

Inspection of your Bühler die-casting machine.

Available for Carat 105-440.



Optimizing your die-casting machine.

Inspection of your Bühler die-casting machine to ensure higher machine uptime.

To fulfill productivity expectations, die-casting systems must work smoothly. Usage is associated with wear. Early detection of potential sources of trouble and their elimination are crucial aspects for ensuring high system uptime.

Our inspections take this requirement into account. With the extensive program of condition and performance checks the following points are covered: Checks of the mechanical, hydraulic and electric system, safety checks of personal protection devices.

Benefits for your foundry

- **Higher reliability** — prevent wear and sources of errors
- **Quality** — through checking and adjustment of the machine parameters, ensure the quality of your castings
- **Increase in efficiency** — plan maintenance through systematic logging of the machine's history

Inspection of your Carat 105-440.

Check of the following points	3000h Inspection	6000h Inspection
Drive unit:		
Check drive motor, heat exchanger, pumps, pressure sensors, partial-flow filters, limit switches	✓	✓
Machine base:		
Check horizontal fastening elements, filter elements	✓	✓
Check leveling elements, leveling of the machine		✓
Closing unit:		
Check scraper rings tie bars, scraper slide shoes, height of the slide shoes, sliding band	✓	✓
Check tie bar grooves, automatic tie-bar pulling	✓	✓
Check die closing cylinder for tightness	✓	✓
Check ejector	✓	✓
Check clamping cylinder for tightness		✓
Check central lubrication system		✓
Check die clamping system		✓
Injection unit:		
Check plunger sealing, accumulator and intensifier, steady valve	✓	✓
Further points:		
Check of protective devices: Emergency stops, anti-trap devices, protective devices	✓	✓
Check of operation: Filter mat and parts at the operator station	✓	✓
Check control: Filter mat cooling device, condensation drain	✓	✓
Check electrical installation: Cables, plugs, limit switches		✓
Further information:		
Minimal downtime of the machine during inspection (in working hours), depends upon on-site conditions	12	24
Written report on the condition of the machine and a list of actions	✓	✓

The inspection is performed by a Bühler service engineer.
For die-casting machines with locking forces in excess of 18,000 kN, two service engineers are needed.

The machine must be in a condition ready for casting.

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