herring Filleting



Fried Fish Grading Line



| Seafood Processing

Shrimps Sorting

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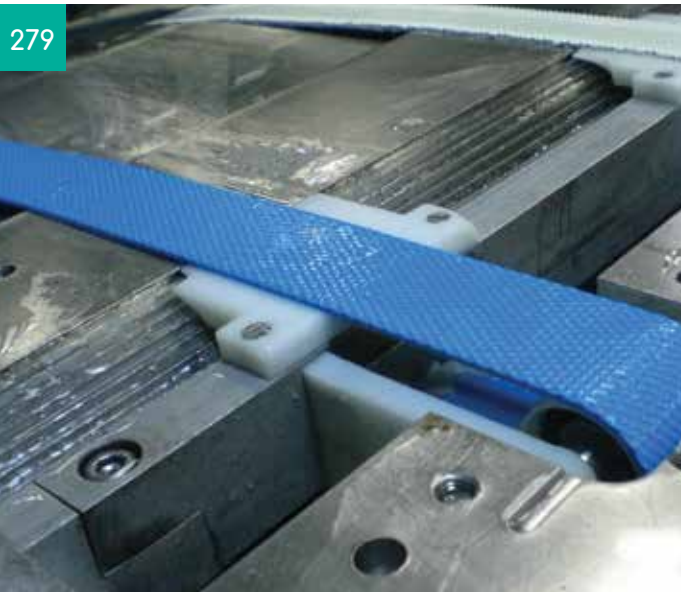


Surimi Production

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Perforated Belt

281

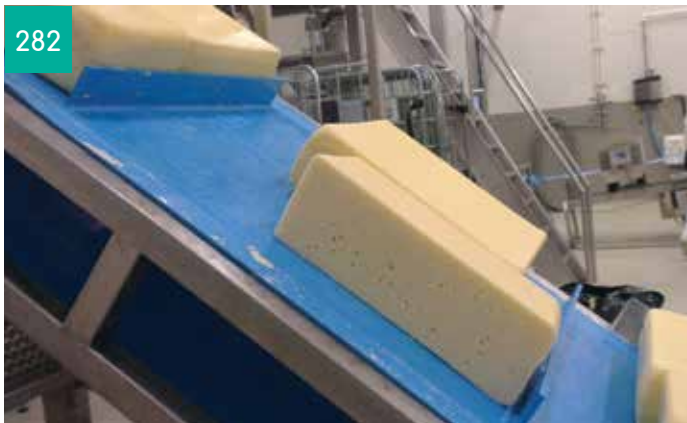


280



| Hard Cheese Processing

282



283

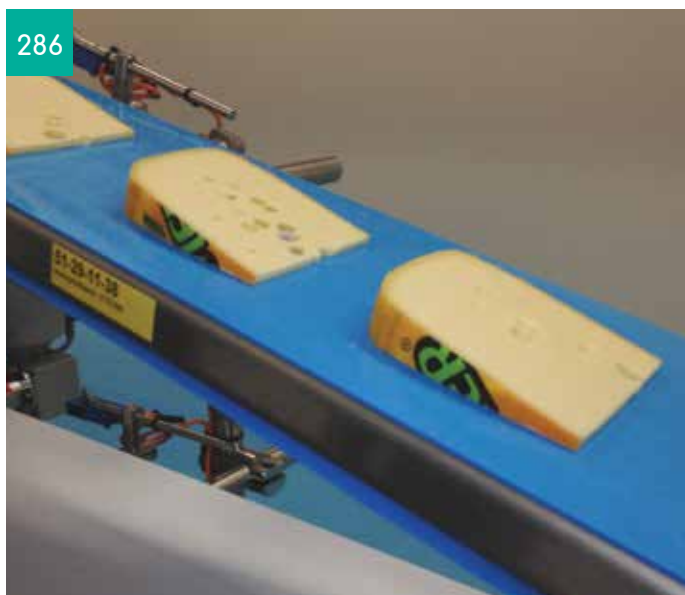


Cheese Cutting with Ultrasonic Knife

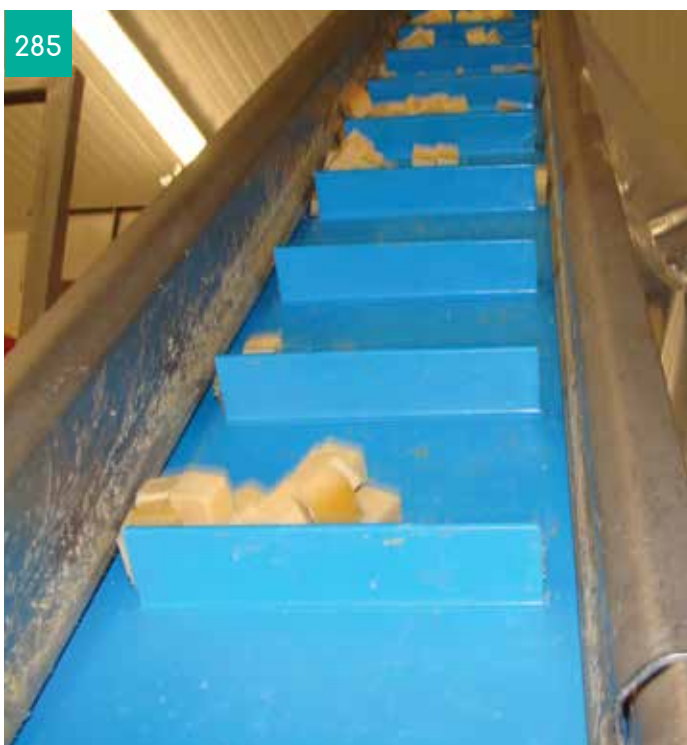
284



286



285



Trough Conveyor

287



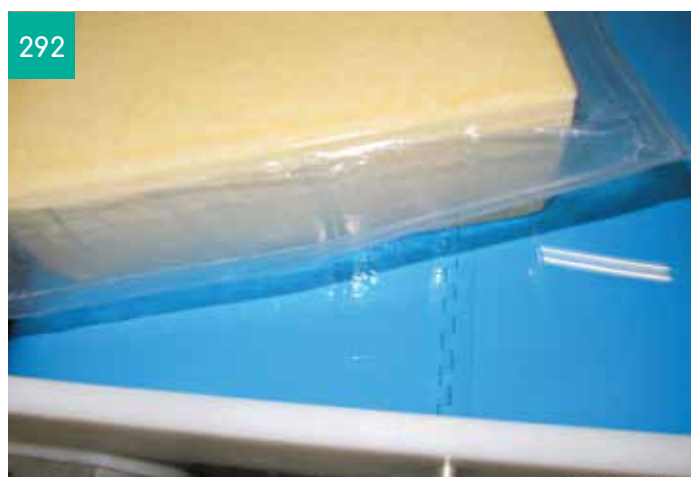
Soft Cheese Processing



Camembert



Soft Cheese Cutting



Bakery Belts

Cutting and Scrap Belt



Docking Belt



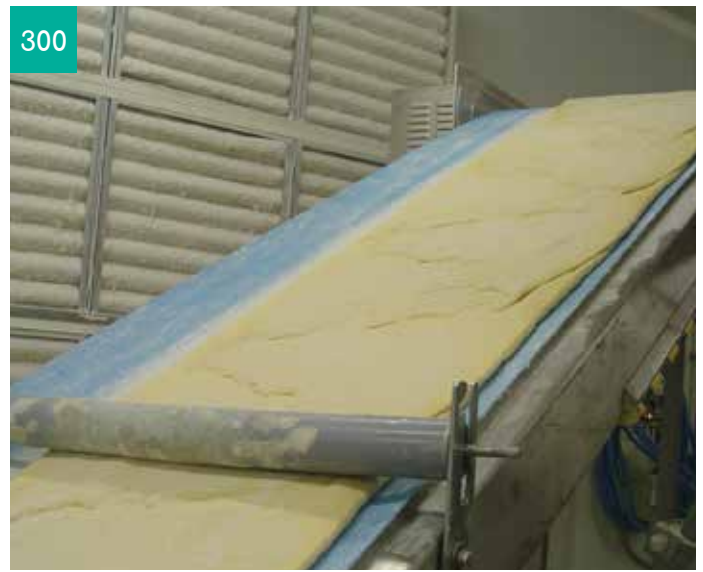
FRMB-2 Pre-Oven Transfer



Pizza Line



Volta Belts in the Bakery Industry;
FRMB - ITO50, FEMB - ITO50, FELB-ITO50-ACR
FRMB-2.5-ITO50 - Laminator



