

18" and 25" WIDECURE™ UV-Curing Conveyors

18" and 25" WIDECURE™ UV light-curing conveyors offer fast, consistent UV curing of large parts. DYMAX WIDECURE conveyors run 4-50 feet per minute and can be outfitted with either a longwave bulb (for most DYMAX materials) or a shortwave bulb (for inks). No stray UV light, durable construction, tightly controlled line speed, and 5" to 12" adjustable lamp heights make these conveyors very production friendly.



FEATURES	
Powerful UV-curing lamps (>4 ¹ J/cm ² at 5 fpm; 400 Watts per inch)	Two bulb options (shortwave or longwave)
UV-curing width of 18" or 25"	Easily adjustable lamp-to-belt distance (5" to 12")
Line speeds from 4-50 fpm	Integral vacuum hold-down and cooling system
Accurate digital speed control for repeatable cures	Complete light containment

¹ Measured with an EIT Power Puck (320-395 nm) radiometer at a lamp height of 5" using a standard metal-halide bulb. A Fusion® F-300 also provides about 4J/cm² at 5 fpm.

SPECIFICATIONS	DESCRIPTION	18" CONVEYOR	25" CONVEYOR
	Part Number	39380	39381
UV Curing Information	Bulb Curing Length	18" (45.7 cm)	25" (63.5 cm)
	Peak Intensity	900 mW/cm ² nominal ¹	
	Energy @ 5 fpm	4.0 J/cm ² nominal ¹	
	Bulb Degradation	<20% degradation over 750 hours	
	UV Lamp Type	400 Watts per inch (metal halide (standard) or mercury) ²	
	Reflector Type	Non-focused; 4" (10.2 cm) curing width	
Belt Information	Belt Width	25-7/8" (65.7 cm)	32-7/8" (83.5 cm)
	Belt Working Height	Adjustable from 35" to 41" (88.9 cm to 104.1 cm)	
	Belt Material	Teflon-coated fiberglass	
	Belt Speed	Adjustable 4-50 fpm	
	Speed Control	Digital readout; 0.1 fpm increments; 2% accuracy	
	Maximum Belt Load	30 lbs. (13.61 kg)	
Dimensions	Overall Dimensions (L x W x H)	126" x 38" x 71" (320 cm x 97 cm x 180 cm)	126" x 45" x 71" (320 cm x 114 cm x 180 cm)
	In-Feed Length	36" (91.4 cm)	
	Shroud Length	60" (152.4 cm)	
	Out-Feed Length	36" (91.4 cm)	
	Clearance and Lamp Height	Adjustable from 5" to 12" (12.7 cm to 30.5 cm)	
Electrical Information	UV Lamp Electrical Requirements	220 VAC ³ , 60 Hz, 50 Amps	220 VAC ³ , 60 Hz, 80 Amps
	Conveyor Electrical Requirements	Single phase plus ground 110 VAC, 60 Hz, 15 Amps	
Air Flow Information	Cooling Air Flow	600 CFM	900 CFM
	Blower Duct Dimensions	8" (20.3 cm) square	
	Replacement Bulbs <i>Metal Halide</i> <i>Mercury</i>	39376 39613	39373 39614
	Shipping Weight	~650 lbs. (294.8 kg)	
	Lead Time	3-7 weeks, depending upon inventory	

¹ Measured with an EIT Power Puck (320-395 nm) radiometer at a lamp height of 5"

² Can also be outfitted with mercury bulbs (shortwave, UVB, "H" type) for UV inks

³ Other UV lamp voltages are available upon request (208V, 420V, 460V)

Fast Curing

With over 4J/cm² of UVA curing energy at 5 fpm¹, DYMAX WIDECURE™ conveyors offer fast UV cures. The following table provides typical cure speeds for several different DYMAX UV light-curing applications and materials.

