

# SunBelt 25

High-Power UV Curing Conveyor



## High-power, Wide-width UV Curing Conveyor

The Uvitron SunBelt 25 is a premium, wide-width light-curing conveyor system designed for the high-volume production and laboratory processing of sizable components. Engineered for efficiency, it features a powerful, high-output arc lamp, operated by a programmable electronic power-regulating ballast, delivering consistent, intense illumination ideal for rapid curing tasks. This conveyor system is designed with operational consistency and user safety in mind. Its variable-speed motor, complemented by a velocity-regulating drive, maintains steady conveyor belt speeds, accommodating varying loads while ensuring a noise-minimized operation. With its extended, enclosed UV curing tunnel and strategically placed entrance and exit light guards, the SunBelt 25 offers maximal light shielding, creating a safe and efficient working environment for users. Additionally, the system allows for easy adjustment of the belt-to-lamp height, offering compatibility with parts of diverse sizes and facilitating versatile curing applications.



## Features



### High Output Lamp Head with Forced Air Cooling

The lamp head contains a 25 inch arc length, 10,000 Watt metal halide type lamp, which emits focused UVA, UVB or visible light from its elliptical reflector. Dual integrated cooling blowers insure long lamp life.

### Lamp Power Regulation

The system's electronic switch mode ballast maintains constant lamp power regardless of variations in AC line input or lamp voltages. This regulation provides for repeatable curing times and longer lamp life.

### Adjustable Lamp Height

Curing chamber handles and locator pins allow for easy adjustment of lamp height from 2 to 11 inches, which provides perfectly repeatable settings of lamp head to belt distance for various part sizes.

### Regulated Belt Speed Controller

A variable frequency drive with digital speed readout is used to adjust and regulate conveyor belt speed up to 58 feet per minute, allowing for repeatable product exposure time and curing dose.

### Exhaust Blowers and Port

The curing chamber has 3 blowers mounted below the belt for evacuating heat and any product vapors. The outlets of these blowers are ducted to a rear mounted port for venting to facility exhaust systems.

### In-feed Product Guides

Dual angled guides at the entrance side of the conveyor's 33 inch wide belt insure that products being cured are directed into the 25" lamp cure zone. For larger products that only require center curing, the guides can be removed.



## Dimensions & Specs

- **System Type:** High-Power, Variable Speed UV Conveyor
- **Part #:** UV1655
- **Lamp Power:** 10,000W
- **Input Voltage:** 480VAC  $\pm$ 10% 3 phase
- **Input Current (Max):** 13.5 Amps
- **Lamp Intensity:** 2150 mW/cm<sup>2</sup> UVA at 2" lamp height
- **Curing Energy:** 5.0 J/cm<sup>2</sup> UVA at 5' /min.
- **Curing Width:** 25" exposure width, 33" max part width
- **Belt Width:** 33"
- **Belt Speed:** 3.0–58' /min
- **Lamp Height, Adjustable:** 2–11"
- **Dimensions (L x W x H):** 100 x 45 x 60"

## System Part Numbers

PART	Item	Details
UV1655	SunBelt 25 UV Conveyor, 480V 3Ø	High-power, variable speed UV Conveyor with 25 inch cure width, 10KW lamp & welding curtains. Default configuration comes with a 25 inch UVA enhanced metal halide arc lamp, PC graphical interface software CD, 2 pairs of UV protective glasses and instruction manual.

## Accessories

PART	Item	Details
UV1450-XX	Uvicure Plus II Integrating Radiometer	UVA, UVB or Visible ranges, 10-10,000mW/cm <sup>2</sup>
UV1451-H	Power Puck II Radiometer	4 bandwidths, range: 0.1-10W/cm <sup>2</sup> (UVA, UVB, Visible), 0.01-1W/cm <sup>2</sup> (UVC)
UV0495	UV/IR Protective Safety Glasses	OTG (fit over prescription eyewear), 3.0 shade
UV2231	UV/IR Protective Safety Glasses	Sport contour, 3.0 shade
UV1889	UV Protective Face Shield	Lift-up face shield ideal for maximum light protection, 3.0 shade
UV02361	SunBelt 25 Instruction Manual	Usage and maintenance info for SunBelt 25 System

## Replacement Parts

PART	Item	Details
UV2364	Replacement Belt, SunBelt 25	Teflon Coated Fiberglass, 33" Width
UV2423	UVA Enhanced Metal Halide, 25" Arc Lamp	400 W/in
UV1831	UVB Enhanced, 25" Arc Lamp	400 W/in
UV4447	Visible Enhanced (420nm peak), 25" Arc Lamp	400 W/in