



A MEMBER OF THE
HILGER&KERN GROUP

automationLine

SOLUTIONS FOR AUTOMATED
METERING AND MIXING TECHNOLOGY





We understand the challenge

Excellent performance in your manufacturing processes

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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 benefits

- Everything from a single source: One contact person will support you from the planning stage through design to series production.
- Competent advice based on decades of experience in dosing and mixing technology
- Precise and reproducible results
- Material handling, pre-treatment and application are carried out in one step and without any user influence.
- Documentation-capable production of safety-relevant components
- Integration of safety technology
- Remote maintenance
- Own technical centre for customer training and trials
- Global sales and service network



Multifunctional cell

Robot-aided metering, mixing and application of adhesives, sealants and potting compounds, greasing or oiling

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In automated production processes, high process reliability, convenient handling and high flexibility are required. The compact multifunctional cell from DOPAG meets these exact requirements. It is suitable for the metering and application of all standard single and dual-component materials on a wide range of components.

- Independent robot system for integration of all standard application systems (DOPAG or external metering technology)
- Process technology can be integrated for pretreatment and post-treatment of components (e.g. plasma pre-treatment of curing systems)
- Preinstalled software tools for rail and pallet applications
- Easy to use: no robot programming knowledge is required to set up a new product.
A total of 20 programmes can be stored.
- Can be used as a compact unit suitable for transportation on lorries, cranes or fork lifts.
- The multifunctional cell ensures consistently high product quality and improves the efficiency of your production processes.
- Holder for goods transportation: 600 mm x 600 mm
- External dimensions: 1,200 x 1600 x 2,300 mm



Benefits of pre-programmed rail and pallet applications

Software tool rail applications

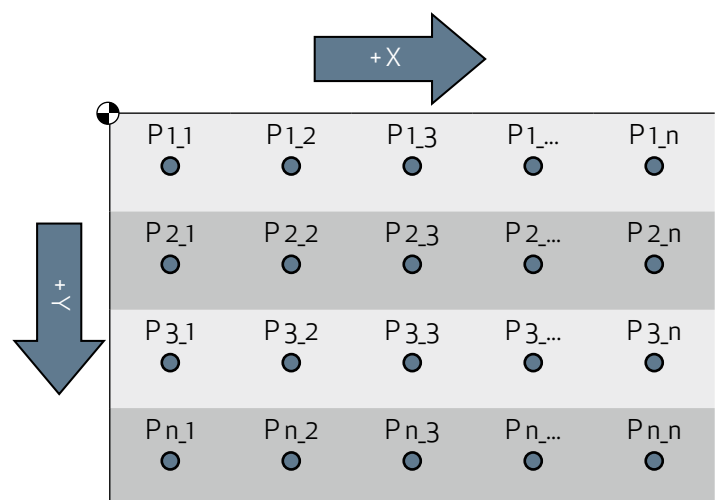
- This function can be used to define simple contours for a rail application.
- The points are entered in a table and approached one after another without stopping.
- For each point, it can be defined whether the metering should start or stop.
- A total of 20 programmes can be stored.
- 50 points can be stored per programme. The details are entered in a table.
- If this functionality is not sufficient for an application, robot programmes can also be programmed with the robot's complete set of commands, selectable via parameters.

Software tool pallet applications

- This function is used to move vertically to positions in the working area, such as for potting components.
- The points entered in the table are approached one after another.
- The X/Y position is first approached above the components, then the infeed takes place at the height configured (Z).
- The robot stop once it reaches the position.
- The application is carried out, possibly in two levels.
- After the application, the robot returns to the X/Y traversing plane in Z direction (height).

Table for entering positions for the robot – Extract of setting options

#	R	C	X mm	Y mm	Z mm	V ccm
1	1	1	10	10	25	23
2	1	2	30	10	25	22
3	1	3	50	10	25	21
...
n	n	n	n	n	n	n



Custom-built dispensing systems for automated metering and mixing

Solutions for multi-stage manufacturing processes

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Metered application of fluids is increasingly becoming part of automated manufacturing processes. As a result, no dosing unit concept would be complete without the integration of all the necessary procedures for the pre and aftertreatment of components, quality assurance measures and conveying and handling technology. As a dosing technology producer and

designer of customised solutions for automated gluing, sealing and potting, DOPAG is a place that offers the full package from a single source. Only a system that is precisely tailored to the application requirements ensures a smooth production and contributes to overall business success.



Proven and reliable

High-precision equipment for the metering and mixing process

vectodis / vectomix

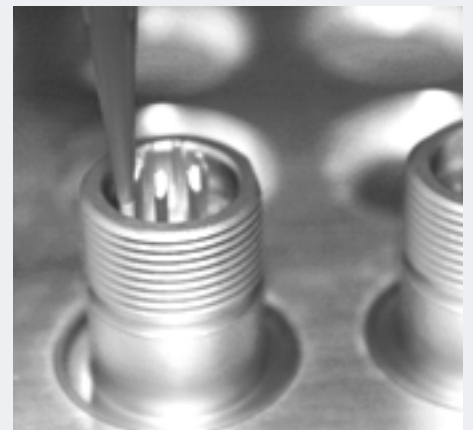
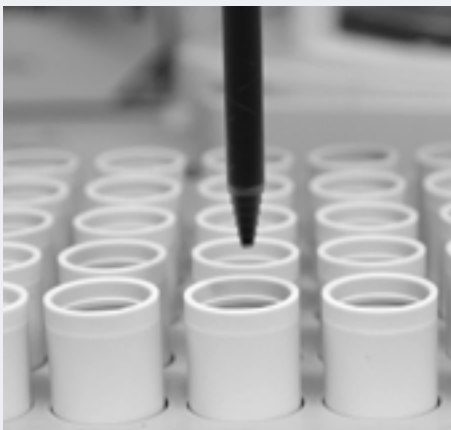
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With vectodis and vectomix, DOPAG has developed two product lines for processing low- to high-viscosity and even abrasive materials. Vectodis and vectomix are used wherever the media need to be metered in a highly dynamic and precise manner. Both systems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

eldomix

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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.





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We are one of the world's most experienced manufacturers of high-quality metering technology. Wherever adhesives, resins, silicones or lubricants are metered and applied in industrial production, we offer reliable, precise solutions. We provide systems and components for highly automated production processes, including for the automotive, wind, household appliances and electrical industries, as well as for aviation.

DOPAG is part of the HILGER & KERN GROUP, a reliable supplier and a development and service partner to industrial companies in a variety of market segments for almost 100 years. The group employs around 350 people and has subsidiaries and distributors in more than 40 countries.



Global sales and service network

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