



Slot Die Coating

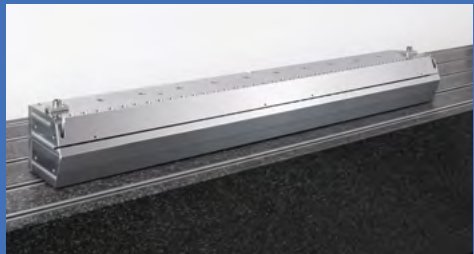
Enter the world of
**utmost coating
precision and control.**

YOUR COATING, OUR EXPERTISE.

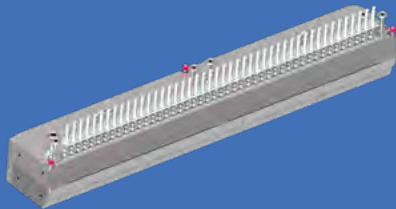
We provide a wide range of lip slot dies, including fixed and adjustable types like T-Bar and Flexlip, with the option for full automation. Additionally, JCS offers tempering solutions using either electrical heating elements or water. Our experts support you throughout the selection process to ensure the best possible solution for your specific application and requirements.



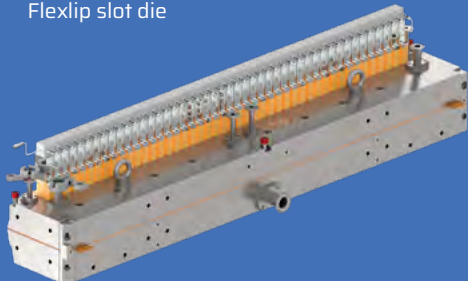
Fix lip slot die



Flexlip slot die



T-Bar slot die with micrometer screws



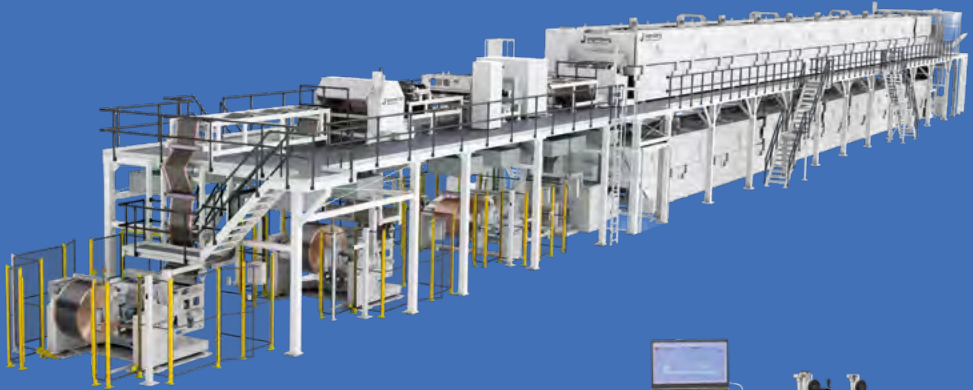
T-Bar slot die with automatic drives

Everything you need for Slot Die Coating success from a single source:

- Fluid dosing systems
- Coating stations
- Service Trolleys
- Shims
- Customized tools
- ... and much more



Jagenberg Converting Solutions GmbH offers you complete solutions from a single source: systems, contract manufacturing, and automation. From lab to pilot plant to full-scale production – we support you every step of the way!



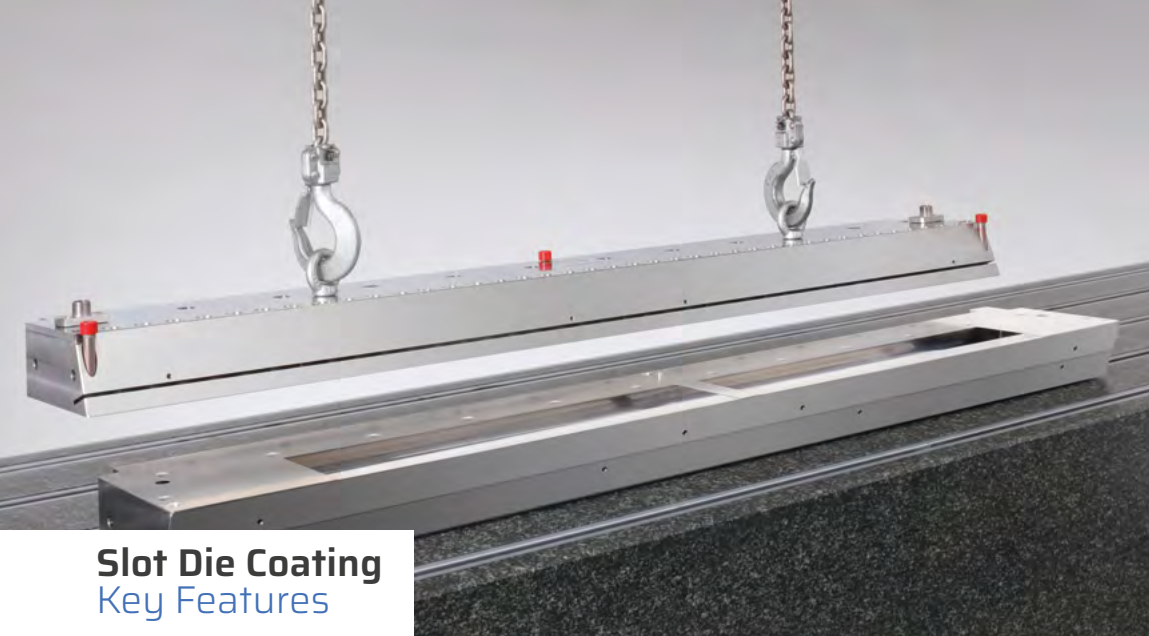
Slot Die Coating



OPTIMIZE EFFICIENCY WITH TAILORED SLOT DIE COATING!

