

Fusion UV[®] DRS 10/12

UV Curing
Conveyor Systems

Fusion UV[®]



Introduction

Fully Engineered Floor-standing Conveyor

Fusion UV[®]'s popular DRS floor-standing conveyor accepts one or two rows of Fusion UV'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

Specifications: DRS 10/12 UV Curing Conveyor Systems

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 Fusion UV equipment, personal safety and substrate protection are prime considerations.

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

The DRS 10/12, when used with standard Fusion UV 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.



System control panel

Specifications: DRS 10/12 UV Curing Conveyor Systems

LAMP CONFIGURATIONS: (LAMPS PURCHASED SEPARATELY)

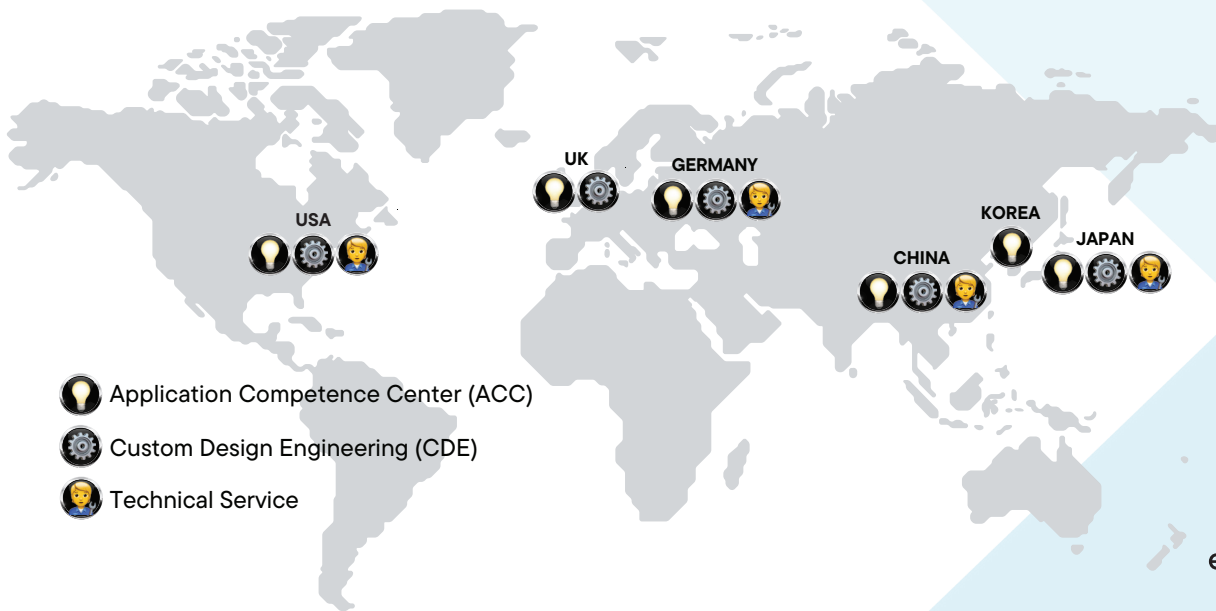
F600S, LH10 Mark II, LH10 Mark III	One lamp wide, one or two rows
F300S	Two lamps wide, one row
LH6 Mark II	Two lamps wide, one or two rows
LED options	Available as a custom solution. Please inquire.

(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 ±50.8 mm (32.2 in. ±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) Optional continuous focal adjustment via hand crank (shown on cover page)
Exhaust blower	45.3 m ³ /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.)

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

Success Factor: Regional teams close to our customers



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ISO 9001 Certified QMS

