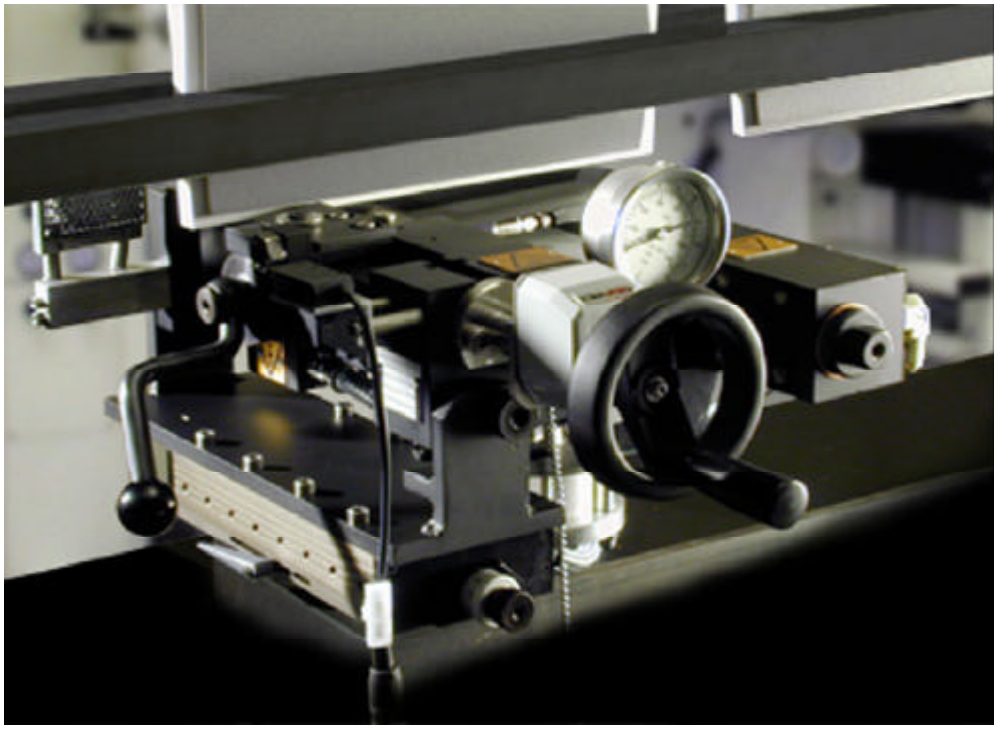
EP 48 V
Bookbinding Application Head

Nordson's EP 48 V hot melt adhesive application system opens new horizons in bookbinding: higher quality adhesive bonding and more production reliability with increased productivity.



Nordson has developed this closed hot melt application system with the application head EP 48 V, designed 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 in regard to product quality, efficiency and production reliability.

The EP 48 V applies the 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 cut-off enable production speeds of up to 15,000 books per hour. Continuous melting of the adhesive means that no time is lost due to drum changes, resulting in increased production time.

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.

The closed system ensures that the adhesive is protected and prevents premature curing. Bubble formation and adhesive foaming - as with wheel applicators - does not occur. 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. Flexible edge guides compensate for inner book thickness deviations. The 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. This system can normally be integrated into the design and control of adhesive bonding without great effort. Integration occurs via a trolley that can be optimally adapted to the specific type of bookbinding machine.*)

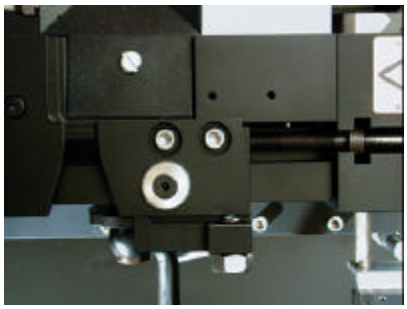
*) When retrofitting, it should be ascertained whether the bookbinder fulfills the requirements in regard to wear and spine processing.

EP 48 V Bookbinding Slot Gun

Features and Benefits

- Closed system for clean adhesive application and minimum cleaning effort.
- Intermittent application with special modules with suction stem function for excellent adhesive cut-off enables production speeds up to 15,000 books per hour.
- Positive adhesive application pressure directly onto spine for good adhesion.
- Optimum process control for reproducible product quality and adhesive savings.
- Gradually adjustable application width for spines up to 60 mm / 2.4 in.
- ChemCoat®* non-stick coating makes cleaning easy.
- Integrated light barrier for recognizing the book length.
- Easy adjustment of head with fine adjustment feature.
- Heated adhesive filter.
- Complete system from one supplier.

* ChemCoat is a registered trademark of Impreglon GmbH.



Spring-mounted edge guide compensates for inner book thickness deviations.



Hand wheel for simple width adjustment.

Specifications

Operating temperature 1)	max. 180 °C / 356 °F
Processable adhesive viscosity	max. 30 000 mPas / cps
Application width	1 - 60 mm / 0.04 - 2.4 in
Heating time	< 30 min
Operating voltage	230 V_{AC}
Power consumption (heater)	body 960 W, filter block 600 W
Temperature sensor	Fe-CuNi
Operating pressure	max. 5 MPa / 50 bar / 725 psi
Weight	approx. 25.4 kg / 56 lb
Dimensions (L x W x H)	343 x 441 x 200 mm / 13.5 x 17.4 x 7.9 in
Degree of protection	IP 50

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

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