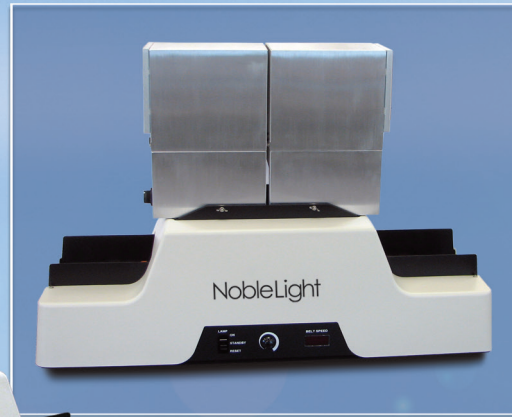




LC6B-2*

LC6B with I300MB lamp installed*

Noblelight® LC6B & LC6B-2 UV Curing Benchtop Conveyor

The LC6B/LC6B-2 Benchtop Conveyor is suitable for laboratory and R&D UV curing 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 (7.5 inches) wide with an effective UV width up to 152 mm (6 inches). The lightshield entry/exit doors are adjustable to accommodate differing part heights. The focus height (lamp to belt) can be adjusted to allow a part height maximum of 3 inches.

With the compact Noblelight model F300S or LightHammer® 6 Mark II lamp system, the LC6B/LC6B-2 offers an ideal curing system for small production parts.

LC6B – A unique and simple mechanism allows lamp rotation and setting to any angle to part travel, or raising and lowering to vary lamp distance from the part.

LC6B-2 – Only has vertical adjustment.

The LC6B and LC6B-2 use air flowing through the belt to provide cooling and to help keep small sheets or parts in place throughout the curing process. An internal exhaust blower assists with cooling. An external blower is required for specific configurations. 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 4 models and speed ranges from 0.6 to 76 meters-per-minute (2.0 to 250 feet-per-minute).

There is a convenient front panel lamp control switch and a zero-speed sensor provides lamp control and protection for the belt.

*For more information about the lamp systems, refer to the F300S and LightHammer® 6 Mark II Sales Bulletins. Lamp requires: 200-240 V. Lamp system sold separately.

NobleLight

EXCELITAS
TECHNOLOGIES®

Specifications: LC6B & LC6B-2

Available Accessories: Snap-in light shields; out feed knife; quartz air deflector; feed chute; external end reflectors; exhaust blower; exhaust duct transition; exhaust duct fitting.

Weight: Without lamp: 25 kg (55 lbs.).

Overall Length: 1,070 mm (42 in.).

Overall Width: 510 mm (20 in.).

Overall Height: Without lamp: 310 mm (12.2 in.); with lamp: 695 mm (27.4 in.).

Nominal Width: 152 mm (6 in.).

Microwave Lamp Position (using Microwave Boot):

LC6B: Rotatable, 360°; vertical adjustment from focus at belt surface to 76.2 mm (3.0 in.), beyond focus.

LC6B-2: Vertical adjustment only up to 76.2 mm (3.0 in.), beyond focus.

Lamp Types: Microwave: F300S, LH6 Mark II

Exhaust Blower: Included – internal or external optional.†

Belt: Teflon®-coated 6.35 mm (.25 in.) weave Kevlar® fiber, carbon-impregnated, with conductive (anti-static) coating and unique fold-back loop seam, standard.

Available/Optional Belt Types: Open-weave TFE/Kevlar® belt (standard); close-weave TFE/glass belt; TFE/Kevlar® woven belt w/ solid center strip; stainless steel belt.

Direction of Belt Travel: Right-to-left, standard; opposite available.

Speed Indicator: LED Digital display in m/min. or ft./min.

Speed Ranges: Four options available. See Table 1.

Power: 115/230 VAC, single phase, 50/60 Hz, internally selected.

IEC-style power connection with power switch.

