



Kevin Green

**Technical Sales
Manager**

**Pulse Roll Label
Products**



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Presentation Content

- Understanding why different manufacturing technologies are required
- Measuring, milling, testing, packaging and storage
- Manufacturing and storage of Food Packaging Compliant inks



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What is required from an ink?

- Inks Fit for Purpose

- Print Processes

- Substrates

- Post-print Properties



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Manufacturing Workflow

- Vehicle
- Pre Dispersion
- Dispersion



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Resin Beads



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Mixer Blades



Sawtooth Dispersing Blade

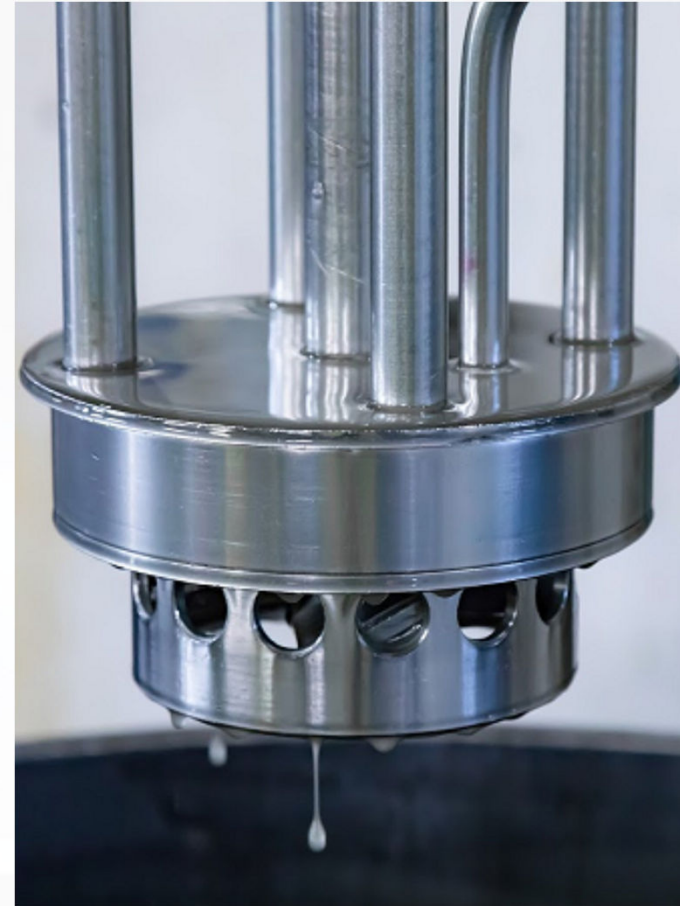
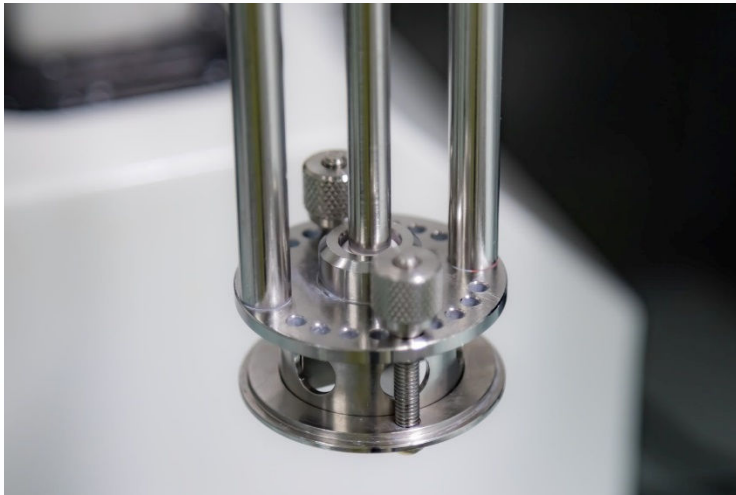


