

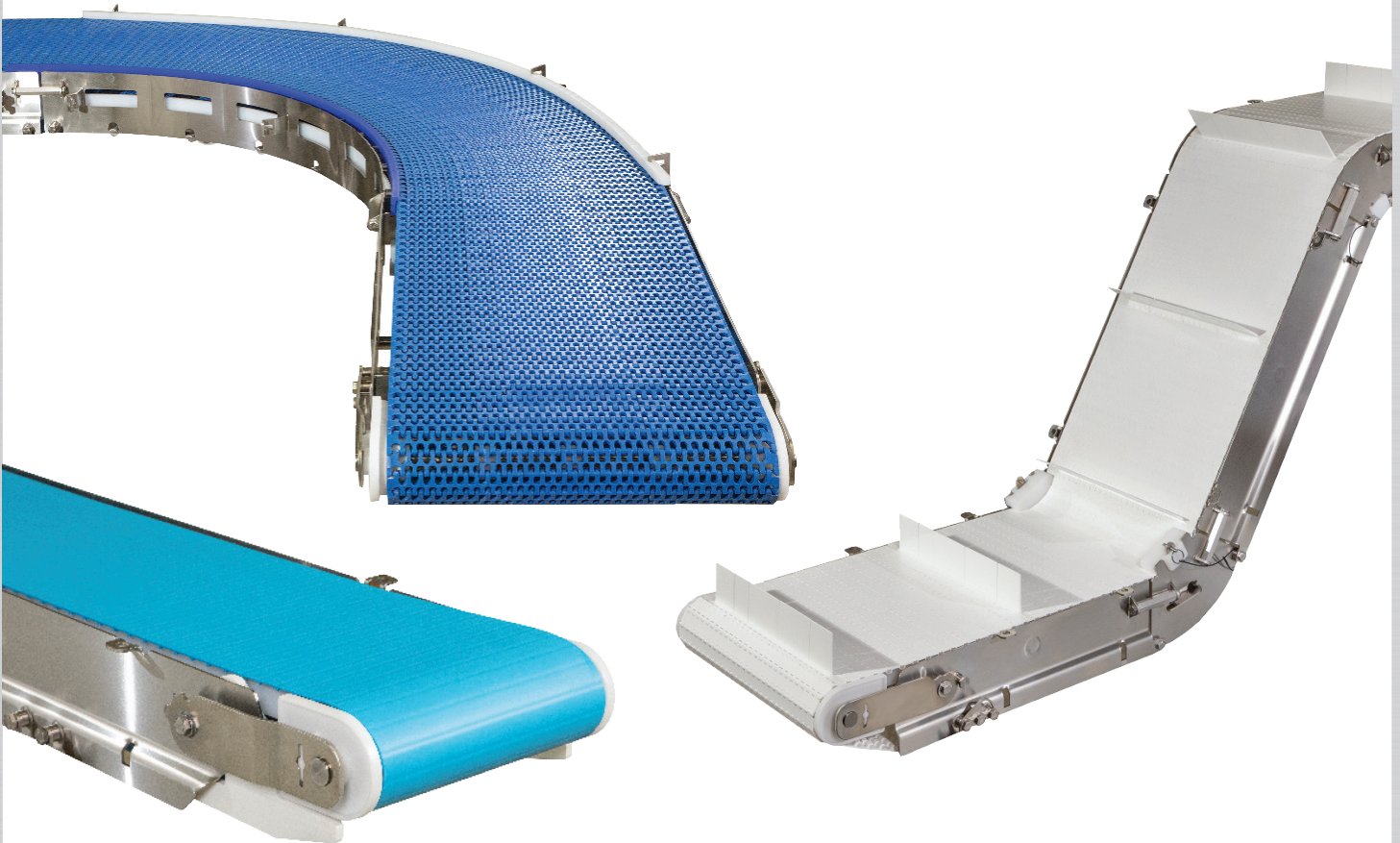
ENGINEERING MANUAL

Industry Leading
Hygienic Designs

Fast, Simple to Use
Online Configurator

Rapid Deliveries

3A
Certified Conveyors



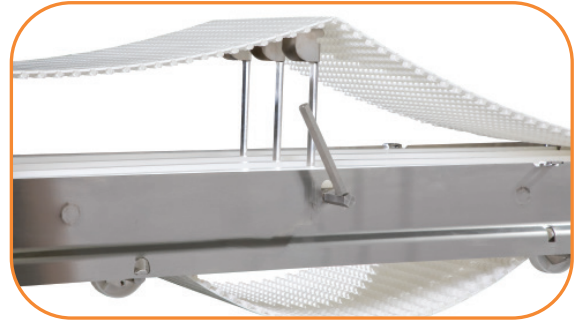
*Aqua***Pruf**[®] CONVEYORS

Improving Food Safety with
Hygienically Engineered Stainless Steel Conveyors



Hygienic Design

- Tool-less disassembly. Cleaning prep in under a minute, complete disassembly in less than 3 minutes
- Optional frame cut-outs and belt lifters for continuous access to inside of the conveyor
- Tip-up tails allow for quick release of belt tension
- Continuous TIG-welded 304 stainless steel frame
- Spiral cam belt tensioning with patent pending threadless design
- Patented sprocket alignment key
- Gearless, oil-free iDrive2 sanitary motorized roller



AquaPruf Ultimate

- Highest level of sanitation
- USDA red meat, poultry and dairy applications
- 3A certification pending
- USDA and FDA approved belting and plastic components
- Meets 3A, NSF and AMI design specifications
- #4 polish on all internal surfaces
- Patent pending drive sprocket wash-out channel
- Patent pending idler puck cleaning system

AquaPruf®
ULTIMATE



Engineered Solutions

- Dorner's Engineered Solutions Group can tailor fit AquaPruf Conveyors for specific applications and product handling requirements.
- With a custom-designed conveyor system in place, your products are processed faster, your services are delivered quicker, and your profits are increased with the help of highly specialized engineering.
- Solutions include:
 - Routing/Diverting/Laning/Merging
 - Singulating/Rotating
 - Accumulation/Buffering
 - Pacing/Gapping
 - Traffic Control/Flow
 - Orientating/Positioning
 - And More!



The Benefits of Dorner AquaPruf Conveyors

Industry Ready

- Designed and manufactured to food equipment standards
- 3A certification pending
- FDA approved materials and components

Delivers Fast

- Dorner sets the industry standard for rapid delivery
- Sanitary conveyors ship in as little as 10 business days
- Industry leading cleaning preparation time

**FABRIC BELTS
& POSITIVE
DRIVE BELTS**
PAGE 23-27

**MODULAR BELT CONVEYORS
PROFILES & GUIDING**
PAGE 40-41

**BELTED CONVEYORS
PROFILES & GUIDING**
PAGE 16-17

**POSITIVE DRIVE
CONVEYORS**
PAGE 18-22

**BELTED
CONVEYORS**
PAGE 6-15

**MODULAR
BELTS**
PAGE 42-43

GEARMOTORS
PAGE 49-50

**SUPPORT STANDS
& ACCESSORIES**
PAGE 52-55

**MODULAR BELT
CONVEYORS**
PAGE 28-39

3A CERTIFICATION
PAGE 44

BELT SPEED CHARTS
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ACCESSORIES
PAGE 56

CONTROLS
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**GEARMOTOR
MOUNTING PACKAGES**
PAGE 47-48



**TECHNICAL DATA
& CALCULATIONS**
PAGE 57-74

From packaging to processing, Dorner has the food industry covered. By offering three series of sanitary conveyors – AquaGuard, AquaPruf and AquaPruf Ultimate – Dorner can meet virtually any needs.

Sizes & Measurements

- 152 - 1524 mm (6 - 60 in) widths
- 914 - 25375 mm (36 - 999 in) lengths

Loads & Speeds

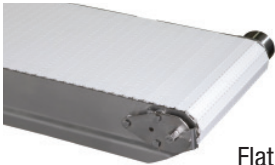
- 98 kg per square meter (20 lbs per square foot)
- Speeds up to 100 mpm (328 fpm)

Modular Belt Options

- Flat Modular Belt
- Friction Top
- Cleated
- Curve



Patented Sprocket Alignment Key

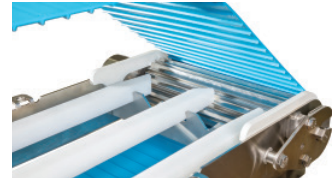


Flat Modular Belt

Belt Options

V-Guided and Positive Drive Belt Options

- Flat Belt
- Cleated
- Sidewall Cleated



Positive Drive

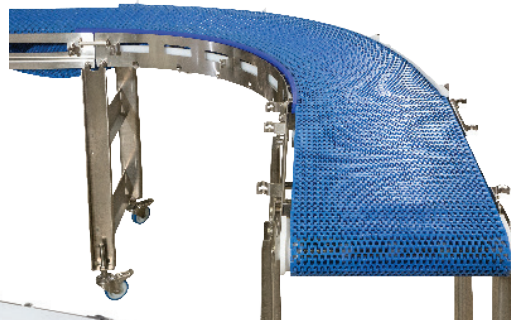


Flat Belt

Configurations



Straights

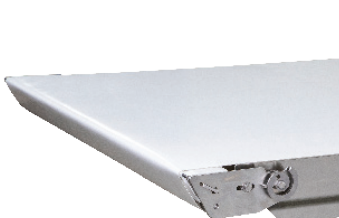


Curves

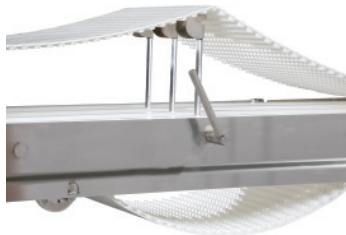


LPZ (Z-Frames), Nose-Overs & Horizontal to Inclines

Options



Nose Bar Transfers



Belt Lifters & Frame Cut-Outs



Belt Scrapers





Clean-in-Place

Other options available including Chutes, Drip Pans, Guiding, Hoppers and more.

SANITARY CONVEYOR OVERVIEW

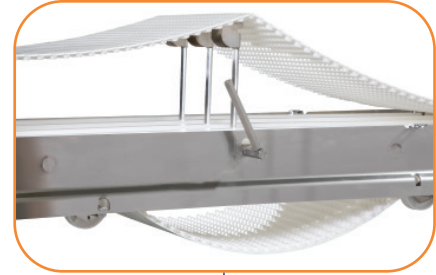


To identify the series best for you, simply locate your market and application in one of the charts below. You can then utilize the chart on the next page to select your specific conveyor model.

		Cleaning			Cleaning Agents				Environment		Sanitary Features				Regulations				Specifications		
		Wipe Down	Low Pressure Wash Down	High-Pressure Wash Down	Water	Soap/Water	Diluted Bleach or Alcohol	Foaming Caustic	Dry	Wet	Belt Lifters	Frame Cut-Outs	Tip-up Tail	3A Sanitary Upgrades	Packaged Food	Dry Food	Ready to Eat	Meat, Poultry, Dairy	Belt Type	Frame Constructions	Configurations
	7100	X	X		X	X			X						X	X			Flexible Chain	Bolt Together Stainless Steel	Straight/ Curve/ Z-Frame
	7200	X	X		X	X	X		X						X	X			Belt	Low Profile Stainless Steel	Straight
	7300	X	X	X	X	X	X		X						X	X			Belt	Low Profile Stainless Steel	Straight
	7350	X	X		X	X	X		X	X			X		X	X			Modular Belt and Belt	Bolt Together Stainless Steel	Straight/ Curve/ Z-Frame
	Modular Belt	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		Modular Belt	Continuous TIG Welded Stainless Steel	Straight/ Curve/ Z-Frame
	Belted	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		Belt	Continuous TIG Welded Stainless Steel	Straight/ Z-Frame
	Positive Drive Belt	X	X	X	X	X	X	X	X	X	X	X	X				X	X	Positive Drive Belt	Continuous TIG Welded Stainless Steel	Straight
	Ultimate	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	Belt, Positive Drive, Modular	Continuous TIG Welded Stainless Steel	Straight/ Curve/ Z-Frame
	VBT	X	X	X	X	X	X	X	X	X		X					X		Positive Drive Belt	Continuous TIG Welded Stainless Steel	Z-Frame



TOOL-LESS TIP-UP PULLEY
FOR QUICK RELEASE OF BELT TENSION



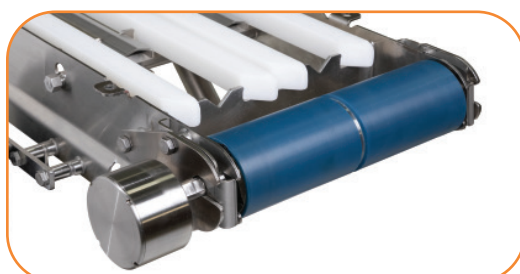
BELT LIFTERS
FOR EASE OF CLEANING ON LONG OR WIDE CONVEYORS



V-GUIDED BELTING
FOR POSITIVE BELT TRACKING



NOSE BAR TRANSFER OPTION
FOR SMALL PRODUCT TRANSFERS.
AVAILABLE IN: 12.7 MM (0.5 IN), 32 MM (1.25 IN) AND 48 MM (1.88 IN)



CAST ON URETHANE LAGGED PULLEY
ENSURES A PERMANENT SANITARY BOND

SPIRAL CAM TENSIONING
PATENT PENDING
THREADLESS TENSION
AND TRACKING METHOD





AquaPruf iDRIVE2 MOTORIZED ROLLER
NEW GEARLESS, OIL-FREE TECHNOLOGY PROVIDES
FOOD SAFE COMPACT FOOTPRINT

**FULL RANGE OF
SANITARY
BELTING OPTIONS**
SEALED EDGE, ENCASED AND
SOLID URETHANE FOR HYGENIC
PRODUCT MOVEMENTS



**STAINLESS STEEL
GEARMOTORS**
LOCATED OUTSIDE OF
FOOD ZONE



SOLID UHMW WEAR STRIPS
QUICKLY REMOVED WITHOUT TOOLS FOR
CLEANING. MOST PIECES ARE IDENTICAL
AND COMPLETELY INTERCHANGEABLE.



CENTER DRIVE OPTION*
FOR DUAL NOSE BAR TRANSERS AND
INCREASED END CLEARANCE. TOOL-LESS
DISASSEMBLY FOR QUICK SANITATION



**STAINLESS STEEL WELDED
FRAME CONSTRUCTION**
ELIMINATES FASTENERS IN FOOD ZONE
(CONTINUOUS TIG WELDING)

*Patent Pending



Specifications

- Loads up to 227 kg (500 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 91 m/min (300 ft/min)
- Belt widths: 152 mm (6 in) to 1219 mm (48 in)
- Conveyor lengths: 915 mm (36 in) to 12190 mm (480 in)
- One revolution of drive pulley moves the belt approximately 280 mm (11 in)
- Continuous TIG Welded 304 Stainless Steel Frame
- 400 Series Stainless Steel bearing with FDA H1 food grade grease
- FDA approved belting and plastic components
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- V-Guide belt tracking
- AquaPruf Ultimate 3A models available. See page 44.



**STANDARD
FEATURE:
V-Guided Belt
Tracking**



**STANDARD
FEATURE:
Tip-Up Tail****



**OPTIONAL:
Nose Bar Tail**
12.7 mm (0.5 in),
32 mm (1.25 in) and
48 mm (1.88 in)



**OPTIONAL:
Stainless Steel or
UHMW Bedplates**



**OPTIONAL:
Belt Scraper**

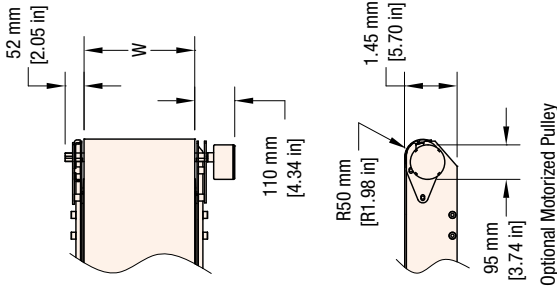
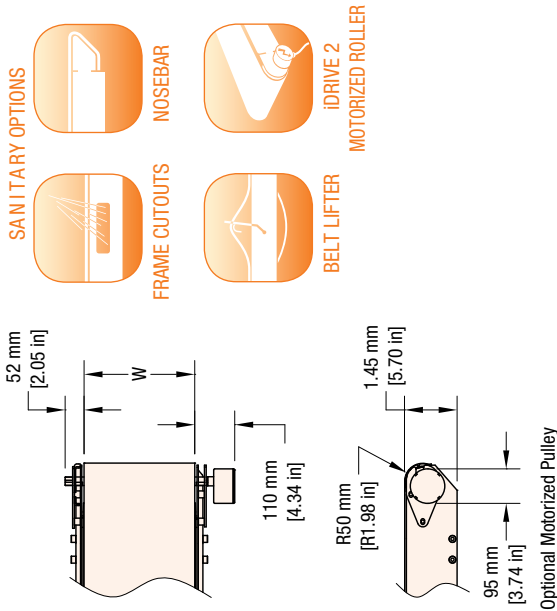
AquaPruf Flat Belt End Drive Conveyor

7	4	E	M	WWW	-	L	L	L	L	D	I	A	1	S	S	P	P	P	B	B	-	X	T	T
<p>Conveyor Tail Options X (if required) *See Drive Shaft Position Chart on next page K = Keyed Auxiliary Shaft 0 = No Keyed Auxiliary Shaft</p> <p>Belt Type: See Pages 23-24 for belt selection</p> <p>Profile (D side)</p> <p>Profile (A side) 01 = Low Side 02 = 25 mm (1 in) Integral Stainless Steel High Side 04 = 75 mm (3 in) UHMW High Side 06 = 152 mm (6 in) UHMW High Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round 23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side</p> <p>Idler Stand Location: A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end E = 762 mm (30 in) from end F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces</p> <p>Drive Stand Location: A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces</p> <p>Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters 4 = Scraper only 5 = Frame Cut Outs and Scraper 6 = Belt Lifters and Scraper 7 = Frame Cut Out, Belt Lifters, and Scraper</p> <p>Drive Shaft Position: A, B, C or D</p> <p>Idler Tail Type/V-Guide: 1 = Standard without V-Guide 2 = 12.7 mm (0.5 in) Nose Bar without V-Guide 3 = 32 mm (1.25 in) Nose Bar without V-Guide 4 = 48 mm (1.875 in) Nose Bar without V-Guide 5 = Standard with V-Guide 7 = 32 mm (1.25 in) Nose Bar with V-Guide 8 = 48 mm (1.875 in) Nose Bar with V-Guide</p> <p>Drive Tail Type/Bedplate: 1 = Customer supplied motor with UHMW bed 2 = Customer supplied motor with Stainless bed 3 = Motorized roller with UHMW bed 4 = Motorized roller with Stainless bed 5 = Side drive with UHMW bed 6 = Side drive with Stainless bed</p> <p>Conveyor Length (mm): 00915 to 12190 in 5 mm increments (36 – 480 in)</p> <p>Conveyor Width Reference (mm): = 152 to 1219 (6 – 48 in)</p> <p>Documentation Language: M = US English</p>																								

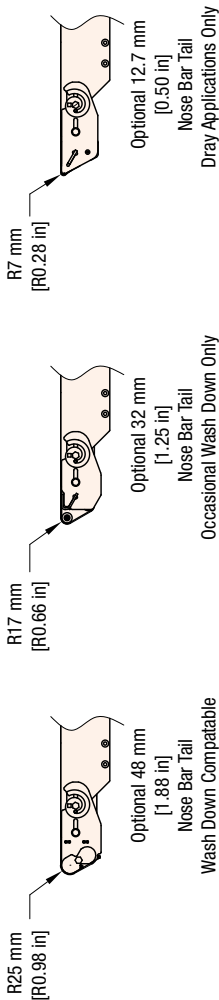
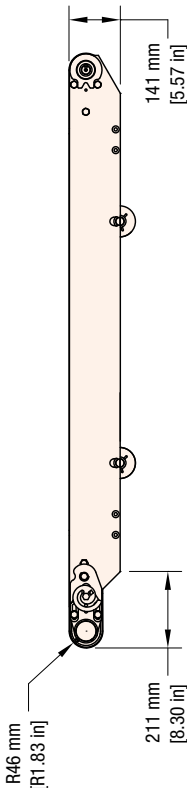
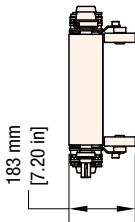
* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. ** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
 For support stands and accessories, see page 52-55.

FLAT BELT END DRIVE

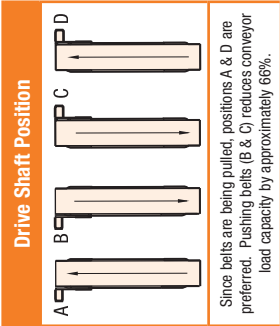


Optional Motorized Pulley



W = Conveyor Belt Width Dim = mm (in)

STANDARD SIZES					
Conveyor Width Reference		152	203	254	50 increments up to ...
Conveyor Belt Width (W)		152	203	254	50 mm increments up to...
	(6)	(6)	(8)	(10)	2 in increments up to...
Conveyor Length Reference		00915			
Conveyor Length (L)		00915 (36)			
				12190	
				12190 (480)	



See page 20 for side profile options

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



Specifications

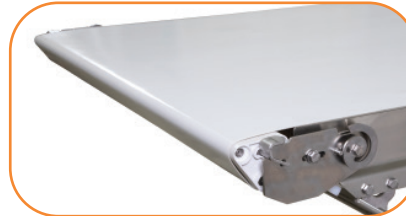
- Loads up to 227 kg (500 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 91 m/min (300 ft/min)
- Belt widths: 152 mm (6 in) to 1219 mm (48 in)
- Conveyor lengths: 915 mm (36 in) to 12190 mm (480 in)
- One revolution of drive pulley moves the belt approximately 280 mm (11 in)
- Continuous TIG Welded 304 Stainless Steel Frame
- 400 Series Stainless Steel bearing with FDA H1 food grade grease
- FDA approved belting and plastic components
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- V-Guide belt tracking



STANDARD FEATURE:
V-Guided Belt Tracking



STANDARD FEATURE:
Tip-Up Tail**



OPTIONAL:
**12.7 mm (0.5 in),
32 mm (1.25 in) and
48 mm (1.88 in)
Nose Bar Tail**



OPTIONAL:
**Stainless Steel or
UHMW Bedplates**



OPTIONAL:
Belt Scraper

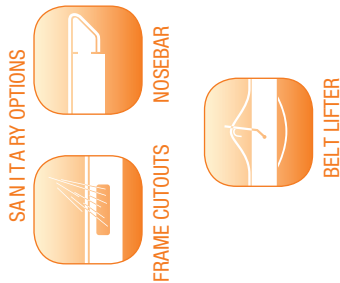
AquaPruf Flat Belt Center Drive Conveyor

74	M	WWW	-	LLL	LL	D	I	A	1	S	S	P	P	P	B	B	-	X	T ¹	T ²
																				Conveyor Tail Options X (if required) *See Drive Shaft Position Chart on next page
																				K = Keyed Auxiliary Shaft 0 = No Keyed Auxiliary Shaft
																				Belt Type: See Pages 23-24 for belt selection
																				Profile (D side)
																				Profile (A side)
																				01 = Low Side 02 = 25 mm (1 in) Integral Stainless Steel High Side 04 = 75 mm (3 in) UHMW High Side
																				06 = 152 mm (6 in) UHMW High Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
																				23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side
																				Idle Stand Location:
																				A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
																				E = 762 mm (30 in) from end F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
																				J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces
																				Drive Stand Location:
																				A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
																				E = 762 mm (30 in) from end F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
																				J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces
																				Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters 4 = Scraper only
																				5 = Frame Cut Outs and Scraper 6 = Belt Lifters and Scraper 7 = Frame Cut Out, Belt Lifters, and Scraper
																				Drive Shaft Position: A or D
																				Infeed Tail Type/V-guide: 1 = Standard without V-Guide 2 = 12.7 mm (0.5 in) Nose Bar without V-Guide 3 = 32 mm (1.25 in) Nose Bar without V-Guide
																				4 = 48 mm (1.875 in) Nose Bar without V-Guide 5 = Standard with V-Guide 7 = 32 mm (1.25 in) Nose Bar with V-Guide 8 = 48 mm (1.875 in) Nose Bar with V-Guide
																				Exit Tail Type/Bedplate: 0 = Standard Fixed with UHMW Bed 1 = 12.7 mm (0.5 in) Nose Bar Tip Up with UHMW Bed 2 = 32 mm (1.25 in) Nose Bar Tip Up with UHMW Bed
																				3 = 48 mm (1.875 in) Nose Bar Tip Up with UHMW Bed 4 = Standard Fixed with SS Bed 5 = 12.7 mm (0.5 in) Nose Bar Tip Up with SS Bed
																				6 = 32 mm (1.25 in) Nose Bar Tip Up with SS Bed 7 = 48 mm (1.875 in) Nose Bar Tip Up with SS Bed
																				Conveyor Length (mm): 00915 to 12190 in 5 mm increments (36 - 480 in)
																				Conveyor Width Reference (mm): 0152 to 1219 (6 - 48 in)
																				Documentation Language: M = US English

