



Smart Pump Management.

To extend the lifetime of hydraulic components.

Customer Service.
Die Casting.

Extending the lifetime of the Hydraulic System.

Our new smart pump management system for Carat machines uses proportional valve technology to extend the lifetime of the hydraulic system, and to achieve higher availability with lower maintenance costs. The smart pump management system is made up of an additional hydraulic block with integrated proportional valve technology, electrical connection cables, and a smart software package which ensures an optimized pressure gradient in our Carat machine hydraulic system.

Users also report that the Carat machine's entire hydraulic system has higher availability and an extended lifetime, which stabilizes production and further increases productivity.

Conversion time.

- The Smart Pump Management system is installed on site
- The conversion time is 3 - 4 hours.

Warranty.

12 months, starting from delivery

Overview of benefits:

- **Extended service life for hydraulic components** (pumps, hoses, proportional and standard valves, hydraulic blocks and sealing systems)
- **Greater profitability and efficiency** (lower overall operating costs) due to higher availability and lower maintenance and spare parts costs
- **Increase in productivity** due to hydraulic components having lower downtimes, and due to higher availability with lower maintenance costs

Assembly.

Must be carried out by Bühler service technicians. The work to be carried out includes the integration of a hydraulic auxiliary block including proportional valves, electrical conversions, and the performance of a software update.

Delivery Time.

As a retrofit, around two weeks after receipt of order for Carat machines built between 2007 and March 2018.

For Carat machines built from April 2018 onwards, the smart pump management system is already installed when the machine is delivered.

Bühler AG

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