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Dispersing Head



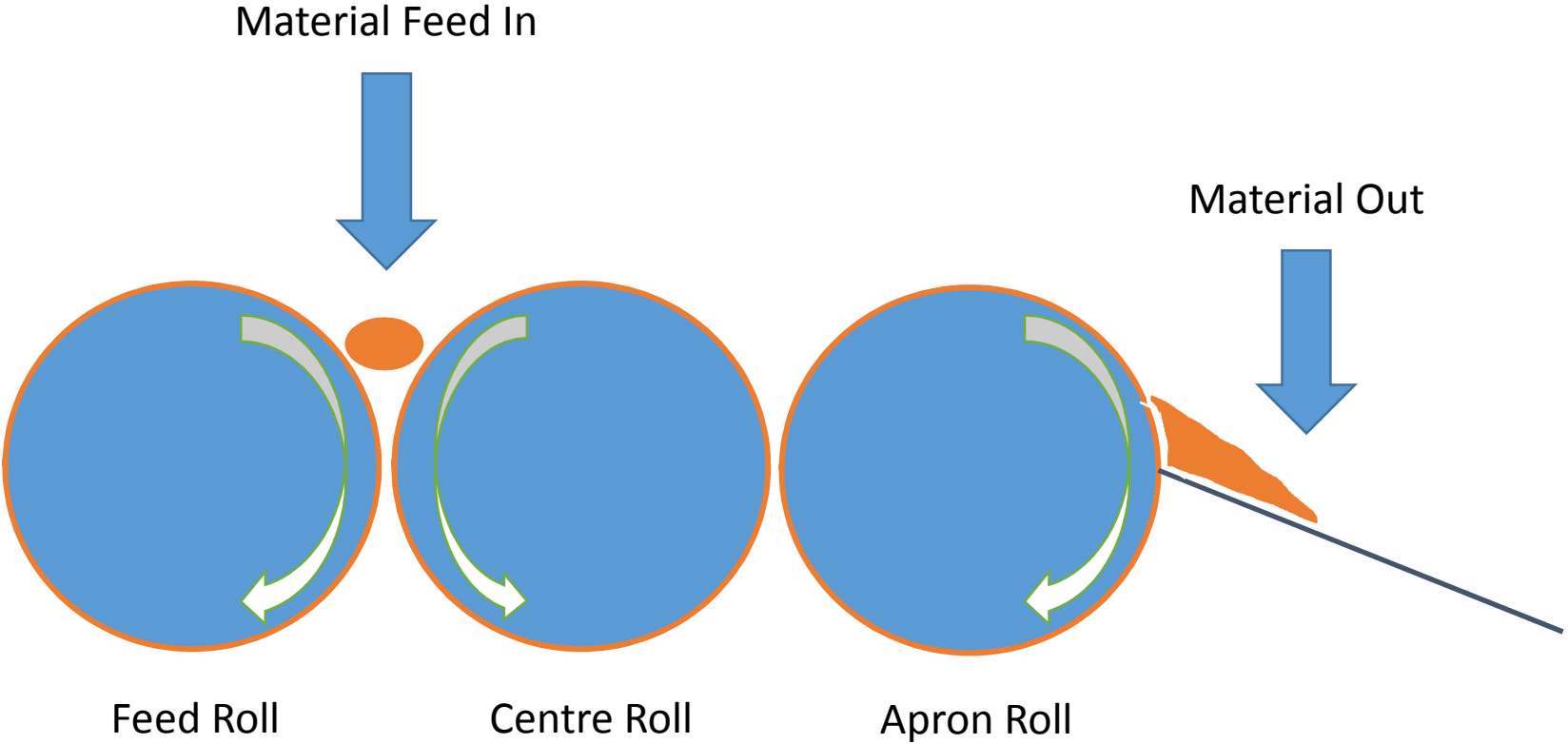
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Triple Roll Mill

