Inspection flyer en 0322 Z&B 220920

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.

Our inspections services performed by experienced service engineers around the globe, identify potential defects, to ensure the highest performance of your die-casting machine. A detailed report provides an overview of the state of mechanical, hydraulic, and electric systems as well as your safety devices as basis for your maintenance crew.

Benefits for your foundry:

- Making our expertise work for you – profit from the experience of our service team
- Avoid costly interruptions and time-consuming repair works by identifying errors before they occur
- 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 every year.

	Initial Inspection	Main Inspection
Drive unit		
Pressure transducers control block & pressure release valve	•	
Internal die-casting machine leakage test	•	
Partial flow filter, high pressure filter & shut-off faucets		•
Hydraulic fluid cooling system		•
Machine base		
Tank ventilation filter	•	
Leveling & horizontal fastening elements		•
Closing unit		
Tie bar pulling device	•	
Closing cylinder	•	
Toggle system or clamping cylinder tightness (Carat)		•
Scrapers of sliding shoes & tie bars		•
Slit nuts, tie bars & 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 & anti trap devices	•	
Electrical installations, operator & controller		
Operating and display elements	•	
Control cabinets & 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 TotalCare 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
buhlergroup.com/die-casting

T +41 71 955 11 11
F +41 71 955 66 11

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