Drive: PMDC gearmotor; synchronous belt drive; interchangeable pulleys provide two ranges for each model, low speed and standard speed.

Controls: Power on/off, speed adjust, lamp on/off.

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

Fasteners: Metric.

†Certain system configurations may require an external exhaust blower.

Feature/Model



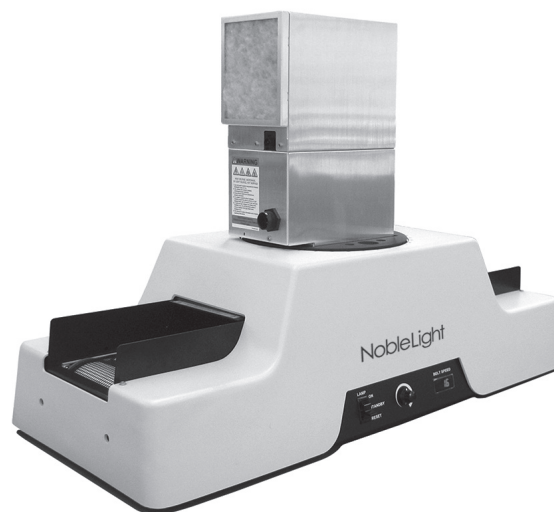
	F300S and F300SQ	LightHammer® 6 Mark II
Lamp Type	Electrodeless UV	Electrodeless UV
Bulb Length	15 cm (6-inch)	15 cm (6-inch)
Optimum Focus	5.3 cm (2.1 inches)	5.3 cm (2.1 inches)
Distance to Sample		Optional Mechanical
Power Class	120 W/cm (300 W/inch)	200 W/cm (500 W/inch)
Power Level	Fixed or Quick Restart (optional)*	Variable (35–100%) Quick Restart*
Compliance	CE, TÜV	CE, TÜV

*Not for Cycling operation

Benchtop Conveyor Systems

- Compact design minimizes bench space needed
- Rugged enough for small part production†
- Easy to use – on/off, speed indicator, lamp on/off
- Flexibility to switch between LED and microwave-powered UV curing systems
- Adapt to your specific needs – easily adjust lamp height and orientation, belt speed

†Certain system configurations may require an external exhaust blower.



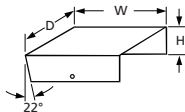
Accessories for LC6B & LC6B-2

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 curing taller parts, which requires lifting the internal adjustable shields, increasing the amount of UV escaping into the work area.

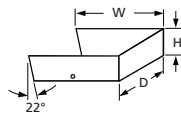
Tunnel Style Shield:

Material: GE #713 'grey' tint polycarbonate, 3 mm (.125 in.) thick.
Dimensions: 229 mm (9.0 in.) wide x 76 mm (3.0 in.) high x 198 mm (7.8 in.) deep.



'Box End' Style Shield:

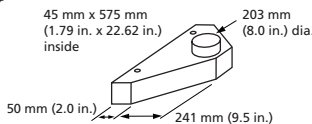
Material: GE #713 'grey' tint polycarbonate, 3 mm (.125 in.) thick.
Dimensions: 229 mm (9.0 in.) wide x 83 mm (3.25 in.) high x 198 mm (7.8 in.) deep.



Exhaust Duct Transition

This aluminum duct transition can be screwed to the rear of the conveyor housing to exhaust the cooling air up or down and away from the immediate work vicinity. It prevents cooling air from blowing directly onto other workers, thus improving the work environment. A 203 mm (8.0 in.) diameter duct (not included) can be connected.†

- Connects rear exhaust to 203 mm (8.0 in.) diameter duct (not included).
- Can be installed upward or downward.
- Material: 1.524 mm (0.060 in.) aluminum.



†Certain system configurations may require an external exhaust blower.

