

LC6E Benchtop Conveyor

The LC6E Benchtop Conveyor is a production UV curing unit that is suitable for laboratory and R&D applications. It can also be used in testing of adhesives, inks and coatings for qualification, cure response testing, or performance evaluation.

It can handle a variety of substrates up to 190 mm wide with an effective curing width up to 150 mm. The lamp and housing are adjustable to accommodate parts up to 75 mm high.

With the compact Fusion UV Model F300 or LH6 lamp system, the LC6E offers an ideal curing system for small production parts. A unique and simple mechanism allows the lamp to be rotated and set to any angle to part travel, or raised and lowered to vary its distance from the part.

The LC6E uses air flowing through the belt to provide cooling and to help keep small sheets or parts in place throughout the curing process. An external exhaust fan is supplied to provide this cooling. The one-piece molded housing provides easy access to internal components.

The specially designed open-weave Kevlar® belt is Teflon® coated for smooth performance, and treated to eliminate static charges. The unique seam design provides an essentially uninterrupted belt surface.

There is a choice of two speed ranges within each of the models (see table on reverse). Speed is displayed by a digital display on the front panel.

A convenient lamp control switch is also located on the front panel, with a zero speed sensor incorporated, to provide lamp control and protection for the belt.

Specifications

Nominal Width: 150 mm.

Lamp Position: Rotatable, 360°; vertical adjustment from focus at belt surface to 100 mm beyond focus.

Overall Length: 1070 mm.

Overall Width: 510 mm.

Overall Height: Without lamp: 310 mm.

Weight: Without lamp: 42 kg. With lamp: 55.4 kg.

Belt: 6 mm weave Teflon®-coated Kevlar® fiber, carbon-impregnated, with unique fold-back seam.

Direction of Belt Travel: Right-to-left.

Speed Indicator: Digital, in m/min.

Speed Ranges: Two Models: Low Speed Range 0.5 - 7.0 m/min; Standard Speed Range 2 - 70 m/min.

Drive: Geared motor with synchronous belt drive; interchangeable pulleys provide two speed ranges within each model, standard speed and low speed.

Controls: Power on/off, belt run, speed control, reset, lamp stand-by/on.

Interconnections: Lamp on/off (incorporates zero-speed switch).

Exhaust Fan: Included – external.

Power: 220/240 VAC, 50 Hz, IEC power connection with power switch.

Options Available

Very low speed model: 0.5 - 7.0 m/min.

Recommended: Snap-on end light shields, top-access or end-access styles.

Lamp systems are sold separately, for more information about lamp system models refer to specific sales bulletins.



Designed and certified for sales in EU countries.

Shown with F300B lamp.

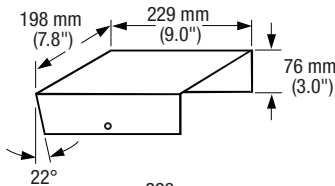
Accessories for LC6E

SNAP-IN LIGHTSHIELDS

These grey tinted, polycarbonate lightshields require no tools to install - simply snap into place on either end of the conveyor. Available in either tunnel (end access) or box end (top access) styles, these lightshields improve worker safety in situations where there is prolonged use at eye-level or when taller parts are being cured, which requires the internal adjustable shields to be lifted, increasing the amount of UV escaping into the work area.

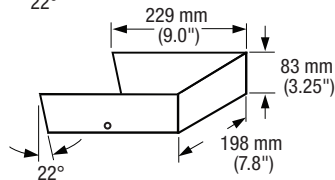
Tunnel Style Shield:

Material: GE #713 'grey' tint polycarbonate, .125" (3 mm) thick.



'Box End' Style Shield:

Material: GE #713 'grey' tint polycarbonate, .125" (3 mm) thick.



OTHER ACCESSORIES

Air Deflector: Quartz plate holder with 152 mm (6 in.) x 152 mm (6 in.) high grade (very short wavelength transmission) quartz plate. For diverting air flow from lightweight parts (not for heat control). Fits into lamp holder.

Outfeed Catch Tray: A 152 mm (6 in.) x 203 mm (8 in.) platform which clips to infeed or outfeed end to facilitate loading or unloading of parts. Material: stainless steel.

Part Removal Tool: Floats at LC6E outfeed to remove small parts or sheets from conveyor belt. Machined from black Delrin®.

External End Reflectors: Improve the uniformity across the width of the conveyor from 101 mm (4 in.) to 152 mm (6 in.) (80% uniformity) with these special reflectors made of highly polished aluminum. These reflectors act as an extension of the internal end reflector capturing UV that would be lost and directing it to the work surface. No need for screws, they simply rest on the lamp holder and the lamp holds them in place.

Speed ranges available on the LC6E are as follows:

Low Speed Conveyor Model:

0.5 m/min - 1.5 m/min	slow pulley set-up
1.5 m/min - 7 m/min	pulley set-up, as supplied

Standard Speed Conveyor Model:

2 m/min - 15 m/min	slow pulley set-up
15 m/min - 70 m/min	pulley set-up, as supplied

The difference between the two models is the gearhead drive motor installed.

Contact your local Fusion UV office for an engineered solution for your specific requirements.



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