Guillotine Line - FELB-2



Narrow Transfer



Volta Belts In the Bakery Industry - FRMB - ITO50,
FEMB - ITO50,FELB-ITO50-ACR
Molding Machine



Transfer to Bread Molder



| Confectionery Production

Candies on Impression Roof Top (IRT)

311



Sugar Coated Jelly

312



313



| FHB-4 on chocolate processing line

314



| Hard-Boiled Candies

315

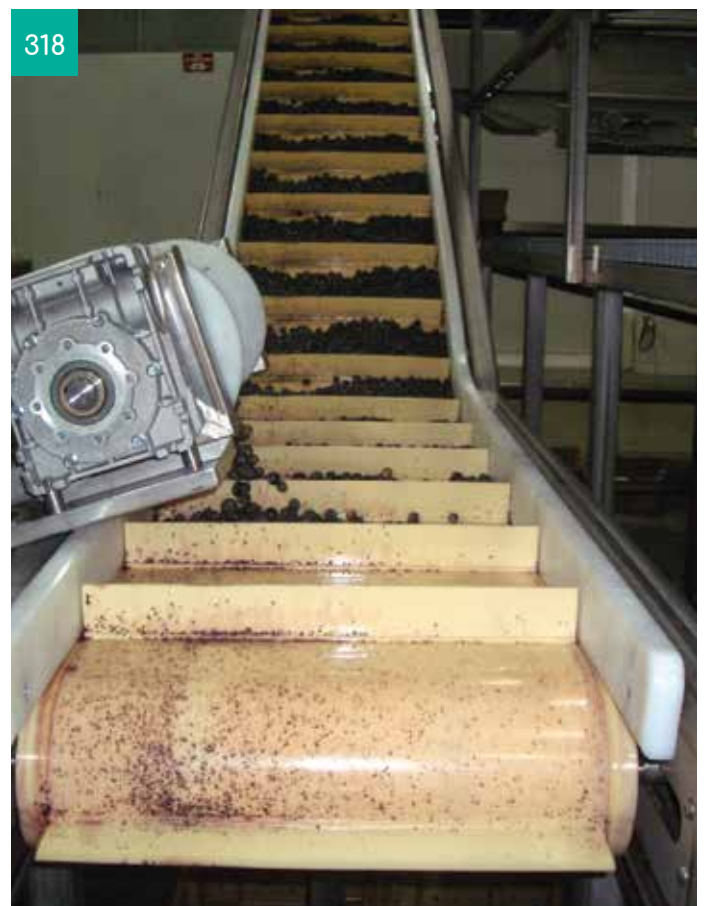




FEL & FELB Cushion Belt for Soft Fruits



| Blueberry Processing Line



Rice Processing

319



Dry Rice Snacks

320



321



Rice Dough

322



Fried Rice Snacks

323



324



Rabbit-Ear Belt

325



326



Garlic Sorting

327



Frozen Corn Inspection Lines

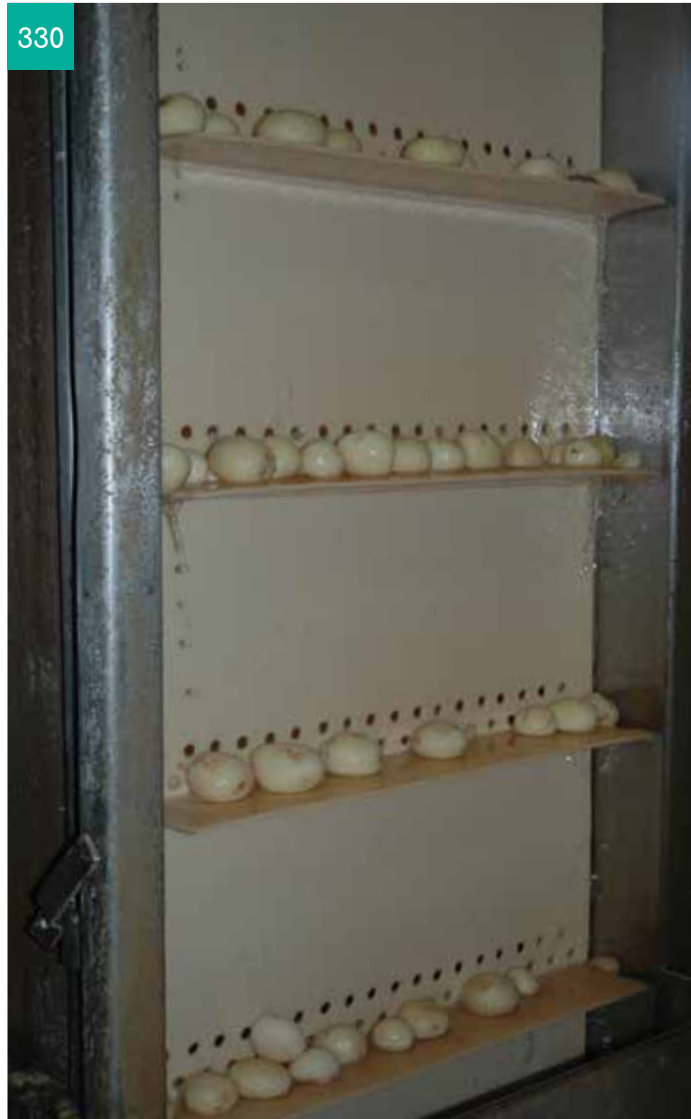
328



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Perforated Belts for Vegetable Washing