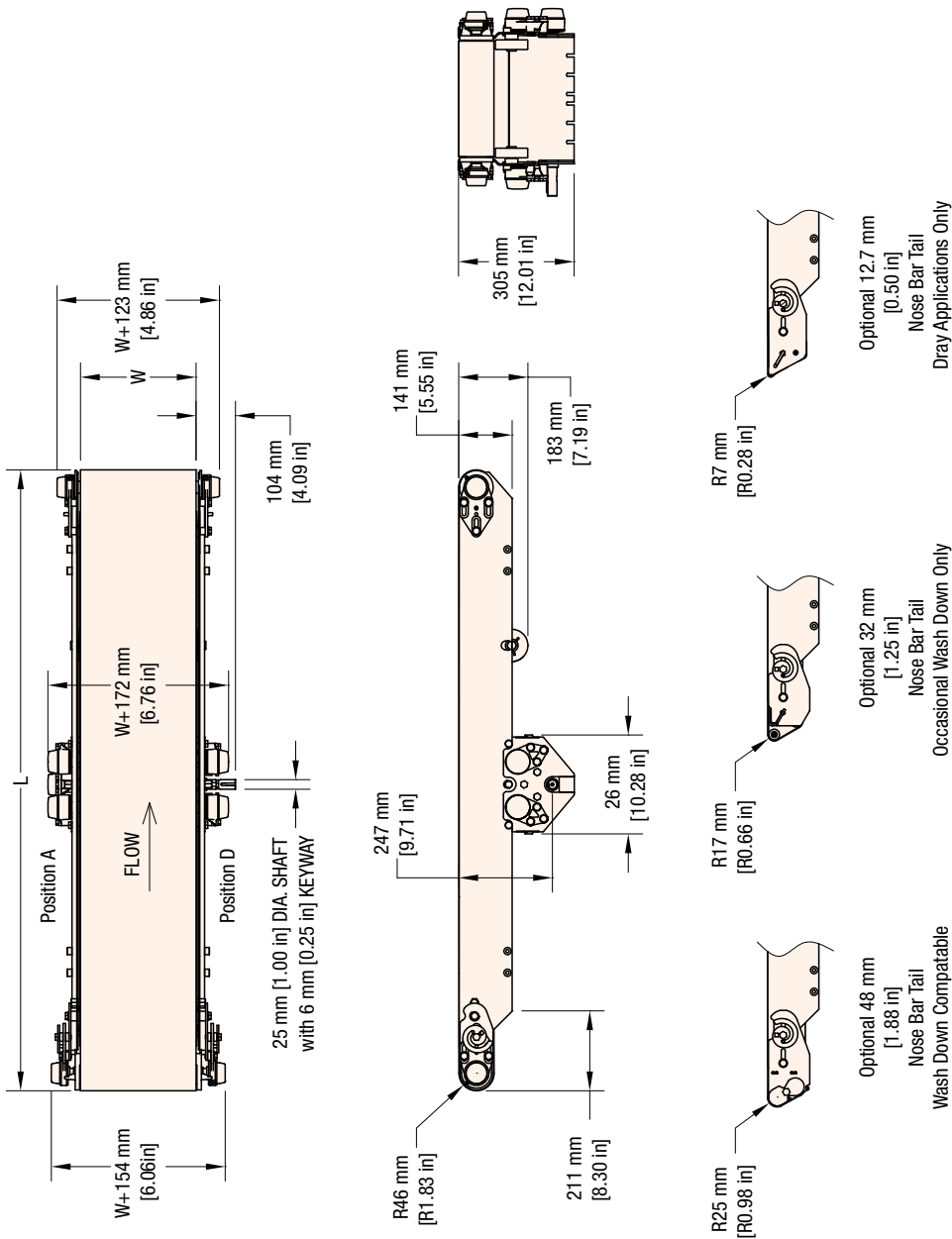
* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. ** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

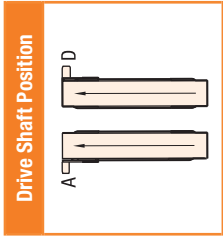
FLAT BELT CENTER DRIVE



See page 20 for side profile options

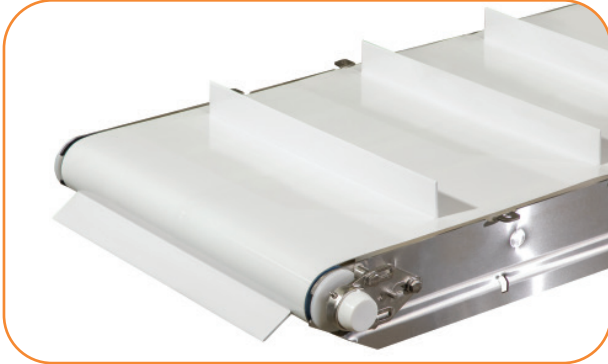


W = Conveyor Belt Width Dim = mm (in)



STANDARD SIZES					
Conveyor Width Reference	152	203	254	1118	1219
Conveyor Belt Width (W)	152	203	254	1118	1219
	(6)	(8)	(10)	(44)	(48)
Conveyor Length Reference	00915				
Conveyor Length (L)	00915 (36)				
				12190 (480)	12190 (480)

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



Specifications

- Loads up to 227 kg (500 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 91 m/min (300 ft/min)
- Belt widths: 203 mm (8 in) to 610 mm (24 in)
- Conveyor lengths: 915 mm (36 in) to 6095 mm (240 in)
- Cleat heights from 11 mm (0.43 in) to 60 mm (2.63 in)
- Continuous TIG Welded 304 Stainless Steel Frame
- 400 Series Stainless Steel bearing with FDA H1 food grade grease
- FDA approved belting and plastic components
- Cleated belt options include sealed edge, encased and sidewall cleating
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- V-Guide belt tracking
- AquaPruf Ultimate 3A models available. See page 44.



**STANDARD
FEATURE:
V-Guided Belt
Tracking**



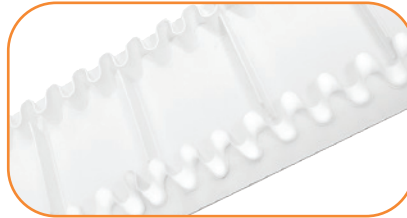
**STANDARD
FEATURE:
Tip-Up Tail****



**OPTIONAL:
High Side Guides
Up to 152 mm
(6 in) Tall**



**OPTIONAL:
Stainless Steel or
UHMW Bedplates**



**OPTIONAL:
Sidewall Cleated
Belts for Bulk
Food Product**

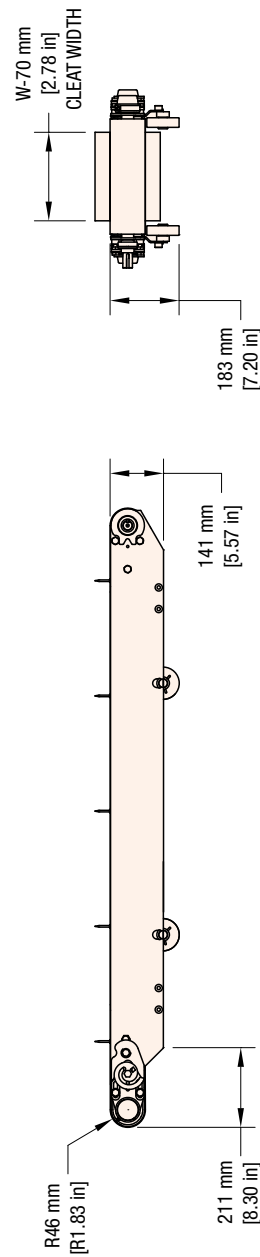
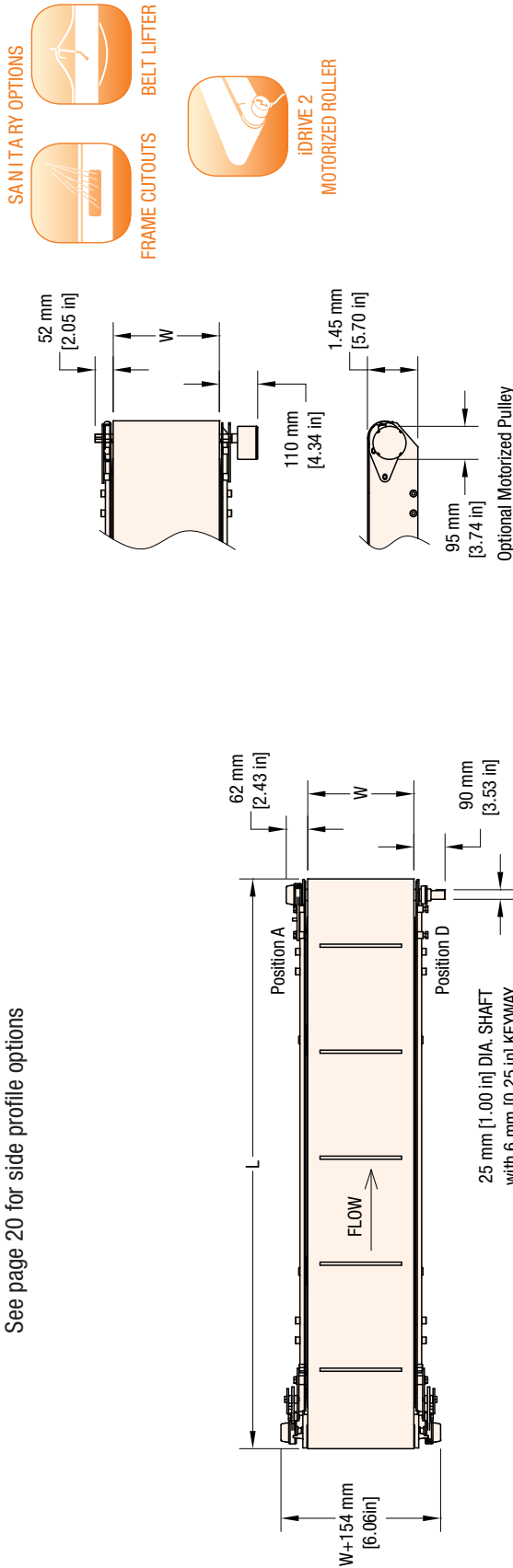
AquaPruf Cleated Belt End Drive Conveyor

74	C	M	WWW	-	L	L	L	L	D	I	A	1	S	S	P	C	S	S	S	-	X	T ¹	T ²
<p>— Conveyor Tail Options X (if required) *See Drive Shaft Position Chart on next page K = Keyed Auxiliary Shaft 0 = No Keyed Auxiliary Shaft</p> <p>— Spacing: SSSS in millimeters</p> <p>— Belt Type: See Pages 23-26 for belt selection</p> <p>— Profile 1 = Low Side 4 = 75 mm (3 in) UHMW High Side 6 = 152 mm (6 in) UHMW High Side 7 = 75 mm (3 in) Tall Stainless Steel High Side 8 = 152mm (6 in) Tall Stainless Steel High Side</p> <p>— Idle Stand Location: A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end E = 762 mm (30 in) from end F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces</p> <p>— Drive Stand Location: A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces</p> <p>— Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters</p> <p>— Drive Shaft Position: A, B, C or D</p> <p>— Infeed Tail Type/V-guide: 1 = Standard without V-Guide 5 = Standard with V-Guide</p> <p>— Drive Tail Type/Bedplate: 1 = Customer supplied motor with UHMW bed 2 = Customer supplied motor with Stainless bed 3 = Motorized roller with UHMW bed 4 = Motorized roller with Stainless bed 5 = Side drive with UHMW bed 6 = Side drive with Stainless bed</p> <p>— Conveyor Length (mm): 00915 to 06095 in 5 mm increments (36 – 240 in)</p> <p>— Conveyor Width Reference (mm): = 0203 to 0610 (8 – 24 in)</p> <p>— Documentation Language: M = US English</p>																							

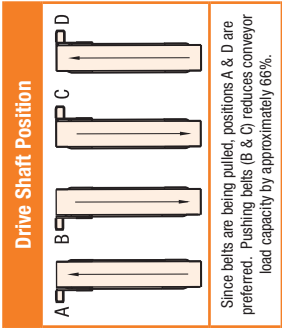
* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. ** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
 For support stands and accessories, see page 52-55.

CLEATED BELT END DRIVE



W = Conveyor Belt Width Dim = mm (in)



STANDARD SIZES										
Conveyor Width Reference	152	203	254	305	356	406	457	508	559	610
Conveyor Belt Width (W)	152	203	254	305	356	406	457	508	559	610
	(6)	(8)	(10)	(12)	(14)	(16)	(18)	(20)	(22)	(24)
Conveyor Length Reference	00915									
Conveyor Length (L)	0915 (36)									
	00005 increments up to...									
	00005 (0.2) increments up to...									
	6095 (240)									

Note: if conveyor width ≥ 457 then the max length is 2135

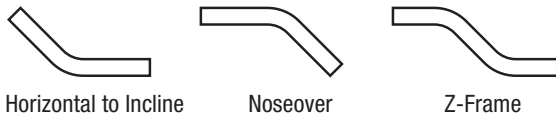
Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



Specifications

- Loads up to 45 kg (100 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 91 m/min (300 ft/min)
- Belt widths: 203 mm (8 in) to 610 mm (24 in)
- Conveyor section lengths: 610 mm (24 in) to 6100 mm (240 in)
- Maximum total conveyor length of 12190 mm (480 in)
- Angles from 30 degrees to 60 degrees in 5 degree increments
- Cleat heights from 11 mm (0.43 in) to 60 mm (2.63 in)
- Continuous TIG Welded 304 Stainless Steel Frame
- FDA approved belting and plastic components
- Cleated belt options include sealed edge, encased and sidewall cleating
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- V-Guide belt tracking
- AquaPruf Ultimate 3A models available. See page 44.

Configurations



Horizontal to Incline

Noseover

Z-Frame



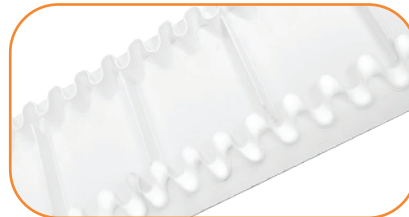
STANDARD FEATURE:
V-Guided Belt Tracking



OPTIONAL:
High Side Guides



STANDARD FEATURE:
Tip-Up Tail**



OPTIONAL:
Sidewall Cleated Belts for Bulk Food Product

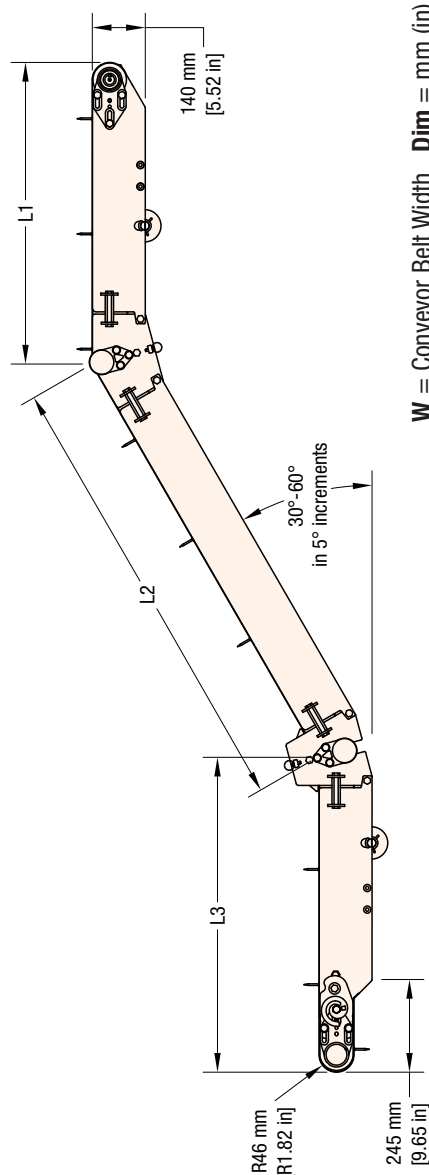
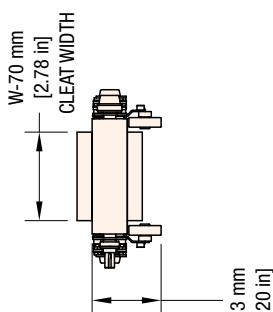
AquaPruf Z-Frame Cleated Belt End Drive Conveyor

74	C	M	WWW	-	LLLL	-	LLLL	-	LLLL	AA	A	E	D	I	A	1	S	S	P	C	SSSS	-	X	T
																								Conveyor Tail Options X (if required) *See Drive Shaft Position Chart on next page K = Keyed Auxiliary Shaft Ø = No Keyed Auxiliary Shaft
																								Spacing: SSSS in millimeters
																								Belt/Cleat Type: See Pages 23-26 for belt selection
																								Profile: 1 = Low Side 7 = 75 mm (3 in) Tall Stainless Steel High Side 8 = 152mm (6 in) Tall Stainless Steel High Side
																								Idler Stand Location: A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end E = 762 mm (30 in) from end F = 914 mm (36 in) from end
																								Drive Stand Location: A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end E = 762 mm (30 in) from end F = 914 mm (36 in) from end
																								Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters
																								Drive Shaft Position: A, B, C, or D
																								Infeed Tail Type/V-guide: 1 = Standard without V-Guide 5 = Standard with V-Guide
																								Drive Tail Type/Bedplate: 1 = Customer supplied motor with UHMW bed 3 = Motorized roller with UHMW bed 5 = Side drive with UHMW bed
																								Belt Direction: E = Inclining, D = Declining
																								Angle: 30 degrees thru 60 degrees in 05 degree increments
																								Conveyor L3 Lower Horizontal Section Length (mm): 00610 - 06100 (24 - 240 in) 5 mm increments
																								Conveyor L2 Angled Section Length (mm): 00610 - 06100 (24 - 240 in) 5 mm increments
																								Conveyor L1 Upper Horizontal Section Length (mm): 00610 - 06100 (24 - 240 in) 5 mm increments
																								Conveyor Width Reference (mm): = 0203 to 0610 (8 - 24 in)
																								Documentation Language: M = US English

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. ** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

AquaPruf®



SANITARY OPTIONS



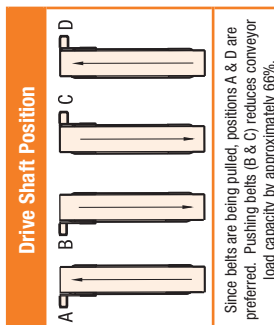
FRAME CUTOUTS



BELT LIFTER



iDRIVE 2
MOTORIZED ROLLER

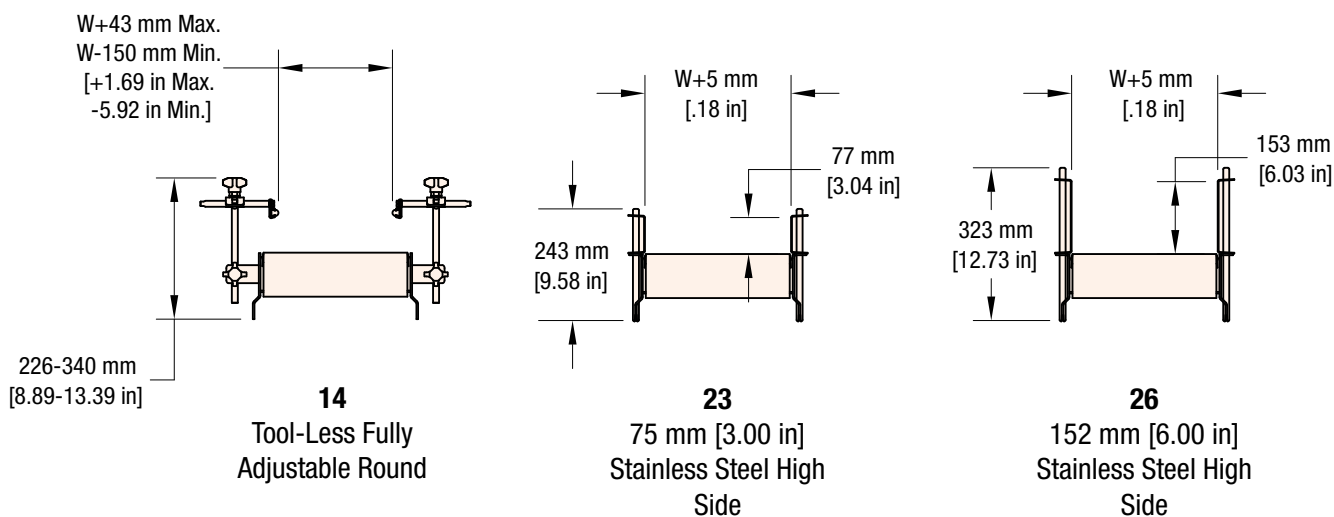
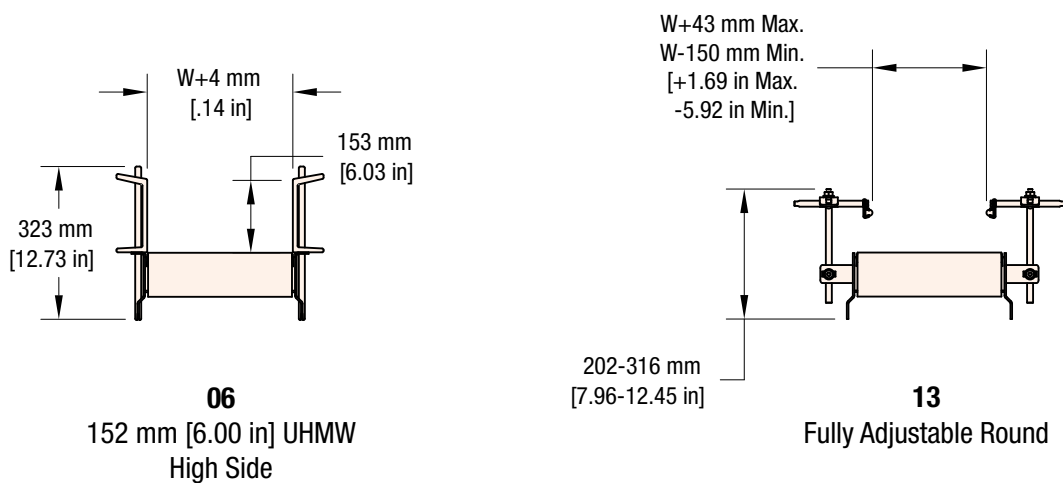
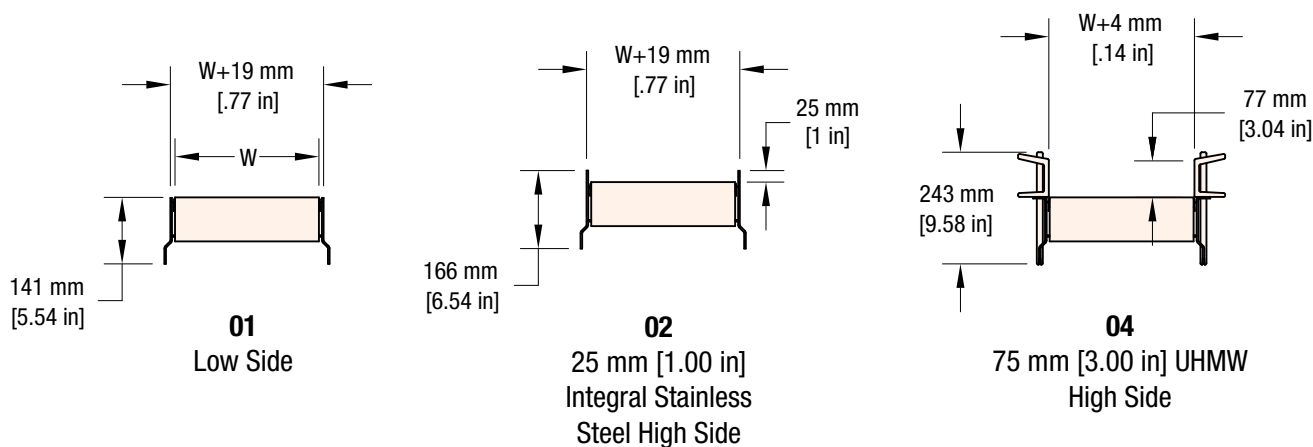


STANDARD SIZES												
Conveyor Width Reference	152	203	254	305	356	406	457	508	559	610		
Conveyor Belt Width (W)	152	203	254	305	356	406	457	508	559	610		
	(6)	(8)	(10)	(12)	(14)	(16)	(18)	(20)	(22)	(24)		
Conveyor Length Reference	0610		00005 increments up to...								6100	
Conveyor Length (L1/L2/L3)	0610 (24)		00005 (0.2) increments up to...								6100 (240)	

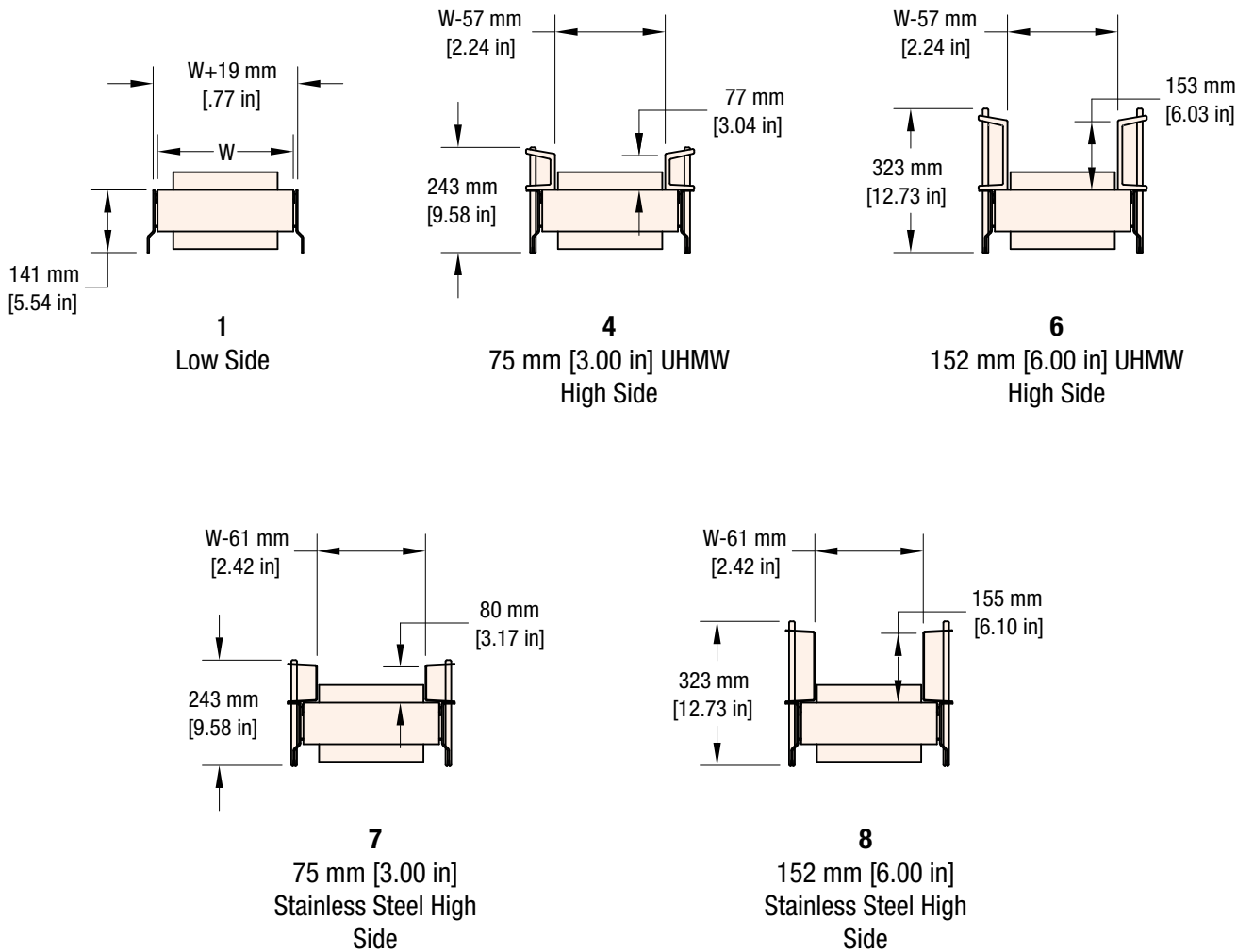
Note: If conveyor width ≥ 457 mm then the max length is 2135 mm.
Max total length of all sections 12190 mm (480 in).

