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**HILGER&KERN** GROUP

## **coredis**

**FOR THE MASS PRODUCTION OF  
AIRCRAFT INTERIOR EQUIPMENT**



# A unique solution for the mass production of aircraft interior equipment

## DOPAG systems in action

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In cooperation with coredis, DOPAG has developed a product for the processing of paste-like core fillers. This metering system is the result of intense cooperations with aircraft manufacturers, their suppliers as well as material producers. As the market leader in metering and mixing technology in the aerospace industry, DOPAG succeeded in developing a metering system that ensures the highest



degree of reproducible quality and employee safety. For the first time, the integration into automation solutions allows for a fully automated mass production of honeycomb sandwich panels for aircraft interior equipment.

## Properties and benefits

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- Up to 30% lower material consumption compared to manual processing
  - Very low hazard potential, since the employees are not subjected to vapors and have no material contact
  - Specially adapted pump construction for maintaining the low material density
  - Infinitely variable metering from 50ml/min to 300ml/min (depending on the outlet nozzle and dimensions of the honeycomb)
  - Application-specific outlet nozzles available
  - Frame with boom for hose attachment to provide a better component accessibility
  - Heated metering unit
  - Touch display to ensure an easy operation of the system
  - Very easy and quick dismantling of material contacting parts which may be stored in the cold storage
  - Very low cleaning effort due to deep-freeze storage
  - Various materials can be processed by simply expanding the system
  - Highly precise application due to automation





Coredis is used for the processing of especially light low-density 1K epoxies filled with micro hollow spheres. The special challenge in this case is that we are dealing with a reactive medium which remains in the material contacting systems after processing and could be subjected to a curing reaction. In order to prevent this, coredis features a specially developed structure.

The material is supplied directly from the delivery container and the metering is carried out by means of a gear pump mounted on a heated follower plate. The material is guided through the connected heater hose to the dispensing nozzle which continuously fills the core filler into the honeycombs.

In case of production interruptions, all material contacting parts including the container can be dismantled in a few minutes and stored in a cold storage. Thus, no cleaning is required. If the production is restarted, the application can be resumed due to the heated components.

This unique structure allows for the first time the continuous as well as precise metering of 1K core fillers and has the advantage that, after a simple expansion of the system, various materials can be processed on the same system.

<b>Flow rate</b>	50 ml/min to 300ml/min (depending on the outlet nozzle and dimensions of the honeycomb)
<b>Temperature</b>	RT up to 50°C
<b>Working pressure</b>	50 bar
<b>Material supply</b>	Gear pump mounted on a follower plate
<b>Viscosity range</b>	Medium to high viscosity
<b>Material characteristics</b>	Pasty, with low density
<b>Maximum air inlet pressure</b>	6 bar
<b>Dimensions (without boom)</b>	1,100 x 1,000 x 2,400 mm
<b>Weight</b>	approx. 350 kg



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**HILGER&KERN**GROUP

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.



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