Perforated FMB Belt In Lettuce Washing



Tomato Processing

Cooked Tomato Inspection Lines - FHW-4 / FHB-4

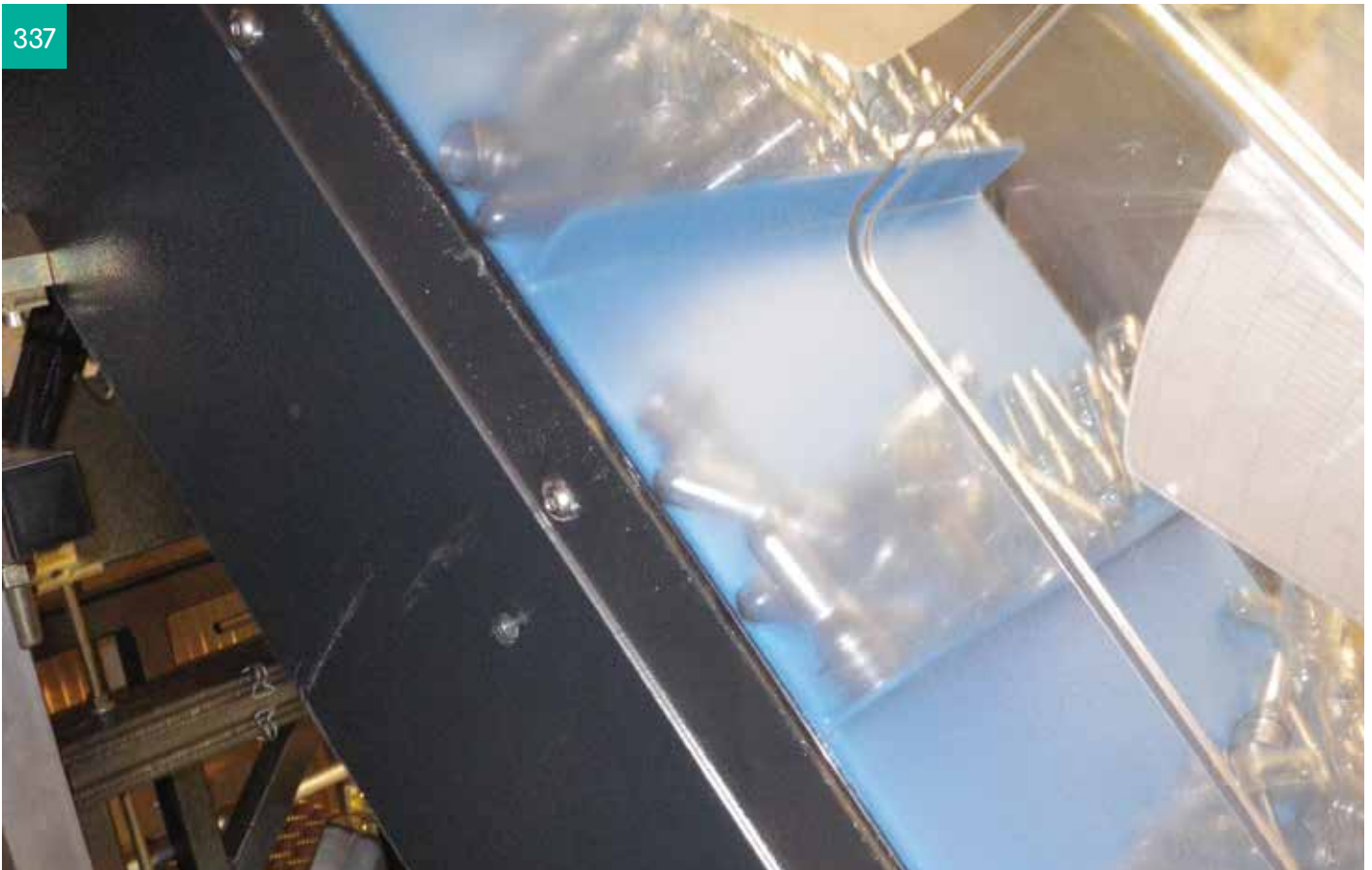


Plastic Parisons for Bottle - Blow Molding

336

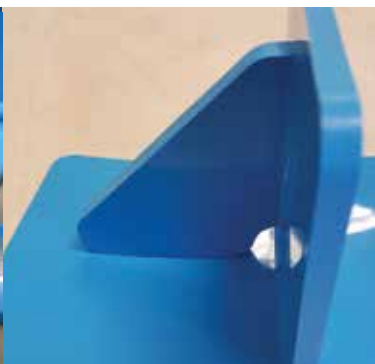
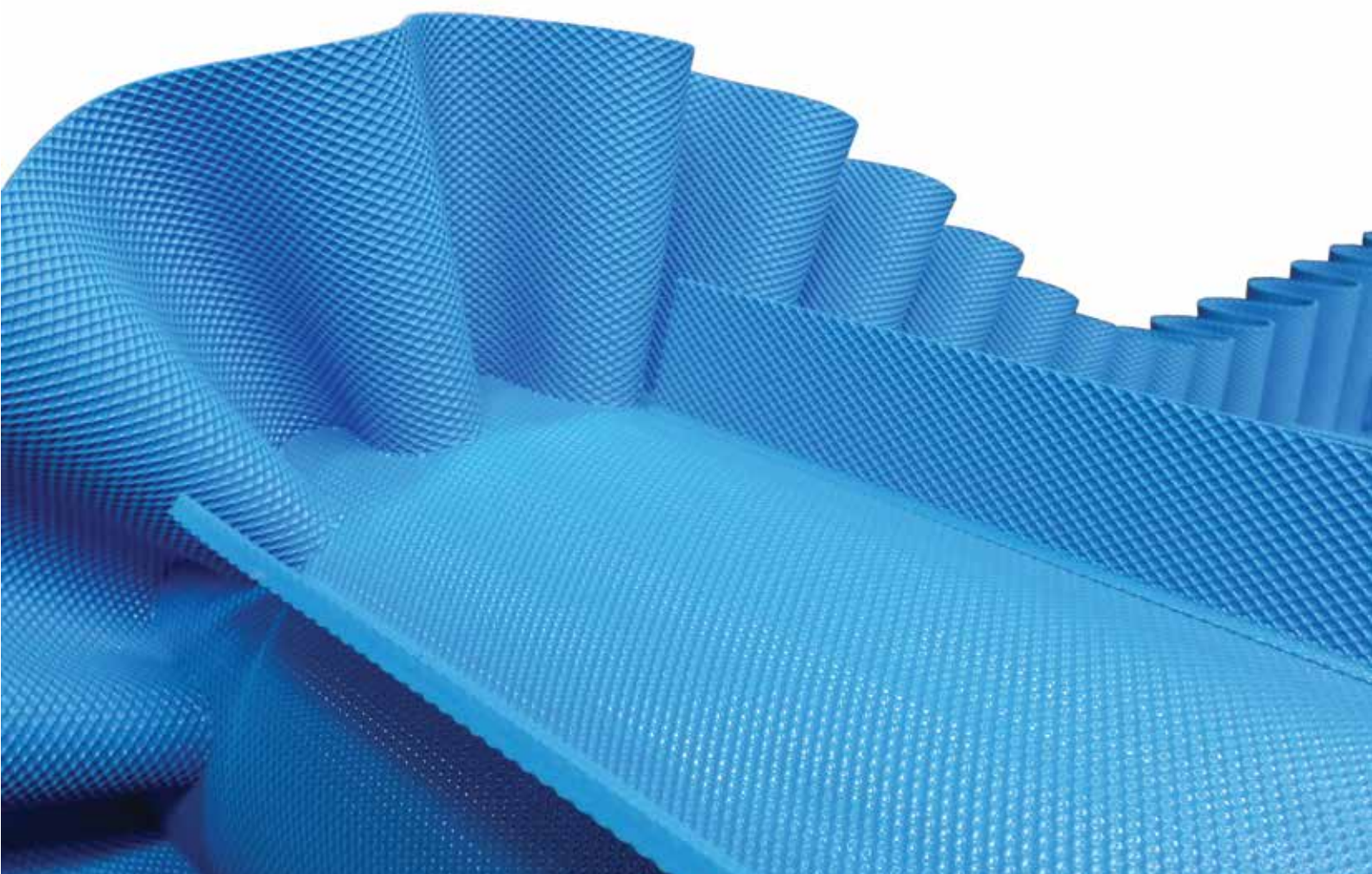