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

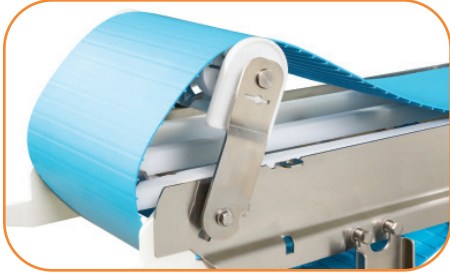
FLAT BELT PROFILES



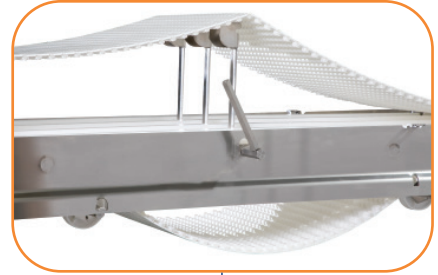
CLEATED BELT PROFILES



All AquaPruf stainless steel and UHMW guiding profiles are quick removal without tools for fast effective cleaning



**TOOL-LESS TIP-UP
PULLEY**
FOR QUICK RELEASE OF
BELT TENSION



BELT LIFTERS
FOR EASE OF CLEANING ON
LONG OR WIDE CONVEYORS

**POSITIVELY DRIVER SOLID
URETHANE BELTING**
FDA AND USDA APPROVED FOR THE
MOST DEMANDING APPLICATIONS

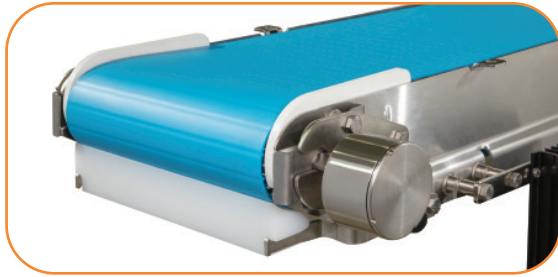


**QUICK REMOVAL SIDE
MOUNT GEARMOTOR**
TO REDUCE SANITATION TIME



SPROCKET DRIVEN
TO AVOID SLIPPING IN WET ENVIRONMENTS

*Note: Do not run the conveyor with the tail in the tip-up position.



AquaPruf iDRIVE2 MOTORIZED ROLLER

NEW GEARLESS, OIL-FREE TECHNOLOGY PROVIDES
FOOD SAFE COMPACT FOOTPRINT



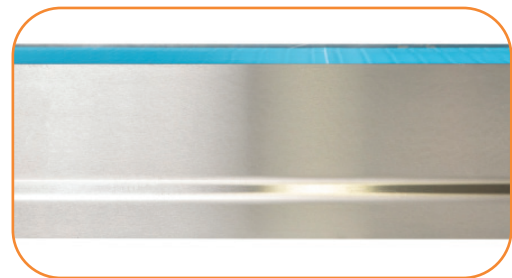
STAINLESS STEEL GEARMOTORS

LOCATED OUTSIDE OF
FOOD ZONE



SOLID UHMW WEAR STRIPS

QUICKLY REMOVED WITHOUT TOOLS FOR
CLEANING. MOST PIECES ARE IDENTICAL
AND COMPLETELY INTERCHANGEABLE.
FOR COMPLETE DRAINAGE.



STAINLESS STEEL WELDED FRAME CONSTRUCTION

ELIMINATES FASTENERS IN FOOD ZONE
(CONTINUOUS TIG WELDING)





Specifications

- Loads up to 227 kg (500 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 91 m/min (300 ft/min)
- Belt widths: 203 mm (8 in) to 1219 mm (48 in)
- Conveyor lengths: 915 mm (36 in) to 12190 mm (480 in)
- Positive driven belt provides greater load capacity and less slip
- Continuous TIG Welded 304 Stainless Steel Frame
- 400 Series Stainless Steel bearing with FDA H1 food grade grease
- USDA smooth top positive drive belt (Available in blue or white)
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- AquaPruf Ultimate 3A models available. See page 44.



STANDARD FEATURE:
Positively driven drive sprockets
and belt to avoid belt slipping



STANDARD FEATURE:
Integrated UHMW Return Shoe
provides positive belt control
and sprocket engagement



STANDARD FEATURE:
Tip-Up Tail**

AquaPruf Positive Drive Belt End Drive Conveyor

74 P M WWWWW - L L L L L D I A 1 S S P P P B B - X T¹ T²

— **Conveyor Tail Options X** (if required)
K = Keyed Shaft Ø = No Keyed Auxiliary Shaft

— **Belt Type:** 01 = White Smooth Top 02 = Blue Smooth Top Blue

— **Profile (D side)**
01 = Low Side 02 = 25 mm (1 in) Integral Stainless Steel High Side 04 = 75 mm (3 in) UHMW High Side
06 = 152 mm (6 in) UHMW High Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side

— **Idler Stand Location:**
A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
E = 762 mm (30 in) from end F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces

— **Drive Stand Location:**
A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces

— **Cleaning Option/Scraper:** 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters 4 = Scraper only
5 = Frame Cut Outs and Scaper 6 = Belt Lifters and Scraper 7 = Frame Cut Out, Belt Lifters, and Scraper

— **Drive Shaft Position:** A or D

— **Infeed Tail Type/V-guide:** 1 = Standard without V-Guide

— **Drive Tail Type/Bedplate:** 1 = Customer Supplied Motor Standard Tail 2 = Side drive standard tail 3 = Motorized roller standard tail

— **Conveyor Length (mm):** 00915 to 12190 in 5 mm increments (36 – 480 in)

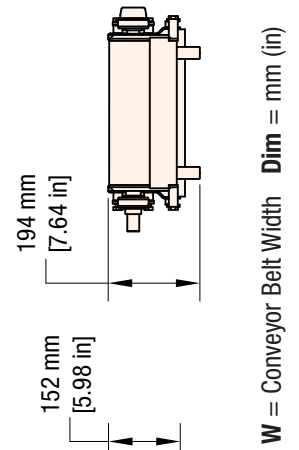
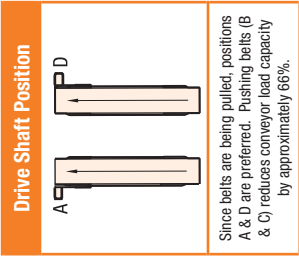
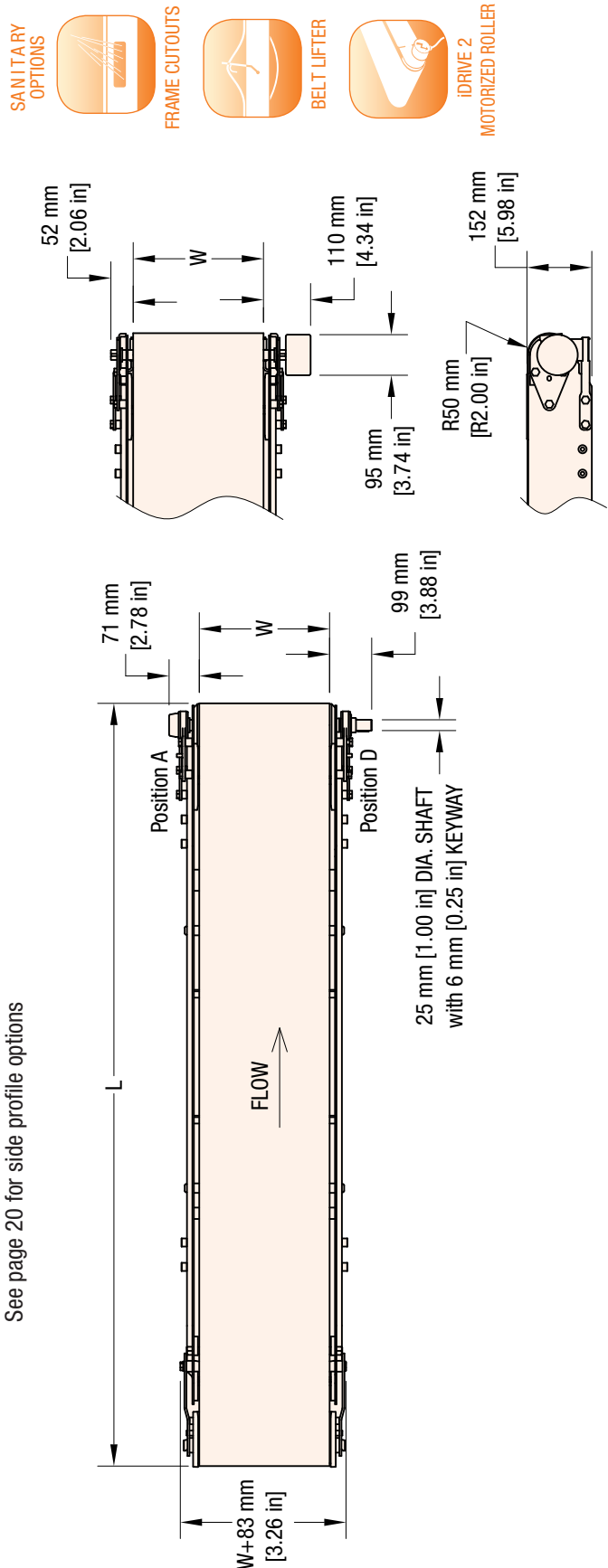
— **Conveyor Width Reference (mm):** = 0152 to 1219 (6 – 48 in)

— **Documentation Language:** M = US English

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. ** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

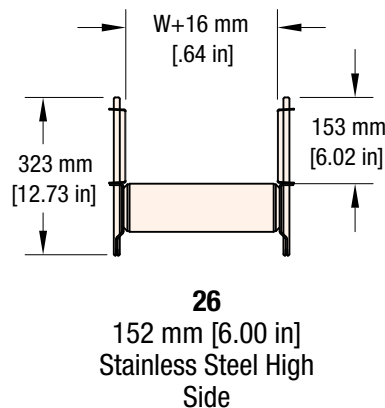
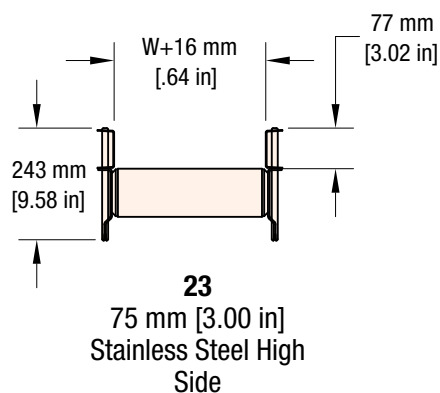
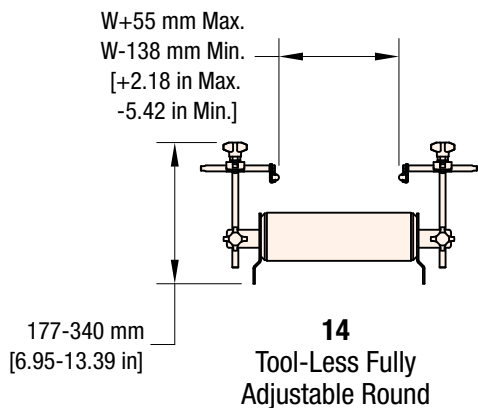
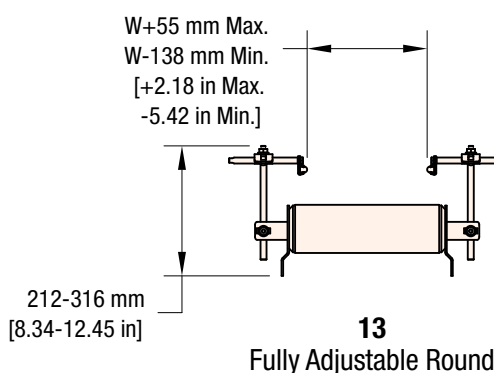
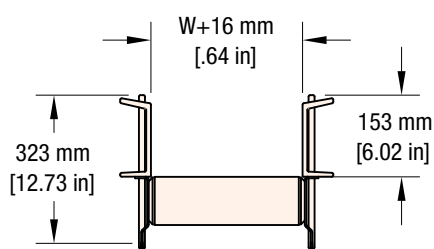
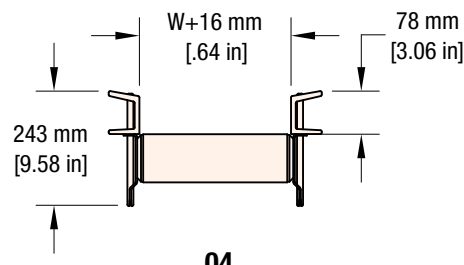
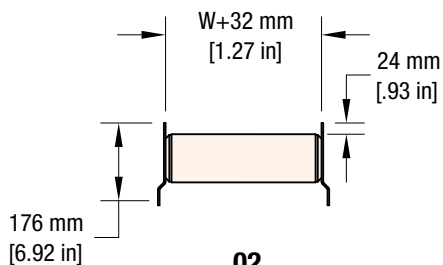
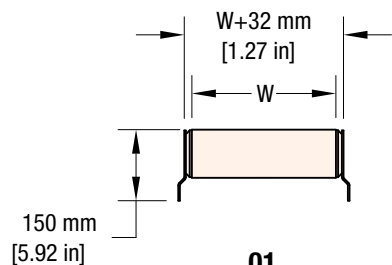
POSITIVE DRIVE BELT END DRIVE



STANDARD SIZES																			
Conveyor Width Reference	152	203	254	305	356	406	457	508	559	610	660	711	762	813	1118	1168	1219		
Conveyor Belt Width (W)	152	203	254	305	356	406	457	508	559	610	660	711	762	813	1118	1168	1219		
	(6)	(8)	(10)	(12)	(14)	(16)	(18)	(20)	(22)	(24)	(26)	(28)	(30)	(32)	(44)	(46)	(48)		
Conveyor Length Reference	00915 00005 increments up to ...																		
Conveyor Length (L)	00915 (36)		00005 (0.2) increments up to ...															12190 (480)	

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

POSITIVE DRIVE FLAT BELT PROFILES



All AquaPruf stainless steel and UHMW guiding profiles are quick removal without tools for fast effective cleaning

W = Conveyor Belt Width **Dim** = mm (in)

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



Standard Belt Selection Guide

Standard belt material is stocked at Dorner, then cut & spliced at the factory for fast conveyor shipment.

Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper	Belt Specifications	V-Guidable	Belt Thickness	Surface Material	Maximum Part Temp. °C (°F)	Coefficient of Friction	FDA Approved	Anti-Static	Static Conductive	Chemical Resistance	Special Characteristics or Applications
01	A1	1A	FDA Accumulation	x	1.7 (0.067)	Urethane	100 (212)	Low	x	x		Good	Packaging, clean room and inspection
02	A2	2A	General Purpose	x	1.8 (0.071)	Urethane	100 (212)	Med	x	x		Good	Most versatile belt offering
03	A3	3A	FDA High Friction	x	1.7 (0.067)	Urethane	100 (212)	High	x	x		Good	Packaging, clean room and inspection
05	A5	5A	Accumulation	x	1.2 (0.047)	Urethane	100 (212)	V-Low	x	x		Good	Accumulation of products
06	A6	6A	Electrically Conductive	x	1.6 (0.063)	Urethane	80 (176)	V-Low		x	x	Good	Electronics handling
08	A8	8A	High Friction	x	2.1 (0.083)	PVC	70 (158)	V-High		x		Poor	Conveys up to 35° inclines*
09			FDA High Friction	x	1.5 (0.059)	Urethane	100 (212)	High	x			Good	Lower no load torque

Dim = mm (in)

Note: See below for splice details. Plastic Clipper splice requires longer lead times. Clipper splice not available on Z-Frame Series Conveyors.

Note: Belts with V-Guiding may have a slight high spot or rib on the top surface. This rib would run longitudinally along the center of the belt.

Consult factory with applications for which this may cause interference.

*Incline varies due to factors like dust, fluids and part material.

Note: Wet applications are limited to specialty belt types 54, 55, 69 and 70 only (see next page).

BELT SPLICING



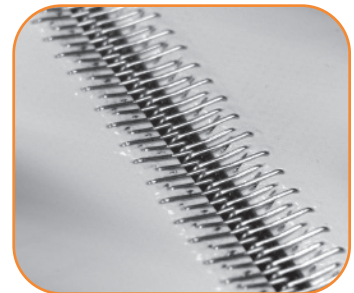
Finger Splice

All belts are available with a standard Thermoformed finger splice. This splice makes the belt continuous and is virtually undetectable. Splice bonding methods vary by belt type. Consult factory for details.



Plastic Clipper**

An optional plastic clipper splice is available for quick removal of belts or when conveyors are installed in tight spaces.



Metal Clipper**

An optional metal clipper splice is also available for quick removal of belts or when conveyors are installed in tight spaces.

**** Plastic and Metal Clippers are slightly thicker than base belt.
Contact factory for details.**



Solid Urethane belt for added sanitary protection –
See belt type 70 below

**High Release Cover belt for handling sticky food
such as raw dough –**
See belt type 71 below

Note: Wet applications are limited to specialty belt types 54, 55, 69 and 70 only.

Specialty Belt Selection Guide

Specialty belt material is not stocked at Dorner and needs to be custom ordered for your special conveyor needs.

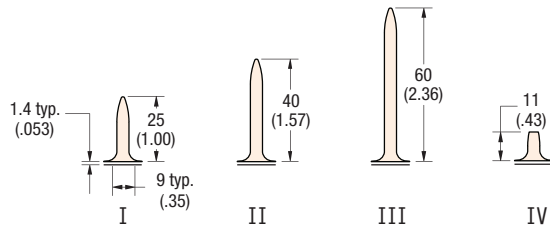
Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper**	Belt Specifications	Belt Thickness	Surface Material	Maximum Part Temp. °C (°F)	Coefficient of Friction	FDA Approved	Chemical Resistance	Moisture Resistance	Special Characteristics or Applications
54	F4	4F	FDA Sealed Edge	1.5 (0.06)	Urethane	80 (176)	Low	x	Good	Good	Packaging, clean room & inspection, wet environment
55	F5	5F	FDA Sealed Edge	1.5 (0.06)	Urethane	80 (176)	High	x	Good	Good	Packaging, clean room & inspection, wet environment
56		6F	Cut Resistant	2.1 (0.08)	Urethane	100 (212)	Med.		Good	Poor	Oily product release, Metal stamping
57		7F	Cut Resistant	2.5 (0.10)	Nitrile	80 (176)	Med.		Poor	Poor	Felt-like, dry metal stamping, glass & ceramic
59	F9	9F	Color Contrasting	1.5 (0.06)	PVC	70 (158)	Med.		Poor	Poor	Black colored, hides overspray from ink jet
60	G0	0G	Color Contrasting	1.2 (0.05)	Urethane	100 (212)	Low	x	Good	Poor	Green colored, Nose Bar
61	G1	1G	Color Contrasting	1.2 (0.05)	Urethane	100 (212)	Low	x	Good	Poor	Blue colored, Nose Bar
63		3G	Electrically Conductive	1.2 (0.05)	Urethane	60 (140)	Low		Good	Poor	Static conductive, electronics handling
64		4G	High Friction	4.4 (0.17)	PVC	90 (194)	V-High		Poor	Poor	Dark Green colored, rough top surface, product cushioning, incline / decline apps
66		6G	Chemical Resistant	1.7 (0.07)	Polyester	100 (212)	Med.	x	V-Good	Poor	Good Cut resistance, metal stamping apps
67		7G	Low Friction Cleated	1.6 (0.06)	Polyester	100 (212)	n/a	x	Good	Poor	Excellent product release, consult factory for part number and how to specify low friction
68	G8		FDA Encased*	2.0 (0.08)	Urethane	100 (212)	Low	x	Good	V-Good	Urethane Enclosed for added sanitary protection
69	G9		FDA Encased*	2.0 (0.08)	Urethane	100 (212)	High	x	Good	V-Good	Urethane Enclosed for added sanitary protection
70			Solid Urethane	2.5 (0.10)	Urethane	100 (212)	Med.	x	Good	V-Good	USDA Approved, wet applications
71			High Release Cover	1.7 (0.07)	Urethane	100 (212)	Low	x	Good	Poor	Raw dough or sticky food product
72			Nose Bar Low Friction	1.2 (0.05)	Urethane	100 (212)	Low	x	Good	Poor	Nose Bar Applications

Dim = mm (in)

Metal Clipper Splices are not available on belts over 1219 mm (48 in) wide.

* Not available in 51 mm (2 in) wide.

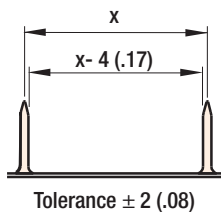
**Metal Clipper splices are not sanitary.



Standard Cleated Belt Selection Guide

Part No.	Base Belt	Belt Thickness, mm (in)	Belt Surface Material	Cleat Height, mm (in)	Cleat Material	Maximum Part Temp. °C (°F)	FDA Approved	Chemical Resistance	Moisture Resistance	Illustration
A	High Friction	1.4 (0.055)	Urethane	25 (1.00)	Urethane	80 (176)	Yes	Good	Poor	I
B	High Friction	1.4 (0.055)	Urethane	40 (1.57)	Urethane	80 (176)	Yes	Good	Poor	II
C	High Friction	1.4 (0.055)	Urethane	60 (2.36)	Urethane	80 (176)	Yes	Good	Poor	III
G	High Friction	1.4 (0.055)	Urethane	11 (0.43)	Urethane	80 (176)	Yes	Good	Poor	IV
J	Low Friction	1.6 (0.06)	Urethane	25 (1.00)	Urethane	100 (212)	Yes	Good	Poor	I
K	Low Friction	1.6 (0.06)	Urethane	40 (1.57)	Urethane	100 (212)	Yes	Good	Poor	II
L	Low Friction	1.6 (0.06)	Urethane	60 (2.36)	Urethane	100 (212)	Yes	Good	Poor	III
M	Low Friction	1.6 (0.06)	Urethane	11 (0.43)	Urethane	100 (212)	Yes	Good	Poor	IV

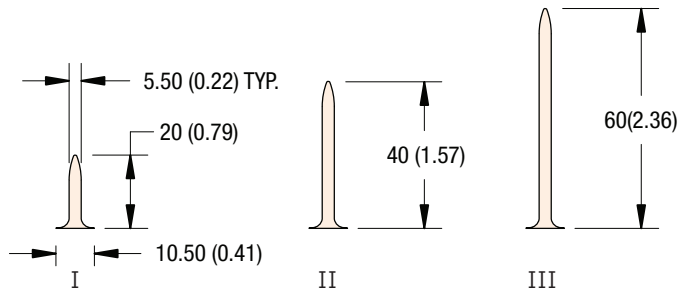
CLEATED BELT SPACING



- Cleat spacing is determined by conveyor length and desired number of cleats
- Minimum spacing = 50 mm (2 in)
- Spacing accuracy = ± 2 mm (.08 in)
- Maximum 2135 mm (84 in) conveyor length for 487 mm (18 in) and wider conveyors
- Maximum 508 mm (20 in) cleat spacing for 2135 mm (84 in) and longer conveyors

Dim = mm (in)

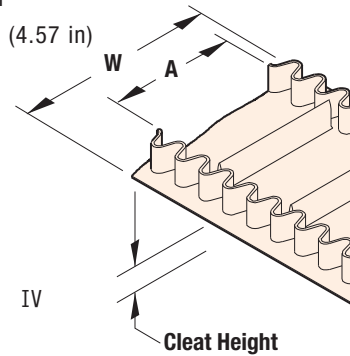
SPECIALTY CLEATED BELT PROFILES



W = Conveyor Belt Width

A = Pocket Width

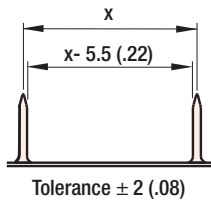
A = W - 116 mm (4.57 in)



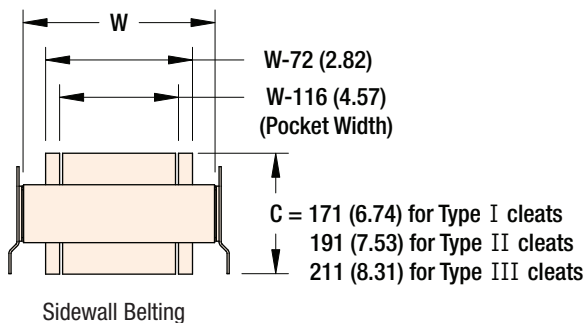
Specialty Cleated Belt Selection Guide

Part No.		Base Belt	Belt Thickness, mm (in)	Belt Surface Material	Cleat Height, mm (in)	Cleat Material	Maximum Part Temp. °C (°F)	FDA Approved	Chemical Resistance	Moisture Resistance	Illustration
Cleated	N	Sealed Edge	1.5 (0.06)	Urethane	20 (0.79)	Urethane	80 (176)	Yes	Good	Good	I
	P	Sealed Edge	1.5 (0.06)	Urethane	40 (1.57)	Urethane	80 (176)	Yes	Good	Good	II
	Q	Sealed Edge	1.5 (0.06)	Urethane	60 (2.36)	Urethane	80 (176)	Yes	Good	Good	III
	R	Encased	2.0 (0.08)	Urethane	0.79 (20)	Urethane	100 (212)	Yes	Good	Very Good	I
	S	Encased	2.0 (0.08)	Urethane	40 (1.57)	Urethane	100 (212)	Yes	Good	Very Good	II
	T	Encased	2.0 (0.08)	Urethane	60 (2.36)	Urethane	100 (212)	Yes	Good	Very Good	III
Sidewall Cleated	U	Standard	1.5 (0.06)	Urethane	30 (1.18)	Urethane	80 (176)	Yes	Good	Poor	IV
	V	Standard	1.5 (0.06)	Urethane	50 (1.97)	Urethane	80 (176))	Yes	Good	Poor	IV
	W	Sealed Edge	1.5 (0.06)	Urethane	30 (1.18)	Urethane	80 (176)	Yes	Good	Good	IV
	X	Sealed Edge	1.5 (0.06)	Urethane	50 (1.97)	Urethane	80 (176)	Yes	Good	Good	IV
	Y	Encased	1.5 (0.06)	Urethane	30 (1.18)	Urethane	80 (176)	Yes	Good	Very Good	IV
	Z	Encased	1.5 (0.06)	Urethane	50 (1.97)	Urethane	80 (176)	Yes	Good	Very Good	IV

