

## **Research Laboratory Coater**

The RLC (Research Laboratory Coater) is the creative starting point where films can be made using your materials and inks through a wide choice of deposition techniques (slot-die coating, flexo, knife, bar, etc.). The RLC's are turn-key systems starting from the simple single axis slot-die coating set-up where functionality and complexity can be gradually added. Common to all the products is that they have a small footprint and present an



open platform that is easily adaptable to all the great experiments that have not been carried out yet. You can fit them almost everywhere in the lab, in the fume cupboard, on the bench and in the glovebox.

ltem	Technical parameters	Remarks
RLC unit		
Weight	>20 kg	Depending on configuration
Dimensions (h x w x d)	45 x 50 x 55 cm 45 x 50 x 65 cm (RLC 3DPrint Wide)	
Power supply	120 V AC or 240 V AC	Depending on configuration
RLC system control	Touch screen Manual adjustment Computer control	Depending on configuration
Coating area	100 mm x 280 mm (Standard) 160 mm x 280 mm (Wide)	
Coating speed	From 1.2 mm/sec and up to 33 mm/sec.	Depending on configuration
Base plate temperature	Standard up to 90 °C. High temp. option up to 140 °C Heated vacuum chuck (up to 90 °C)	
Thin film processing options	Slot-die coating, heated slot-die head, knife coating, bar coating, simple flexo printing	
Suringo Bump		
<u>Syringe Pump</u> Pump Control	Touch screen Computer control	

## **Technical Specifications**

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Ink flow	0.01 ml – 9.99 ml	
Ink volume	Standard pump up to 20 ml syringe. Jumbo pump up to 60 ml syringe.	
Option for mixing/gradient	Combine up to 4 pumps for advanced	
experiments	mixing and gradients experiments	
Power supply	24 V	Powered from the RLC unit
Thin film processing:		
Slot-die coating:		
Slot-die coating width	5 mm – 150 mm	Patterned or full coating
Slot-die head position	12 o'clock	
Hight adjustment (head to substrate)	5 mm	
Sideways travel length	160 mm	
Slot-die head material	Stainless PEEK Titanium	
Tubing and Connector material	PTFE (Tubing) and Peek (connector)	
Heated slot-die head		
Temperature range	RT-100 °C.	
Slot-die head material	Stainless or Titanium	
Slot-die coating width	10 mm – 150 mm	Patterned or full coating
Simple flexo printing:		
Printing width	25 mm wide standard 1-junction 10 mm wide stripes sleeve	
Printing thickness	1.5-50 m <sup>3</sup> /m <sup>2</sup>	
Printing pattern	Slanted stripes	Customized patterns obtainable
Knife coater:		
Coating width	30 mm	
Coating thickness	Up to 750 microns	
Coating thickness adjustment	Manually	
Knife coater material	Stainless (the knife) and alloy	

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