337



Conveying Solutions

The Art of Fabrications



Guide Welding Tool

338

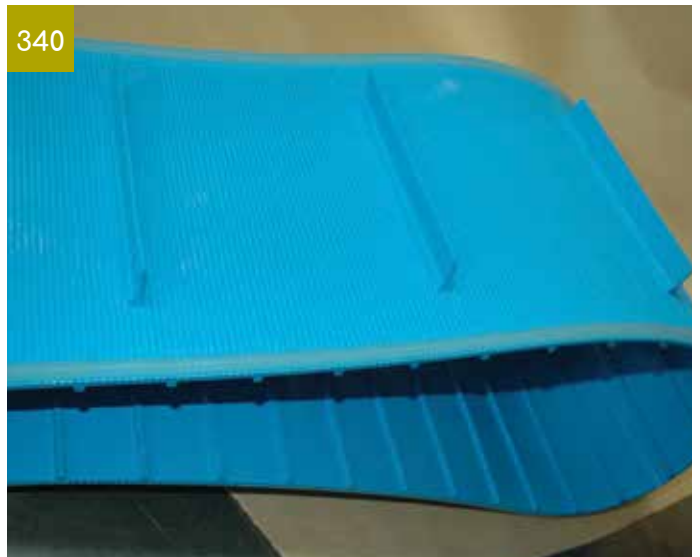


Top Guides

339



340



Bottom Guides

341



342



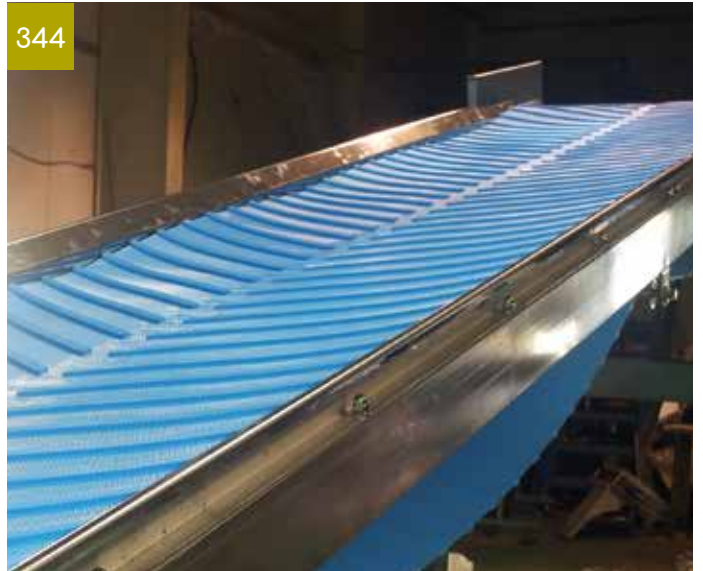
|Flights V-Guide Ribbing

343



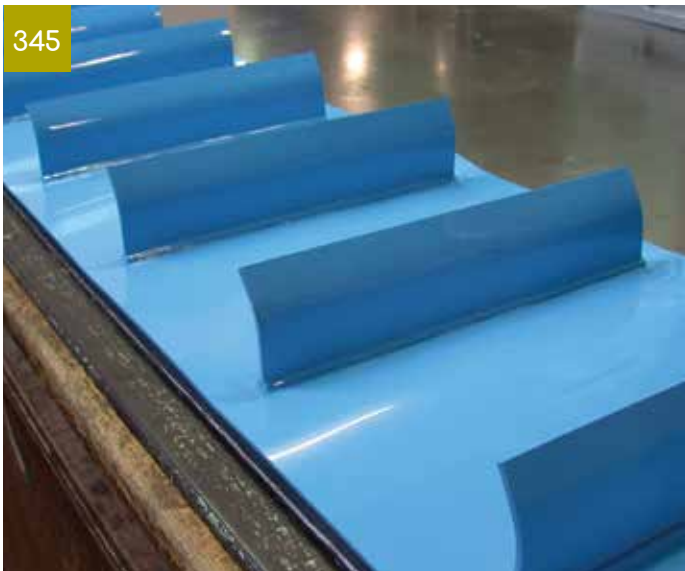
Chevron Flights

344



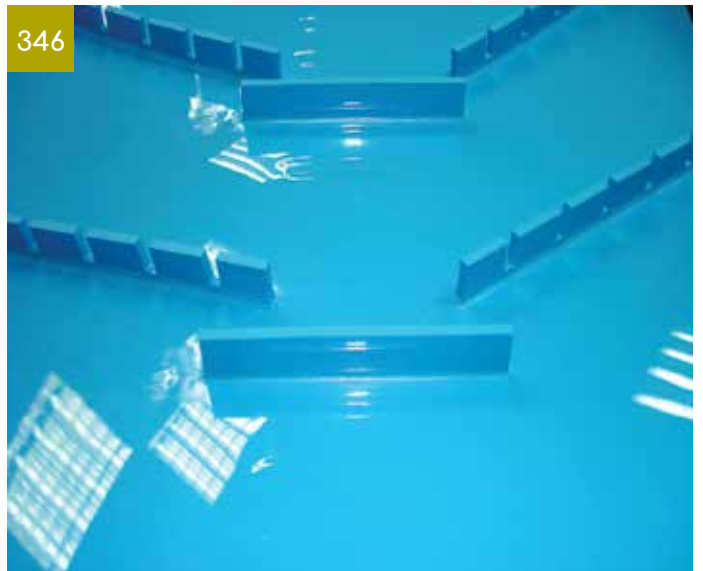
Electrode Welded Bent Flights

345



Custom-Made Flights

346



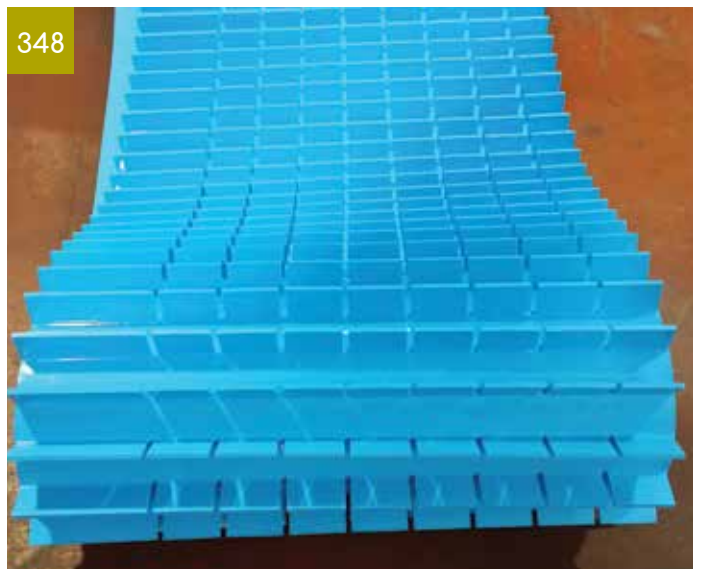
HF Welded Scoop Flights

347



Straight Flights

348



Baseless Sidewalls

349

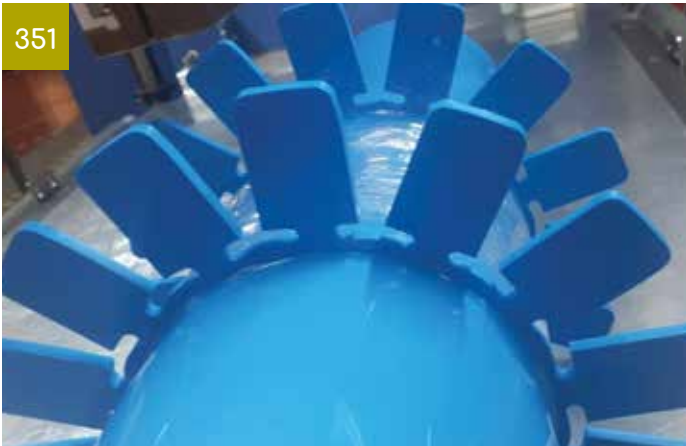


350



Straight Sidewalls

351



352



Red Meat Organ Conveyor

353



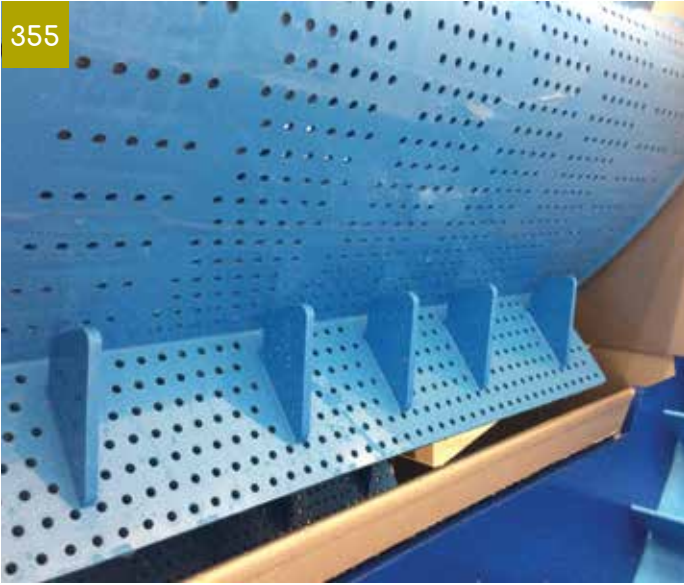
Custom-Made Belt

354



Perforated SuperDrive™ & Mini SuperDrive™ Belt

355

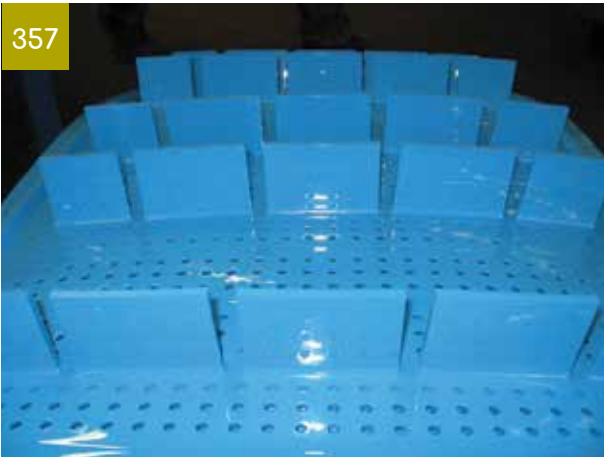


356

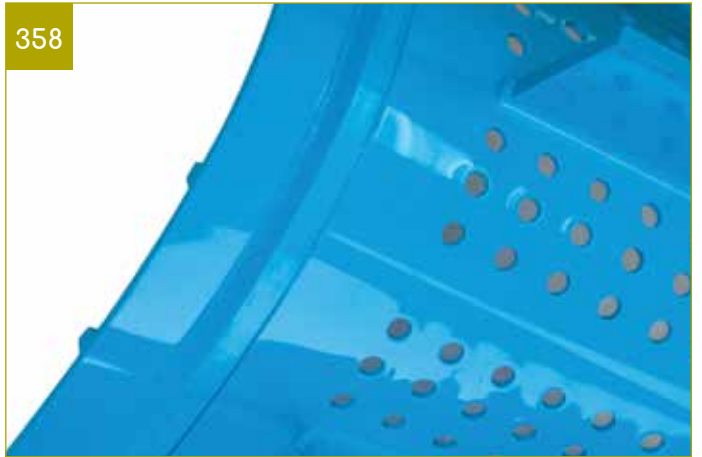


Perforated DualDrive™ & Mini DualDrive™ Belt

357



358