SPECIALTY CLEATED BELT SPACING

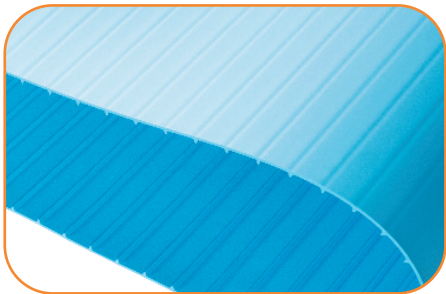


- Cleat spacing is determined by conveyor length and desired number of cleats
- Minimum spacing = 50 mm (2 in)
- Spacing accuracy = ± 2 mm (.08 in)
- Maximum 2135 mm (84 in) conveyor length for 487 mm (18 in) and wider conveyors
- Maximum 508 mm (20 in) cleat spacing for 2135 mm (84 in) and longer conveyors



Dim = mm (in)

POSITIVE DRIVE BELTING

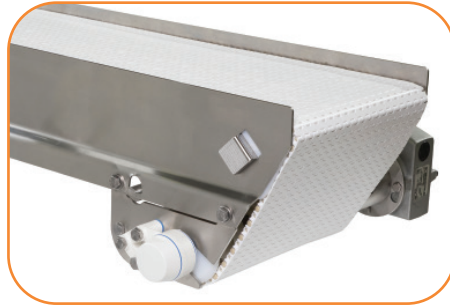


Specifications

- Solid Urethane material
- Drive lugs on 25 mm (1 in) spacing
- Available in Blue or White
- Excellent abrasion and tear resistance

(Also available in white)

Positive Drive Belt Selection Guide							
Description	Surface Material	Belt Thickness, mm (in)	Maximum Part Temp. C (F)	Sanitation Temperature °C (°F)	USDA Approval	Chemical Resistance	Special Characteristics
Flat Belt Smooth, Matte Finish	Homogeneous Thermoplastic, FDA Compliant Polyurethane 01 Smooth top white 02 Smooth top blue	6 mm (0.236 in)	-28 to 80 (-20 to 176)	up to 85 (185)	x	Very Good	Smooth Surface



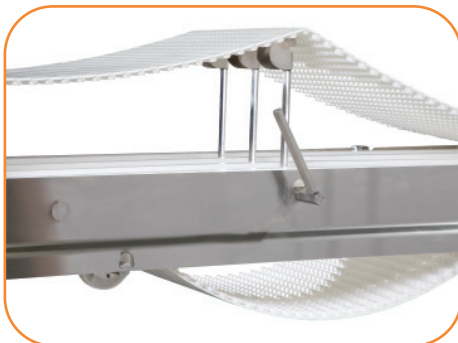
NOSEBAR DRIVE AND IDLER OPTIONS

FOR TRANSFER OF SMALL PRODUCTS



PATENTED SPROCKET ALIGNMENT KEY

PROVIDES CONTINUOUS SPROCKET ALIGNMENT FOR QUICK BELT SANITATION AND ASSEMBLY



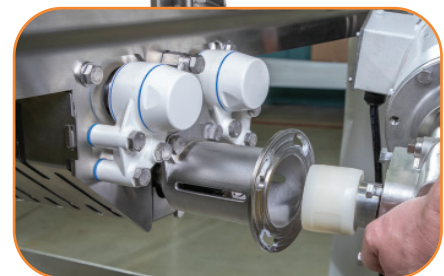
BELT LIFTER

FOR EASY CLEANING ON WIDE OR LONG CONVEYORS



TIP-UP TAIL

FOR QUICK RELEASE OF BELT TENSION



QUICK REMOVAL SIDE MOUNT GEARMOTOR

TO REDUCE SANITATION TIME

*Note: Do not run the conveyor with the tail in the tip-up position.



AquaPruf iDRIVE2 MOTORIZED ROLLER
NEW GEARLESS, OIL-FREE TECHNOLOGY PROVIDES
FOOD SAFE COMPACT FOOTPRINT



**STAINLESS STEEL
GEARMOTORS**
LOCATED OUTSIDE OF FOOD ZONE



SOLID UHMW WEAR STRIPS
QUICKLY REMOVED WITHOUT TOOLS
FOR CLEANING. MOST PIECES
ARE IDENTICAL AND COMPLETELY
INTERCHANGEABLE.



**USDA ACCEPTED OPEN
HINGE MODULAR BELT**
IMPROVES CLEANING AND
ACCESS TO PINS



**STAINLESS STEEL WELDED
FRAME CONSTRUCTION**
ELIMINATES FASTENERS IN FOOD ZONE
(CONTINUOUS TIG WELDING)

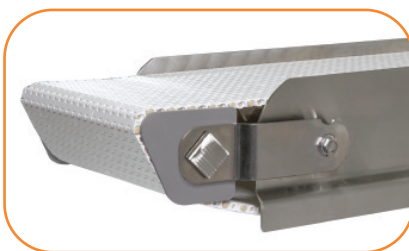


Specifications

- Loads up to 341 kg (750 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 78.6 m/min (260 ft/min)
- Belt widths: 150 mm (5.9 in) to 1200 mm (47.3 in)
- Conveyor lengths: 915 mm (36 in) to 25000 mm (984 in)
- Continuous TIG Welded 304 Stainless Steel Frame
- 400 Series Stainless Steel bearing with FDA H1 food grade grease
- FDA approved belting and plastic components
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- One revolution of 99 mm (3.9 in) pitch sprocket moves the belt approximately 305 mm (12.0 in)
- AquaPruf Ultimate 3A models available. See page 44.



**STANDARD:
Tip-Up Tail****



OPTIONAL: Nose Bar Idler Tail

25 mm (1 in) diameter for small parts transfer. Speeds up to 79 m/min (260 ft/min)



OPTIONAL: Nose Bar Drive Tail

25 mm (1 in) diameter for small parts transfer. Speeds up to 79 m/min (260 ft/min)

AquaPruf Modular Flat Belt End Drive Conveyor

74 B M WWWWW - L L L L L D I A 1 S S P P P P B B - X T¹ T²

— **Conveyor Tail Options X** (if required)
0 = No shaft (3 and 4 always 0 for tip-up tail), K = Keyed Shaft

— **Belt Type: Chain** See Pages 42-43 for belt selection

— **Profile (D side)**
— **Profile (A side)**
01 = Low Side 02 = 25 mm (1 in) Integral Stainless Steel High Side 04 = 75 mm (3 in) UHMW High Side
06 = 152 mm (6 in) UHMW High Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side 0.

— **Idler Stand Location:** Note: Tip-up tail start at 18"
A = No Stand Mount Mounting brackets C = 457 mm (18 in) from end D = 610 mm (24 in) from end E = 762 mm (30 in) from end
F = 914 mm (36 in) from end H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces
K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces

— **Drive Stand Location:**
A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces

— **Cleaning Option/Scraper:** 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters

— **Drive Shaft Position:** A or D

— **Idler Tail Type:** 1 = Standard 2 = Nose Bar

— **Drive Tail Types:** 1 = Customer Supplied Motor Standard Tail 2 = Side Drive Standard Tail 3 = Motorized Roller Standard Tail
4 = Customer Supplied Motor Nose Bar Drive 5 = Side Drive Nosebar Roller Tail

— **Conveyor Length (mm):** 00915 to 25000 in 5 mm increments (36 – 984 in)

— **Conveyor Width Reference (mm):** = 0150 to 1200 (5.9 – 47.3 in)

— **Documentation Language:** M = US English

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

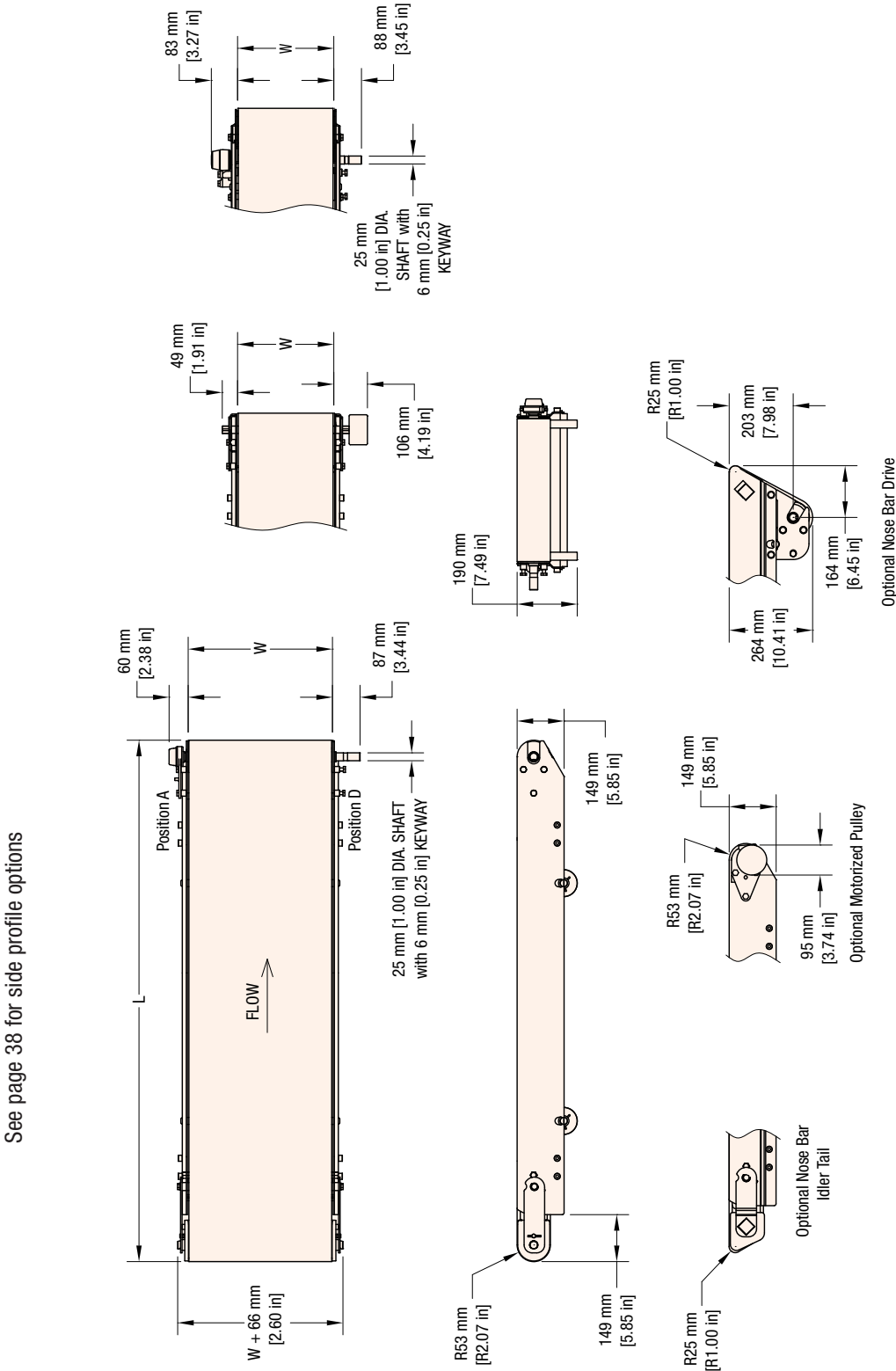
** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

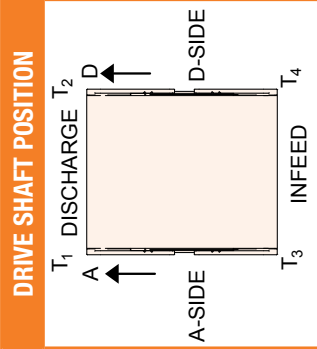
STRAIGHT MODULAR FLAT BELT



- SANITARY
OPTIONS
- FRAME CUTOUTS
- NOSEBAR
- BELT LIFTER
- iDRIVE 2
MOTORIZED ROLLER

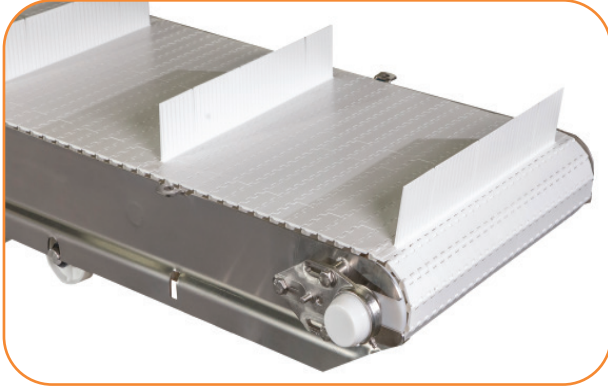


W = Conveyor Belt Width Dim = mm (in)



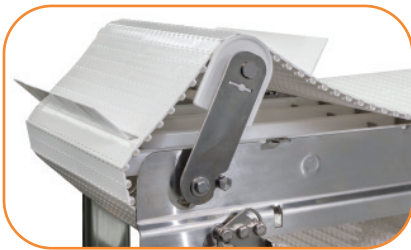
STANDARD SIZES						
Conveyor Width Reference	150	200	250	50 increments up to ...		
Conveyor Belt Width (W)	150	200	250	50 mm increments up to ...		
	(5.9)	(7.9)	(9.8)	1.97 in increments up to ...		
Conveyor Length Reference	00915			00005 increments up to ...		
Conveyor Length (L)	00915 (36)			00005 (0.2) increments up to ...		
				12190	12190 (480)	

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



Specifications

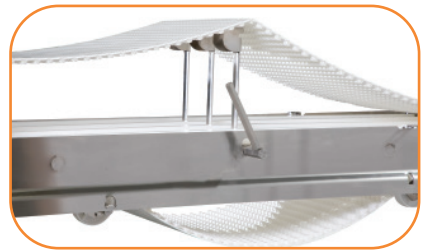
- Loads up to 341 kg (750 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 78.6 m/min (260 ft/min)
- Belt widths: 200 mm (7.9 in) to 600 mm (23.6 in)
- Conveyor lengths: 915 mm (36 in) to 25000 mm (984 in)
- Cleat heights from 25 mm (1 in) to 75 mm (3 in)
- Continuous TIG Welded 304 Stainless Steel Frame
- 400 Series Stainless Steel bearing with FDA H1 food grade grease
- FDA approved belting and plastic components
- Open design with minimal horizontal surfaces
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- AquaPruf Ultimate 3A Certified available. See page 44.



STANDARD:
Tip-Up Tail**



OPTIONAL:
High Side Guides
Up to 152 mm (6 in) tall



OPTIONAL:
Frame Cutouts and/or Lifters

AquaPruf Modular Cleated Belt End Drive Conveyor

74	F	M	WWW	-	LL	LL	D	I	A	1	S	S	PP	SS	BB	-	X	T ¹	T ²
																			Conveyor Tail Options X (if required)
																			O = No shaft K = Keyed Shaft
																			Cleat Spacing: 01 - 99 (links)
																			Belt Type: Chain See Pages 42-43 for belt selection
																			Profile
																			01 = Low Side 04 = 75mm (3 in) UHMW High Side 06 = Cleated 152mm (6 in) UHMW High Side
																			23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side
																			Idler Stand Location:
																			A = No Stand Mount Mounting brackets C = 457 mm (18 in) from end D = 610 mm (24 in) from end E = 762 mm (30 in) from end
																			F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
																			J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces
																			Drive Stand Location:
																			A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
																			G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces
																			Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters
																			Drive Shaft Position: A or D
																			Idler Tail Type: 1 = Standard
																			Drive Tail Types: 1 = Customer Supplied Motor Standard Tail 2 = Side Drive Standard Tail 3 = Motorized Roller Standard Tail
																			Conveyor Length (mm): 00915 to 25000 in 5 mm increments (36 - 984 in)
																			Conveyor Width Reference (mm): = 200 to 600 (7.9 - 23.6 in)
																			Documentation Language: M = US English

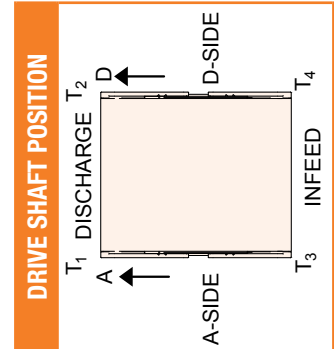
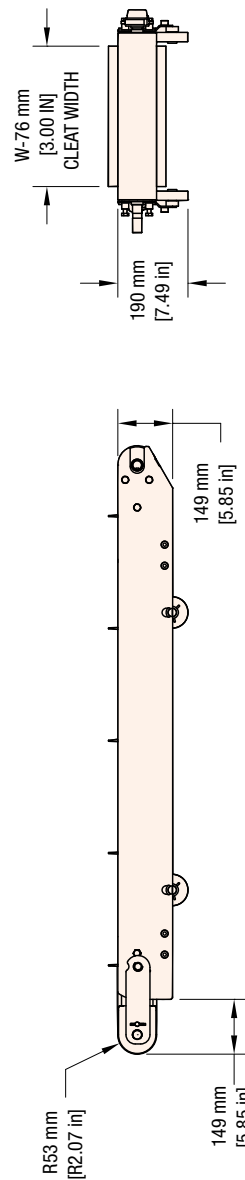
* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

AquaPruf®

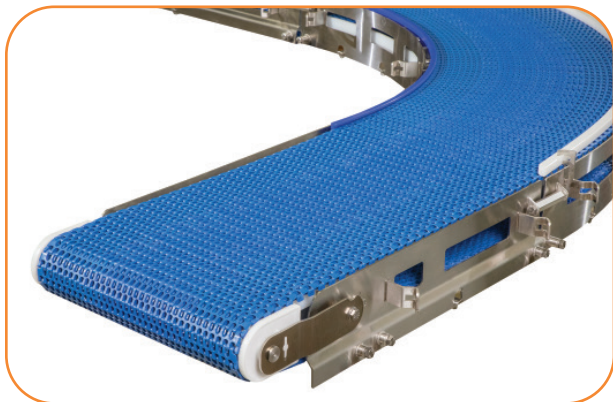
- SANITARY OPTIONS
- FRAME CUTOUTS
- BELT LIFTER
- DIRVE 2
MOTORIZED ROLLER



W = Conveyor Belt Width **Dim** = mm (in)

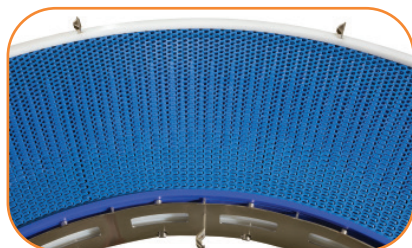
STANDARD SIZES										
Conveyor Width Reference	200	250	300	350	400	450	500	550	600	
Conveyor Belt Width (W)	200	250	300	350	400	450	500	550	600	
	(7.9)	(9.8)	(11.8)	(13.8)	(15.7)	(17.7)	(19.7)	(21.7)	(23.6)	
Conveyor Length Reference	00915	00005 increments up to ...							25000	
Conveyor Length (L)	0915 (36)	00005 (0.2) increments up to ...							25000 (984)	





Specifications

- Loads up to 227 kg (500 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 78.6 m/min (260 ft/min)
- Belt widths: 152 mm (6 in) to 914 mm (36 in)
- Conveyor section lengths: 460 mm (18 in) to 15240 mm (600 in)
- Curve angles of 15, 30, 45, 60, 75, 90, 135 and 180 degrees
- Continuous TIG Welded 304 Stainless Steel Frame
- Up to curves driven by one gearmotor
- FDA approved belting and plastic components
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- AquaPruf Ultimate 3A models available. See page 44.



Curve Innovation

Improved chain strength provides capability for 3 curves on one gearmotor



STANDARD: Tip-Up Tail**



OPTIONAL: Frame Cutouts and/or Lifters

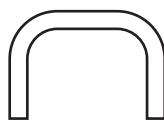
Multiple Curve Configurations



Single Curve



S-Curve



U-Curve



Up to 3 Curves

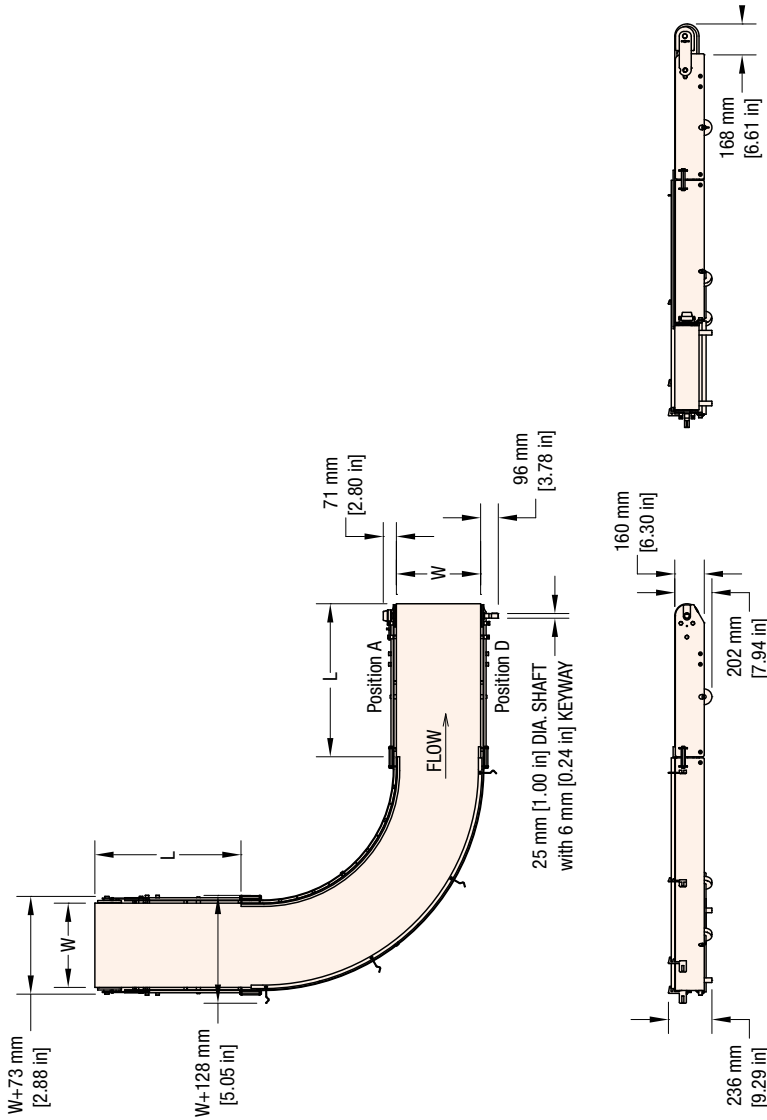
* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

CURVED MODULAR FLAT BELT

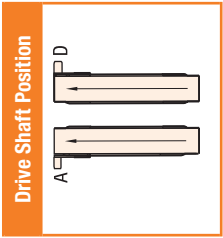


See page 38 for side profile options



W = Conveyor Belt Width Dim = mm (in)

Belt Width Table		
Curve Width	Actual Belt width	Inside belt radius
152	149mm (5.9 inch)	243mm (9.6 inch)
229	226mm (8.9 inch)	366mm (14.4 inch)
305	302mm (11.9 inch)	488mm (19.2 inch)
381	379mm (14.9 inch)	610mm (24.0 inch)
457	455mm (17.9 inch)	731mm (28.8 inch)
533	531mm (20.9 inch)	853mm (33.6 inch)
610	608mm (23.9 inch)	976mm (38.4 inch)
686	684mm (26.9 inch)	1098mm (43.2 inch)
762	761mm (30.0 inch)	1219mm (48.0 inch)
838	837mm (33.0 inch)	1341mm (52.8 inch)
914	914mm (36.0 inch)	1462mm (57.6 inch)



STANDARD SIZES											
Conveyor Width Reference	152	229	305	381	457	533	610	686	762	838	914
Conveyor Belt Width (W)	152	229	305	381	457	533	610	686	762	838	914
	(6)	(9)	(12)	(15)	(18)	(21)	(24)	(27)	(30)	(33)	(36)
Conveyor Length Reference	00460										
Conveyor Length (L)	00005 increments up to...										
	00460 (18)	00005 (0.2) increments up to...									15240 (600)

NOTE: Total length of all sections cannot exceed 25000 mm (984 in)
Maximum of 3 curves

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

AquaPruf Curved Modular Belt Conveyor - Infeed Module

74 T 1 M WWW - L L L L L 1 S P P P B B - S S

Sequence 01 to 99

Belt Type: Chain See Pages 42-43 for belt selection

Profile (D side)

Profile (A side)

01 = Low Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side

Idler Stand Location:

A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
E = 762 mm (30 in) from end F = 914 mm (36 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces M = 914 mm (36 in) from end with braces

Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters

Idler Tail Type: 1 = Standard

Conveyor Length (mm): 00500 to 15240 in 5 mm increments (20 to 600 in)

Conveyor Width Reference (mm): = 152 to 914 (6 to 36 in)

Documentation Language: M = US English

Module Type: 1 = Infeed Module

Conveyor Type: T = Modular Belt Curve

AquaPruf Curved Modular Belt Conveyor - Curve Module

74 T 2 M WWW - A A A I 1 P P P B B - S S

Sequence 01 to 99

Belt Type: Chain See Pages 42-43 for belt selection

Profile (D side)

Profile (A side)

01 = Low Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side

Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only

Direction: L = Left Hand Turn R = Right Hand Turn

Degrees of Turn: = 015, 030, 045, 060, 075, 090, 135 or 180

Conveyor Width Reference (mm): = 152 to 914 (6 to 36 in)

Documentation Language: M = US English

Module Type: 2 = Curve Module

Conveyor Type: T = Modular Belt Curve

AquaPruf Curved Modular Belt Conveyor - Intermediate Module

74 T 3 M WWW - L L L L L 1 S P P P B B - S S

Sequence 01 to 99

Belt Type: Chain See Pages 42-43 for belt selection

Profile (D side)

Profile (A side)

01 = Low Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side

Stand Style: A = No Braces B = Braces

Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters

Conveyor Length (mm): 00500 to 15240 in 5 mm increments (20 to 600 in)

Conveyor Width Reference (mm): = 152 to 914 (6 to 36 in)

