

# Light Cure Cure Conveyors

Loctite® brand cure conveyors are used for continuous or batch processing of assemblies. Each conveyor has a unique set of features designed to meet the challenges of bench top curing of light curing adhesives and coatings. Selection of a Loctite® brand cure conveyor is based on the part size, required lamp for optimum cure, and whether the need for additional bulb types exists.



For proper eye protection, use Loctite® brand ultraviolet safety glasses, Item # 97210

**Loctite®  
ZETA® 7415 UV  
Benchtop Conveyor**



**Loctite®  
ZETA® 7600 UV  
Benchtop Conveyor**



		
<b>Item #</b>	98003	980550
<b>Page Reference</b>	45	45
<b>Useful Cure Area</b>	6" x 6"	5½" x 5½"
<b>Lamp Type</b>	N/A*	Medium Pressure Mercury Arc
<b>Output Intensity</b>	High*	High
<b>Maximum Part Cross-Section</b>	3" H x 7½" W	3½" H x 6" W
<b>Lamp Power</b>	1,800 W*	1,500 W
<b>Optimized Spectral Output Range</b>	UVA, B, C*	UVA, B, C
<b>Optional Bulb Types</b>	D, V, H, H+	None

\* The lamp assembly is sold separately; see the Light Sources and Power Supplies section for more details on page 84-86.

## Loctite® ZETA® 7415 UV Benchtop Conveyor, Item 98003

The Loctite® ZETA® 7415 UV Benchtop Conveyor offers variable speed adjustment for low to medium volume production and is designed for use with an electrodeless bulb and a parabolic reflector to create a uniform cure area. The lamp assembly, conveyor, and power supply are ordered separately. The system can be integrated into an automatic or semi-automatic production line for cure-on-demand assembly.

### Features

- Conveyor speeds from 3.3 to 23 feet per minute or 0.3 to 7.2 feet per minute
- Typical curing area width of 6 inches
- Lamp orientation and height are adjustable for variable cure focal points
- Integrated modular blower for lamp cooling

### Theory of Operation

An operator will assemble the desired parts with a light curing adhesive or sealant, place the assembly on the conveyor with a preset belt speed and lamp height, and allow the assembly to pass through the conveyor to the other side, where the assembly should be removed.

### Technical Specifications

Conveyor Utilities:	117 VAC single phase, 1 amp, 50/60 Hz or can be configured for 230 VAC single phase
98004* Power Supply Utilities:	208 VAC single phase, 18 amps, 50/60 Hz
98005* Power Supply Utilities:	240 VAC single phase, 18 amps, 50/60 Hz
Maximum Part Size:	7.5" W x 3" H
Conveyor Size:	27.4" H x 42" W x 20" D
Conveyor Weight:	85 lbs.
Power Supply Size:	8" H x 19.9" W x 23" D



### List of Loctite® Brand Parts Supplied

- (1) ZETA® 7415 UV Benchtop Conveyor\* (1) Manual  
(1) Ultraviolet Protection Glasses

### Options

98086	Loctite® ZETA® 7011-A Dosimeter-Radiometer
98089	Loctite® ZETA® 7011-V Dosimeter-Radiometer
983466	Loctite® Air Deflection Kit, High Grade Quartz
983465	Loctite® Sight Shield, Snap In, Tunnel Style
983464	Loctite® Sight Shield, Snap In, Box End Style
983462	Loctite® Exhaust Plenum
983471	Loctite® Fusion V Bulb - 300 WPI
983469	Loctite® Fusion D Bulb - 300 WPI
983470	Loctite® Fusion H Bulb - 300 WPI

### Additional Information

For Spare Parts and Accessories, see page 56.

\* The lamp assembly is sold separately; see the Light Sources and Power Supplies section for more details on page 84-86.

## Loctite® ZETA® 7600 UV Benchtop Conveyor, Item 980550

The Loctite® ZETA® 7600 is a benchtop Ultraviolet Curing Conveyor used to cure light cure adhesives and coatings. This conveyor has a medium pressure mercury arc lamp, which produces high-intensity ultraviolet energy in the UVA, UVB, and UVC spectral region. This system can be integrated into an automatic or semi-automatic production line for cure-on-demand assembly.

### Features

- Contains a 6 inch, medium pressure mercury arc bulb\*\*
- Variable bulb wattage: 100, 200, or 300 watts per inch
- Optimized to emit in the UVA, UVB, and UVC regions
- Typical curing width of 5½"
- 1,000 hours of expected UV bulb life with proper handling and maintenance
- Variable conveyor speed up to 30 feet per minute

### Theory of Operation

An operator will assemble the desired parts with a UV curing adhesive or sealant, place the assembly on the conveyor at a preset belt speed and output setting, and allow the assembly to pass through the conveyor to the other side, where it is removed.

### Technical Specifications

Input Power Required:	120 VAC, 1 phase, 60 Hz, fused for 20 amps
Power Consumption @ 300 WPI setting:	Approx. 2,200 watts
Belt:	304 stainless steel wire
Maximum part weight:	3 pounds
Belt speed range (min.-max):	0.3 - 6.0 inch/second 18 - 360 inch/minute 1.5 - 30 feet/minute



### Technical Specifications (continued)

Maximum part cross section:	3.5" H x 6.0" W
Size:	21.38" H x 30" W x 26.63" D
Weight:	80 lbs.

### List of Loctite® Brand Parts Supplied

- (1) ZETA® 7600 UV Benchtop Conveyor  
(1) Ultraviolet Lamp Packaged Separately  
(1) Pair of Cotton Gloves  
(1) Ultraviolet Protection Glasses  
(1) Manual

### Options

98086	Loctite® ZETA® 7011-A Dosimeter-Radiometer
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### Replacement Bulb

983091	Replacement 6" UV Bulb - 300 WPI
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\*\* See page 73 for spectral output of the medium pressure mercury arc bulb.