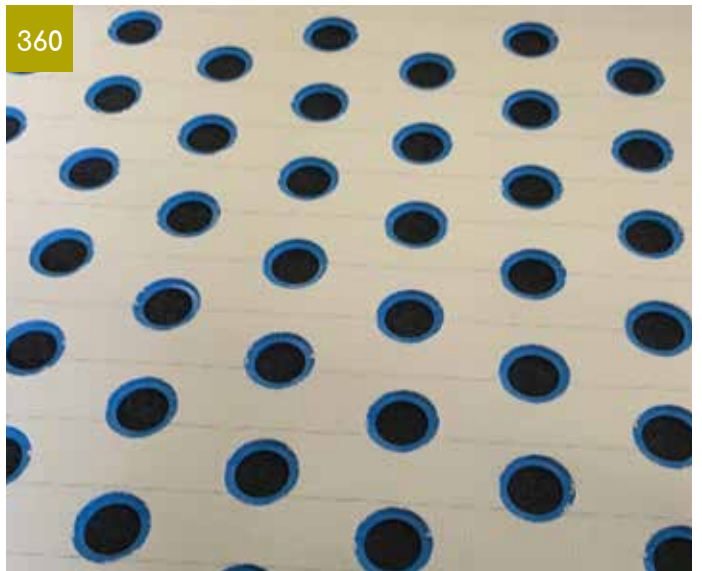
Perforated Homogeneous Belt

359



Perforated Reinforced Belt

360



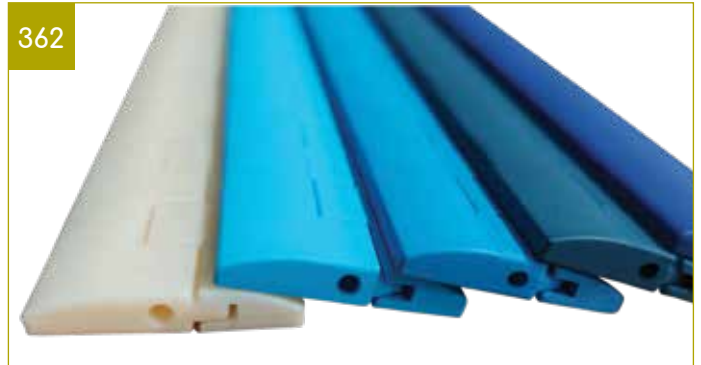
Volta Universal Lace

361



Volta RoundFlex™ Lace

362



Plastic Lace

364



Stainless Steel Metal Lace

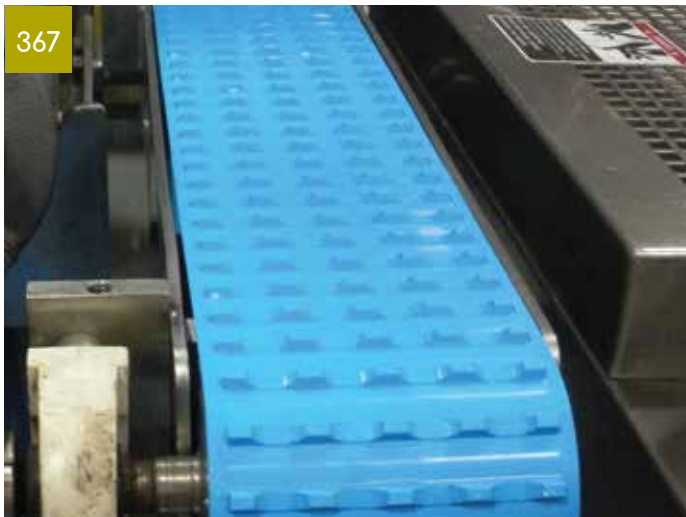
365



366



Surimi Belt



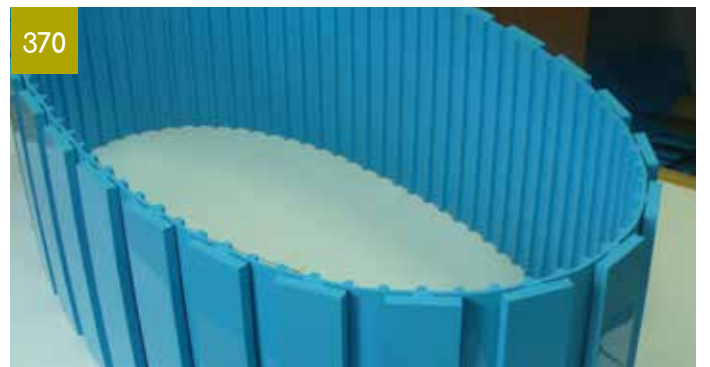
Roundels for Chocolate Coins



Sealed Edges



Tailor-Made Fabrications



Metal Spikes



Cushion Belts



Recessed Edges

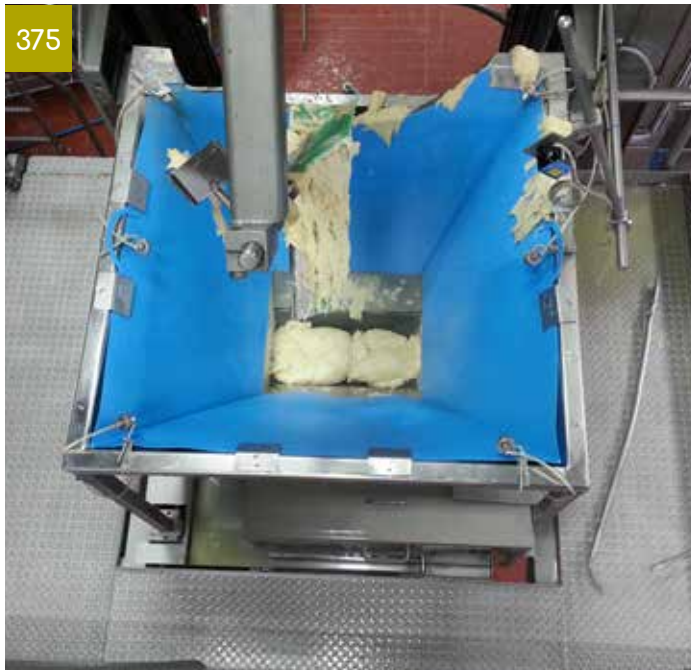


FMB/W, FHB/W, FLB Materials Used as Hoppers and Hammocks

374



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376



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Hammocks

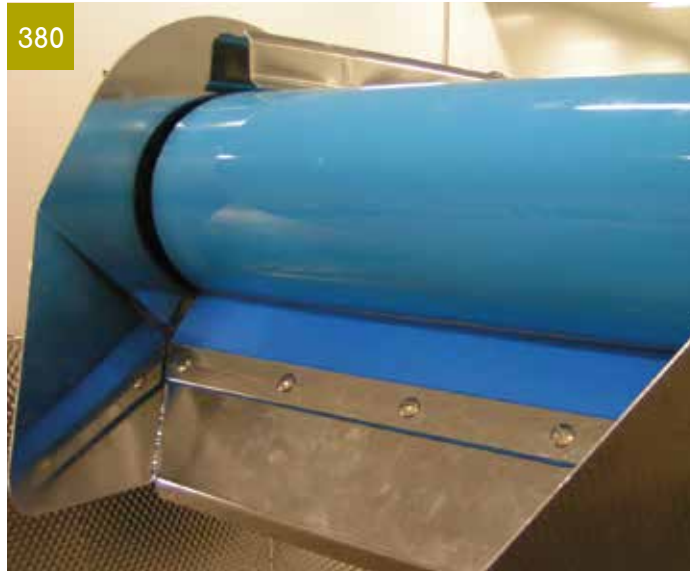
379



378



Scrapers - FMB/FHB



Skirting



Sorting Table Cover



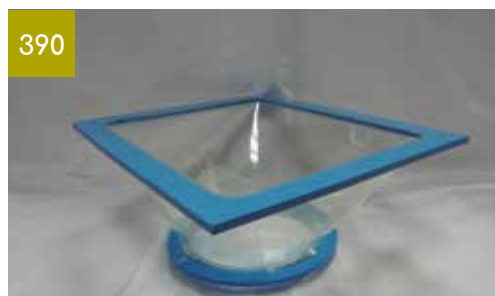
FMW-Beige/FMB-Blue/FMWC-Clear Material Used as Funnels