Harness the Potential of your fluids
with Slot Die Coating.

Experience peak wet coating with our slot die technology, enabling utmost process control and stability. With 20+ years of expertise, we tailor solutions to your needs, ensuring flawless, uniform coating results. Elevate your production quality and efficiency with our gold standard solutions.



Slot Die Coating Key Features

- Customized to your fluid coating application
- Coating width: up to 2,500 mm
- Coating speed: up to 150 m/min. in bead/extrusion mode, up to 2,000 m/min. in curtain coating
- Wet loading: 1-1,000 g/m²
- Coating thickness: 1-1,000 µm
- Coating types: Full-surface, stripe or patch/intermittent coating
- Slot die type: Fixed lip, Flexlip, T-Bar (manual & automated)
- Material: AISI 630 or AISI 316L
- Cross web distribution: Pinpoint precision (+/-1%), high precision (+/-3%), or standard precision (+/-5%)
- Lip and manifold design method: Tailored to your application through rheological analysis, analytical process window calculations, and CFD & FEM simulation
- Finish: Inner surfaces and lip precision ground and manually lapped, flow surfaces polished
- Alignment system Die: Guide blocks
- Alignment system Shim: Pins & Shim offset screws
- Ventilation: 2 holes as standard

Why choose Slot Die Coating for your product?

When it comes to wet film application, Slot Die Coating is the gold standard in many cases.

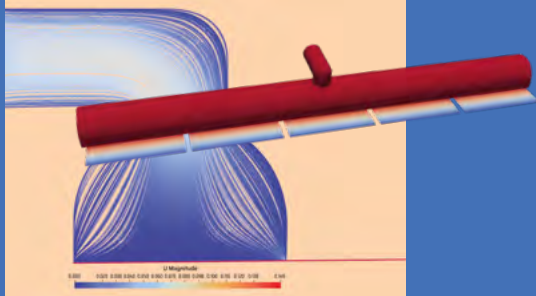
This technique ensures exceptional uniformity in thickness and precise control over the coating process. Benefits include pre-metering, excellent coating performance, robust process stability, and a closed fluid delivery system – all contributing to superior quality and reliability

A customized approach to precision

With over 20 years of experience, we provide customized solutions tailored to your specific needs. Our team of expert engineers designs slot dies using a rigorous process that includes rheological characterization, analytical calculations, computational fluid dynamics (CFD), and finite element method (FEM) simulations. This ensures perfectly homogeneous coating results.

Precision engineering for optimal performance

We follow a thorough manufacturing process, which involves precise adjustments and rigorous testing to guarantee exceptional performance. Partner with us and experience the gold standard in coating technology, tailored to your needs. Our slot die solutions help you to increase the quality and efficiency of your products.



CFD simulation of a customized JCS slot die



up to

2,500 mm

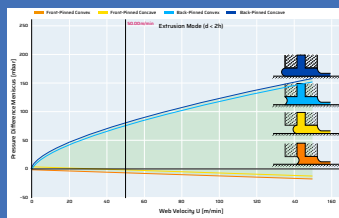
Coating width



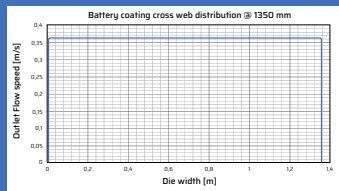
up to

2,000 m/min.

Coating speed

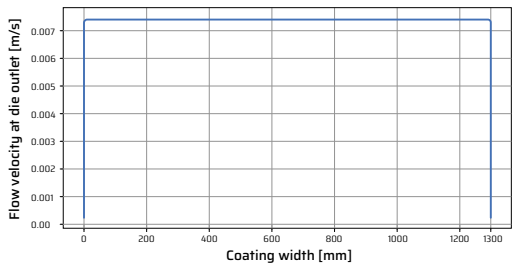


Process window calculation for Slot Die Coating.

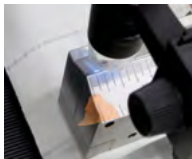


Unlock < +/-1% cross web distribution by Slot Die Coating.

Cross web homogeneity right from the start! Our rigorous quality assurance process has been honed to perfection through 20+ years of experience. Meticulous attention to detail is paid to guarantee your coating success!



**We have never
commissioned
a slot die this
fast!“**



Join the world of
Slot Die Coating
today!



The exceptional products and applications of our customers:

Battery electrodes (Anode & Cathode)

Hydrogen (Fuel Cells & Electrolyzers)

Medical
(e.g. Transdermal therapeutic systems)

Surface & Décor solutions

Adhesives

Printed electronics

Smart glass

Architecture

Packaging

... and many more



If you are interested or have any questions
about Slot Die Coating, please contact

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