



## UVCS-Series UV Light-Curing Conveyors

### 12" Wide Conveyor Systems with Multiple Lamp and Part Clearance Options

- Complete UV shielding
- Built-in exhaust fan and stack
- Controlled and consistent cure times
- Integral vacuum hold-down and cooling system
- Accepts parts up to 12" x 36"
- Accurate digital belt control and readout
- 4", 6", or 10" vertical clearance available
- Adjustable lamp-to-belt distance
- 12" belt width (guides available to channel parts into center 6")
- Bench-top conveyor (with optional transportation carrying cart)

The Dymax UVCS series conveyors are designed for curing UV light-curable adhesives, resins, inks, and coatings. These 12" wide conveyors can be outfitted with up to four Dymax 5000-EC lamps or up to two, six-inch microwave lamps. They offer complete shielding from UV light and consistent cure times. The lamp options allow matching intensity requirements to keep operating costs to a minimum. Standard height clearance is 4 inches; optional risers increase clearance to either 6 or 10 inches.

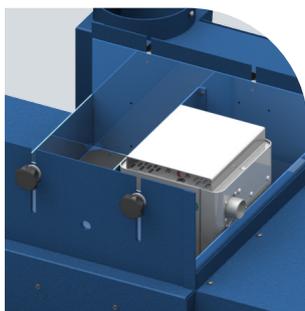
## Choosing the Right Lamp(s)

UVCS series conveyors can be outfitted with either 5000-EC lamps or Fusion F300 lamps.

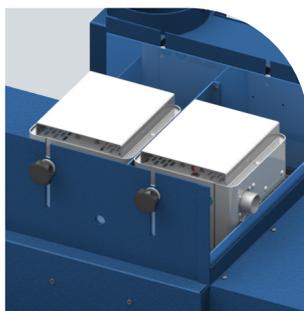
### 5000-EC Lamps

These lamps provide moderate intensity ( $\sim 200 \text{ mW/cm}^2$ ) over a 6" x 6" (approximate) curing area. Their 400-Watt auto-switching power supplies accept 90 to 264 Volts AC and 47 to 63 Hz. With normal use, 5000-EC bulbs will retain approximately 90% of their original intensity after 1,000 hours. 5000-EC lamps are recommended for small-to-medium throughput bonding applications. For faster or more tack-free cures, Fusion F300 lamps are recommended.

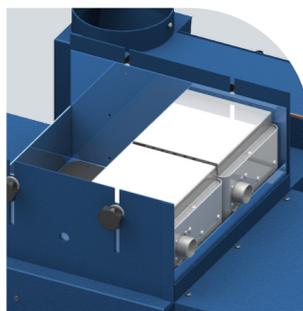
UVCS series conveyors can be outfitted with one, two, or four 5000-EC lamps as shown in the diagrams below.



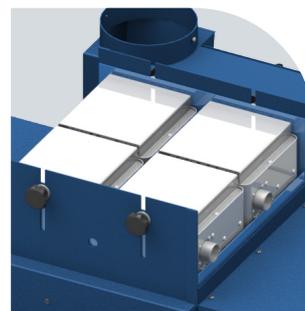
One 5000-EC lamp  
center mounted  
6" wide single exposure



Two 5000-EC lamps  
center mounted  
6" wide double exposure



Two 5000-EC lamps  
full-width mounted  
12" wide single exposure



Four 5000-EC lamps  
full-width mounted  
12" wide double exposure

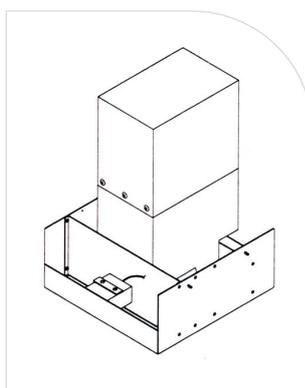
### Fusion F300 Lamps

These lamps provide the highest intensity ( $\sim 2,500 \text{ mW/cm}^2$ ) over a 1" x 6" curing area. Fusion F300 lamps require 220/230 Volts AC. With normal use, Fusion F300 lamps retain 80% of their intensity up to 5000 hours. Fusion F300 lamps are recommended for most coating, potting, and gasketing applications and all high throughput applications.

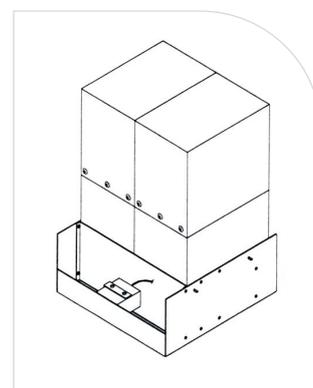
UVCS series conveyors can be outfitted with one or two Fusion F300 lamps as shown in the diagrams below.