Free Fall
Through Metal
Detector



Square to Round



Flexible Tube



Conveying Solutions

`V` & Round Profiles



Volta Round Belts Used on Ring Activated Rollers

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Mini Pliers R-8

396



F-51 Pliers for Special Profiles

397



F-51 Pliers for V&Round Profiles

398



Easy Overlap Welding Tool

399



Plastic Tray Packaging Line
TELB-25



Steak Portioning Lines
ROS



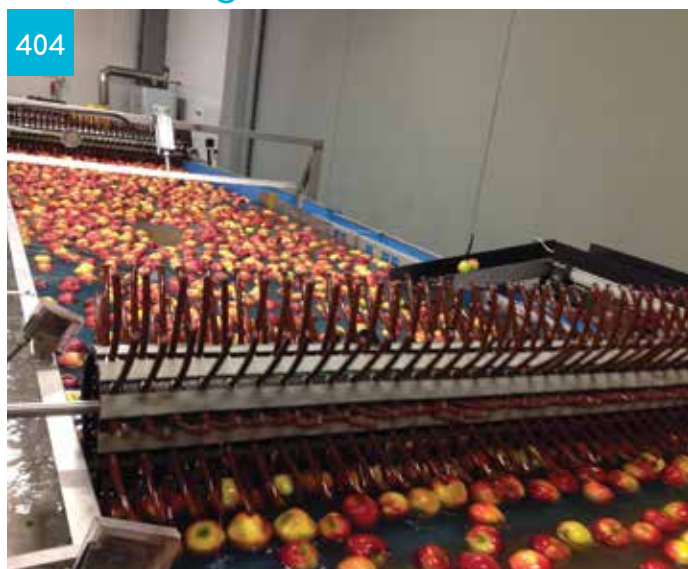
Fish Conveying VMW
with Spike Texture



Mushroom Graders -RO



