

# SLOT DIE

*US Patents D328,943 & 6,537,376*

## APPLICATIONS:



MLCC  
Battery Electrodes  
Anti-Reflective Films  
Photoresists  
Optically Clear Adhesives  
and more!

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# YASUI SEIKI PRECISION SLOT DIE

## Machined to 1/1000<sup>th</sup> of a millimeter

In the past decade, slot die has become one of the most widely used coating methods in the world. While the majority of slot dies on the market require time-consuming bolt adjustments to obtain uniformity, the precision of the Yasui Seiki slot die is due to meticulous in-house machining, to the 1/1000<sup>th</sup> of a millimeter to guarantee coating accuracy.



The accuracy of slot die coating depends on the precision of the entire coating machine, and Yasui Seiki's dedication to achieving the highest quality coating possible is reflected in everything we make.

Thanks to our extremely high precision machining and rigorous quality testing, Yasui Seiki precision thin lip slot die can now deposit as low as 1  $\mu\text{m}$  wet.

**FACT:** The world's largest Multilayer Ceramic Capacitor (MLCC) manufacturer only coats on Yasui Seiki precision slot die coaters.

## OPTIONS



- Tungsten carbide lip slot die (US Patent D328,943)
- Corrosion-resistant stainless steel slot die
- Zero gap slot die
- Thin lip slot die for thin coating

## HIGHLIGHTS



- No profile adjustment bolts
- Machined to 1/1000<sup>th</sup> of a millimeter
- Patented manifold and lip configuration for extremely uniform coating
- Coating tolerance is  $\pm 2\%$
- The system may be used in "On Roll" or "Off Roll" mode to ensure a wide range of coating thicknesses

## APPLICATION EXAMPLES

- Multilayer Ceramic Capacitors (MLCC)
- Li-ion battery electrodes
- Polyimide coating for flexible printed circuits (FPC)
- Flexible solar panels
- Inkjet printer photoresist coating
- Film casting (polyimide, urethane, epoxy, etc)
- Nanomedicine

