EP 48 V
Bookbinding Application System

Nordson developed this closed hot melt application system with the EP 48 V application head especially for adhesive bonding with polyurethane (PUR) adhesives. This system presents an excellent alternative to the traditional, open wheel application method and offers substantial advantages to product quality, efficiency and production reliability.

The EP 48 V applies adhesive directly to the spine of the book. Better wetting of the paper fibers ensures good adhesion with high pull values and improved lay-flat properties.

The positive adhesive application pressure and clean cutoff enable production speeds of up to 18,000 books per hour.

With exact spine preparation a coating thickness of 0.3 mm / 0.01 in. can easily be reproduced. Other savings result from using a tank system, which unlike a drum system, does not leave waste adhesive.

Depending on customer needs a tank system or bulk system can be used. Using a tank system allows continuous melting and does not leave waste adhesive. Using a bulk system provides optimum PUR conditioning for intermittent use.

The closed system ensures the adhesive is protected and prevents premature curing. Bubble formation and adhesive foaming does not occur as with wheel applicators. The extensive effort required to clean traditional open systems is virtually eliminated by EP 48 V heads.

The application width can be quickly and gradually adjusted on the head to adapt to various inner book widths. Edge guides also prevent mushroom-shaped deformation of the inner book and prevent glue from seeping between the pages. When the width of the inner book deviates substantially, the application head swivels out and the system is automatically switched off.

The EP 48 V bookbinding application head is part of a complete Nordson system. Normally this system can be integrated into the design and control of adhesive bonding with little effort. Integration occurs via a trolley that can be optimally adapted to the specific type of bookbinding machine.*

* When retrofitting, it should be ascertained whether the bookbinder fulfills the requirements in regard to wear and spine processing.
### Features and Benefits
- Gradually adjustable application width for spines up to 60 mm / 2.4 in.
- ChemCoat® non-stick coating makes cleaning easy.
- Easy adjustment of head with fine adjustment feature.
- Heated adhesive filter.
- Complete system from one supplier.

ChemCoat is a registered trademark of Impreglon GmbH.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>max. 180 °C / 356 °F</td>
</tr>
<tr>
<td>Processable adhesive viscosity</td>
<td>max. 30 000 mPas / cps</td>
</tr>
<tr>
<td>Application width</td>
<td>1 - 60 mm / 0.04 - 2.4 in.</td>
</tr>
<tr>
<td>Heating time</td>
<td>&lt; 30 min</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230 VAC</td>
</tr>
<tr>
<td>Power consumption (heater)</td>
<td>body 960 W, filter block 600 W</td>
</tr>
<tr>
<td>Temperature sensor</td>
<td>Ni 120</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>max. 4 MPa / 40 bar / 580 psi</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 25.4 kg / 56 lb</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>370 x 450 x 200 mm / 14.5 x 17.7 x 7.9 in.</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP 50</td>
</tr>
</tbody>
</table>

1) Adhesive manufacturer’s processing instructions should be observed.

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

**United States**
Duluth, Georgia
Tel: (800) 683-2314
Fax: (866) 667-3329

**Canada**
Markham, Ontario
Tel: (800) 463-3200
Fax: (905) 475-8821

**Europe**
Lüneburg, Germany
Tel: (49) 4131-894-0
Fax: (49) 4131-894-149

**Japan**
Tokyo, Japan
Tel: (81) 3-5762-2700
Fax: (81) 3-5762-2701

**Asia/Australia/Latin America**
Amherst, Ohio
Tel: (440) 985-4797
Fax: (440) 985-1096

www.nordson.com

© 2002 Nordson Corporation
All Rights Reserved.
Nordson reserves the right to make design changes between printings.