Documentation Language: M = US English

Module Type: 3 = Intermediate Module

Conveyor Type: T = Modular Belt Curve

AquaPruf Curved Discharge Modular Belt Conveyor - Drive Modular

74 T 5 M WWW - L L L L L I A 1 S P P P B B - S S

Sequence 01 to 99

Belt Type: Chain See Pages 42-43 for belt selection

Profile (D side)

Profile (A side)

01 = Low Side 13 = Fully Adjustable Round 14 = Tool-less Fully Adjustable Round
23 = 75mm (3 in) Tall Stainless Steel High Side 26 = 152mm (6 in) Tall Stainless Steel High Side

Drive Stand Location:

A = No Stand Mount Mounting brackets B = 305mm (12 in) from end C = 457 mm (18 in) from end D = 610 mm (24 in) from end
G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces J = 610 mm (24 in) from end with braces

Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters

Drive Position: A or D

Drive Tail Type: 1 = Customer Supplied Motor Standard Tail 2 = Side Drive Standard Tail

Conveyor Length (mm): 00500 to 15240 in 5 mm increments (20 to 600 in)

Conveyor Width Reference (mm): = 152 to 914 (6 to 36 in)

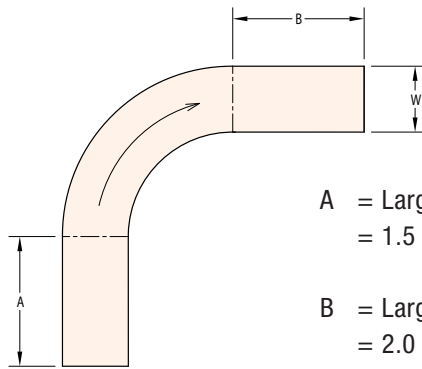
Documentation Language: M = US English

Module Type: 5 = Drive Module

Conveyor Type: T = Modular Belt Curve

Minimum Curve Section Lengths:

Single Curve

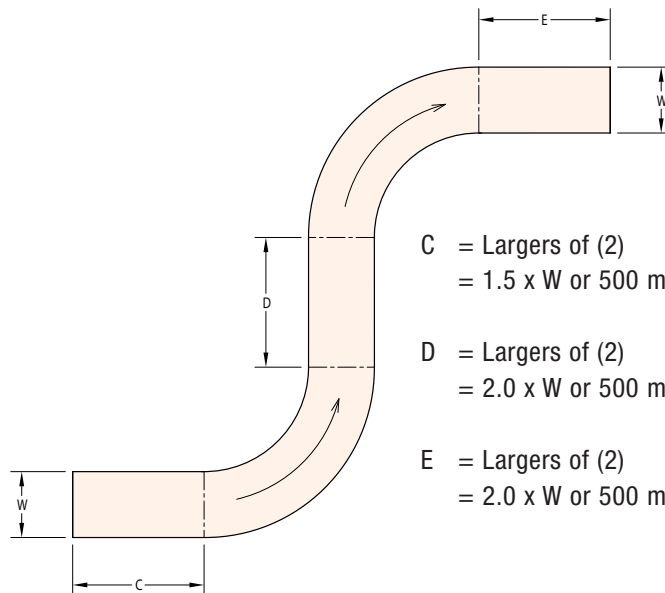


A = Langers of (2)
= 1.5 x W or 500 mm (19.7 in)

B = Langers of (2)
= 2.0 x W or 500 mm (19.7 in)

Single Curve		
Width	A	B
152	500	500
229	500	500
305	500	610
381	570	765
457	685	915
533	800	1070
610	915	1220
686	1025	1375
762	1140	1525
838	1255	1680
914	1370	1830

S-Curve



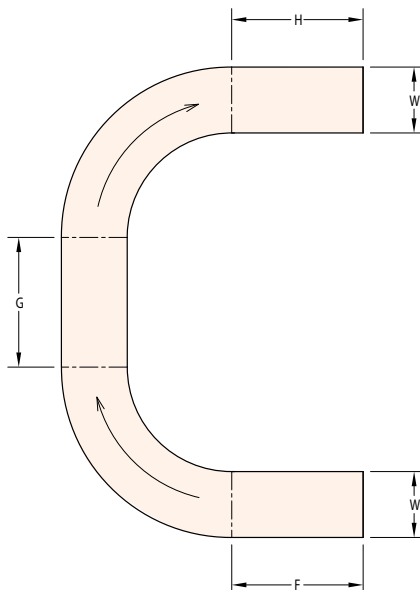
C = Langers of (2)
= 1.5 x W or 500 mm (19.7 in)

D = Langers of (2)
= 2.0 x W or 500 mm (19.7 in)

E = Langers of (2)
= 2.0 x W or 500 mm (19.7 in)

S Curve			
Width	C	D	E
152	500	500	500
229	500	500	500
305	500	610	610
381	570	765	765
457	685	915	915
533	800	1070	1070
610	915	1220	1220
686	1025	1375	1375
762	1140	1525	1525
838	1255	1680	1680
914	1370	1830	1830

U-Curve



F = Langers of (2)
= 1.5 x W or 500 mm (19.7 in)

G = 500 mm (19.7 in)

H = Langers of (2)
= 2.0 x W or 500 mm (19.7 in)

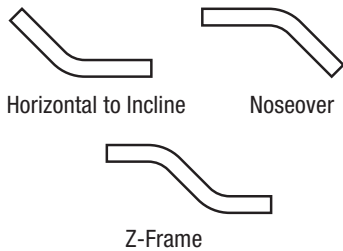
U Curve			
Width	F	G	H
152	500	500	500
229	500	500	500
305	500	500	610
381	570	500	765
457	685	500	915
533	800	500	1070
610	915	500	1220
686	1025	500	1375
762	1140	500	1525
838	1255	500	1680
914	1370	500	1830



Specifications

- Loads up to 45 kg (100 lbs) or 98 kg/sq m (20 lbs/sq ft)*
- Belt speeds up to 78.6 m/min (260 ft/min)
- Belt widths: 200 mm (7.9 in) to 600 mm (23.6 in)
- Conveyor section lengths: 610 mm (24 in) to 6100 mm (240 in)
- Maximum total conveyor length of 25000 mm (984 in)
- Angles from 30 degrees to 60 degrees in 5 degree increments
- Continuous TIG Welded 304 Stainless Steel Frame
- FDA approved belting and plastic components
- Suitable for use in raw food applications
- Stainless Steel construction for wash down cleaning with caustic solutions
- AquaPruf Ultimate 3A models available. See page 44.

Configurations



STANDARD:
Tip-Up Tail**



OPTIONAL: High Side Guides
Up to 152 mm (6 in) tall

AquaPruf LPZ (Z-Frame) Modular Cleated Conveyor

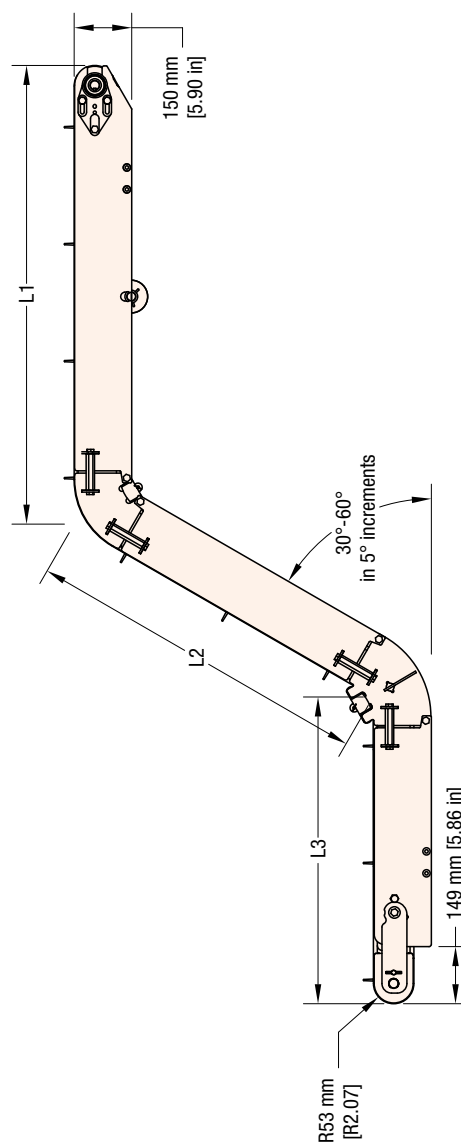
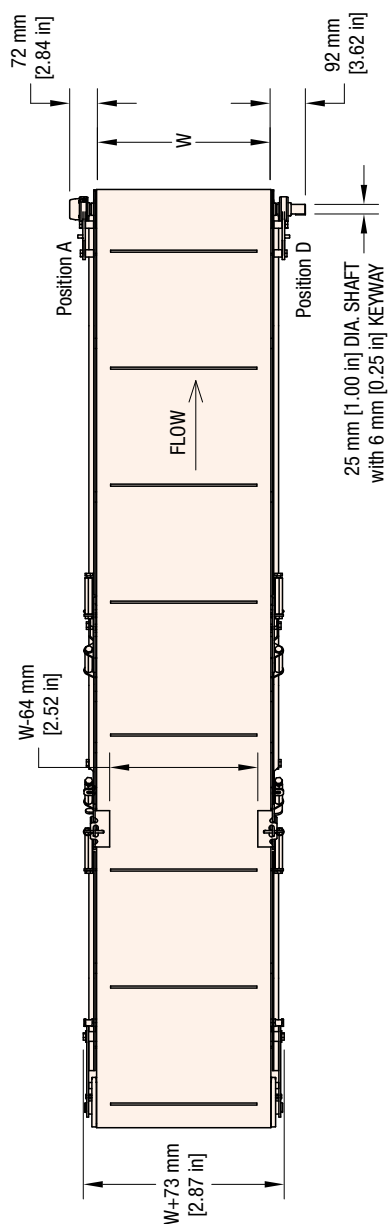
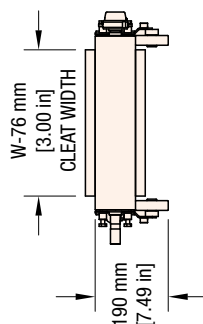
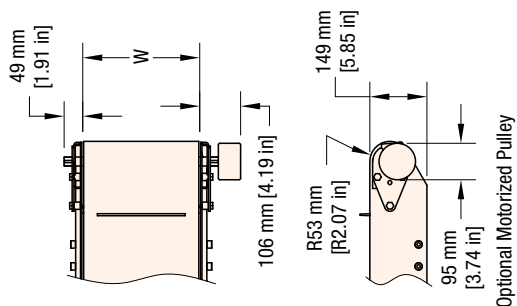
74	F	M	WWW	-	LLLL	-	LLLL	-	LLLL	AA	E	D	I	A	1	S	S	P	BB	SS	-	X	T ¹
																							Conveyor Tail Options X (if required)
																							0 = No shaft K = Keyed Shaft
																							Spacing: 01 - 99 (links)
																							Belt/Cleat Type: Chain See Pages 42-43 for belt selection
																							Profile:
																							1 = Low Side 7 = 75mm (3 in) Tall Stainless Steel High Side 8 = 152mm (6 in) Tall Stainless Steel High Side
																							Idler Stand Location:
																							A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end
																							D = 610 mm (24 in) from end E = 762 mm (30 in) from end F = 914 mm (36 in) from end
																							G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
																							J = 610 mm (24 in) from end with braces K = 762 mm (30 in) from end with braces
																							M = 914 mm (36 in) from end with braces
																							Drive Stand Location:
																							A = No Stand Mount Mounting brackets B = 305 mm (12 in) from end C = 457 mm (18 in) from end
																							D = 610 mm (24 in) from end G = 305 mm (12 in) from end with braces H = 457 mm (18 in) from end with braces
																							J = 610 mm (24 in) from end with braces
																							Cleaning Option/Scraper: 0 = None 1 = Frame Cut Outs only 2 = Belt Lifters only 3 = Frame Cut Out and Belt Lifters
																							Drive Shaft Position: A or D
																							Idler Tail Type: 1 = Standard
																							Drive Tail Type: 1 = Customer Supplied Motor Standard Tail 2 = Side Drive Standard Tail 3 = Motorized Roller Standard Tail
																							Belt Direction: E = Inclining, D = Declining
																							Angle: 30 degrees thru 60 degrees in 05 degree increments
																							Conveyor L3 Lower Horizontal Section Length (mm): 0610 to 6100 in 5 mm increments (64 - 240 in)
																							Conveyor L2 Angled Section Length (mm): 0610 to 6100 in 5 mm increments (24 - 240 in)
																							Conveyor L1 Upper Horizontal Section Length (mm): 0610 to 6100 in 5 mm increments (24 - 240 in)
																							Conveyor Width Reference (mm): = 0200 to 0600 (7.9 - 23.6 in)
																							Documentation Language: M = US English

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

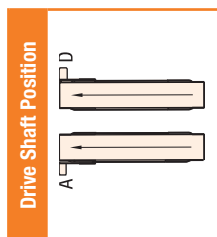
** Note: Do not run the conveyor with the tail in the tip-up position.

Order gearmotor mounting packages and gearmotors separately, see pages 47-50.
For support stands and accessories, see page 52-55.

AquaPruf®

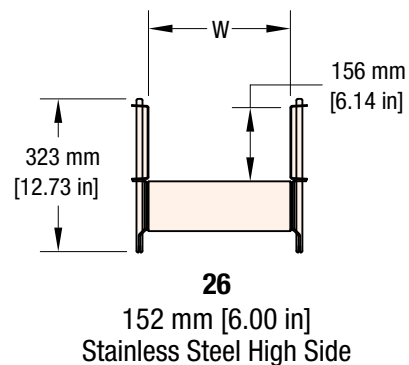
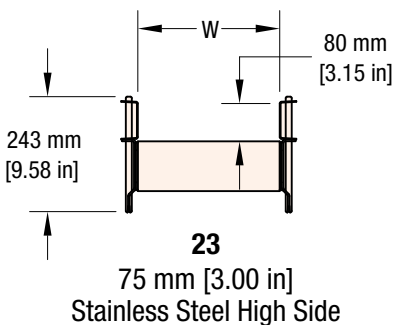
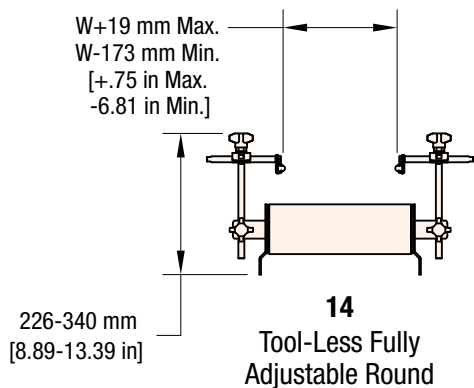
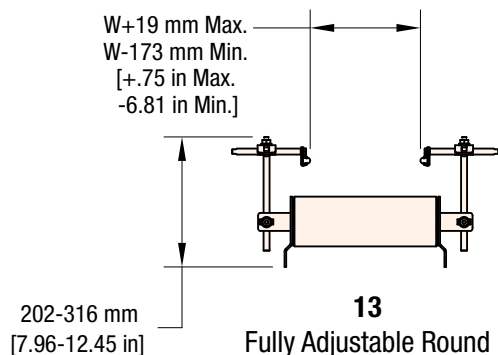
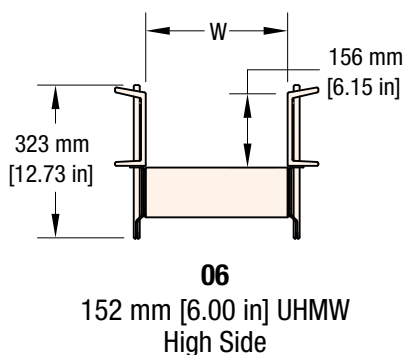
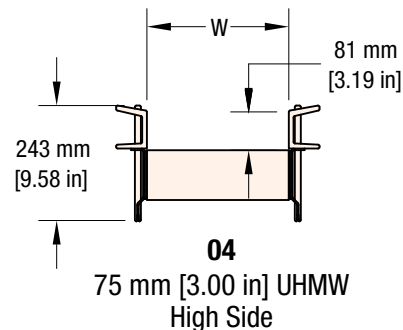
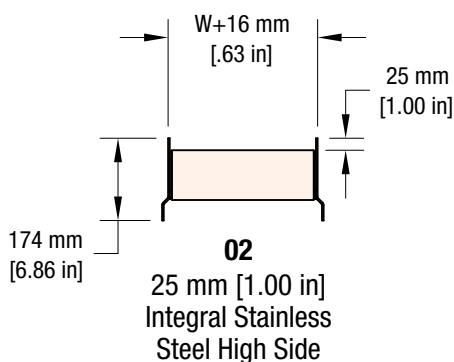
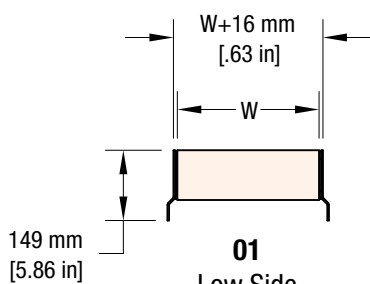


W = Conveyor Belt Width **Dim** = mm (in)



STANDARD SIZES											
Conveyor Width Reference	200	250	300	350	400	450	500	550	600		
Conveyor Belt Width (W)	200	250	300	350	400	450	500	550	600		
	(7.9)	(9.8)	(11.8)	(13.8)	(15.7)	(17.7)	(19.7)	(21.7)	(23.6)		
Conveyor Length Reference	0610	00005 increments up to ...								6100	
Conveyor Length (L)	0610 (24)	00005 (0.2) increments up to ...								6100 (240)	

FLAT MODULAR BELT PROFILES

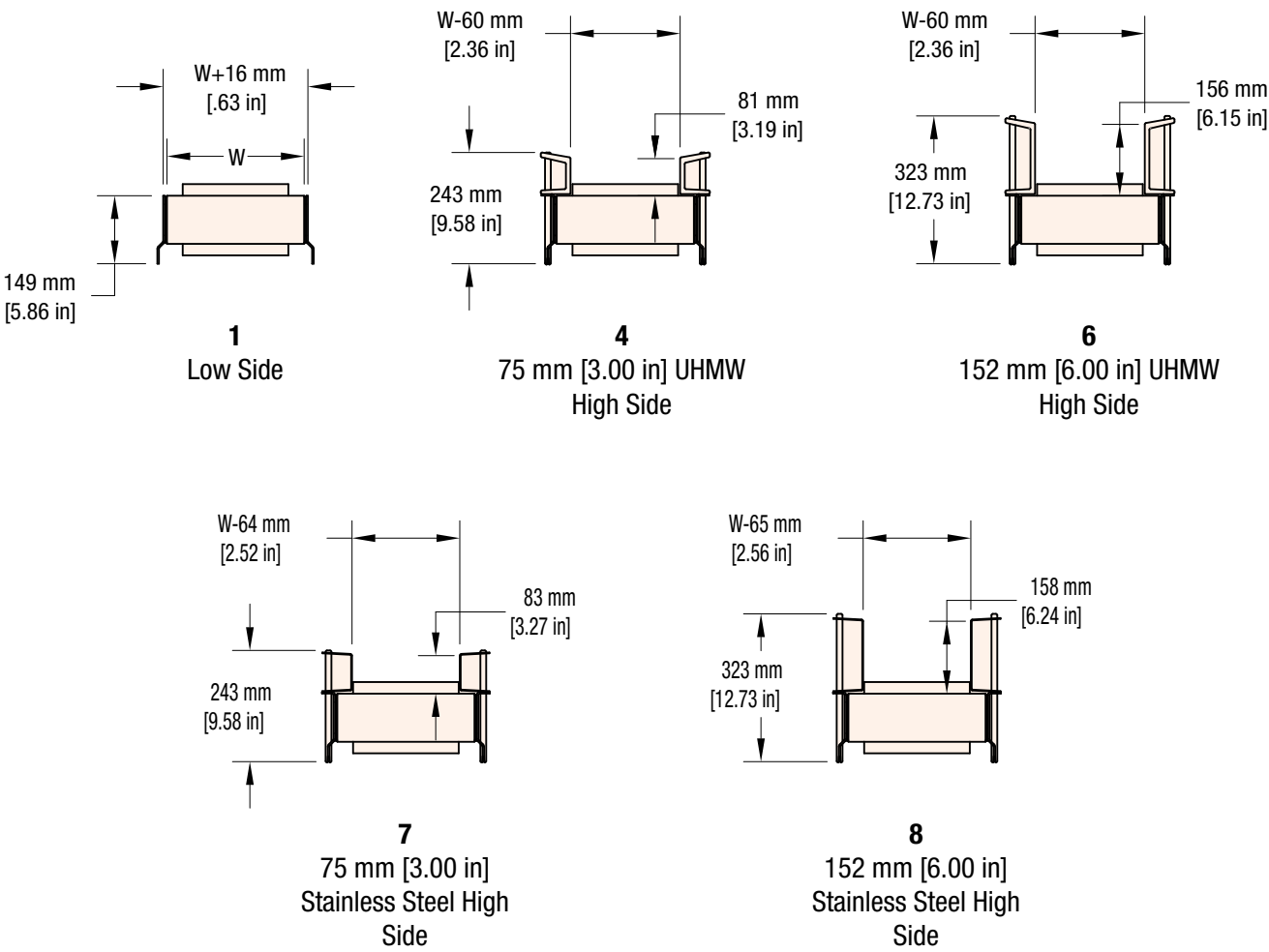


All AquaPruf stainless steel and UHMW guiding profiles are quick removal without tools for fast effective cleaning

W = Conveyor Belt Width **Dim** = mm (in)

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

CLEATED MODULAR BELT PROFILES



All AquaPruf stainless steel and UHMW guiding profiles are quick removal without tools for fast effective cleaning

W = Conveyor Belt Width **Dim** = mm (in)

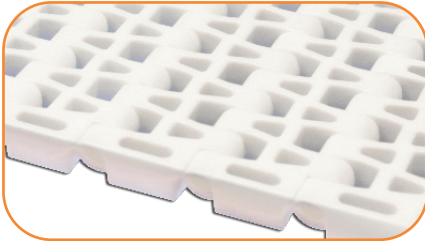
Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

MODULAR BELT TYPES



Flat Top Belts

provide a closed surface for complete product support, easy wiping.



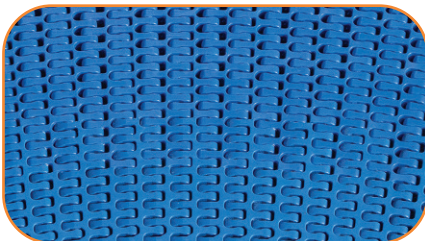
Flush Grid Belts

provide an open surface for better drainage, cleaning or air flow/cooling.



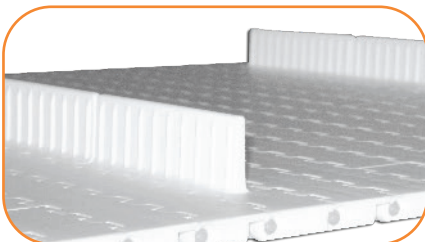
Friction Inserts

are available for incline applications. Inserts may be placed along entire length of the belt or spaced on 51 mm (2 in), 102 mm (4 in), 152 mm (6 in) or 305 mm (12 in) centers. Friction inserts are indented 51 mm (2 in) from each belt edge.



Curve Belts

provide a tight radius, space saving corner. Side tabs ensure positive belt tracking with a flush top design. Stainless bearings reduce friction providing capability of up to (4) corners.



Cleated Belts

provide a sturdy cleat for elevation at steep inclines. Cleats available in 25 mm (1 in) and 76 mm (3 in) heights.

Modular Belt Selection Guide

Belt Type		Part Number Reference	Description mm (in)	% Open	Pitch mm (in)	Belt Thickness mm (in)	Color	Belt Material	Rod Material	Minimum Product Temperature C (F)	Maximum Product Temperature C (F)***	FDA / CFIA Approved*	Chemical Resistance	Wear Resistance	Maximum Incline / Decline (degrees)**	Nose Bar Idler Diameter mm (in)
Straight Flat Belts	Standard Drive & Idler Pulley	MA/BA	Flat top	0	25 (1)	11 (.43)	White/Blue	Acetal	Polyethylene	-40 (-40)	102 (215)	Y	Good	V-Good	5	N/A
		MB/BB	Flat top	0	25 (1)	11 (.43)	White/Blue	Polypropylene	Polypropylene	5 (40)	135 (275)	Y	V-Good	Good	5	N/A
		MC/BC	Flush grid	35	25 (1)	10 (.39)	White/Blue	Acetal	Polypropylene	5 (40)	93 (200)	Y	Good	V-Good	5	N/A
		MD/BD	Flush grid	35	25 (1)	10 (.39)	White/Blue	Polypropylene	Polypropylene	5 (40)	105 (220)	Y	V-Good	Good	5	N/A
	Nose Bar Drive or Nose Bar Idler	MG/BG	Flat top	0	13 (.5)	10 (.39)	White/Blue	Acetal	Nylon	-40 (-40)	93 (200)	Y	Good	Good	5	25 (1)
		MH/BH	Flat top	0	13 (.5)	10 (.39)	White/Blue	Polypropylene	Nylon	5 (40)	105 (220)	Y	V-Good	V-Good	5	25 (1)
		MJ/BJ	Flush grid	25	13 (.5)	10 (.39)	White/Blue	Acetal	Nylon	-40 (-40)	93 (200)	Y	Good	Good	5	25 (1)
		MK/BK	Flush grid	25	13 (.5)	10 (.39)	White/Blue	Polypropylene	Nylon	5 (40)	105 (220)	Y	V-Good	V-Good	5	25 (1)
Cleated Straight Belts	Standard Drive and Idler Pulley	NA	Flat Top w/25 (1) Cleats	0	25 (1)	11 (.43)	White	Acetal	Polyethylene	-40 (-40)	102 (215)	Y	Good	V-Good	60	N/A
		NB	Flat Top w/25 (1) Cleats	0	25 (1)	11 (.43)	White	Polypropylene	Polypropylene	5 (40)	135 (275)	Y	V-Good	Good	60	N/A
		NC	Flat Top w/75 (3) Cleats	0	25 (1)	11 (.43)	White	Acetal	Polyethylene	-40 (-40)	102 (215)	Y	Good	V-Good	60	N/A
		ND	Flat Top w/75 (3) Cleats	0	25 (1)	11 (.43)	White	Polypropylene	Polypropylene	5 (40)	135 (275)	Y	V-Good	Good	60	N/A
		NE	Flush Grid w/25 (1) Cleats	35	25 (1)	10 (.39)	White	Acetal	Polypropylene	5 (40)	93 (200)	Y	Good	V-Good	60	N/A
		NF	Flush Grid w/25 (1) Cleats	35	25 (1)	10 (.39)	White	Polypropylene	Polypropylene	5 (40)	105 (220)	Y	V-Good	Good	60	N/A
		NG	Flush Grid w/75 (3) Cleats	35	25 (1)	10 (.39)	White	Acetal	Polypropylene	5 (40)	93 (200)	Y	Good	V-Good	60	N/A
		NH	Flush Grid w/75 (3) Cleats	35	25 (1)	10 (.39)	White	Polypropylene	Polypropylene	5 (40)	105 (220)	Y	V-Good	Good	60	N/A
Friction Top Straight Belts	Standard Idler Pulley	See Table Below	Flat top w/friction inserts	0	25 (1)	14 (.55)	White	Polypropylene	Polypropylene	5 (40)	60 (140)	Y	V-Good	Poor	30	N/A
		See Table Below	Flush grid w/friction inserts	35	25 (1)	14 (.55)	White	Polypropylene	Polypropylene	5 (40)	60 (140)	Y	V-Good	Poor	30	N/A
Curved Flat Belts	Standard and Nose Bar Idler Pulley	EA	Plain Chain	0	25 (1)	13 (.51)	Blue	Acetal	Polypropylene	-20 (-4)	60 (140)	Y	Good	V-Good	5	N/A
		EB to EF****	Friction Insert	0	25 (1)	13 (.51)	Blue	Polypropylene	Polypropylene	-20 (-4)	60 (140)	Y	Good	V-Good	30	N/A

* FDA = Food and Drug Administration, CFIA = Canadian Food Inspection Agency

** Temperature, environmental conditions, product materials and product configuration effect the maximum incline or decline. Product testing is recommended.

