

Fast and Effective  
Cleaning Capability

Open Frame  
Tool-less Design

Innovative Staggered  
Sidewall Belts

Quick Belt  
Change



*Aqua***Pruf**<sup>®</sup>  
VB  
BT

**VERTICAL BELT  
TECHNOLOGY**

Sanitary Vertical Belt Conveyors  
for Elevating Bulk Products



# VERTICAL BELT TECHNOLOGY

## AquaPruf Vertical Belt Technology is best for:

Elevating bulk product such as:

- Vegetables
- Fruits, Grains and Nuts
- Popcorn
- Pet Foods
- Pharmaceuticals
- Small packages

Industries:

- Food
- Pharmaceutical
- Chemical

Applications:

- Elevation for walk-thru
- Hopper feeding
- Weigh scale feeding
- General bulk handling
- Sanitary environments

## Sizes

- Lengths – Infeed and Exit
  - Minimum length = 20"
  - Maximum length = 72"
  - Length increments = 1/8"
- Heights
  - Minimum infeed TOB = 16"
  - Maximum outfeed TOB = 240"
  - Height increments = 1/8"

Belt Width (in)	Pocket Width (in)	Full Pocket Capacity (cubic ft)	½ Full Pocket Capacity (cubic ft)
12"	6.3	0.022	0.011
14"	8.3	0.029	0.014
16"	10.3	0.036	0.018
18"	12.3	0.043	0.022
20"	14.3	0.051	0.025
22"	16.3	0.058	0.029
24"	18.3	0.065	0.033

## Speeds

- Belt Speed up to 100 ft/min

## Belting

- Solid Urethane Belting with 2" pitch positive drive lugs
- 3.5" Tall RF welded scoop cleat
- 3.5" tall RF welded staggered sidewall
- Pocket Spacing
  - Minimum = 6"
  - Maximum = 18"
  - Spacing Increments = 2"



## Maximum Product Capacity

Belt Width (in)	Pocket Width (in)	At 50 ft/min Belt Speed and 6" Spacing:			At 100 ft/min Belt Speed and 6" Spacing:		
		Full Pocket (cubic ft/hour)	2/3 Full Pocket (cubic ft/hour)	1/2 Full Pocket (cubic ft/hour)	Full Pocket (cubic ft/hour)	2/3 Full Pocket (cubic ft/hour)	1/2 Full Pocket (cubic ft/hour)
12"	6.3	130	86	65	260	173	130
14"	8.3	173	115	86	347	231	173
16"	10.3	217	144	108	434	289	217
18"	12.3	260	173	130	520	347	260
20"	14.3	303	202	151	607	405	303
22"	16.3	347	231	173	694	463	347
24"	18.3	390	260	195	781	520	390

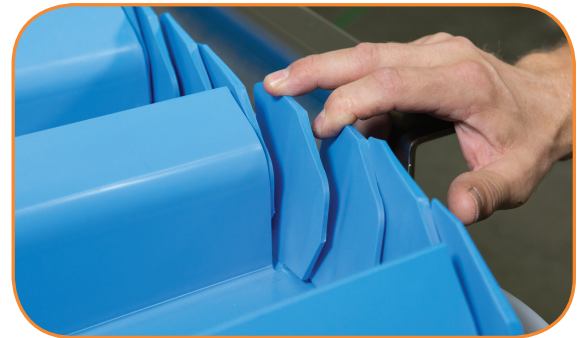
## Open Frame/Tool-Less Sanitary Design

- Continuous TIG welded 304 stainless steel frame
- #4 Polish on all surfaces
- Open frame and tool-less design for ease of cleaning
- Drive Gearmotor located on main column outside food drop zone



## Staggered Sidewall Belt

- Staggered Sidewall Belt provides 15% more pocket capacity than a traditional sidewall belt
- Self-Releasing Sidewall improves product release
- Consistent RF Bonded Staggered Sidewall with 80% less bond area
- Staggered Sidewalls can be individually and easily repaired if damaged
- Clean through Side Wall Design improves clean-ability and reduces cleaning time and water usage



## Quick Belt Change

- Quick Change open frame design allows belt change in approximately 20 minutes
- Tool-less removal of idlers and belt supports
- Loose belt drops down main column
- No belt tensioning needed



## The Benefits of a Dorner AquaPruf Vertical Belt Technology

- **Innovative Offering**
  - Open frame design for quick cleaning and more effective product changeover
  - New, unique staggered sidewall belt improves pocket capacity
  - Quick belt change in approximately 20 minutes
- **Delivers Fast**
  - Dorner sets the industry standard for rapid delivery
  - Customizable product sizes available in 25 days or less
- **Industry Ready**
  - Designed and manufactured to food equipment standards
  - FDA Approved and USDA Certified Food Safe belt material
  - Motor located on main column outside of food drop zone

At Dorner we make it our mission to provide you with a system that you can depend on to move your product from point A to point B with precision and speed. It's that commitment and history of proven excellence that has made the Dorner Brand a recognized leader in precision conveyors for nearly 50 years. With our complete line of customizable conveyor systems we have the perfect solution for you!



## 1X Series

The 1X Series Line is designed for small part handling and transfers where space is a premium.

### 1X Series Family:

- Flat Belt
- Aluminum Frame
- Widths to 10"
- Loads to 15 lbs
- Speeds up to 80 fpm



## 2X Series

The 2X Series Line is engineered for small to medium sized parts, precision applications and flexible layouts.

### 2X Series Family:

- Flat Belt
- Cleated Belt
- Modular Belt
- Precision Move
- SmartFlex®
- Aluminum Frame
- Widths to 24"
- Loads to 200 lbs
- Speeds up to 400 fpm
- Curves



## 3X Series

The 3X Series Line is designed for medium to heavy sized parts, precision applications, bulk handling and flexible layouts.

### 3X Series Family:

- Flat Belt
- Cleated Belt
- Modular Belt
- Flexible Chain
- Precision Move
- Aluminum Frame
- Widths to 60"
- Loads to 1000 lbs
- Speeds up to 600 fpm
- Curves
- Z-Frame Elevators



## 7X Series

The 7X Series Stainless Steel Line is engineered for small to heavy product requiring various levels of sanitary design and flexible layouts.

### 7X Series Family:

- AquaPruf® + AquaGuard®
- Flat Belt
- Cleated Belt
- Modular Belt
- Flexible Chain
- Vertical Belt Technology
- Stainless Steel Frame
- Widths to 52"
- Loads to 750 lbs
- Speeds up to 400 fpm
- Curves
- Z-Frame Elevators

### NEED SOMETHING DIFFERENT?

DORNER'S **ENGINEERED SOLUTIONS GROUP** PROVIDES EXACTLY WHAT YOU NEED FOR YOUR SPECIFIC APPLICATION. FROM MODIFIED STANDARD CONVEYORS TO COMPLETE CUSTOM DESIGNS.

### LOOKING FOR AFTER SALE SUPPORT?

DORNER'S **SERVICES TEAM** PROVIDES COMPLETE SUPPORT FROM REPLACEMENT PARTS TO INSTALLATION AND MAINTENANCE SERVICES.