UVCS conveyor with one center-mounted Fusion



One center-mounted Fusion F300  
6" wide single exposure



Two full-width mounted  
Fusion F300s  
2" wide single exposure

# Specifications

	5000-EC Lamps								Fusion F300 Lamps	
	UVCS-D5-1-120	UVCS-D5-1-230	UVCS-D5-2A-120	UVCS-D5-2A-230	UVCS-D5-2B-120	UVCS-D5-2B-230	UVCS-D5-4-120	UVCS-D5-4-230	UVCS-F-1-230	UVCS-F-2-230
<b>Part Number</b>	39060	39065	39070	39075	39080	39085	39100	39105	39150	39160
<b>Belt Width</b>	12"								12"	
<b>Number of Lamps</b>	1*	2*		2		4		1*	2	
<b>Lamp Orientation</b> CM = center mounted FW = full width	CM				FW				CM	FW
<b>Width of Illuminated Area</b>	6"				12"				6"	12"
<b>Maximum UVA Intensity (320-390 nm), mW/cm<sup>2</sup></b>	200								2,500	
<b>Maximum UVA Energy (320-390 nm) @ 5 fpm (J/cm<sup>2</sup>)</b>	1.25	2.50		1.25		2.50		2		
<b>Shipping Weight with Crates (lbs. [kg])</b>	390 [177]		410 [186]			450 [204]		475 [216]	580 [263]	
<b>Belt Speeds (feet per minute)</b>	1-32 fpm								1-32 fpm	
<b>Voltage (VAC)</b>	120V	220/230V	120V	220/230V	120V	220/230V	120V	220/230V	220/230V	
<b>Amperage</b>	9.6	4.8	176	8.8	176	8.8	33.6	16.8	16	32.6
<b>Conveyor Dimensions (L x H x W)</b>	59" x 39.5" x 35" <sup>^</sup> [150 cm x 100 cm x 89 cm <sup>^</sup> ]									
<b>Replacement Bulbs</b>										
<b>Metal Halide (Standard) 38560</b>	✓	✓	✓	✓	✓	✓	✓	✓		
<b>Mercury 36970**</b>	✓	✓	✓	✓	✓	✓	✓	✓		
<b>"D" Bulb (Standard) 36399</b>									✓	✓
<b>"H" Bulb 36441**</b>									✓	✓

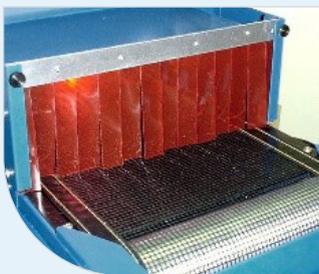
\*These conveyors have center-mounted lamps and are supplied with removable guides to channel parts into middle 6" of conveyor.

\*\*These bulbs are primarily designed for curing UV inks and cationic epoxies.

## Overall Dimensions For All UVCS Conveyors

- 50.5" 128 cm long
- 16.4" 42 cm high
- 29.8" 76 cm wide (from control panel to rear of blower)

UVCS conveyors are available without lamps for those customers that have previously purchased 5000-EC or Fusion F300 lamps. Additional lamps may be incorporated into UVCS conveyors after initial purchase (from one or two Fusion lamps, or up to four 5000-ECs). Contact Dymax Application Engineering for configuration assistance.



Tunnel Light Curtain

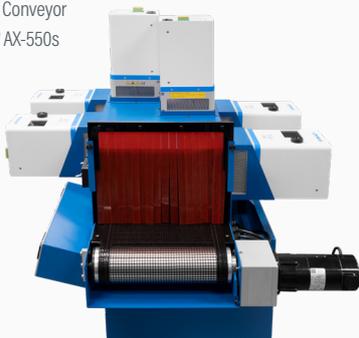


Transportation Cart

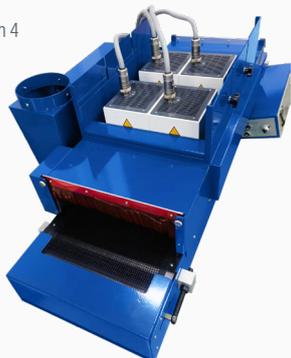


Acrylic Tunnel Shield

Custom SideCure Conveyor  
with 6 BlueWave® AX-550s



Custom UVCS V2.0 with 4  
BlueWave® FX-1250s



## Replacement Parts & Accessories

### Accessories

Risers Kit 2" *	Pair	39218
Risers Kit 6" *	Pair	39280
Guides for 6" Curing	1	39277
Transportation Cart	1	39215
ACCU-CAL™ 160 Radiometer	1	41590
<b>Replacement Parts</b>		
Acrylic Tunnel Shield	1	39205
Tunnel Light Curtain	1	39207
5000-EC (for conveyors)	1	39241
Replacement Belt	1	39134

\*Available on new conveyors only and installed at the factory.

## Custom Conveyor Systems

Dymax understands customers may have unique requirements for their UV curing needs. For applications that require features beyond standard conveyor system offerings, Dymax offers customized conveyor systems tailored specifically to the needs of customers.

For additional information, please contact Dymax Equipment Services at [equipmentservices@dymax.com](mailto:equipmentservices@dymax.com)



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