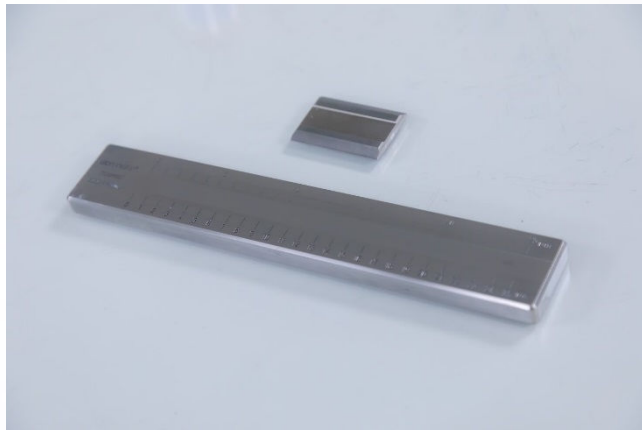


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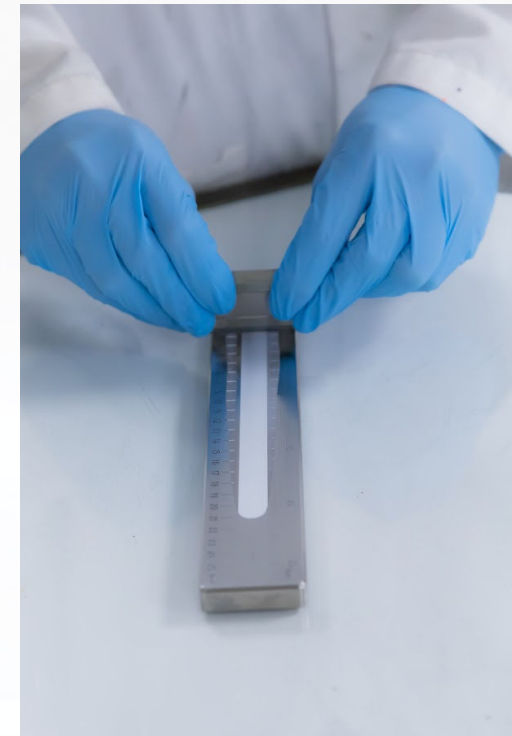
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Grind Gauge