Apple Washing - RL Profile
Used as Agitator



Filling Line



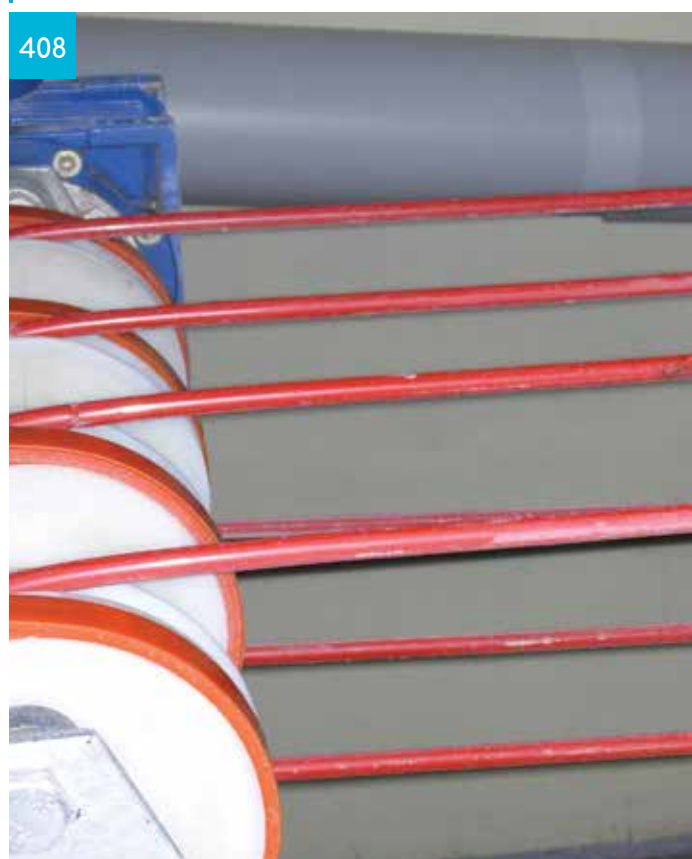
Pizza Line - ROS



Pita Line - VMS



Waffle Line - ROS & VOS



Cheese Lines -RMW



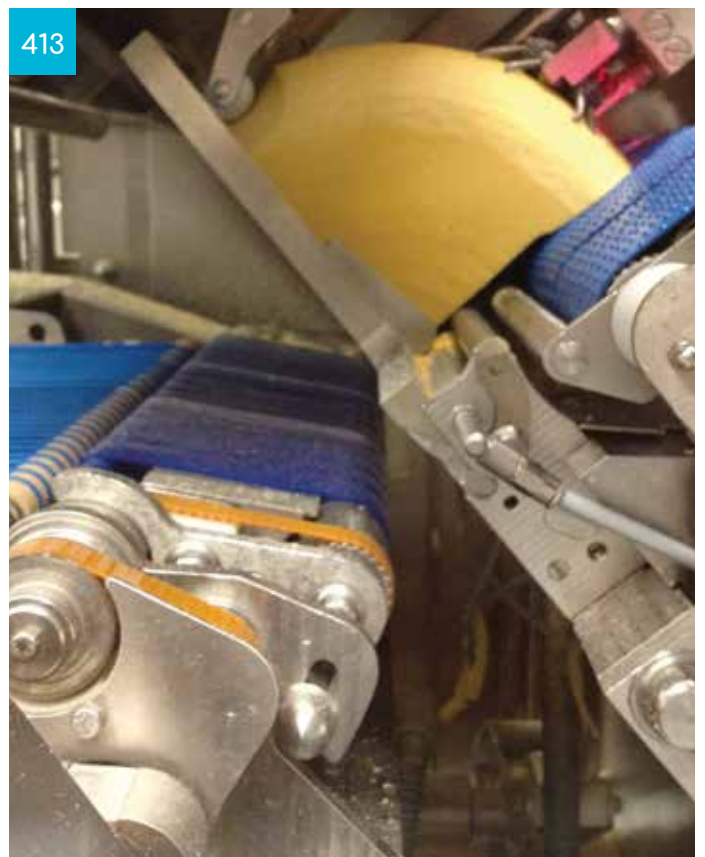
Tray Conveyor -RMW



Cheese Packaging -RO



Cheese Slicing - FETB Belt & RTB Profile



414



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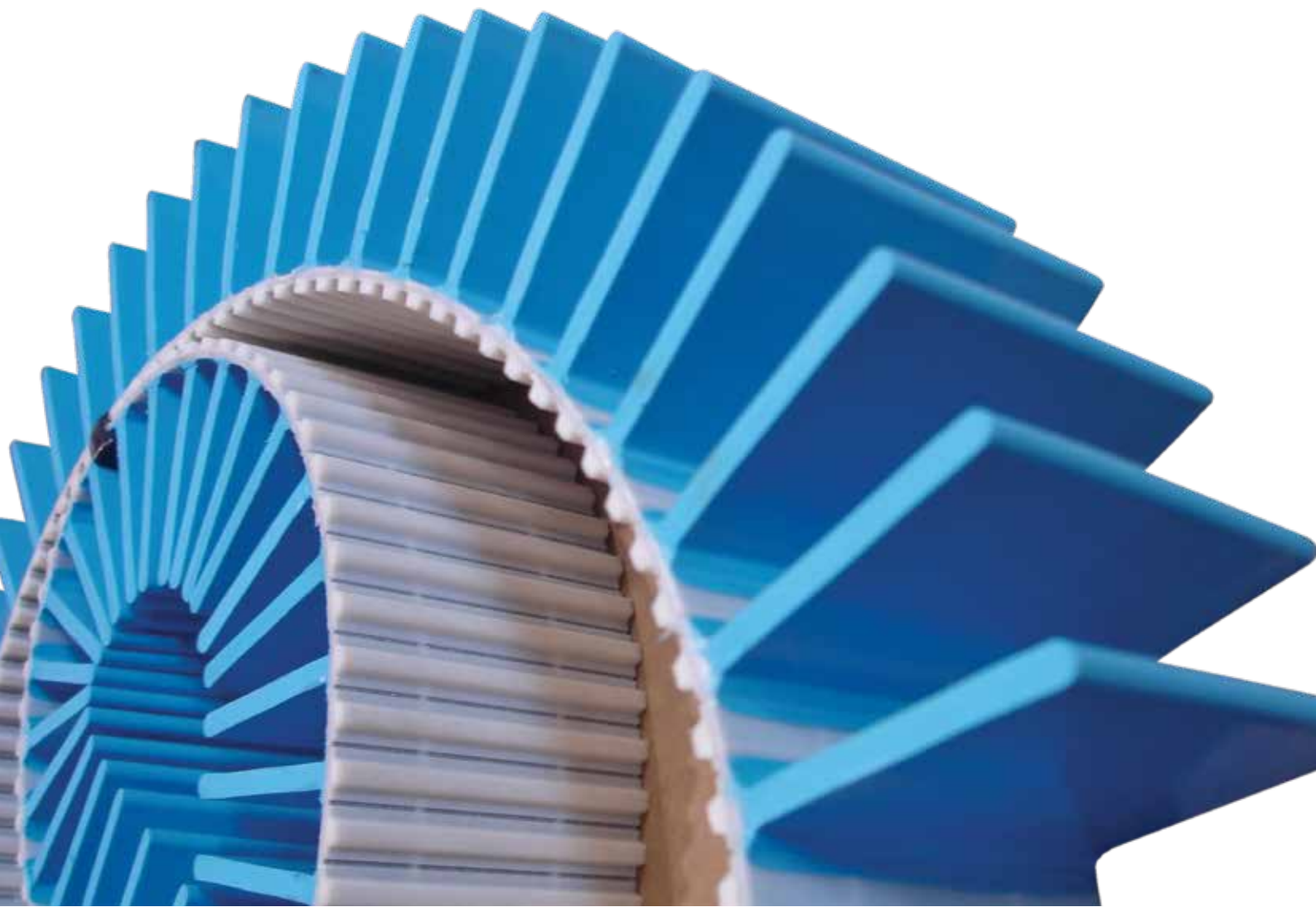


416

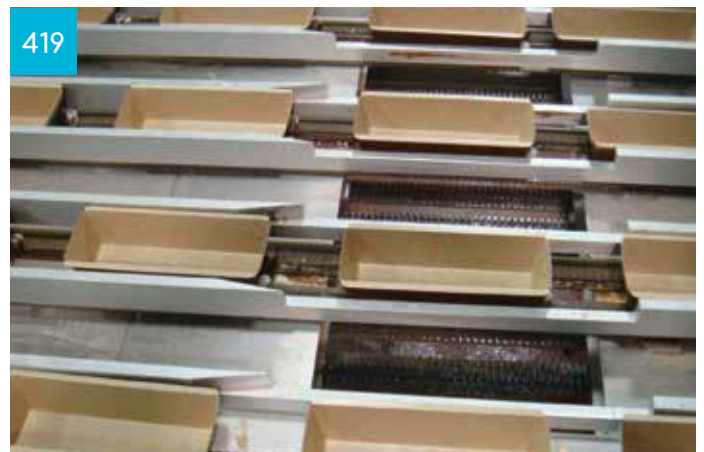
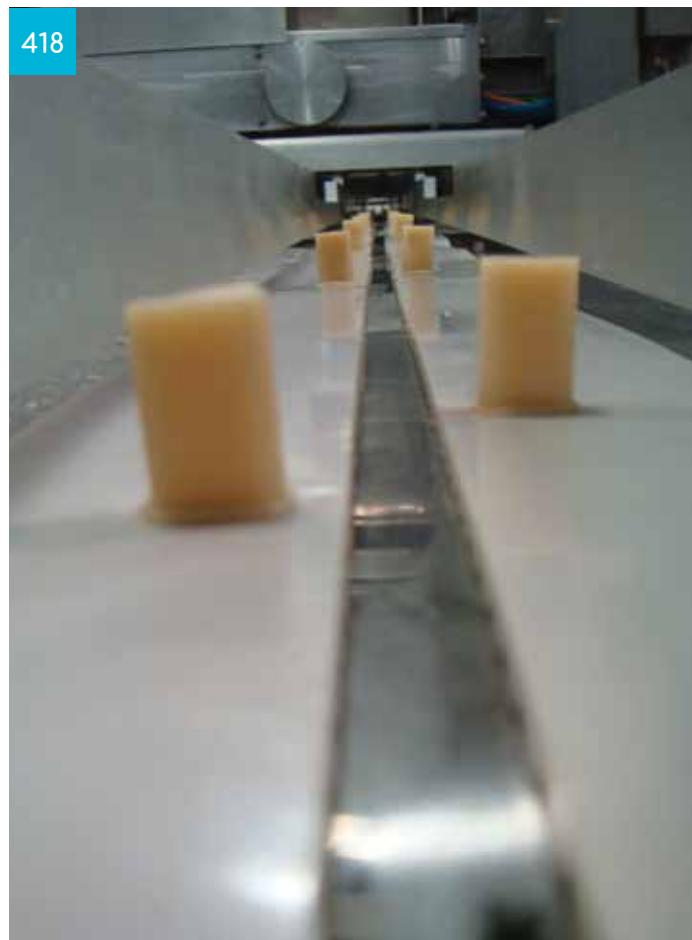