*** These do not indicate ambient running conditions. Ambient temperature range is -1 to 38 C (30 to 100 F).

Product temperature is dependent on length of time product is in direct contact with belt surface. Product testing is recommended.

**** EB = 25 mm (1 in) spacing; EC = 51 mm (2 in) spacing; ED = 102 mm (4 in) spacing; EE = 152 mm (6 in) spacing; EF = 305 mm (12 in) spacing

FRICITION TOP STRAIGHT PLASTIC CHAIN: Part number reference chart

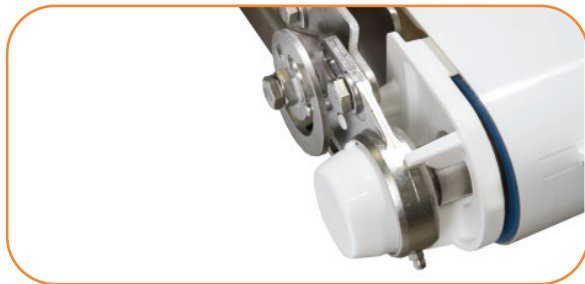
Flat Top w/ Friction Inserts Part Number Reference	TA	TB	TC	TD	TE
Flush Grid w/ Friction Inserts Part Number Reference	N/A	TF	TG	TH	TJ
Friction Insert Spacing	25 mm (1 in)	51 mm (2 in)	102 mm (4 in)	152 mm (6 in)	305 mm (12 in)

Note: Friction Top not available on nose bar drives

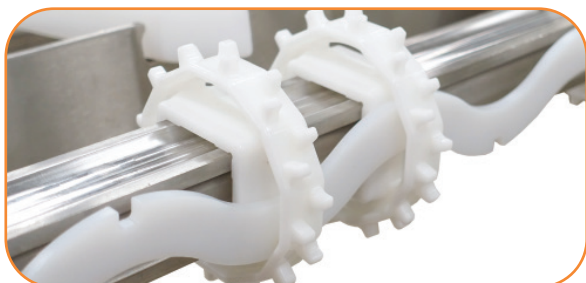
All conveyor models, with the exception of Belted Center drive, are available in AquaPruf Ultimate 3A. These product upgrades ensures that the AquaPruf Ultimate meets the strict requirements of 3A and is optimally designed for use in food applications such as meat, poultry, fish and ready-to-eat. 3A certification pending.



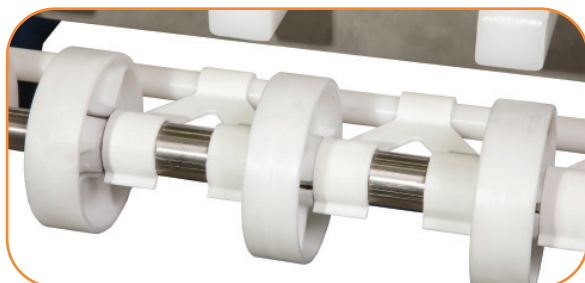
All surfaces on internal frame components are polished to 32 microinch, except belted product.



All bearings are external to the conveyor and a minimum of 25 mm away from the food zone.



Drive sprocket design includes a quick cleaning system to ensure cleaning can be done below the sprocket surface.



Patent pending idler tail cleaning system on Modular Belt and Positive Drive Belt models.



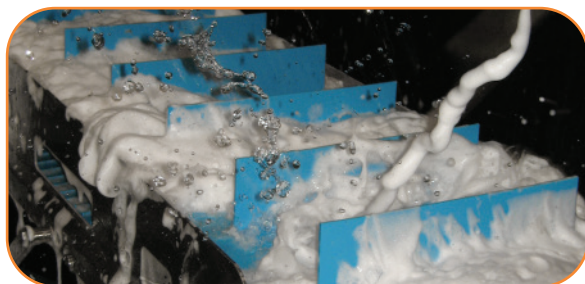
Belting / Chain offered meet strict 3A, USDA and NSF requirements.



All support stands use only sanitary threadless feet designs.



Radii on all internal components meet the 6 mm (0.25") standard requirement.



Conveyor cleaning guideline is provided specifically for effective cleaning of the Dorner product.



Specifications

- Magnetic Direct Drive Technology
- Compatible with Belted, Modular Belt Straight and Positive Drive AquaPruf Conveyors
- Complete stainless steel construction
- IP65 wash down rated
- 20 to 250 rpm
- (3) Conveyance surface options
 - 89 mm (3.5 in) OD Cast on Urethane with K8 V groove
 - 12 tooth, 25 mm (1 in) pitch sprocket for straight modular belts
 - 12 tooth, 25 mm (1 in) pitch sprocket for positive drive flat belt
- UL Approved
- Includes compatible Vector Variable Frequency Drive
 - Single and three phase input voltage options
 - IP65 / Nema 4X enclosure
 - UL / CUL / CE approved



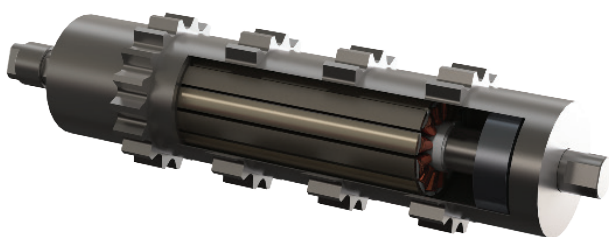
Belted Conveyor



Positive Drive Belted Conveyor



Modular Belted Conveyor



iDrive2 Magnetic Direct Drive Technology

- Eliminates need for gearing
- Eliminates need for oil
- IP65 washdown rated
- Indexing capable
- 50% less power consumption
- 3 year warranty

AquaPruf iDrive2 Motorized Roller

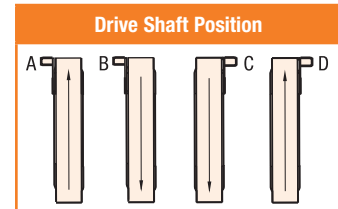
74 M R M WWWW - B V 1 2 2 S

- S = Sanitary Design
- Horsepower: 2 = 1/2 HP 1 = 1 HP 7 = 2 HP
- Output: 2 = 230V output 4 = 460V output
- Input: 1 = Single Phase Input 3 = Three Phase Input
- Volt: 1 = 115V input 2 = 230V input 4 = 460V input
- Controller: V = Includes VFD Controller
- Belt: B = Belted P = Positive Drive Belted M = Modular Belt End Drive, 25 mm (1 in) pitch
- Conveyor Width Reference (mm): = 0152, 0305, 0457 or 0610 (6, 12, 18 or 24 in)
- Documentation Language: M = US English,
- Conveyor Type: MR = Motorized Roller

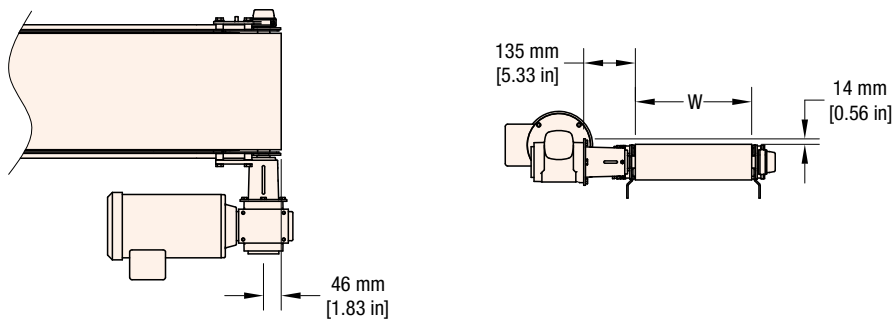
Belt Speed																		
				Belt Speed														
				Belted Conveyor				Modular Belt				Positive Drive Belt						
Width		RPM		m/min		ft/min		m/min		ft/min		m/min		ft/min		Torque		Amps
(mm)	(inch)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Nm	in-lbs	FLA
152	6	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	3	27	1.3
203	8	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	7	62	2.3
254	10	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	10	89	2.5
305	12	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	15	133	2.75
356	14	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	15	133	2.75
406	16	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	20	177	2.3
457	18	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	25	221	2.6
508	20	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	25	221	2.6
559	22	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	30	266	5.2
610	24	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	30	266	5.2
660	26	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	30	266	5.2
711	28	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	30	266	5.2
762	30	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
813	32	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
864	34	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
914	36	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
965	38	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
1016	40	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
1067	42	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
1118	44	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
1168	46	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75
1219	48	20	250	5.6	69.8	18	229	6.2	77.4	20	254	6.2	77.7	20	255	40	354	5.75

GEARMOTOR MOUNTING PACKAGE & GEARMOTOR SELECTION STEPS

- Step 1:** Use the **Belt Speed Chart** (page 48) to determine your desired belt speed based on conveyor type and mount package. See Gearmotor column.
- Step 2:** Locate the appropriate gearmotor chart (pages 49-50) in terms of **Painted** vs. **Stainless Steel** based on your gearmotor chart numbers



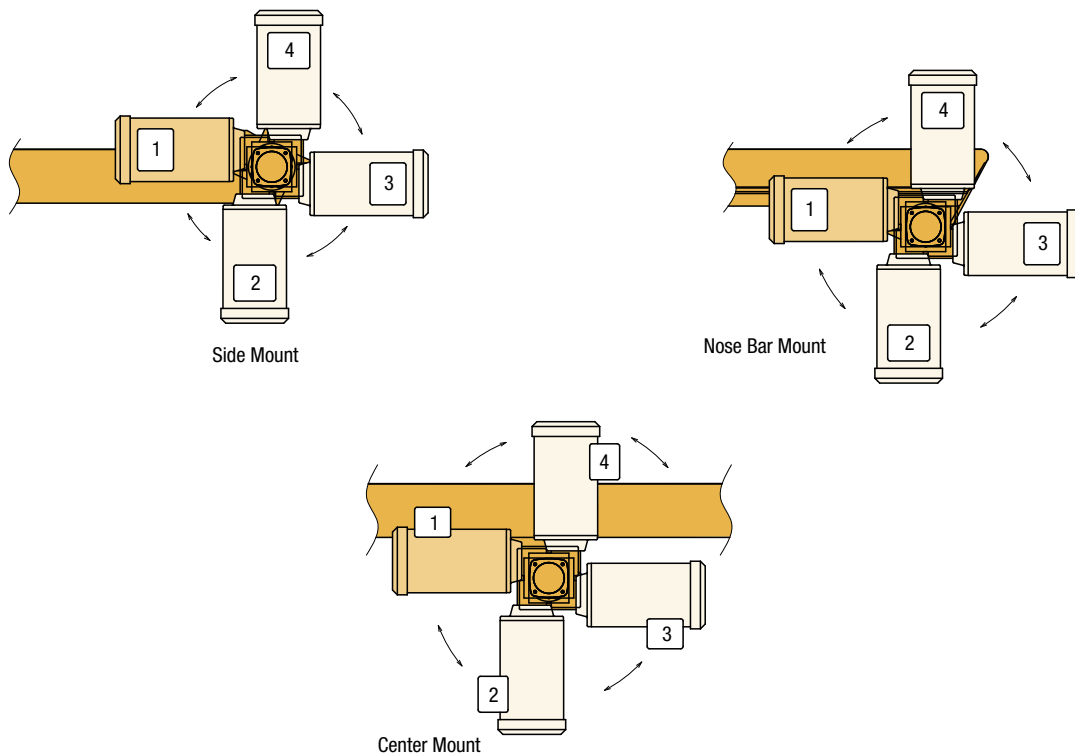
Side Mount Package, 90° Gearmotor



- Includes stainless steel gearmotor bracket, coupling and mounting hardware

W = Conveyor Belt Width

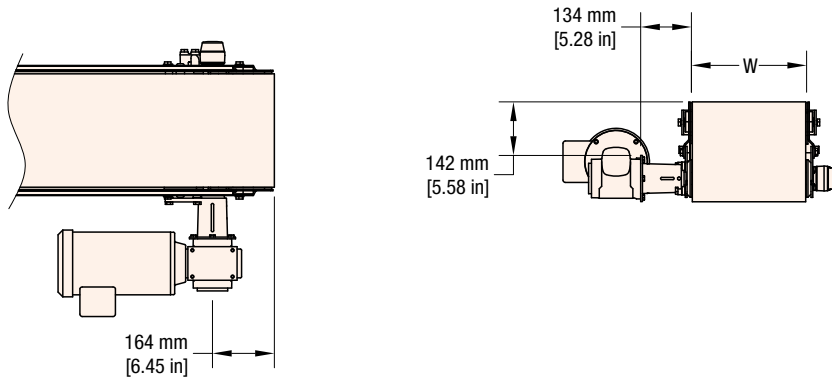
90° Gearmotor Location Options



Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

Note: Conveyor and gearmotor are not included in the mounting package and must be ordered separately. Dimensions = in (mm)

Nose Bar Mount Package, 90° Gearmotor



- Includes stainless steel gearmotor mounting bracket and mounting hardware

W = Conveyor Belt Width

Gearmotor Mount Packages

7 4 Z B S H S A
 — Drive Position: A, B, C or D
 — Gearmotor Size: S = Standard Load
 — Gearmotor Type: H = 90°
 — Motor Material: S = Stainless P = Painted
 — Motor Orientation: 1 = Back (Standard) 2 = Up 3 = Forward 4 = Down
 — Language: Z = Universal

Fixed Speed

Belt Speed						RPM From Gearmotor	Gearmotor Chart
Belted Conveyor		Modular Belt		Positive Drive Belt			
m/min	ft/min	m/min	ft/min	m/min	ft/min		
8	26	9	30	9	30	29	1,2
12	39	14	46	14	46	44	1,2
16	52	18	59	18	59	58	1,2
24	79	27	89	27	89	87	1,2
33	108	36	118	36	118	117	1,2
49	161	54	177	54	177	175	1,2
65	213	72	236	72	236	233	1,2

Variable Speed

Belt Speed						RPM at 60Hz Gearmotor	Gearmotor Chart
Belted Conveyor		Modular Belt		Positive Drive Belt			
m/min	ft/min	m/min	ft/min	m/min	ft/min		
1 to 8	3 to 26	1 to 9	3 to 30	1 to 9	3 to 30	29	3,4
1 to 12	4 to 39	1 to 14	5 to 46	1 to 14	5 to 46	44	3,4
2 to 16	5 to 52	2 to 18	6 to 59	2 to 18	6 to 59	58	3,4
2 to 24	8 to 79	3 to 27	9 to 89	3 to 27	9 to 89	87	3,4
3 to 33	11 to 108	4 to 36	12 to 118	4 to 36	12 to 118	117	3,4
5 to 49	16 to 161	5 to 54	18 to 177	5 to 54	18 to 177	175	3,4
7 to 65	21 to 213	7 to 72	24 to 236	7 to 72	24 to 236	233	3,4

Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

Fixed Speed

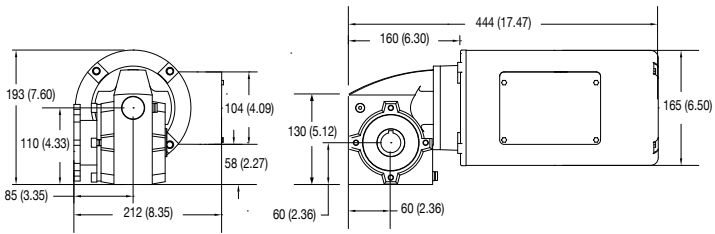

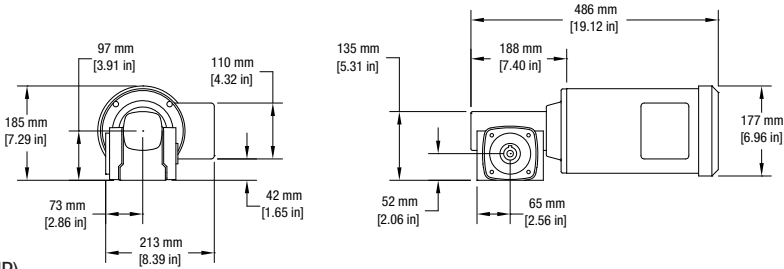

Chart 1		Painted Steel					
<ul style="list-style-type: none"> Nema 56C IP 55 Protection Rating Sealed Gearmotor with H1 FDA approved Lubricant FDA approved white epoxy painted motor Aluminum gearbox with sanitary coating Totally enclosed non-ventilated motor (0.5 HP) Totally enclosed fan cooled motor (1 and 1.5 HP) 3 Phase, 60 Hz 							Regulatory Approvals 
Part Number	RPM	Hp	kW	Volts	FLA	in.-lbs.	Nm
71M060HS423FN	29	0.5	0.37	230/460	1.6/0.8	442	50
71M040HS423FN	44	0.5	0.37	230/460	1.6/0.8	486	55
71M030HS423FN	58	1	0.74	208-230/460	3.5-3.2/1.6	487	55
71M020HS423FN	87	1	0.74	208-230/460	3.5-3.2/1.6	407	46
71M015HS423FN	117	1	0.74	208-230/460	3.5-3.2/1.6	470	53
71M010HS423FN	175	1.5	1.11	208-230/460	4.6-4.2/2.1	442	50
71M007HS423FN	233	1.5	1.11	208-230/460	4.6-4.2/2.1	362	41

Chart 2		Stainless Steel					
<ul style="list-style-type: none"> Nema 56C IP 55 Protection Rating Sealed Gearmotor with H1 FDA approved Lubricant Stainless Steel motor Stainless Steel gearbox Totally enclosed non-ventilated motor (0.5 HP) Totally enclosed fan cooled motor (1 and 1.5 HP) 3 Phase, 60 Hz 							Regulatory Approvals 
Part Number	RPM	Hp	kW	Volts	FLA	in.-lbs.	Nm
76M060HVS423FN	29	0.5	0.37	230/460	1.6/0.8	442	50
76M040HVS423FN	44	0.5	0.37	230/460	1.6/0.8	486	55
76M030HVS423FN	58	1	0.74	208-230/460	3.5-3.2/1.6	487	55
76M020HVS423FN	87	1	0.74	208-230/460	3.5-3.2/1.6	407	46
76M015HVS423FN	117	1	0.74	208-230/460	3.5-3.2/1.6	470	53
76M010HVS423FN	175	1.5	1.11	208-230/460	4.6-4.2/2.1	442	50
76M007HVS423FN	233	1.5	1.11	208-230/460	4.6-4.2/2.1	362	41

CE Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

FLA = Full Load Amperes Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

Variable Speed

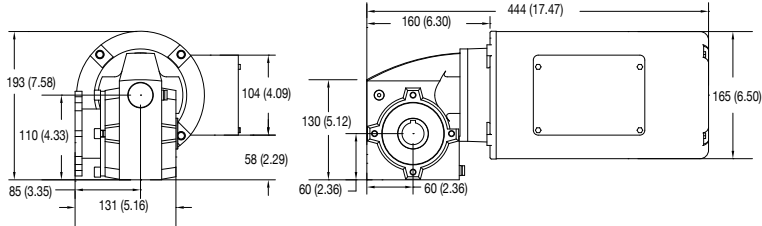

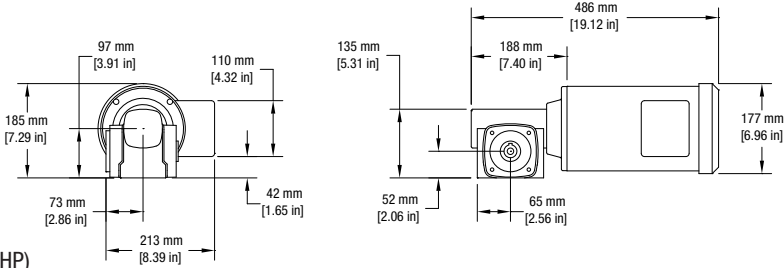

Chart 3		Painted Steel					
<ul style="list-style-type: none"> Nema 56C IP 55 Protection Rating Sealed Gearmotor with H1 FDA approved Lubricant FDA approved white epoxy painted motor Aluminum gearbox with sanitary coating Totally enclosed non-ventilated motor (0.5 HP) Totally enclosed fan colled motor (1 and 1.5 HP) 3 Phase, 6 to 60 Hz Order controller separately 							Regulatory Approvals 
Part Number	RPM	Hp	kW	Volts	FLA	in.-lbs.	Nm
71M060HS423EN	29	0.5	0.37	230/460	1.6/0.8	442	50
71M040HS423EN	44	0.5	0.37	230/460	1.6/0.8	486	55
71M030HS423EN	58	1	0.74	208-230/460	3.5-3.2/1.6	487	55
71M020HS423EN	87	1	0.74	208-230/460	3.5-3.2/1.6	407	46
71M015HS423EN	117	1	0.74	208-230/460	3.5-3.2/1.6	470	53
71M010HS423EN	175	1.5	1.11	208-230/460	4.6-4.2/2.1	442	50
71M007HS423EN	233	1.5	1.11	208-230/460	4.6-4.2/2.1	362	41

Chart 4		Stainless Steel					
<ul style="list-style-type: none"> Nema 56C IP 55 Protection Rating Sealed Gearmotor with H1 FDA approved Lubricant Stainless Steel motor Stainless Steel gearbox Totally enclosed non-ventilated motor (0.5 HP) Totally enclosed fan colled motor (1 and 1.5 HP) 3 Phase, 6 to 60 Hz Order controller separately 							Regulatory Approvals 
Part Number	RPM	Hp	kW	Volts	FLA	in.-lbs.	Nm
76M060HHS423EN	29	0.5	0.37	230/460	1.6/0.8	442	50
76M040HHS423EN	44	0.5	0.37	230/460	1.6/0.8	486	55
76M030HHS423EN	58	1	0.74	208-230/460	3.5-3.2/1.6	487	55
76M020HHS423EN	87	1	0.74	208-230/460	3.5-3.2/1.6	407	46
76M015HHS423EN	117	1	0.74	208-230/460	3.5-3.2/1.6	470	53
76M010HHS423EN	175	1.5	1.11	208-230/460	4.6-4.2/2.1	442	50
76M007HHS423EN	233	1.5	1.11	208-230/460	4.6-4.2/2.1	362	41

CE Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

FLA = Full Load Amperes Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

Variable Speed Controllers

Chart A		Variable Speed Controllers					
<ul style="list-style-type: none"> Variable Frequency Drive IP 65 Plastic Enclosure Stainless Steel mounting hardware Digital Display Keypad with Start/Stop and Speed variation Includes cord to motor Power to controller by others UL Approved 							
Part Number	Input			Output		Max Hp	Max Amps
	Volts	Phase	Hz	Volts	Phase		
76MVA1122S	115	1	60	230	3	0.5	2.3
76MVA2122S	230	1	60	230	3	0.5	2.3
76MVA2322S	230	3	60	230	3	0.5	2.3
76MVA4342S	460	3	60	460	3	0.5	1.2
76MVA1121S	115	1	60	230	3	1.0	4.3
76MVA2121S	230	1	60	230	3	1.0	4.3
76MVA2321S	230	3	60	230	3	1.0	4.3
76MVA4341S	460	3	60	460	3	1.0	2.2
76MVA2127S	230	1	60	230	3	2.0	7
76MVA2327S	230	3	60	230	3	2.0	7
76MVA4347S	460	3	60	460	3	2.0	4.1

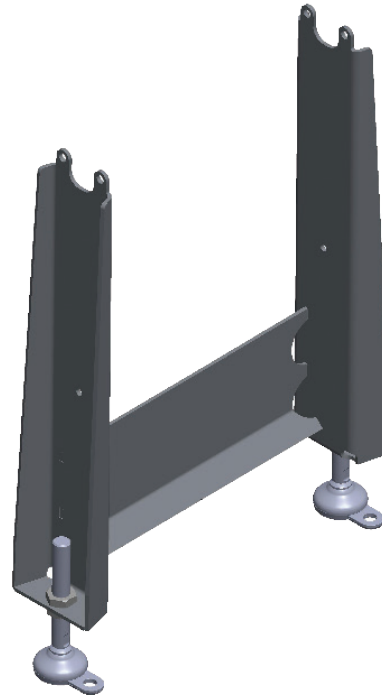
MANUAL MOTOR STARTER

Chart B		Manual Motor Starter		
<ul style="list-style-type: none"> Nema 4X Plastic Enclosure Stainless Steel mounting hardware IP 66 Start / Stop Switch Lock-out tag-out capable Includes wiring to Motor Power to Starter by others No plug/cord set included 				
Part Number	Input			FLA
	Volts	Phase	Hz	
74MM11F	115	1	60	6.3 - 10
74MM21D	208-230	1	60	2.5 - 3.9
74MM23A	208-230	3	60	0.63 - 0.99
74MM23B	208-230	3	60	1.0 - 1.59
74MM23C	208-230	3	60	1.6 - 2.4
74MM23D	208-230	3	60	2.5 - 3.9
74MM23E	208-230	3	60	4.0 - 6.3
74MM43A	460	3	60	1.6 - 2.4
74MM43B	460	3	60	2.5 - 3.9
74MM43C	460	3	60	0.63 - 0.99
74MM43D	460	3	60	1.0 - 1.59

