

# Vacuum tables, rollers and chucks

infinityPV ApS offers new technology for work-holding of thin foils and substrates with high precision and minimum deformation during coating and printing. Our high precision research laboratory coaters enable slot-die coating with our high precision slot-die heads. Traditional work-holding of thin flexible foils have employed a planar or curved surface with a regular pattern of small holes (0.5-2 mm diameter). While efficient for work-holding flexible foils firmly to the surface this method has many drawbacks when attempting precision slot-die coating on thin foils. The new vacuum tables, rollers and chucks from infinityPV come with an ultra-smooth diamond milled/turned surface that can be heated enabling precision coating and homogenous drying over large areas.



## Size, shapes and surfaces:

The infinityPV vacuum tables, rollers and chucks always come with heating and are available from the very small lab scale 38 x 105 mm<sup>2</sup> chuck that is great for small scale experiments such as X-ray scattering or ellipsometry to vacuum tables measuring 105 x 310 mm<sup>2</sup> tables for our RLC series (manual or motorized) and all the way up to our popular industrial scale 1000 mm x 3000 mm<sup>2</sup> flat-bed coater series (FBC). Our heated vacuum rollers are available in cylindrical or double curved shapes. We also offer custom solutions comprising custom sized heated vacuum surfaces with controller. For flat outlines: any 2D-shape can be supplied. For curved outlines: rollers or complex 3D topographies can be supplied. Our standard laboratory scale vacuum chuck and vacuum tables for our RLCs are always in stock.

## Key highlights:

The infinityPV vacuum work-holding technology for thin flexible foils find application within both research and industrial production of printed electronics, membranes, solar cells, fuel cells, batteries, OLEDs, LECs, transistors, memory, logic and much more

- Ultra-high precision work-holding for thin flexible foils and rigid substrates
- Excellent thermal contact, high rate of heat transfer and fast heating
- High surface quality with very low deformation during work-holding as shown by interferometry with no deformation as compared to traditional vacuum tables employing perforated plates

