

Fast and Effective  
Cleaning Capability

Open Frame  
Tool-less Design

Innovative Staggered  
Sidewall Belts

Quick Belt  
Change



*Aqua***Pruf**<sup>®</sup>  
VBT

**VERTICAL BELT  
TECHNOLOGY**

Sanitary Vertical Belt Conveyors  
for Elevating Bulk Products

**DORNER**<sup>®</sup>  
By Columbus McKinnon

## 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: 508 mm (20 in)
- Maximum length: 1828.8 mm (72 in)
- Length increments: 6.35 mm (1/8 in)

Heights

- Minimum infeed TOB: 406.4 mm (16 in)
- Minimum outfeed TOB: 1828.8 mm (72 in)
- Maximum outfeed TOB: 6096 mm (240 in)
- Height increments: 6.35 mm (1/8 in)

Belt Width mm (in)	Pocket Width mm (in)	Full Pocket Capacity cubic m (ft)	½ Full Pocket Capacity cubic m (ft)
304.8 (12)	160.02 (6.3)	0.0006 (0.022)	0.0003 (0.011)
355.6 (14)	210.82 (8.3)	0.0008 (0.029)	0.0004 (0.014)
406.4 (16)	261.62 (10.3)	0.0010 (0.036)	0.0005 (0.018)
457.2 (18)	312.42 (12.3)	0.0012 (0.043)	0.0006 (0.022)
508 (20)	363.22 (14.3)	0.0014 (0.051)	0.0007 (0.025)
558.8 (22)	414.02 (16.3)	0.0016 (0.058)	0.0008 (0.029)
609.6 (24)	464.82 (18.3)	0.0018 (0.065)	0.0009 (0.033)

## Speeds

- Belt Speed up to 30.48 m/min (100 ft/min)

## Belting

- Solid Urethane Belting with 51 mm (2 in) pitch positive drive lugs
- 89 mm (3.5 in) tall RF welded scoop cleat
- 89 mm (3.5 in) tall RF welded staggered sidewall
- Pocket Spacing
  - Minimum: 152.4 mm (6 in)
  - Maximum: 457.2 mm (18 in)
  - Spacing Increments: 51 mm (2 in)
- Modular Belt version also available. Contact factory for details.



Modular Belt version also available.

## Maximum Product Capacity

Belt Width (in)	Pocket Width (in)	At 15.24 m/min (50 ft/min) Belt Speed and 6 in Spacing:			At 30.48 m/min (100 ft/min) Belt Speed and 6 in Spacing:		
		Full Pocket cubic m/hour (ft/hour)	2/3 Full Pocket cubic m/hour (ft/hour)	1/2 Full Pocket cubic m/hour (ft/hour)	Full Pocket cubic m/hour (ft/hour)	2/3 Full Pocket cubic m/hour (ft/hour)	1/2 Full Pocket cubic m/hour (ft/hour)
304.8 (12)	160.02 (6.3)	3.68 (130)	2.44 (86)	1.84 (65)	7.36 (260)	4.90 (173)	3.68 (130)
355.6 (14)	210.82 (8.3)	4.90 (173)	3.26 (115)	2.44 (86)	9.83 (347)	6.541 (231)	4.90 (173)
406.4 (16)	261.62 (10.3)	6.14 (217)	4.08 (144)	30.75 (108)	12.29 (434)	8.18 (289)	6.14 (217)
457.2 (18)	312.42 (12.3)	7.36 (260)	4.90 (173)	3.68 (130)	14.72 (520)	9.83 (347)	7.36 (260)
508 (20)	363.22 (14.3)	8.58 (303)	5.72 (202)	4.28 (151)	17.19 (607)	11.47 (405)	8.58 (303)
558.8 (22)	414.02 (16.3)	9.83 (347)	6.54 (231)	4.90 (173)	19.65 (694)	13.11 (463)	9.83 (347)
609.6 (24)	464.82 (18.3)	11.04 (390)	7.36 (260)	5.52 (195)	22.12 (781)	14.72 (520)	11.04 (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



**Industrial**



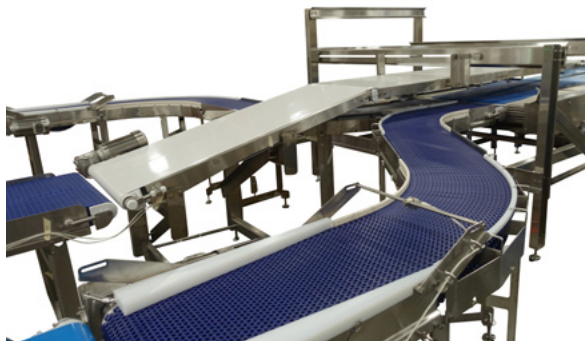
**Flexible Chain**



**Pallet Systems**



**Sanitary Stainless Steel**



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# TRANSFORMING CONVEYOR AUTOMATION

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