

AUV-H170

UV Curing Oven

MYSmart UV Curing System



AUV-H170

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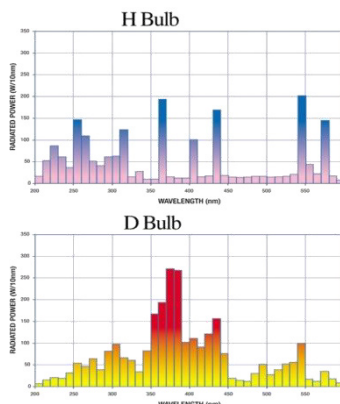
The Axxon Mycronic's AUV-H170 UV curing oven is a compact and efficient in-line oven for curing conformal coating, adhesives and other fluids with UV radiation.

Powerful microwave lamps combined with custom-designed high-gloss aluminium reflectors provide a high energy UV light that illuminates the fluid on the substrate.

Short curing time allows higher throughputs at a length of just 1700mm.

Advantages:

- Easy to operate system
- Both H-bulbs as well as D-bulbs available
- Easy maintenance exchangeable lamp units
- Fully automatic inline UV-curing with microwave-powered electrodeless lamp
- Adjustable conveyor speed
- Automatic conveyor width adjustment
- Internal and external shutters for extra safety
- Multi UV lamps
- Supports optional dual side curing
- Long lamp life time
- PC control
- Support Industry 4.0 and factory MES linking
- Certification: RoHS & REACH, CE

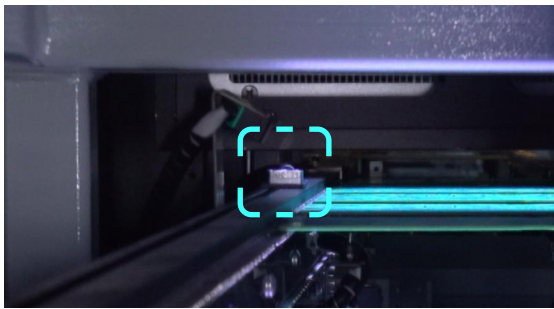


UV lamps:

To increase the UV lamp lifetime and reduce current consumption the lamps are automatically put in power saving mode when the machine has been inactive for some time. The energy control system uses the conveyor width to determine the number of lamps to be used for the curing process. Lamps outside of the actual board width will not be activated during production.

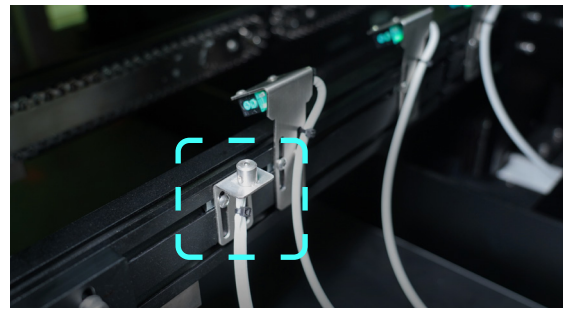
AUV-H170 UV Curing Oven

Function Modules



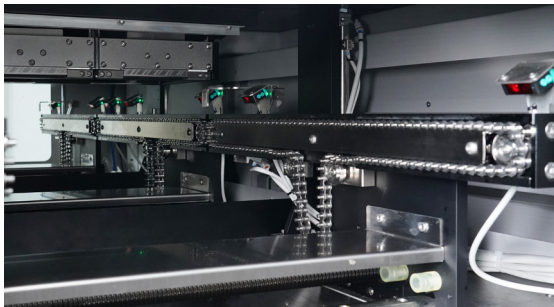
UV Light Intensity Monitoring Function

Real-time monitoring of UV lamp light intensity, alarm for exceeding the light intensity range



Oven Temperature Monitoring Function

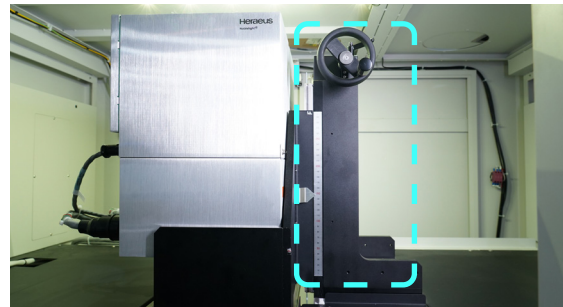
Real-time monitoring and alarming to avoid abnormal temperature inside the oven and avoid product overheating