FLA = Full Load Amperes

Fixed Height Stands

- Welded open frame Stainless Steel construction with a Brushed #4 finish
- Fixed angle connection matching conveyor layout from 0° to 60 degrees
- For 152 mm (6 in) to 1219 mm (48 in) widths
- ± 51 mm (2 in) of adjustment
- Optional swivel locking caster
- Optional diagonal brace for added stability
- Optional 3A approved threadless foot and casters
- For available heights see page 54



OPTIONAL:
3A approved Thread-less Foot



OPTIONAL:
Swivel Caster



OPTIONAL: Diagonal Brace

Outriggers

- Fixed height support stands are available with outriggers
- Outriggers provide added support for tall applications
- Welded Stainless Steel construction with Brushed #4 finish
- Extend stand width 316 mm (12.43 in)



Dimensions = mm (in)

Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

Tall Supports Stands

- Welded open frame Stainless Steel construction brushed to #4 finish
- ± 50 mm (2 in) of adjustment
- Fixed angle connection matching conveyor layout from 0° to 60° degrees
- Includes diagonal brace for stability
- Tall Support Stands require the use of floor anchors
- For available heights see page 54



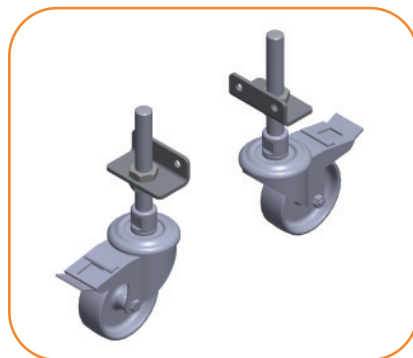
**OPTIONAL:
3A Approved Thread-less Foot**



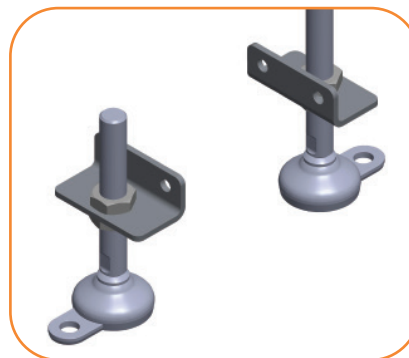
Tall Stand

Low Height Supports Stands

- All components are Stainless Steel brushed to #4 finish
- ± 51 mm (2 in) of adjustment
- Fixed Foot self-aligns 10° for sloped floors
- Caster is swivel locking
- Horizontal conveyor mounts only
- Optional 3A approved threadless foot and casters
- For available heights see page 54



**Swivel Locking
Caster Model**



Fixed Foot Model

Dimensions = mm (in)

Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

Support Stand Heights

Type	Fixed Foot								Hygienic Thread-less Foot Foot								Caster Foot							
	Shortest Stand				Tallest Stand				Shortest Stand				Tallest Stand				Shortest Stand				Tallest Stand			
	Minimum Top Of Belt		Maximum Top Of Belt		Minimum Top Of Belt		Maximum Top Of Belt		Minimum Top Of Belt		Maximum Top Of Belt		Minimum Top Of Belt		Maximum Top Of Belt		Minimum Top Of Belt		Maximum Top Of Belt		Minimum Top Of Belt		Maximum Top Of Belt	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Fixed Height	275	10.8	375	14.8	1900	74.8	2000	78.7	275	10.8	325	12.8	1900	74.8	1950	76.8	400	15.7	500	19.7	2000	78.7	2100	82.7
Tall Support	1850	72.8	1950	76.8	2400	94.5	2500	98.4	1850	72.8	1900	74.8	2400	94.5	2450	96.5	N/A		N/A		N/A		N/A	
Short Height	200	7.9	300	11.8	N/A		N/A		N/A		N/A		N/A		N/A		325	12.8	425	16.7	N/A		N/A	

Height increments of 25 mm (1 in)

Top of belt heights for Modular Belt Curve are 25 mm shorter

Fixed Height Support Stands Widths*

Conveyor Width		152	203	254	305	356	406	457	508	559	610	660	711	762	813	864	914	965	1016	1067	1118	1168	1219
Conveyor Belt Width (W)	mm	152	203	254	305	356	406	457	508	559	610	660	711	762	813	864	914	965	1016	1067	1118	1168	1219
	in	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Stand width	mm	321	372	423	474	525	575	626	677	728	779	829	880	931	982	1033	1083	1134	1185	1236	1287	1337	1388
	in	12.6	14.6	16.7	18.7	20.7	22.6	24.6	26.7	28.7	30.7	32.6	34.6	36.7	38.7	40.7	42.6	44.6	46.7	48.7	50.7	52.6	54.6

*Dimensions shown are nominal. Contact factory for specific layout and dimensions.

*Contact factory for Tall and Low Height Support Stand configurations.

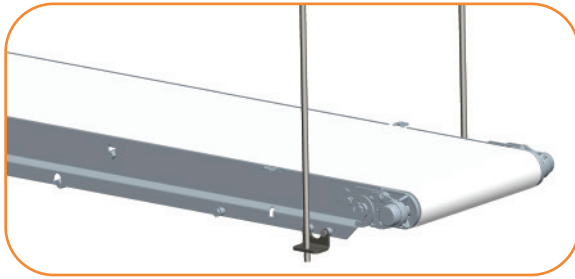
AquaPruf Support Stands

7 4	H	Z	WWWW	-	H	H	H	H	H	B	S	T	T	F	A	A
																Angle: Blank if Horizontal AA = angle (degrees 01 to 60) Foot: F = Fixed Foot T = Hygienic Thread-less Leveling Feet H = Hygienic Thread-less Leveling Feet with Brace B = Fixed Foot with Brace (brace not on low height stands) C = Caster with Brace (brace not on low height stands) Stand Type: HM = Horizontal Mount HR = Horizontal Mount with Outtrigger AM = Angle Mount AR = Angle Mount with Outiggers TH = Tall Horizontal Mount TA = Tall Angle Mount VM = Variable Angle Mount (0-60 degrees) VR = Variable Angle Mount with Outtrigger (0-60 degrees) LH = Low Height Mount (horizontal only) Configuration: S = Straight C = Curve Belt/Chain: B = Belt C = Chain (Modular Belt) Maximum Top of Belt Height = 0100 mm (4 in) more than minimum Minimum Top of Belt Height = 0200 to 2400 in 25 mm increments (8 – 94 in) Width (mm): per conveyor Language: Z = Universal Type: H = H Type Support Stand

Dimensions = mm (in)

Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

Horizontal Ceiling Supports

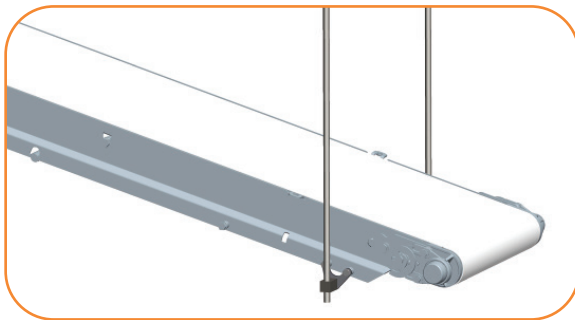


Specifications

- All components are Stainless Steel brushed to #4 finish
- Includes a pair of mounting brackets and hardware for support on both sides of conveyor
- Compatible with 12 mm (0.5 in) threaded support rod (not provided)

Part Number	3UHCS
-------------	-------

Adjustable Angle Ceiling Supports

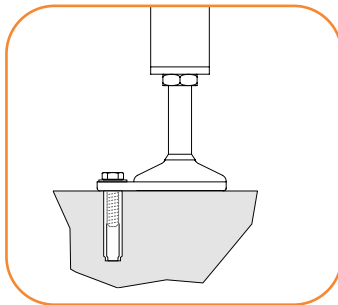


Specifications

- All components are Stainless Steel brushed to #4 finish
- Includes a pair of mounting brackets and hardware for support on both sides of conveyor
- Compatible with 12 mm (0.5 in) threaded support rod (not provided)
- Mounting block pivots to support incline mounts from 0° to 60°

Part Number	3UACS
-------------	-------

Sanitary Floor Anchor Kits - Type 1

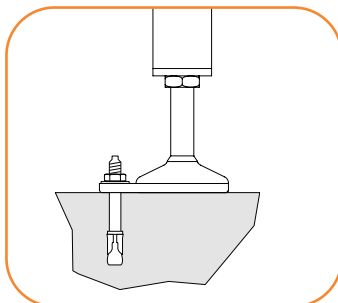


Specifications

- 10 mm (.375 in) x 40 mm (1.57 in) drop in
- Stainless Steel
- Anchor is flush with floor upon removal of bolt
- Two (2) per anchor kit

Part Number	FAS-1
-------------	-------

Sanitary Floor Anchor Kits - Type 2



Specifications

- 10 mm (.375 in) x 70 mm (2.75 in)
- Stainless Steel
- Threaded anchor bolt protrudes above floor after installation
- Two (2) per anchor kit

Part Number	FAS-2
-------------	-------

Dimensions = mm (in)

Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

Drip Pans



Specifications

- Widths: 152 mm (6 in) to 1524 mm (60 in) available in 50 mm (2 in) increments
- Lengths: 610 mm (24 in) to 25375 mm (999 in) available in 25 mm (1 in) increments maximum section lengths of 2997 mm (118 in)
- Tool-less hook design for fast removal and rapid cleaning
- Provides a 50 mm (2 in) window for clean-out access without removal
- All pans equipped with a 25 mm (1 in) containment lip on all sides
- Contact factory for additional options and ordering

Dimensions = mm (in)

Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

Regulatory Approvals:







Conveyors:

All Dorner AquaPruf standard conveyors (not including gearmotors and controllers) are CE approved. CE approval follows the provisions of the following directives; Machine Directive 2006/42/EC, EU Low Voltage Directive 2006/95/EC, and EMC Directive 2004/108/EC. All conveyors are marked with the CE symbol on the Dorner serial number tag located on the conveyor frame. Contact the factory for the CE Declaration of Conformity.

All Dorner AquaPruf standard conveyors (not including gearmotors and controllers) are designed and manufactured in accordance with the restrictions defined in the “Restriction of Hazardous Substances” directive, citation 2002/95/EC, commonly known as RoHS. All conveyors are marked with the RoHS symbols on the Dorner serial number tag located on the conveyor frame.

Gearmotors and Controllers:

All Dorner AquaPruf gearmotors and controllers carry one or more of the following approvals. Products are not covered by each approval. Please see the appropriate part number on the Gearmotor and controller charts located in this manual. In addition, regulatory symbols are located on the product information tags located on the product.

	<p>CE Marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, in practice by the Product Directives. CE Marking on a product ensures the free movement of the product within the European Union (EU).</p>
	<p>This directive restricts (with exceptions) the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic e-waste.</p>
	<p>The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States only. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.</p>
	<p>The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States and Canada. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.</p>
	<p>CSA International (Canadian Standards Association), is a provider of product testing and certification services for electrical, mechanical, plumbing, gas and a variety of other products. Recognized in the U.S., Canada and around the world, CSA certification marks indicate that a product, process or service has been tested to a Canadian or U.S. standard and it meets the requirements of an applicable CSA standard or another recognized document used as a basis for certification.</p>
	<p>The UL Listing Mark means UL found that representative product samples met UL's safety requirements. These requirements are primarily based on UL's own published standards for safety. The C-UL-US Mark indicates compliance with both Canadian and U.S. requirements. The products with this type of Mark have been evaluated to Canadian safety requirements and U.S. safety requirements.</p>

3A Sanitary Standard Certification:

AquaPruf Belted and Modular Conveyors are often used in food production or food packaging areas where proper design of equipment is essential to maintain proper food safety. AquaPruf conveyors are designed for wash down environments typically seen in ready-to-eat, meat, poultry, or dairy production. In these applications the correct installation and application of the conveyor is critical to the proper running of the conveyor and maintaining proper food safety. The end user must ensure that the conveyor belts are properly tracked and the conveyor is properly installed as defined by Dorner.

All AquaPruf products are designed and constructed to be used in food production environments. The following AquaPruf products have gone through testing and certification to 3A Sanitary standard for mechanical conveyors, 41-03. Certification is pending.

AquaPruf End Drive Belted Conveyors with belts; 55, 68 and 70

AquaPruf Positive Drive Belt Conveyors

AquaPruf Modular Belt Conveyors with belts, MA, MB, BA, BB, NA, NB, NC and ND

For 3-A compliance, a conveyor cover or shield must be installed over the conveyor that is easily cleaned, self-draining, and located to prevent liquid or other contaminants from draining or dropping into the container or product, or onto the conveyor belt. Multiple covers can be used if necessary, with overlapping edges. Cover(s) should be fabricated from stainless steel or FDA certified plastic material, and the bottom of the cover(s) must be smooth, with no crevices or exposed threads.

Contact the factory for copy of the certification.

Materials and Chemical Resistance:

Conveyor Frames, Plastics and Modular Belting

The following is a list of base materials used in the 7350 Series conveyor:

Material	Conveyor Component
Acetal Copolymer, POM	Modular Belts, molded bearing housings
Polypropylene, PP	Modular Belts
Polyamide, PA	Adjustable Guide Support Brackets
UHMW-PE	Modular Belt Slide Rail, Adjustable Guide Face
Thermoplastic Elastomer, TPE	Modular Belt Friction Insert
Aluminum, anodized (Note: cut ends of aluminum is not anodized)	Conveyor Frame, Support Legs, High Side Guiding, Adjustable Guide Horizontal Post, Adjustable Guide Rail

The materials used in the AquaPruf product can resist many chemicals, however some should be avoided. Avoid the following:

- Acids with PH less than 4
- Bases with PH higher than 9

Resistance to Materials: Conveyor Frames, Plastics and Modular Belting

The following table provides the resistance to materials used in the conveyor to several chemicals. Application testing is recommended to determine long term material durability.

Legend:

1 = Very good resistance | 2 = Good resistance | 3 = Moderate resistance |
4 = Not recommended | X = no data available

Acids	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Acetic acid	3	1	4	1	2
Benzoic acid	3	1	4	1	4
Boric acid	3	1	2	1	2
Citric acid	3	1	2	1	2
Chromic acid	4	1	4	1	3
Hydrofluoric acid	4	1	4	1	4
Hydrochloric acid	4	1	4	1	3
Hydro cyanic acid	4	X	4	1	1
Nitric acid	4	1	4	1	3
Oleic acid	3	1	2	1	1
Oxalic acid	4	1	2	1	1
Phosphoric acid	4	1	4	1	3
Sulphuric acid	4	2	4	1	3
Tartaric acid	3	1	2	1	1
Basic Compounds	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Ammonia	1	1	2	1	2
Calcium hydroxide	1	X	2	1	4
Caustic soda	1	X	2	1	3
Potassium hydroxide	1	1	2	1	4

Resistance to Materials: Conveyor Frames, Plastics and Modular Belting *(continued)*

Legend:

1 = Very good resistance | 2 = Good resistance | 3 = Moderate resistance |
4 = Not recommended | X = no data available

Salts	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Potassium bicarbonate	2	X	2	1	1
Potassium permanganate	2	2	4	1	1
Sodium cyanic	2	X	2	1	4
Sodium hydrochloride	3	X	4	1	4
Acid salt	2	X	3	1	X
Basic salt	1	X	2	1	X
Neutral salt	1	X	2	1	X
Organic Compounds	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Acetone	1	1	1	1	1
Aniline	2	1	3	1	1
Benzene	1	3	2	4	1
Benzine	2	X	2	3	1
Butyl alcohol	2	X	2	1	1
Carbon disulphide	1	3	2	3	1
Carbon tetrachloride	1	3	1	3	2
Chloroform	1	4	3	4	X
Ethyl acetate	1	1	2	1	1
Ethyl alcohol	1	X	2	1	1
Heptane	2	1	1	2	X
Methyl alcohol	1	X	2	1	2
Methyl ethyl ketone	1	2	1	2	2
Nitrobenzene	2	2	2	1	1
Phenol	3	1	4	1	1
Gases	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Carbon dioxide	3	1	1	1	1
Carbon monoxide	2	X	1	1	1
Chlorine	2	4	4	3	1
Hydrogen Sulfide	3	1	1	1	1
Sulphur dioxide	2	1	3	1	1
Other	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Carbon tetrachloride	1	3	1	3	2
Beer	1	1	2	1	1
Fruit juice	1	2	2	1	2
Gasoline	1	1	2	1	1
Milk	1	1	1	1	1
Oil	1	3	1	1	1
Vinegar	1	1	2	1	1

Belting:

The following is a list of the top coat materials used in 7350 Series conveyor belting:

Material	Belt Number
Urethane	01, 02, 03, 05, 06, 09, 54, 55, 56, 53, 60, 61, 63, 68, 69, 72, 73, 75, 76, 77
PVC (non FDA approved)	08, 18, 59, 64
Silicone	50, 80, 81
Polyester	66
Nitrile	57
Urethane (hard)	58

Resistance to Materials: Belting

The following table provides the resistance to belt materials used in the conveyor to several chemicals. Application testing is recommended to determine long term material durability.

Legend:

1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Chemicals					
Acetic acid (glacial acetic acid)	4	3	1	1	4
Acetic acid 10 %	3	1	1	3	1
Acetic anhydride	3	4	1	1	4
Acetone	4	4	1	3	4
Aluminium salts	1	1	1	1	1
Alum	1	1	1	1	1
Ammonia, aqueous	3	1	1	3	1
Ammonia, gaseous	1	1	3	1	1
Ammonium acetate	1	1	1	1	1
Ammonium carbonate	1	1	1	1	1
Ammonium chloride	1	1	1	1	1
Ammonium nitrate	1	1	1	1	1
Ammonium phosphate	1	1	1	1	1
Ammonium sulphate	1	1	1	1	1
Amyl alcohol	1	4	3	1	1
Aniline	3	3	3	4	4
Barium salts	1	1	1	1	1
Benzaldehyde	4	4	4	4	4
Benzene (see also Motor fuels)	1	3	3	1	1
Benzoic acid	1	1	1	1	1
Benzol	3	4	4	3	3
Boric acid	1	1	1	1	1
Boric acid, solution	1	1	1	1	1
Bromine	4	4	4	4	4
Bromine water	4	3	1	4	3
Butane, gaseous	1	1	1	1	1
Butane, liquid	1	1	1	1	1
Butyl acetate	4	4	4	3	4
n-Butyl alcohol	1	3	1	1	1
Calcium chloride	1	1	1	1	1

Resistance to Materials: Belting (continued)

Legend:

1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Calcium nitrate	1	1	1	1	1
Calcium sulphate	1	1	1	1	1
Carbon disulphide	4	4	3	4	4
Carbon tetrachloride	3	4	4	4	3
Chlorine, liquid	4	4	4	4	4
Chlorine, gaseous, dry	4	4	4	4	4
Chlorine, gaseous, wet	4	4	4	4	4
Chlorine water	4	1	3	4	3
Chlorobenzene	4	4	4	4	4
Chloroform	4	4	4	4	4
Chlorosulphonic acid	4	4	4	4	4
Chromic acid	4	4	4	4	4
Chromium salts	1	1	1	1	1
Chromium trioxide	1	1	1	1	1
Citric acid	4	1	1	1	4
Copper salts	1	1	1	1	3
Cresols	3	3	3	4	3
Cresols, aqueous	3	3	3	3	3
Cyclohexane	4	4	4	1	4
Cyclohexanol	4	4	4	4	4
Cyclohexanone	4	4	4	4	4
Decahydronaphthalene	4	4	4	4	4
Dibutyl phthalate	3	4	1	4	4
Diethyl ether	4	4	4	4	4
Dimethyl formamide	4	4	3	4	4
1,4 Dioxan	4	4	3	4	4
Ether	4	4	4	4	4
Ethyl acetate	4	4	4	3	4
Ethyl alcohol, non-denatured 100%	1	3	3	1	1
Ethyl alcohol, non-denatured 96%	1	3	3	1	1
Ethyl alcohol, non-denatured 50%	1	3	3	1	1
Ethyl alcohol, non-denatured 10%	1	3	1	1	1
Ethyl benzene	4	4	4	4	4
Ethyl chloride	4	4	4	4	4
Ethylene chloride	4	4	4	4	4
2-Ethyl hexanol	1	3	1	1	1
Formaldehyde	1	3	1	3	1
Formic acid, dilute	4	1	1	3	3
Glycerine	1	1	1	1	1
Glycerine, aqueous	1	1	1	1	1
Glycol	1	3	1	1	1
Glycol, aqueous	1	1	1	1	1
Heptane	1	3	3	1	1
Hexane	1	3	3	1	1
Hydrochloric acid, conc.	3	1	4	3	1

Resistance to Materials: Belting (continued)

Legend: 1 = Good resistance 3 = Limited resistance 4 = Not recommended					
Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Hydrochloric acid 10 %	3	1	1	1	1
Hydrofluoric acid 40 %	4	4	4	4	4
Hydrogen chloride, gaseous, dilute	3	1	3	3	1
Hydrogen chloride, gaseous, conc.	3	3	3	4	3
Hydrogen peroxide 10%	3	1	1	3	1
Hydrogen sulphide	3	3	3	3	3
Iron salts (sulphate)	1	1	1	1	1
Isooctane	1	3	3	1	1
Isopropyl alcohol	1	3	1	1	1
Lactic acid	1	3	1	1	1
Magnesium salts	1	1	1	1	1
Mercury	1	1	1	1	1
Mercury salts	1	1	1	1	1
Methyl alcohol, aqueous 50 %	3	3	1	1	1
Methyl alcohol (methanol)	1	3	1	1	1
Methyl ethyl ketone	4	4	1	3	4
Methylene chloride	4	4	4	4	4
Naphthalene	3	4	4	3	4
Nickel salts	1	1	1	1	1
Nitric acid	4	3	4	4	4
Nitrobenzene	4	4	1	3	4
Octane (see also isooctane)	1	3	4	1	1
Oleic acid	1	3	4	1	1
Oxalic acid	1	1	1	1	1
Ozone	1	3	3	1	3
Perchloroethylene	4	4	4	4	4
Phenol	3	3	1	4	3
Phenol, aqueous	4	3	1	4	3
Phosphoric acid 85 %	4	1	1	3	1
Phosphoric acid 50 %	1	1	1	1	1
Phosphoric acid 10 %	1	1	1	1	1
Phosphorus pentoxide	1	1	1	1	1
Potash lye 50 %	4	1	4	3	4
Potash lye 25 %	4	1	4	1	4
Potash lye 10 %	4	1	3	1	4
Potassium carbonate (potash)	1	1	1	1	1
Potassium chlorate	1	1	1	1	1
Potassium chloride	1	1	1	1	1
Potassium dichromate	1	1	1	1	1
Potassium iodide	1	1	1	1	1
Potassium nitrate	1	1	1	1	1
Potassium permanganate	1	1	1	1	1
Potassium persulphate	1	1	1	1	1
Potassium sulphate	1	1	1	1	1
Propane, gaseous	1	1	1	1	1
Propane, liquid	1	1	1	1	1

Resistance to Materials: Belting (continued)

Legend:

1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Pyridine	4	4	3	4	4
Silver salts	1	1	1	1	1
Soda lye 50% (see potash lye)	4	1	4	4	4
Soda lye 25%	4	1	4	3	4
Soda lye 10%	4	1	3	1	4
Sodium bisulphite	1	1	1	1	1
Sodium carbonate (natron)	1	1	1	1	1
Sodium carbonate (soda)	1	1	1	1	1
Sodium chlorate	1	1	1	1	1
Sodium chloride (common salt)	1	1	1	1	1
Sodium hydroxide (caustic soda)	4	1	4	1	4
Sodium hypochlorite	1	1	1	3	1
Sodium nitrate	1	1	1	1	1
Sodium nitrite	1	1	1	1	1
Sodium perborate	1	1	1	1	1
Sodium phosphate	1	1	1	1	1
Sodium sulphate (Glauber salt)	1	1	1	1	1
Sodium sulphide	1	1	1	1	1
Sodium sulphite	1	1	1	1	1
Sodium thiosulphate (fixing salt)	1	1	1	1	1
Stearic acid	1	1	1	1	1
Succinic acid	1	1	1	1	1
Sulphur	1	1	1	1	1
Sulphur dioxide	3	3	3	3	4
Sulphuric acid 96%	4	4	4	4	4
Sulphuric acid 50%	4	3	4	3	4
Sulphuric acid 25%	4	3	3	1	3
Sulphuric acid 10%	4	3	1	1	3
Tartaric acids	1	1	1	1	1
Tetrachloroethane	4	4	4	4	4
Tetrachloroethylene (perchloroethylene)	4	4	4	4	4
Tetrahydrofuran	4	4	4	4	4
Tetrahydronaphthalene	4	4	4	4	4
Thiophene	4	4	4	4	4
Tin II chlorides	1	1	1	1	1
Toluene	4	4	4	4	4
Trichloroethylene	4	4	4	4	4
Urea, aqueous	1	1	1	1	1
Water	1	1	1	1	1
Xylene	4	4	4	3	4
Zinc salts	1	1	1	1	1

Resistance to Materials: Belting (continued)

Legend: 1 = Good resistance 3 = Limited resistance 4 = Not recommended					
Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Products					
Alum	1	1	1	1	1
Anti-freeze*	1	3	1	1	1
Aqua regia	4	4	4	4	4
Asphalt	1	3	3	1	1
Battery acid	4	4	4	4	4
Benzine	1	3	3	1	1
Bleaching lye (12.5%)	1	1	1	1	3
Bone oil	1	3	4	1	1
Borax	1	1	1	1	1
Brake fluid* Bosch	1	3	1	1	3
Brake fluid* Skydrol	4	4	3	4	4
Chloride of lime (aqueous suspension)	1	1	1	1	3
Chlorine (active)	4	4	4	4	4
Chrome baths* (technical)	1	3	3	1	1
Chromosulphuric acid	4	4	4	4	4
Cresol solution	3	3	4	4	4
Diesel oil	1	1	3	1	1
Fertilizer salts	1	1	1	1	1
Fixing salt	1	1	1	1	1
Floor wax	1	3	3	1	1
Formalin	1	3	3	1	1
Fuel oils*	1	1	3	1	1
Furniture polish*	1	3	3	1	1
Gypsum	1	1	1	1	1
Ink*	1	1	1	1	1
Linseed oil	1	3	1	1	1
Litex (styrene)	4	4	4	4	4
Mineral oils (non-aromatic)	1	1	1	1	1
Moth balls	3	4	3	3	3
Diesel oil*	1	1	3	1	1
Petrol (gasoline) DIN51635	1	3	3	1	1
Petrol, regular	1	3	3	1	1
Petrol, super	3	4	3	1	3
Motor oils*	1	1	1	1	1
Oil no. 3 (ASTM)	1	3	1	1	1
Oleum	4	4	4	4	4
Paraffin	1	1	1	1	1
Paraffin oil	1	1	1	1	1
Petroleum	1	3	3	1	1
Petroleum ether	1	3	4	1	1
Photographic developer	1	1	1	1	1

Bearings and Lubrication:

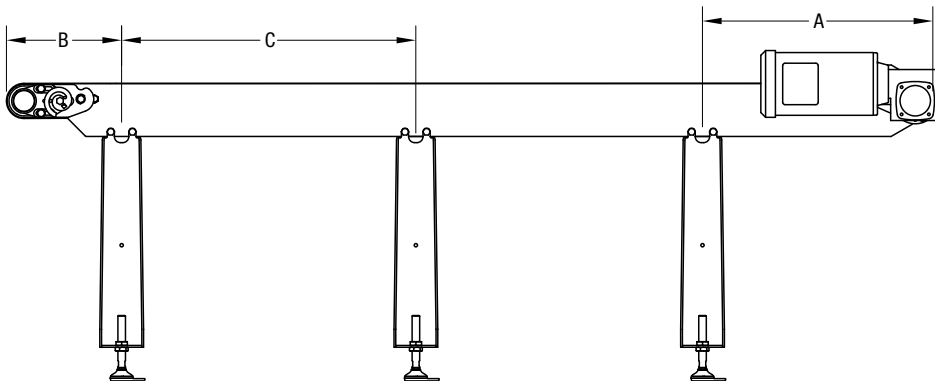
All bearings on the AquaPruf conveyors are sealed. The following outlines the sealed for life versus sealed with grease zerk locations. Any bearings with grease zerk installed should be greased with H1 FDA approved food grade lubricant. See Maintenance Manual for instructions.

