automationLine
SOLUTIONS FOR AUTOMATED METERING AND MIXING TECHNOLOGY
Our automated solutions let you integrate mixing and metering applications including all required aftertreatment in an efficient manufacturing process. DOPAG’s portfolio includes both stand-alone solutions and line integration-capable production cells. They include not only the conveying and handling technology required for the application, such as coordinate systems or robots, but also proven dispensing systems from the proven DOPAG range. On top of this, there are peripheral components, such as conveyors, workpiece conditioning, plasma pre-treatment or nozzle position controls and scrapers.

Your advantages

- One-stop solution: one contact person from the planning through the construction right up to serial production
- Reproducible bonding processes
- Remote maintenance
- Professional consulting due to decades of experience in metering and mixing technology
- Dedicated technical center for customer training and testing
- Global distribution and service in more than 35 countries
DOPAG offers a manufacturing cell in three different sizes for automated metering and mixing. Thanks to the modular design the cell can be individually tailored to a variety of applications.

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<th>Cell type 1</th>
<th>Cell type 2</th>
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<tbody>
<tr>
<td><strong>Size (W x D x H), mm</strong></td>
<td>1200x1200x2400</td>
<td>1600x1500x2400</td>
<td>1800x1700x2400</td>
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<tr>
<td><strong>Load carrier dimensions (W x D), mm</strong></td>
<td>800 x 500</td>
<td>1000 x 700</td>
<td>1200 x 900</td>
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<td><strong>Control panel</strong></td>
<td>Self-explanatory user guidance for setting up and controlling the machine</td>
<td>10.1” handheld controller box, 18” control panel as an option</td>
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DOPAG offers a complete inline solution for fully automated implementation of several work steps in sequence. For example, the plasma pre-treatment and adhesive bonding and sealing steps, as well as the joining processes, can be performed in three interconnected cells.

1. Pre-treatment
   - Cleaning, brushing, priming, plasma, gas flame, Pyrosil (based on plasma or gas flame), Corona

2. Metering process
   - Application for single- and multiple-component adhesives and sealants and potting compounds
   - Various robot and coordinate systems, as well as application types (round and triangle beads, spraying, thin layer)
   - Precise adhesive application through a reproducible positioning of the applications needle

3. Joining technology
   - Manual, semi-automatic or fully automatic systems depending on the degree of automation
   - Joining of components and logging
   - Application of adhesive pads or hotmelts, to keep the components handling capable until the adhesive cures
   - Integration of joining technologies: Hot embossing, clinching, driving
   - Part feeding by transfer systems, rotary indexing tables or sorting pots
   - Preparation of workpieces in workpiece carriers
   - Describing and documenting the processing state of the workpieces in the carrier

4. After the metering process
   - Curing systems: Infrared, ultraviolet (UV), medium frequency technology, continuous furnaces, buffer sections
   - Quality assurance: Volumetric measuring systems, verification of material application (position and quality), component quality assurance and measuring
   - Process data archiving, process visualization: Data carriers (USB, flashcard), network, SCADA systems
No compromises
Custom equipment

Highly specialised processes cannot always be covered by existing production concepts. Often, individual solutions are required. We are your competent, qualified contact for building custom equipment. DOPAG develops customer solutions that are tailored precisely to the application. The planning, design and commissioning of the automated metering and mixing system takes place in close collaboration with the customer. After all, a system tailored precisely to customer requirements ensures trouble-free production and contributes towards business success.
Proven and reliable
High-precision equipment for the metering and mixing process

vectodis / vectomix

With vectodis and vectomix, DOPAG has developed two product lines for processing low- to high-viscosity and even abrasive materials. Vectodis and vectomix are used wherever the media need to be metered in a highly dynamic and precise manner. Both systems are equipped with piston metering technology.

eldomix

The eldomix is a compact, gear metering system. It is used to process low- to medium-viscosity multi-component media on the basis of, e.g., epoxide, polyurethane or silicone at mixing ratios from 100:100 to 100:5. Special configurations for processing highly viscous media are also possible.
DOPAG is one of the leading manufacturers of metering and mixing technology. In numerous industries, DOPAG systems and components are used for processing and application of multi-component polymers or 1-component media such as adhesives, greases and oils. The company employs more than 300 people and is represented in more than 30 countries by its subsidiaries and distributors.

DOPAG is a member of the HILGER & KERN GROUP that has been a reliable supplier and service partner for industrial enterprises across various market segments for more than 90 years.

Worldwide sales and service

Please find your local DOPAG contact here: www.dopag.com/contacts