

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**



| | | |
|---------------------------------|--------------|-----------------------------|
| Item # | 98003 | 980550 |
| Page Reference | 45 | 45 |
| Useful Cure Area | 6" x 6" | 5½" x 5½" |
| Lamp Type | N/A* | Medium Pressure Mercury Arc |
| Output Intensity | High* | High |
| Maximum Part Cross-Section | 3" H x 7½" W | 3½" H x 6" W |
| Lamp Power | 1,800 W* | 1,500 W |
| Optimized Spectral Output Range | UVA, B, C* | UVA, B, C |
| Optional Bulb Types | 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

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| 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

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| 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

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| 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)

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| 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

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

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