Three Stage Conveyor & Four Shutter Module

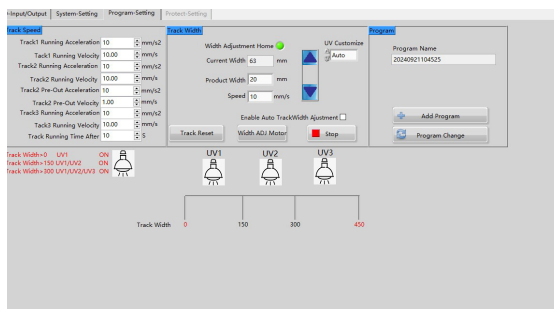
Four shutters (inlet shutter, shutter in front of the lamp, shutter after the lamp and an exit shutter)

Operator safety guaranteed with shutter system



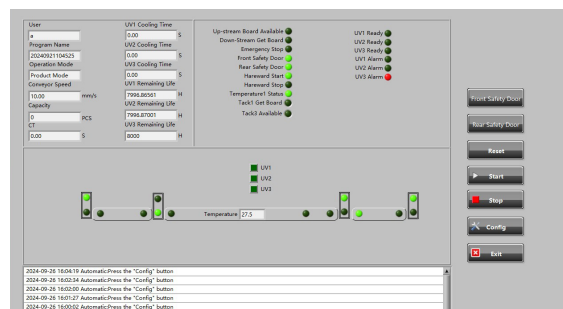
Manual Lamp Height Adjustment

Easily adjust the lamp height for optimal light intensity and superior curing results



UV Lamp Energy Consumption Eco-Control

Compatible with various product widths, adjust the number of lights based on conveyor width



Product Tracking Inside The Oven

Sensors track products inside the oven, with display indicators showing their exact location at all times

Specifications **AUV-H170**

BASIC PARAMETERS	AUV-H170		
	AUV-H170	AUV-H170-2	AUV-H170-3
Curing technology	Single fusion UV lamp	Dual fusion UV lamps	Triple fusion UV lamps
Lamp type	H- or D-bulb		
Curing width	150mm	300mm	450mm
Lamp lifetime	8000h		
UV spectrum wavelength	200-450nm		
Machine dimension (WxDxH)	1,700X1,300X1,780mm (without light tower)		
Conveyor height	950±20mm		
Transportation method	Special aluminium alloy conveyor + stainless steel chain		
Conveyor chain	5 mm pin chain		
Board clearance	±100mm		
Max conveyor load	10kg/m		
Conveyor length	1,650mm(three-stage conveyor)		
Transportation speed	0.3-3.0m/min		
Conveyor width adjustment mode	Auto width adjustment		
Conveyor width	50-450mm		
Working direction	Left to right (standard)/right to left(optional)		
Lamp layout	Light source in the upper conveyor		
Power supply voltage	380V, 3phase, 50/60Hz		
Lamp power	3.6kW	7.2kW	10.8kW
Total weight	722kg	736kg	750kg
Total power	4.2kW	7.8kW	11.4kW
Exhaust requirements	Exhaust port Φ200mm x 3pcs ; centre port flow rate: 2640m³/h, side port flow rate 780m³/h		
Height range of lamp set	Manually adjust range: top 30-150mm, bottom 50-110mm, auto (optional)		
Standard compliance	CE,RoHS&REACH		

SOFTWARE SYSTEM

Control model	PC
Operating system	Windows 10
Language	Chinese/English
User permissions and password protection	Three level
Communication protocol	SMEMA

STANDARD FEATURES

Standard H-type lamp
Emergency stop
Exhaust port
Oven temperature monitoring alarm
Board counter
Board jam detection
Lamp life time management monitoring
Manual adjust the lamp height
PC control
Four shutters protection
UV lamp energy consumption eco-control (control the number of flights according to the track width)
UV lamp start & cooling time monitoring
Automatic conveyor width adjustment

OPTIONAL FEATURES

Optional D-type lamp
Automatic adjust the lamp height
Cooling fans (for product outlet cooling)
Floor standing return conveyor (automatic width adjust)
Dual side curing
Heavy-duty conveyor (payload 15kg)
UV lamp power monitor
Barcode reader
MES (basic information: lamp energy need UV lamp power monitor)
UPS
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NETHERLANDS
Axxon Europe B.V.
High Tech Campus 10
5656 AE Eindhoven
Netherlands

MEXICO
Mycronic Mexico
Carretera Guadalajara-Tepic
No. 7355 Col. San Juan de
Ocotán in Zapopan
Jalisco C.P. 45019



USA
Mycronic Inc.
554 Clark Road
Tewksbury, MA 01876
USA

CHINA
Axxon Automation Co.,Ltd.
A14, Silicon Valley Power
Automotive Innovation Park
334 Guanlan, Shenzhen, China
Tel: +86 755 8358 6066

USA
US Application Center
1450 Koll Circle
San Jose, CA 95112
USA

Please feel free to contact us if you have further inquiries

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