

Light-weight for precision paint application

Extremely low weight, improved productivity and increased service life – Oerlikon Barmag’s new GP451C paint metering pump was developed especially for increasingly compact robot arms deployed in painting systems. As a result, the pump enables efficient, high-precision paint application in automobile production, in the aerospace industry and in the manufacture of components for generating renewable energy, for example.

Long service life combined with huge flexibility

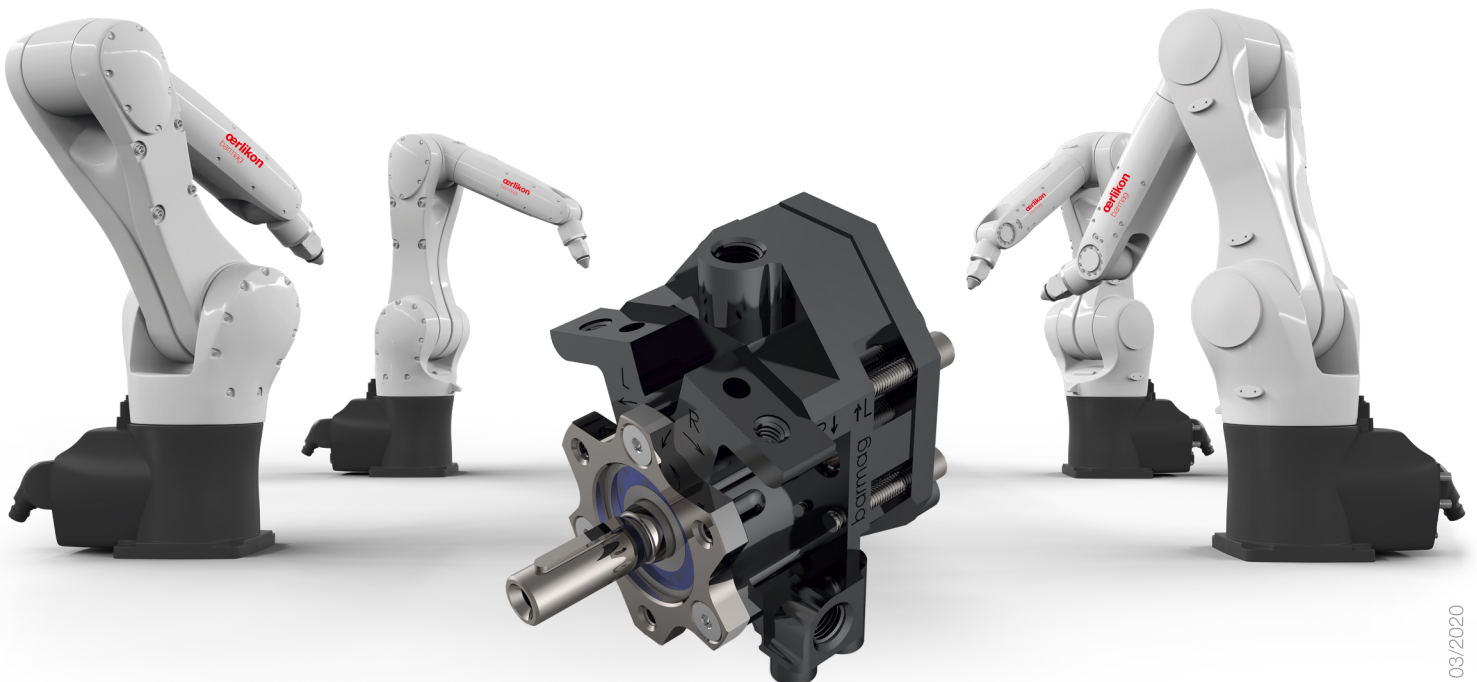
Coming in at less than 1,000g considerably reduces the wear on the arms of the painting robots used. The weight of the pump can be additionally reduced if it is produced by means of additive manufacturing. Furthermore, this innovative technology permits total design freedom when adapting the pump to the production system’s periphery.

The pump has a wide speed range of between 20 and 240 rpm, hence covering a large application area, which means that manufacturers do not have to deploy several pumps of varying sizes. This simultaneously saves them time and costs for product conversion, logistics and parts inventories.

The DLC wear-protection layer and the use of ball bearings considerably increase the pump’s service life. Furthermore, the pump is clearance volume-optimized in design, which dramatically shortens the required purging and product conversion times, hence helping to increase productivity.

Highlights:

- Weight-optimized
- Increased setting range
- Longer service life
- Low-maintenance shaft sealing



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