Summit™ Lamination Applicators

Innovative process improves bond strength and product quality in high-speed laminating applications.

Summit lamination applicators deliver superior control of fiber size, density and pattern width in backsheet lamination and core stabilization applications for nonwovens disposable products.

The innovative non-contact process uses four radially tangential air jets to oscillate single adhesive fibers, producing a crossing pattern that enhances bonding performance. Controlled adhesive fiber deposition provides greater uniformity in the cross-web direction, improving product quality.

Features and Benefits

- **Superior control of adhesive fiber size, density and pattern width** increases bond strength and prevents substrate distortion.
- **Add-on rates** as low as 1 gram per square meter at 300 meters per minute (1,000 fpm) reduce adhesive usage and improve product appearance.
- **Excellent intermittent on-off cycling** minimizes adhesive waste.
- **Non-contact dispensing** bridges and penetrates irregular surfaces, improving bond performance.
- **Tight edge control** within ±2 millimeters (±0.08 in.) without overspray minimizes adhesive waste.
- **Air-cooled adhesive fibers** reduce heat distortion and burn-through, allowing use of thinner backsheet materials.
- **Adhesive fiber sizes ranging from 50 to 100 microns** allow flexibility in producing low-density large-fiber patterns for maximum bond strength, open patterns for absorbency, or highly dense fine-fiber patterns for heat-sensitive substrates.
- **Easy hardware changeover** with other Nordson applicator technologies allows manufacturing versatility.
- **Elastomeric seal** separates adhesive and air passages within the die.
- **Combination of full- and partial-width nozzles** tailors adhesive coverage to specific product requirements.
- **Partial-width nozzles** orient for left or right coverage.
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Add-on Weight</td>
<td>1 to 10 gsm</td>
</tr>
<tr>
<td>Edge Control</td>
<td>±2 mm (±0.08 in.)</td>
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<tr>
<td>Nozzle Size</td>
<td>0.46 mm (0.018 in.)</td>
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<tr>
<td>Nozzle to Substrate Distance</td>
<td>15 to 20 mm (0.59 to 0.79 in.)</td>
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<tr>
<td>Air Pressure</td>
<td>0.01 to 0.10 MPa (2 to 15 psi)</td>
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<tr>
<td>Air Consumption</td>
<td>0.3 to 0.7 scfm per nozzle</td>
</tr>
<tr>
<td>Adhesive Fiber Size</td>
<td>50 to 100 microns</td>
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</tbody>
</table>

1 Results are typical and may vary based on specific adhesive and application.

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For more information, talk with your Nordson representative or contact your Nordson regional office.

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