Grind Gauge

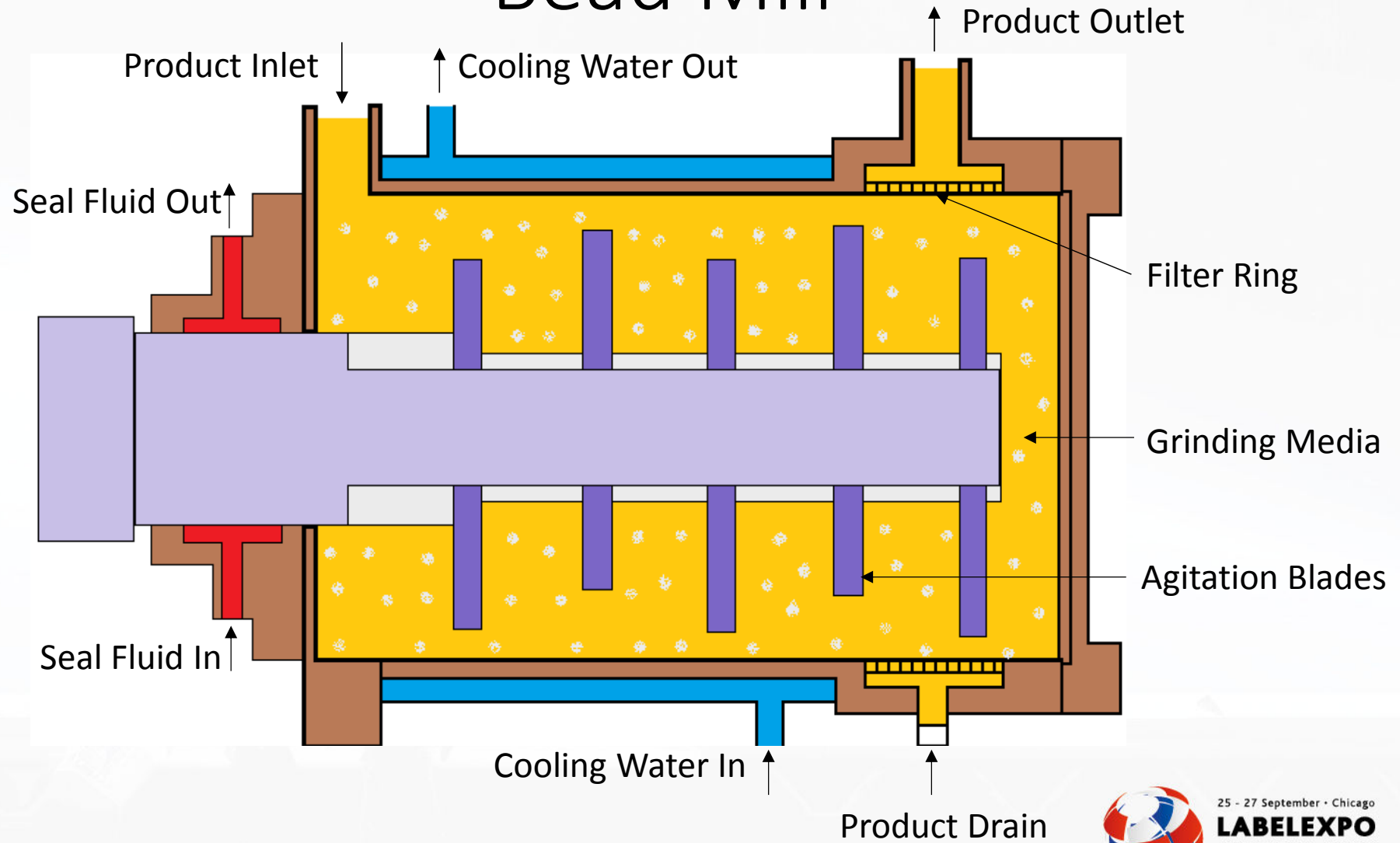


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Bead Mill



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Basket Mill



Inlet Cone

Impeller
Within

Grinding
Media Within

Outlet
Filter



Sawtooth Blade



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Manufacturing Workflow

- Colour Concentrate Blending
 - Quality Control
 - Packaging



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Colour Concentrate Blending



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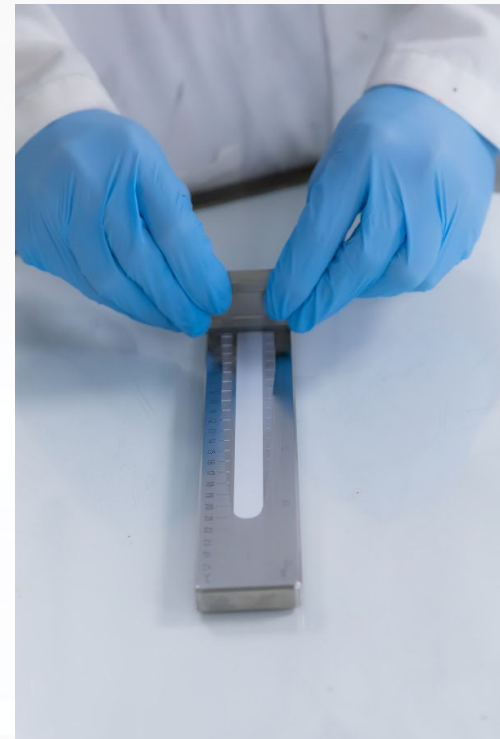
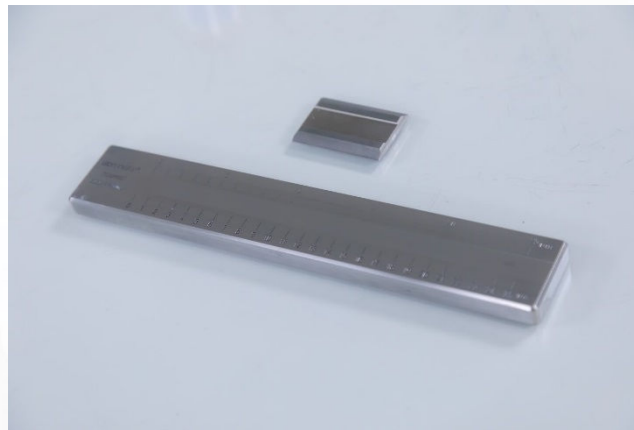
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Quality Control