Conveying Solutions

Timing Belts



Cake Tray Conveying



Cleats Mounted on Timing over Elevator

420



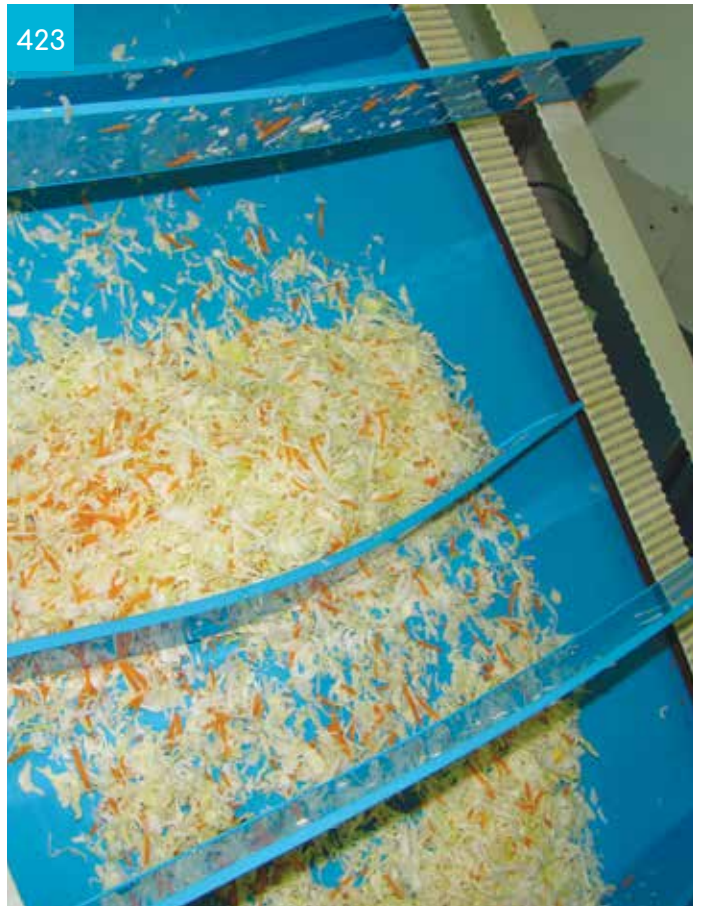
421



422

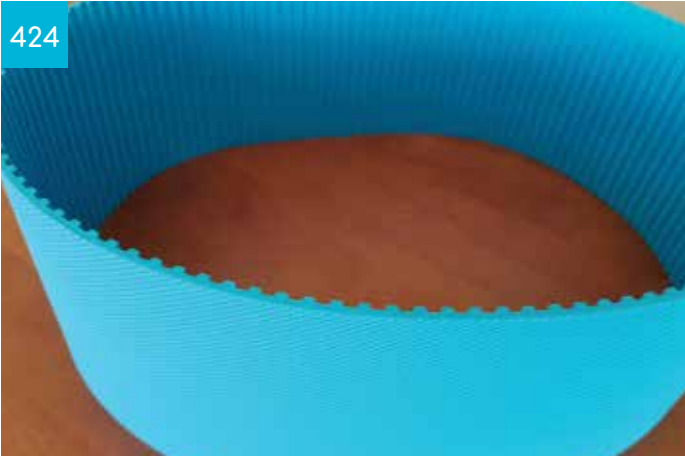


423

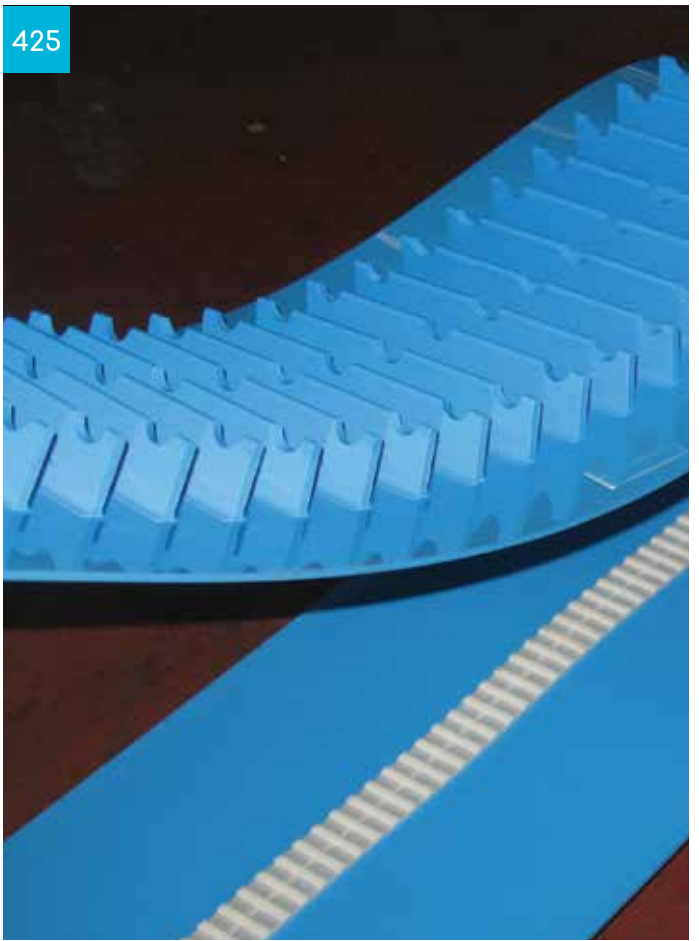


Timing Belt Fabrications

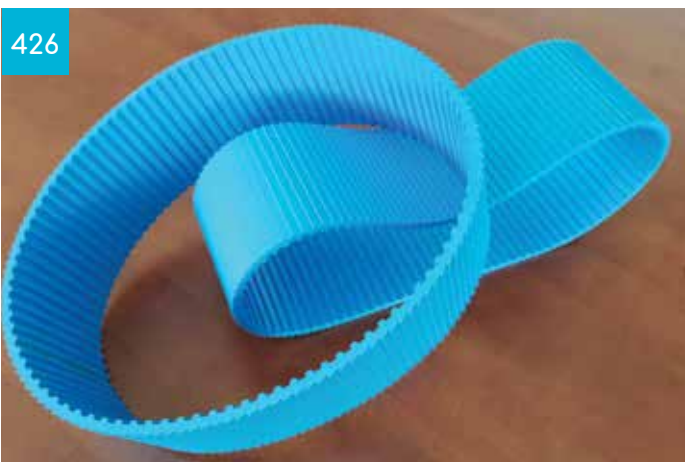
424



425



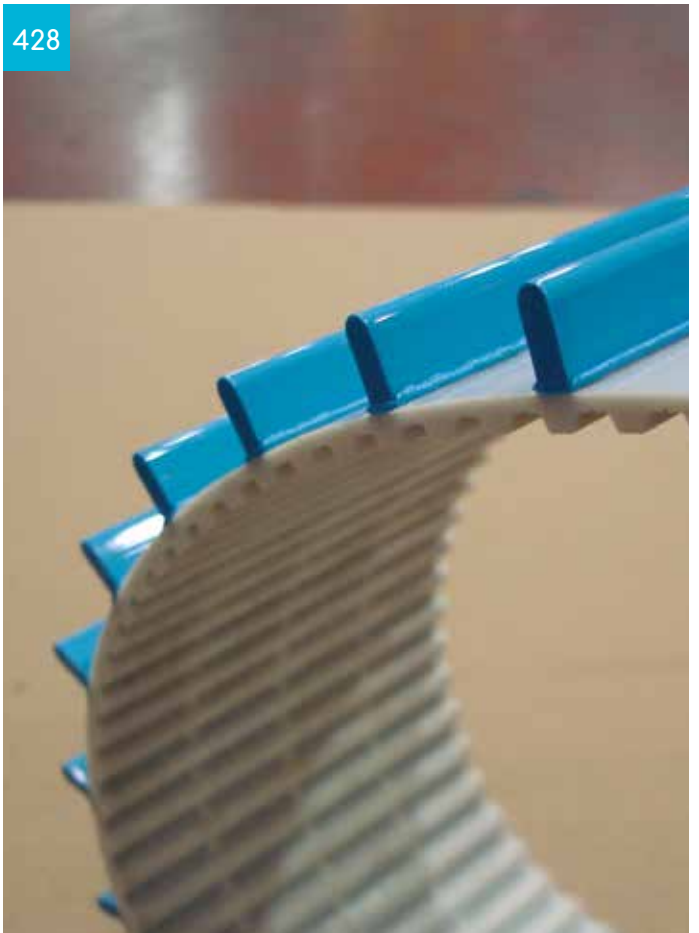
426



427



428



[illegible]

Notes

[illegible]

Notes

The Next Step in Belting

COMPANY PROFILE

Volta Belting Technology Ltd, established in 1965, is the world leader in the manufacture of Thermoplastic Elastomer (TPE) conveyor belting.

Volta's wide range of products have acquired a reputation for their high material strength, superior dimensional exactitude and stability. The materials are cut and wear resistant and impervious to water, oils and other fluids.

Volta has pioneered welding techniques for all belt types enabling fast installation on site and saving valuable downtime as the many service partners around the globe can testify and whose proficiency is supported by hands-on training conducted by Volta.

Product range:

- | VaR - V & Round profiles
- | Flat friction driven belts: monolithic, reinforced with embedded Aramid cords or a fabric under-layer
- | Homogeneous, fully extruded Positive Drive belts
- | Timing belts
- | Power Transmission belts
- | Special belts for wood-processing machinery
- | Spiral belts for Tube Winder machines
- | Haul Off / Caterpillar belts
- | Sleeves for quick coating of steel rollers
- | Composite, custom-made TPE belts e.g. tracks for unmanned robots or assembly line strip belts for automotive factories
- | Replacement for some stainless steel fabrications in lightweight, washable TPE – e.g. funnels and chutes, tubing, skirting and transparent dividers

Volta Belting's SuperDrive™ and Mini SuperDrive™ systems overcome the numerous shortcomings associated with conventional conveyor belts: certified food grade; better cleanability and suitability for all humid food processing than other belt types (see EHEDG Guideline 43); incorporating self-tracking capabilities which improve belt hygiene and reduce conveyor cost while applying Hygienic Design principles.

Volta Belting provides experienced sales and technical service support in more than 50 countries, covering major industrial centers throughout North and South America, Europe, Asia and Africa. On-site training is available at Volta Belting's main fabrication centers in North America and Europe.

Volta Belting innovative belting technology guarantees extended productivity, lower costs of ownership and optimal operation in every installation.

Volta Belting's positive drive and homogeneous food grade belting complies with the following food contact standards and regulations:

- | USDA/FDA approved
- | Requirements of Code of Federal Regulations (CFR21) USDA FDA article 21 CFR 177.2600
- | European Regulation (EU) No. 1935/2004
- | European Regulation (EU) No. 10/2011 amended by 2017/752
- | European Regulation (EU) No. 2023/2006
- | German Regulation BfR XXI

Volta Belting is a member of professional industry organizations:

- | EHEDG (European Hygienic Engineering and Design Group) – see Guideline 43
- | NIBA (National Industrial Belting Association)