



Bühler Services
Partnering for better outcomes

Die Casting inspections

Ensure optimum productivity

Customer Service Die Casting

To fulfill productivity expectations, die-casting systems must work smoothly.

An early detection of potential sources of trouble and their elimination are crucial aspects for ensuring high system uptime.

With the inspections performed by experienced service engineers around the globe, potential defects can be identified and therefore the highest performance of your die-casting machine is ensured.

Benefits for your foundry



Profitability: Making our expertise work for you – profit from the experience of our service team



Productivity: Avoid costly interruptions and time-consuming repair works by identifying errors up front



Capacity: Profit from an optimal output due to regular performance checks



All inspections are digitally documented and the results are available for you, e.g. on your myBühler platform or as digital report

Scope of service

The initial inspection focuses on functions and performance of essential components of your die-casting machine. The main inspection is focused on wear and tear components. To protect your die-casting machine, we recommend doing both an initial inspection and a main inspection.

	Initial Inspection	Main Inspection
Drive unit		
Pressure transducers control block and pressure release valve	✓	
Internal die-casting machine leakage test	✓	
Partial flow filter, high pressure filter, and shut-off faucets		✓
Hydraulic fluid cooling system		✓
Machine base		
Tank ventilation filter	✓	
Leveling and horizontal fastening elements		✓
Closing unit		
Tie bar pulling device	✓	
Closing cylinder	✓	
Toggle system or clamping cylinder tightness (Carat)		✓
Scrapers of sliding shoes and tie bars		✓
Slit nuts, tie bars, and tie bar lock		✓
Central lubrication system		✓
Injection unit		
Nitrogen pressure vessels	✓	
Pressure transducers	✓	
Injection unit valves tests	✓	
Injection cylinder tightness	✓	
Membrane accumulator		✓
Manual injection cylinder alignment check		✓
Safety system		
Safety fences, doors, and anti-trap devices	✓	
Electrical installations, operator and controller		
Operating and display elements	✓	
Control cabinets and cooling devices		✓
Further information		
Minimal downtime of the machine during inspection (in working hours), depends upon on-site conditions	<6	~12
Report and detailed list of findings and maintenance proposals	✓	✓

For die-casting machines with locking forces larger than 18,000 kN, two service engineers are needed for the main inspection.

Inspections are the base for each comprehensive Total Care service agreement. To get an individual offer based on your needs, reach out to your Bühler contact person or contact us on dc.support@buhlergroup.com

Bühler AG

CH-9240 Uzwil, Switzerland
T +41 71 955 11 11

die-casting@buhlergroup.com
buhlergroup.com/die-casting

