The INATEC Nozzle technology

The appropriate coating head for every application

- Dots
- Beads
- Mulitbeads
- Sprayed
- Contour nozzles
- Stamp nozzles
- From smalles up to highes application weights
- Individual solutions
The nozzle is essential.

The applications within the adhesive technology become more and more various. Decisive components herein are the coating nozzles.

INATEC supplies the most suitable solution - either in standard or individual design. Whether in contact or contactless, continuous or intermittent coating of the adhesive INATEC nozzles provide best accuracy and reliability in the production process.

Application patterns are feasible in almost any conceivable design and combination:

- **Dot Application**
  - permanent or in various patterns

- **Continuous Bead Application**
  - Single or multibead

- **Intermittent Bead Application**
  - Single or multibead

- **Sprayed Application**
  - Single or multiple - in various application widths

- **Contour Application**
  - Coating of endless 3D objects

- **Stamp Application**
  - Precisely defined coating patterns with coated and glue free zones

The circulation principle that goes easy on the adhesive

The modules are arranged near to the nozzle, thus allowing the adhesive to circulate in the system while at the same time keeping air out.

In coating pauses also, the adhesive is permanently pumped in circulation between the applicator and the melting unit, and is thereby kept moving. Dead spaces in which the adhesive could age due to heat are minimised, and the preset pressure is always present at the applicator tip.

Deposits in the system, particularly in the expensive heated hoses, are greatly reduced.

Examples of Applicators

- **Dot Applicators**
  - Defined dots are applicable precisely with accurate nozzles and fast shifting valves. Even at high production speeds.

- **Bead Applicators**
  - Beads can be coated in various dimensions concerning length, height and arrangement. Continuous as well as intermittent patterns of single or multiple beads are feasible.
  - Also very narrow bead patterns can be realized. The compact design allows the implementation of the applicators in miscellaneous production processes.

- **Spray Applicators**
  - Especially designed and aligned air ducts asure a precise adhesive application during the spraying process. For example at glue saving or permeable coatings, the INATEC spray applicators are the best choice.

- **Contour Applicators**
  - The coating of endless 3D objects, e.g. wire, bars and tubes, can be realized very accurately with especially designed contour applicators.

- **Stamp Application**
  - The crucial parts of the INATEC stamp applicators are invisible. Effectively laid-out channels inside the applicator guide the required amount of adhesive exactly to the place where it is needed.
For the application of adhesive dot patterns at fast working cycles, the INATEC nozzle technology is the best choice.

Pressure controlled system due to circulating design provides constant dot sizes, even at changing line speeds.

**Applications**
- Cardboard packaging
- Trays
- Fixation of spouts at beverage packages

**Applications**
- Wood processing
- Furniture industry
- Sandwich constructions
- Cardboard packaging
- Trickle-proof packaging
- Production of filters
- Building materials
- Technical textiles
- Hygiene products
- Booklets

Narrow bead patterns can be coated either in contact to the substrate or contactless, continuously or intermittently.

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Sprayed Application

Supported by blow-air and the special design of the nozzle and the air ducts, the adhesive is brought into rotation on its way to the substrate and though applied quite accurately. In addition, heated blow-air prevents the adhesive to be cooled down and insures a good adhesion to the substrate. The result is a permeable pattern with a filament structure.

Applications
- Anti-slip coating
- Pallet fixation
- Shoe production
- Automotive / Transportation
- Foam parts coating
- Lightweight construction

Contour and Stamp Applicators

Quite complex coating patterns can be realized by the individual design of the contour and stamp applicators with their exact alignment to the product’s dimensions and requirements.

Applications
- Identity and credit cards
- Bonding of technical products
- Cable, wire and tube coating
We create individual solutions.

We provide all the know-how and services for adhesive application technology from A to Z.

For almost every area of application, we already have the right solution.
If not, we develop it.

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