



A.V.W. Equipment Co., Inc.  
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Manufacturers of Automatic Car Wash Equipment

### Dual Belt Conveyor Specifications

<u>Specification</u>	<u>Standard</u>	<u>Options</u>
Frame Construction	Heavy Duty A 36 C 5 x 6.7 Structural C-Channel	Stainless Steel
Frame Coating	Red oxide primer	Black or Blue Primer additional
Demonstrated Frame Service Life	13 years	
Belt Type	Dual	
Belt Material	Engineered polymer	
Belt Dimensions (Dual Belts)	30" x conveyor length, ea,	42" x conveyor length, ea, upcharge
Conveyor Width	8'-4"	10'-4"
Belt Duty	Standard duty	Heavy duty
Belt Thickness	3/4"	1"+
Pusher Flight (Row) Width	18"	
Flight (Row) Spacing	12-13-14 split pitch (27"-28"- 29"-28")	16-13 pitch. 5-6-7-6 pitch
Pusher Height	2" and 1" Alternating	1", 1-1/2", 2"
Hinge Pin Material	Engineered Polymer	Composite, stainless steel
Hinge Pin Diameter	5/16"	3/8"
Belt Color	Blue	Black, Red, Green
Belt Edging	Blue	Black, Red, Green, Yellow
Pusher Color	Yellow	Blue, Black, Red, Green
Belt Load Capacity	340 lbs/ft conveyor length	Custom designs to 101,000 lbs
Documented Belt Service Life	670,000 washes	
Minimum Belt Speed	27 ft/min	28/min
Maximum Belt Speed	80 ft/min	84 ft/min
Maximum Cars/Hour	218	230
Assumed Vehicle Spacing Distance	22 ft (19' long + 3' spacing)	
Belt Simultaneous Vehicle Capacity	Belt Length ÷ 22 ft, 13 max	
Truck/SUV to Car Ratio	Design assumption is 100%	
Motor Horsepower	20 HP	10 HP, 15 HP, 25 HP, 40 HP
Motor Mount Type	Single center mount	Dual side mount
Electric Motor	TEFC Inverter Duty	TEFC Inverter Duty
Motor Controller	Variable Frequency Drive	Variable Frequency Drive
VFD Panel	VFD w/ Speed Control & E-stop	Dual drive
SS Wear Plate Thickness	3/16"	
Shaft Bearing Alignment Adjustment	Drive and Take-up End	
Belt Guide Roller Forced Drift Protection	Drive & Take-up	Added any section, upcharge
Super long life composite return rollers	Standard	
Fiberglass Grating Thickness	1-1/2"	
Fiberglass Grating Rated Load	1300 lbs molded	1495 lbs pultruded
Fiberglass Grating Color	Blue	Dark Gray, Red, Yellow



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### **Dual Belt Conveyor Features and Functional Options**

Dirt and debris is continuously swept downbelt to periodic extraction points in the glide (wear) plates where it drops into a sloped drainage trough that is rinsed into the center trench pit by routine cleaning.

**Standard**

Water manifolds on the take-up (entrance) and drive (exit) sections of the conveyor rinse the underside of the belt to loosen dirt and lubricate the sprockets and belt. Each manifold uses approximately 2.5 gpm fresh or reclaim water for a total of 10 gpm, adjustable by choice of nozzle size.

**Standard**

Belt is lubricated and flushed by soap applicators and low and high pressure rinse arches.

**Standard**

Additional rinse manifolds can be added at 5 foot intervals on each side of the conveyor, requiring approximately 1 gpm per foot length of conveyor, adjustable by nozzle selection.

Optional at extra charge

Automatic drive and take-up shaft bearing lubrication to reduce (not eliminate) maintenance cost; still requires monthly inspections.

Optional at extra charge

Belt puller with electric winch for belt closure. Saves time when opening and closing belt for maintenance.

Optional, sold separately

Conveyor washdown with car wash prep/cleaning gun, hose reel, injury hazard elimination lockout relay.

Sold separately as standard car wash equipment

Conveyor Pulse Switch measures conveyor speed.

**Standard**

Required by all car wash controllers

Conveyor Variable Frequency Drive (VFD) Motor Control Center (MCC) for speed and direction control, integrated to tunnel controller.

Standard unit available at additional cost. Required, but may be supplied by electrical contractor.

Trench steel for concrete imbeds to facilitate installation.

Available at additional cost. Required, but may be obtained locally or through concrete contractor to avoid shipping costs.

Glycol/water based concrete heating system prevents freezing.

Optional at extra charge; standard car wash package.

Alternative heating system to use car wash equipment heat to advance belt inside and thaw belt.

Integral purchase with car wash equipment.