Replacement Belts

- Teflon®-coated 6.35 mm (.25 in.) weave Kevlar® fiber, carbon-impregnated, with conductive (anti-static) coating and unique fold-back loop seam, standard.
- Teflon®-coated 6.35 mm (.25 in.) weave Kevlar®, with conductive (anti-static) coating, and a 76 mm (3 in.) wide tight-weave center strip for small parts; fold-back loop seam.
- Flexible stainless steel belt, Teflon® slider guides, and roller modifications. Available as a retrofit kit. (Not for use with standard slider bed. NOTE: Conveyor must be modified to use this belt).
- Teflon®-coated 1.59 mm (.0625 in.) glass weave; fold-back loop seam.

Other Accessories / Options

- Quartz Plate Air Deflectors
- External End Reflectors
- Left-to-right Belt Travel (opposite direction)
- External Exhaust Blower
- Special Belts for Small Parts
- Stainless Steel Mesh Belt
- Adaptable to Hold 2 Lamps (without rotatable feature)
- Outfeed Catch Tray
- Part Removal Tool

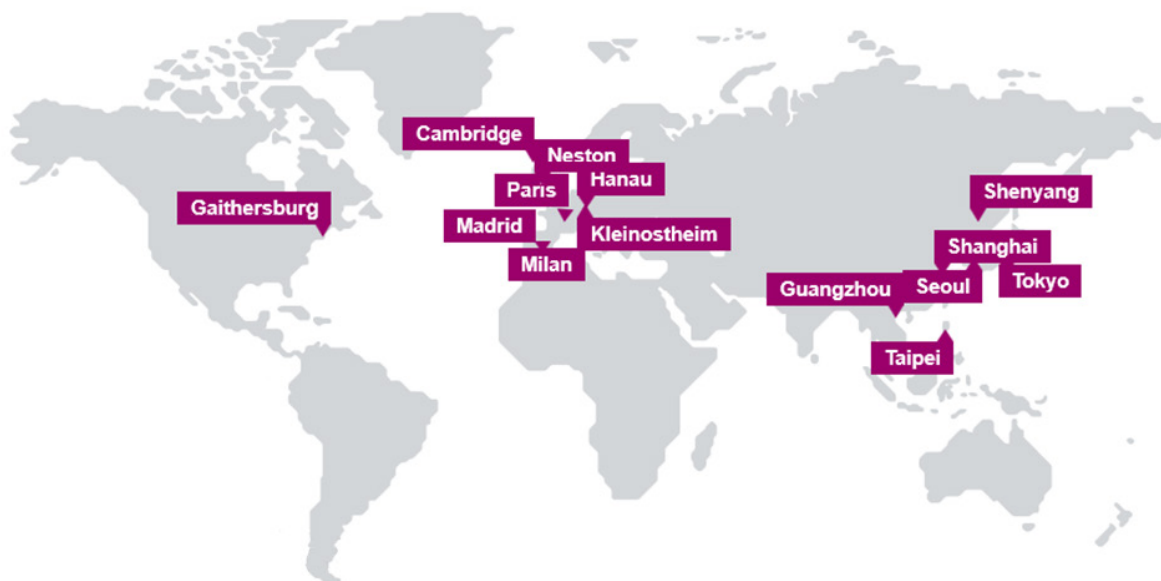
Table 1

Speed ranges available on the LC6B/LC6B-2 are as follows:

0.6–2.2 m/min. (2.0–7.2 ft./min.)	Same assembly – requires exchange of drive pulleys
1.0–7 m/min. (3.3–23 ft./min.)	
5–23 m/min. (16–75 ft./min.)	Same assembly – requires exchange of drive pulleys
15–76 m/min. (50–250 ft./min.)	

Curing of coatings, inks, paints and adhesives with UV (ultraviolet) is considered a “green” technology. It provides a healthier environment to workers and offers several advantages over solvent-based technologies including a reduction in VOCs (volatile organic compounds), air pollutants and flammability.

NOBLELIGHT REGIONAL PRESENCE - WORLDWIDE



Subject to change. September 2023

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