TYPICAL CURE SPEEDS

Application (DYMAX UV Light-Curable Material)	Cure Speed, m/min [ft/min] ¹
Conformal Coating (984-LVUF)	4.6 [15]
Medical Plastic Bonding (1187-M) ²	7.6 [25]
Glass Bonding (429)	3.0 [10]
Industrial Plastic Bonding (3025) ²	8.2 [27]
Gasketing (GA-108)	2.4 [8]

Consistent UV Curing

DYMAX WIDECURE conveyors offer repeatable curing profiles due to a tightly controlled belt speed and minimal bulb degradation (<20% over 750 hours). A digital display shows line speed in increments of 0.1 fpm.

Quick and Easy Height Adjustment from 5" to 12"

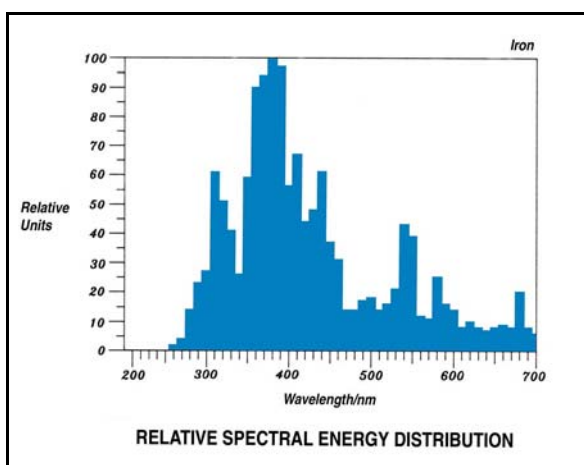
A simple hand crank allows quick and easy lamp height adjustment to accommodate parts from 5" to 12" in height.

No Stray UV Light

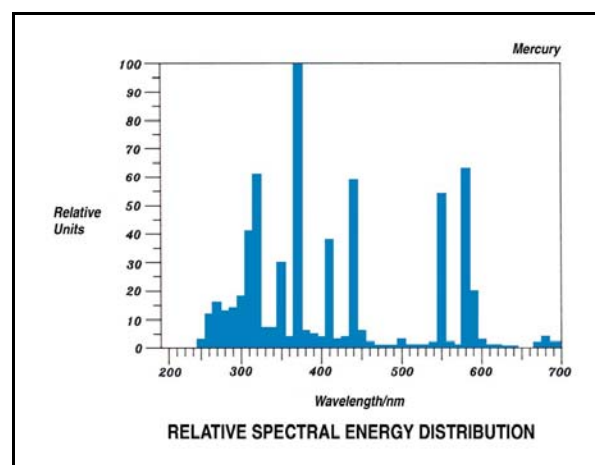
A 5'-long shroud eliminates stray UV light while urethane curtains at the entrance and exit reduce stray visible light. The flexible urethane curtains can be modified to accommodate any specific part height.

Two Bulb Options

WIDECURE conveyors can be outfitted with either a longwave (metal halide, UVA/Visible) bulb or a shortwave (mercury, UVB/UVC) bulb. The longwave bulbs are recommended for most DYMAX UV-curable materials while the shortwave bulbs are generally recommended for UV inks. The following charts show the spectral distribution of each type of bulb. Unless otherwise specified, DYMAX WIDECURE conveyors are outfitted with longwave (metal halide) bulbs.



Spectral distribution with a metal-halide, iron-doped mercury bulb
PN 39376 and 39373



Spectral distribution with a mercury bulb
PN 39613 and 39614

¹ Energies and cure times were measured using a metal-halide, iron-doped mercury bulb and an EIT Power Puck radiometer.

² Tested on plastic with nearly 100% UV/Visible light transmission.

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Please note that most dispensing and curing system applications are unique. DYMAX does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in DYMAX's standard Conditions of Sale. DYMAX recommends that any intended application be evaluated and tested by the user to insure that desired performance criteria are satisfied. DYMAX is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request.

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