- Bearing with grease zerk; Standard drive and idler bearings, center drive idler and drive bearings and 48mm diameter nosebar idler bearings
- Sealed for life bearing; 32 mm diameter nosebar idler bearings, iDrive2 motorized roller bearings

All gearmotors used on AquaPruf conveyor are sealed and may be mounted in any position. Changing gear oil lubrication may be needed over the life of the gearbox. Please check the appropriate gearmotor manual for instructions.

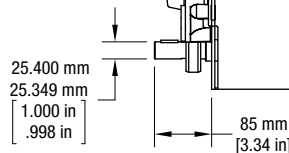
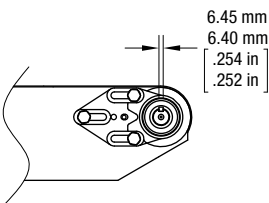
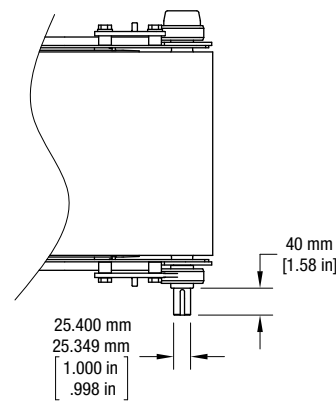
Support Stand Locations:

Support Stand Locations				
Symbol	Description	Distance		
		mm	in	
A	Maximum distance back at drive end	610	24	
B	Maximum distance back at idler end	762	30	
C	Maximum distance between supports	2997	118	

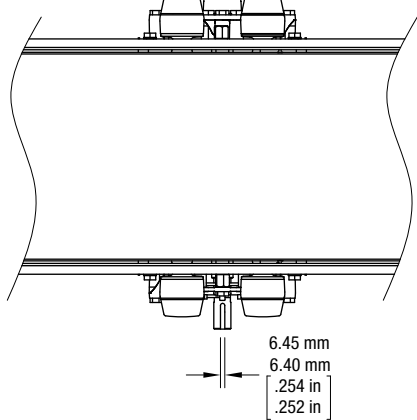


Conveyor Drive Shaft Tolerances:

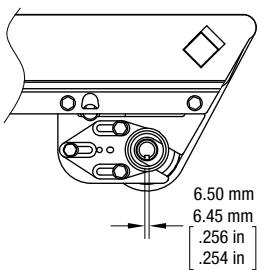
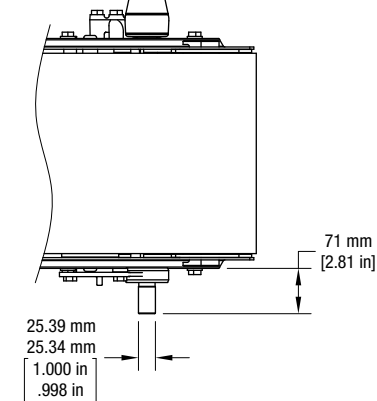
End Drive, Belted and Modular Belt:



Center Drive:



Nose Bar Drive:



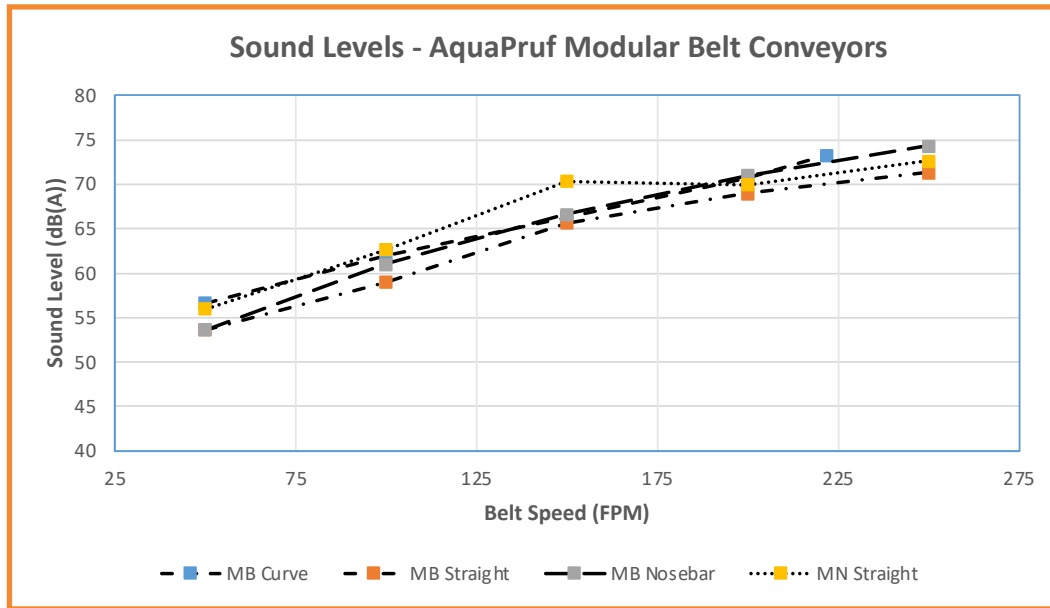
Note: Dimensions = mm (in)

Conveyor Noise Level (Decibel Ratings)

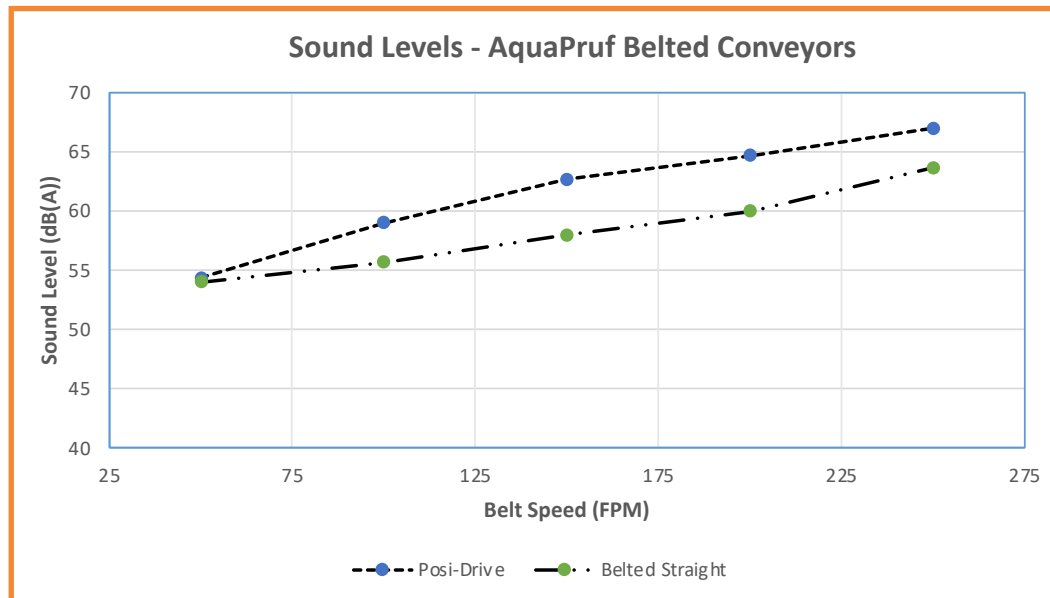
The actual noise level generated by the conveyor depends on several factors; the installation configuration, the product running on the conveyor, the surrounding equipment, the conveyor options and belt speed. The noise level generated by the conveyor is typically less than the general noise level of factory equipment.

Generally a higher belt speed will result in a higher noise level. In addition modular belt conveyors will run slightly louder than belted conveyors. The following charts provide basic decibel ratings for a typical conveyor arrangements.

Belted Conveyors:



Modular Belt Conveyors:



Maximum Load Capacity

The following Load Capacity Charts **do not** take into account the conveyor configuration, length or gearmotor selection. Your specific conveyor may not be capable of the maximum load condition. Please confirm your maximum load per application with the Dorner DTools program at www.dornerconveyors.com.

All load capacities shown are non-accumulated evenly distributed loads.

AquaPruf Series Belted End Drive Conveyor

Belt Width		Pulling the Belt		Pushing the Belt	
mm	in	Kg	Lb	Kg	Lb
152	6	114	250	57	125
203	8	136	300	68	150
254	10	159	350	80	175
305	12	182	400	91	200
356	14	205	450	103	225
406	16	227	500	114	250
457	18	227	500	114	250
508	20	227	500	114	250
559	22	227	500	114	250
610	24	227	500	114	250
660	26	227	500	114	250
711	28	227	500	114	250
762	30	227	500	114	250
813	32	227	500	114	250
864	34	227	500	114	250
914	36	227	500	114	250
965	38	227	500	114	250
1016	40	227	500	114	250
1067	42	227	500	114	250
1118	44	227	500	114	250
1168	46	227	500	114	250
1219	48	227	500	114	250

AquaPruf Series Belted Center Drive Conveyor

Belt Width		Pulling the Belt	
mm	in	Kg	Lb
152	6	114	250
203	8	136	300
254	10	159	350
305	12	182	400
356	14	205	450
406	16	227	500
457	18	227	500
508	20	227	500
559	22	227	500
610	24	227	500
660	26	227	500
711	28	227	500
762	30	227	500
813	32	227	500
864	34	227	500
914	36	227	500
965	38	227	500
1016	40	227	500
1067	42	227	500
1118	44	227	500
1168	46	227	500
1219	48	227	500

AquaPruf Series Belted Z-Frame Conveyor

Belt Width		Pulling the Belt		Pushing the Belt	
mm	in	Kg	Lb	Kg	Lb
203	8	45	100	23	50
254	10	45	100	23	50
305	12	45	100	23	50
356	14	45	100	23	50
406	16	45	100	23	50
457	18	45	100	23	50
508	20	45	100	23	50
559	22	45	100	23	50
610	24	45	100	23	50

Maximum Load Capacity (continued)

AquaPruf Series Modular Belt Conveyor

Belt Width		Pulling the Belt	
mm	in	Kg	Lb
150	5.9	182	400
200	7.9	205	450
250	9.8	250	550
300	11.8	273	600
350	13.8	295	650
400	15.7	318	700
450	17.7	318	700
500	19.7	341	750
550	21.7	341	750
600	23.6	341	750
650	25.6	341	750
700	27.6	341	750
750	29.5	341	750
800	31.5	341	750
850	33.5	341	750
900	35.4	341	750
950	37.4	341	750
1000	39.4	341	750
1050	41.3	341	750
1100	43.3	341	750
1150	45.3	341	750
1200	47.2	341	750

AquaPruf Series Modular Belt Z-Frame Conveyor

Belt Width		Pulling the Belt	
mm	in	Kg	Lb
200	7.9	45	100
250	9.8	45	100
300	11.8	45	100
350	13.8	45	100
400	15.7	45	100
450	17.7	45	100
500	19.7	45	100
550	21.7	45	100
600	23.6	45	100

AquaPruf Series Modular Belt Curve Conveyor

Belt Width		Pulling the Belt	
mm	in	Kg	Lb
152	6	182	400
229	9	182	400
305	12	227	500
381	15	227	500
457	18	227	500
533	21	227	500
610	24	227	500
686	27	227	500
762	30	227	500
838	33	227	500
914	36	227	500

AquaPruf Series Positive Drive Belt Conveyor

Belt Width		Pulling the Belt	
mm	in	Kg	Lb
203	8	136	300
254	10	159	350
305	12	182	400
356	14	205	450
406	16	227	500
457	18	227	500
508	20	227	500
559	22	227	500
610	24	227	500
660	26	227	500
711	28	227	500
762	30	228	501
813	32	228	502
864	34	229	503
914	36	229	504
965	38	230	505
1016	40	230	506
1067	42	230	507
1118	44	231	508
1168	46	231	509
1219	48	232	510
914	36	227	500

No Load Torque:

No load torque is the amount of torque required to turn an empty conveyor. The torque value varies by conveyor length and configuration. The following charts provide basic values for an average length conveyor. Your specific conveyor may not be have a higher value. Please confirm your no load torque and maximum load per application with the Dorner DTools program at www.dornerconveyors.com.

AquaPruf Belted Straight Conveyor - No load Torque					
Belt Width		Belted End Drive		Belted Center Drive	
mm	in	Nm	In-Lbs	Nm	In-Lbs
203	0.9	8	1.1	10	152 (6)
254	1.1	10	1.5	13	203 (8)
305	1.5	13	1.9	17	254 (10)
356	1.7	15	2.3	20	305 (12)
406	2.3	20	2.9	26	356 (14)
457	2.3	20	2.9	26	406 (16)
508	2.8	25	3.7	33	457 (18)
559	3.1	27	4	35	508 (20)
610	3.1	27	4	35	559 (22)
660	3.4	30	4.4	39	610 (24)
711	3.7	33	4.9	43	660 (26)
762	3.7	33	4.9	43	711 (28)
813	4	35	5.2	46	762 (30)
864	4.3	38	5.5	49	813 (32)
914	4.3	38	5.5	49	864 (34)
965	4.3	38	5.5	49	914 (36)
1016	4.5	40	5.9	52	914 (36)
1067	4.5	40	5.9	52	914 (36)
1118	4.7	42	6.2	55	914 (36)
1168	4.7	42	6.2	55	914 (36)
1219	5	44	6.4	57	914 (36)

Straight Modular Belt Conveyor:

The no load torque on modular belt straight conveyors is dependent on the conveyor length and width. Use the following formula to determine no load torque. Where:

L = conveyor length (mm)

W = conveyor width (mm)

BW = belt weight (kg) = $(W/1000) * ((L^2)/1000) * 8.7$ kg/square meter

PD = sprocket pitch diameter (mm) = 99 mm

$$\text{No load Torque (Nm)} = BW * (0.3) * ((PD/2)/1000)$$

Example: AquaPruf Series Straight Modular Belt, 650 mm wide x 7000 mm long

$$\text{Belt weight (kg)} = (650/1000) * ((7000^2)/1000) * 8.7 = 79.2 \text{ kg}$$

$$\text{No load torque (Nm)} = 79.2 * 0.3 * ((99/2)/1000) = 1.18 \text{ Nm}$$

$$\text{No load torque (in-lb)} = (Nm) * 8.851 = 1.10 * 8.851 = 10.44 \text{ in-lb}$$

Curve Modular Belt Conveyor:

The torque calculations for curve conveyors are complicated and are very dependent on the conveyor save and configuration. Please confirm your no load torque and maximum load per application with the Dorner DTools program at www.dornerconveyors.com.

Belting and Coefficient of Friction

The coefficient of friction is used to determine the load a conveyor can carry. It effects a conveyor in two ways: the friction that exists between the conveyor belt and the bed surface, and if accumulating product, the friction that exists between the conveyor top surface and the product.

Coefficient of Friction, between the bottom of the conveyor belt and bed surface:

Product	Surfaces	Application Condition	Coefficient of Friction
AquaPruf Series Belted	Impregnated polyester fabric to anodized aluminum bed plate	Dry	0.33
AquaPruf Series Modular Belt	Acetal modular belt to UHMW wear strips	Dry	0.30

Coefficient of Friction, between the top surface of conveyor belt and product:

AquaPruf Series Belt

The following table provides the coefficient of friction between steel product and various belt top surfaces. All factors below are assuming dry conditions.

Belt Number	Top Surface Material and Type	Coefficient of Friction
01, 54, 58, 68, 73, 81	Smooth hard urethane	0.40
02, 59, 60, 61, 66, 72, 76, 79	Smooth medium urethane	0.50
03, 19, 55, 69, 75, 77, 78, 80	Glossy soft urethane	>1.0, do not accumulate
05, 06, 50, 53, 63	Impregnated polyester fabric	0.20
08, 18, 64	PVC, Very High friction	>1.0, do not accumulate

AquaPruf Series Modular Belt

The following table provides the coefficient of friction between acetal modular belt and various products. All factors below are assuming dry conditions.

Product Being Accumulated	Typical Coefficient of Friction
Steel	0.25
Glass	0.20
Aluminum	0.25
Plastic	0.25
Wood	0.30
Paper and Cardboard	0.30

Calculating Conveyor Load Capacity

There are several factor that effect the overall conveyor load of AquaPruf Series Conveyor. These include:

- Conveyor size and configuration
- Conveyor speed
- Application temperature
- Product accumulation
- Number of starts and stops per hour

Located online at www.dornerconveyors.com is the Dorner conveyor configuration tool, DTools. This tool allows you to configure your conveyor layout and determine the maximum load capacity for the conveyor. It is suggested that this program be used to calculate the conveyor load as the calculation is quite complicated. This configuration program however does not take into account temperature, dirty conditions, and conveyor starts and stops. If these conditions are part of your application please use the load reducing factors as shown below.

Maximum Load = (Load from DTools)(Temperature Factor)(Start/Stop Factor)

Temperature Factor

Ambient temperature can negatively affect the capacity of the conveyor.

Temperature F	Temperature C	Temperature Factor
-4	-20	1.0
32	0	1.0
68	20	1.0
104	40	0.9
140	60	0.8

Start / Stop Factor

Frequent Start / Stops of the conveyor can negatively affect the capacity of the conveyor. All start / stop applications must use a soft start mechanism such as a Frequency Inverter with a 1 second acceleration cycle.

Application Condition	Start / Stop Factor
Continuous Run or 1 start/stop per hour	1.0
Maximum 10 starts/stop per hour	0.83
Maximum 30 starts/stop per hour	0.70
Greater than 30 starts/stop per hour	0.62

Calculating Conveyor Belt Speed:

AquaPruf Series Conveyors:

To calculate the conveyor belt speed you need to know the following factors:

DR = Drive roller diameter or drive sprocket pitch diameter (mm)

= 89 mm (3.5 in) for end and center drive belted conveyors

= 99 mm (3.9 in) for end drive modular belt conveyors

= 99 mm (3.9 in) for end positive drive belt conveyors

RPM = Revolutions per minute of gearmotor

$$\text{Belt Speed (m/min)} = \text{RPM} \times (\text{DR}/1000) \times 3.14$$

Example:

AquaPruf Series Belted End Drive, side mount gearmotor. The gearmotor is a 10:1 ratio with 173 rpm output.

$$\text{Belt Speed (m/min)} = (173) \times (89/1000) \times 3.14$$

$$\text{Belt speed (m/min)} = 48.3 \text{ m/min}$$

$$\text{Belt speed (ft/min)} = 48.3 \text{ m/min} \times (3.28) = 158.4 \text{ ft/min}$$

Dorner AquaPruf Conveyors are Best for:

- Processed Foods
- Dairy
- Nutraceuticals
- Raw Meats & Poultry
- Fruits & Vegetables
- Pet Foods
- Pharmaceutical
- Ready-to-Eat Foods
- And More!

Sizes & Measurements

- 152 - 1524 mm (6 - 60 in) widths
- 914 - 25375 mm (36 - 999 in) lengths

Loads & Speeds

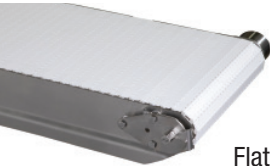
- 98 kg per square meter (20 lbs per square foot)
- Speeds up to 100 mpm (328 fpm)

Modular Belt Options

- Flat Modular Belt
- Friction Top
- Cleated
- Curve



Patented Sprocket Alignment Key

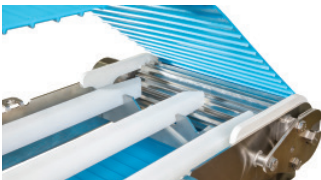


Flat Modular Belt

Belt Options

V-Guided and Positive Drive Belt Options

- Flat Belt
- Cleated
- Sidewall Cleated



Positive Drive

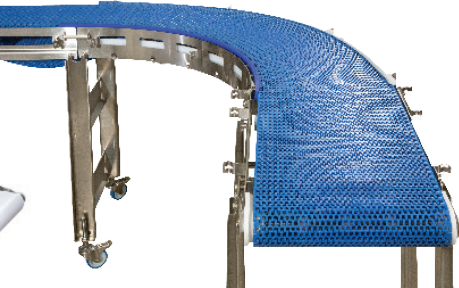


Flat Belt

Configurations



Straights

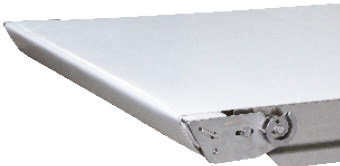


Curves

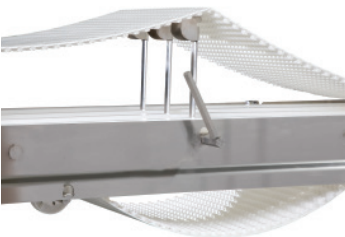


LPZ (Z-Frames), Nose-Overs & Horizontal to Inclines

Options



Nose Bar Transfers



Belt Lifters & Frame Cut-Outs



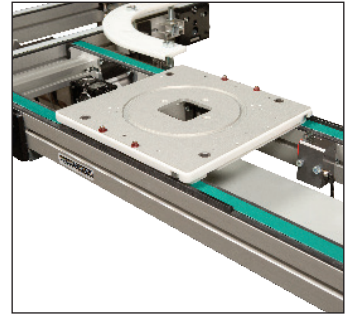
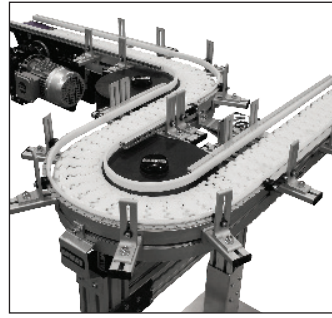
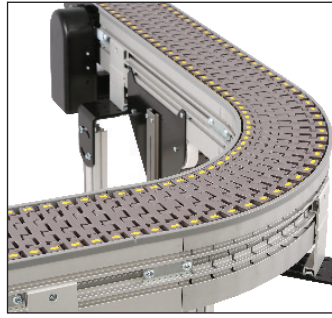
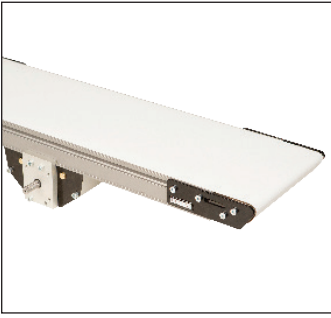
Belt Scrapers



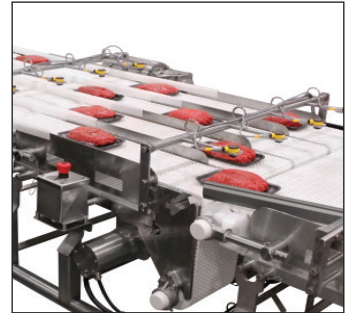
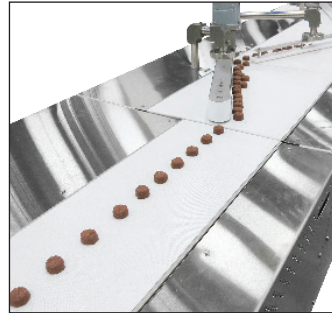
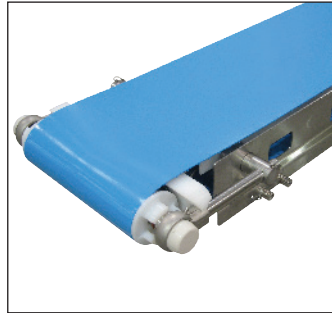
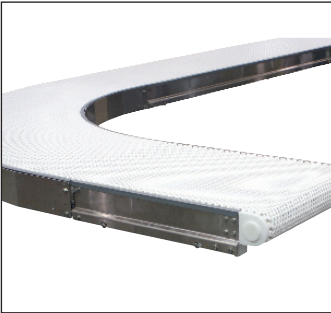
Clean-in-Place

Other options available including Chutes, Drip Pans, Guiding, Hoppers and more.

Industrial & Automation Conveyors



Sanitary Conveyors



Engineered Solutions



Parts



Service



Online Configurator



Warranty

Transforming Conveyor Automation

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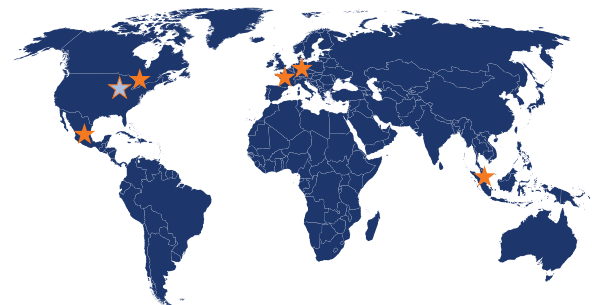
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