

CONVEYOR LABORATORY UNIT

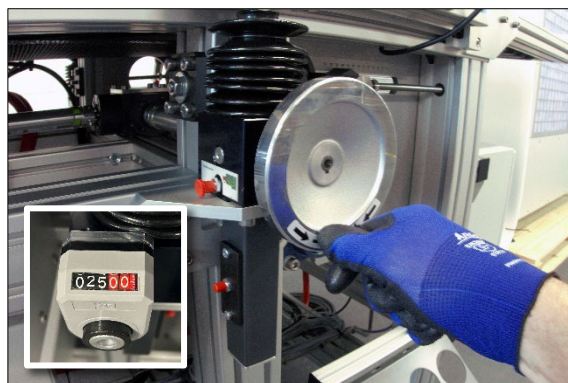
GEW's Conveyor Laboratory Unit can be specified with any combination of GEW's production UV curing systems (arc, LED or Excimer) and customisation options such as nitrogen inerting, height adjustment, and quartz window options. A high precision motor allows samples and measurement devices to pass under the UV unit(s) at variable speed up to 100m/min. The height adjustment function allows the unit to accurately mimic almost any press configuration.

Multiple lamps can be arranged in series and with RHINO ArcLED control; LED and arc lamp curing can then be rapidly interchanged as required. Appropriate cooling systems are specified according to customer requirements and the floor standing units can be set on wheels or permanently located.

Whatever your laboratory requirements, GEW can custom design a solution to accurately reflect the production environment you serve.



The control panel enables individual switching for each lamphead, as standard.



Bed height is manually adjustable in increments of 0.01mm.

Key features:

- Fully customisable Conveyor Laboratory Unit
- Can be equipped with any combination of GEW UV, Excimer or LED lamps
- Long infeed to ensure samples reach belt speed prior to first lamp
- All safety interlocks, emergency stops
- Perfect for R&D or light production
- Option for nitrogen inertion, height adjustment and almost any other option GEW manufacture
- Manual height adjustment with customisable lamphead height up to 150mm (inerting significantly reduces height adjustment).

Compatibility		E2C, E4C, NUVA2, AeroLED, LeoLED and ExciRay.
Arc/array length		38cm as standard.*
Interface plate		125, 250 and 500mm (specification dependent).
Speed		Up to 100m/min.
Inert nitrogen atmosphere		Optional (required for ExciRay). Supplied at 8 bar at 20°C. Oxygen-free (purity 0.99999). Nitrogen supply required.
Cooling	Water	All (water-cooled roller & water-cooled bed).
	Air	E2C, E4C, NUVA2 and AeroLED.
	Nitrogen	ExciRay only.
Power supply unit	Type	GEW RLT or RHINO.
	Supply	380 Vac – 480 Vac 50/60 Hz 3P + N + E.
Additional services		Compressed air supply, minimum 6 bar.
Overall dimensions LxWxH		3312 x 1015 x 1429mm. Height includes ExciRay lamphead.
Working area required LxWxH		4000 x 2000 x 2000mm, approx.

*Other widths may be available upon request

Further Specifications:

Speed range		4-100m/min – digital readout, continuously variable.
Conveyor belt width		400mm.
Lamphead width		380mm.
Effective curing width		330mm (ExciRay 300mm).
Maximum substrate thickness		35mm.
1625mm space for lampheads		Modular sections of 125mm, 250mm & 500mm; customers can use up to 1625mm in any combination of below:
125mm		Nitrogen inlet.
		Blank.
250mm		1x lamphead of any type.
		Blank.
500mm		2x lampheads of any type/combination.
		Blank.
Overall bed height adjustment		Up to 35mm: from 5mm to 40mm, measured from belt to underside of plate(s). Can be increased to 150mm when using interchangeable booster plates.
Optional nitrogen inerting		Adjustable down to below 50ppm.
Power supplies and cooling		Additional external components (e.g. fan, chiller and cabinet) also require space.