Grind Gauge

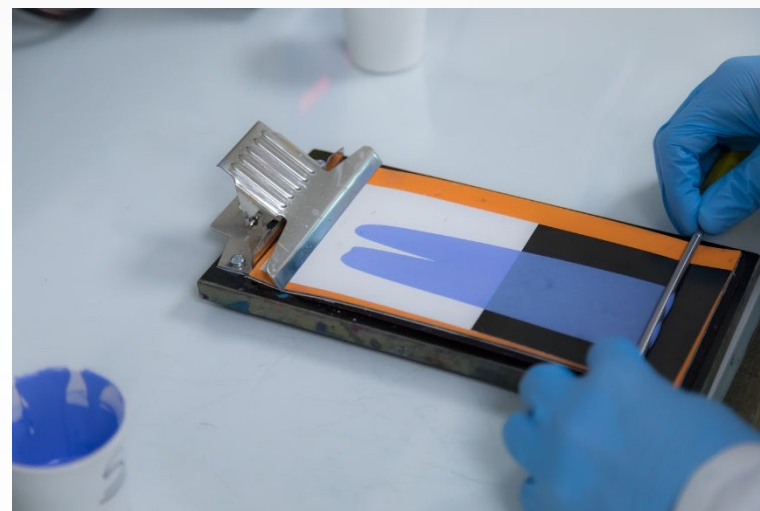
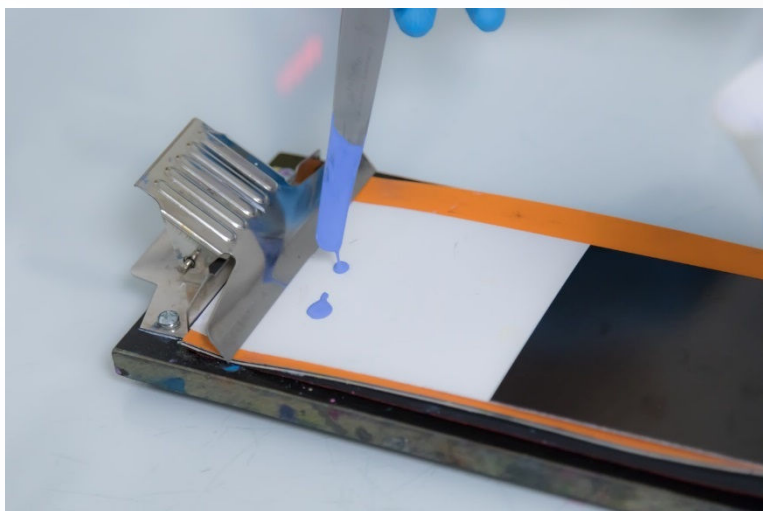


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Quality Control



Drawdown Print



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Quality Control



Flexographic Proof Print

Digital Colour Management



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Packaging



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Food Packaging Compliance

- EuPIA Guidelines
- Nestlé Guidance Note on Packaging Inks
- Swiss Ordinance



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Food Packaging Compliance



- EuPIA – European Printing Ink Association
 - Good Manufacturing Practice (GMP)



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GMP - Process Risk Assessment

- Material Storage
 - Manufacturing Process
 - Contamination



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GMP – Site Hygiene

- Hygiene Management



- Cleanliness

- Cleaning Agents, Auxiliary Materials and Lubricants



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GMP - Identification and Traceability

- Raw material batch numbers
 - Finished goods unique batch numbers
- Product recall procedure
 - Quality Control



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GMP - Packaging and Storage

- Segregated storage for FPC and non FPC materials
 - Separate manufacturing areas
 - Suitable containers for FPC products



- Responsibilities



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End

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