



Noblelight® DRS 10/12 UV Curing Conveyor Systems

Fully Engineered Floor-standing Conveyor

Noblelight's popular DRS floor-standing conveyor accepts one or two rows of Noblelight's modular UV curing systems.

The conveyor accepts two 6-inch lamp systems (F300S or LH6 Mark II) side-by-side for a nominal 12-inch curing width, or two 10-inch lamps (F600S, LH10 Mark II or LH10 Mark III) in a two-row arrangement.

The DRS 10/12 is designed to accommodate a variety of part geometries up to 4 inches high.

Benefits:

- Easy to use – digital speed indicator, safety interlocks
- Flexibility to switch between different microwave-powered UV curing systems
- Adapt to your specific needs – easily adjust lamp height, orientation, rows (up to two), cure width and belt speed
- Durable steel construction, built-in exhaust blower

NobleLight

EXCELITAS
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Specifications: DRS 10/12 UV Curing Conveyor Systems

Lamp Configurations: (lamps purchased separately)

- **F600S, LH10 Mark II, LH10 Mark III:**
One lamp wide, one or two rows.
- **F300S:** Two lamps wide, one row.
- **LH6 Mark II:** Two lamps wide, one or two rows.
- **LED Options:** Available as a custom solution.

Please inquire.

(Conveyor base can accommodate two power supplies.)

UV Width, Nominal: 254 mm (10 in.) or 305 mm (12 in.), depending on lamp system.

Conveyor Belt Width: 355 mm (14 in.).

Length (overall): 1,676 mm (66 in.).

Width (overall): 813 mm (32 in.).

Conveyor Belt Height: 819.2 mm $\pm$ 50.8 mm (32.2 in. $\pm$ 2.0 in.).

Maximum Part Height: 101 mm (4.0 in.).

Infeed Length, Clear: 380 mm (15 in.).

Outfeed Length, Clear: 280 mm (11 in.).

Belt Material: Kevlar®, Carbon/Graphite impregnated PTFE Coating.

Belt Speed Range: Variable speed in five (5) ranges; 0.3–4.6 mpm, 1.5–22.9 mpm, 3–45.7 mpm, 4.6–68.6 mpm, 10.7–152.4 mpm (1–15 fpm, 5–75 fpm, 10–150 fpm, 15–225 fpm, 35–500 fpm).

Speed Control: Variable with digital display.

Clutch Slip Limit: 13.5 kg (30 lbs.) belt pull.

Vacuum Hold Down: At infeed, cure zone, and outfeed.

Slider Bed: Perforated aluminum sheet.

Drive System: P.M.D.C. Motor, 1/8 HP.

Lamp Focus: Focal point adjustable from 0.0 mm–101.6 mm (0.0 in.–4.0 in.) from belt in 12.7 mm (0.5 in.) increments (i.e., 53.4 mm–154.9 mm [2.1 in.–6.1 in.] from belt to face of lamp).

Exhaust Blower: 45.3 m³/min. (1,600 cfm) @ 50.8 mm (2 in.) SP (outlet). Blower included and installed in base cabinet.

Exhaust Duct Connection Size: 149 mm x 298 mm (5.9 in. x 11.8 in.).

Standard Power Requirements

Voltage: 115 V, 50/60 Hz, 1 phase, 30 A (230 V, 50/60 Hz, 1 phase, 15 A, optional).

Lamp System: Sold separately, see appropriate lamp data sheet.



System control panel.

Tough and Safe

The conveyor frame and lamp housing of the DRS 10/12 conveyor system are constructed of welded steel for strength and durability.

As with all Noblelight equipment, personal safety and substrate protection are prime considerations.

The DRS 10/12, when used with standard Noblelight Lamp Systems, protects against:

- Lamp and blower failure
- Microwave leakage
- Excessive power supply temperature
- Power imbalance
- Power error
- Power interruption
- Zero speed

In addition, there is an external interlock provision for user connection to other equipment.

Contact your local Excelitas Noblelight office for an engineered solution for your specific requirements.

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