



**Bühler Insights
Predictive Analytics.**
To help you increase OEE of your Carat.

Optimization to reduce downtime.

The Digital Service Predictive Analytics optimizes production planning and operational costs with prognostic data that enables well-planned production and maintenance cycles.

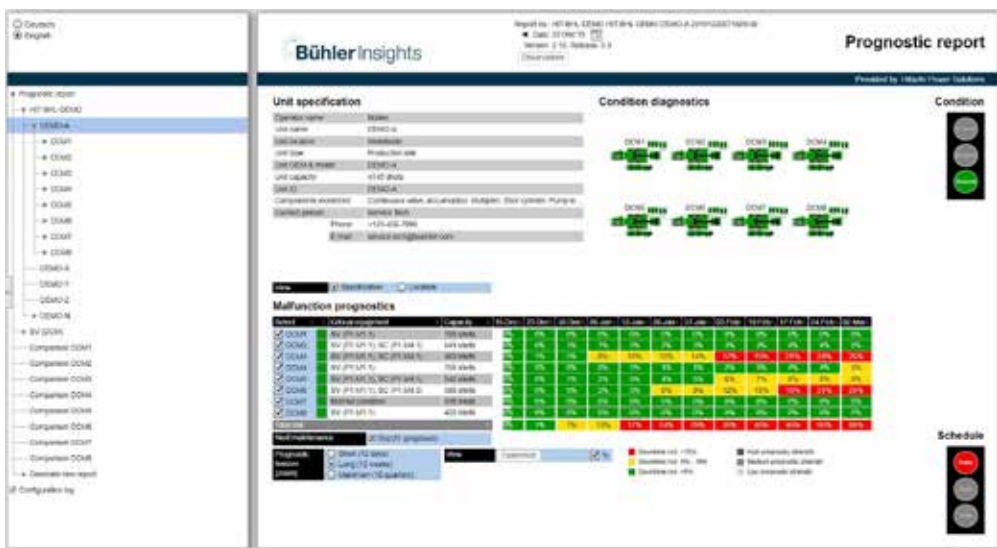
Data from critical processes – including steady valves, injection cylinder, accumulator, and pressure multiplier – is collected via sensors, the control unit, and the cell management system of your machine.

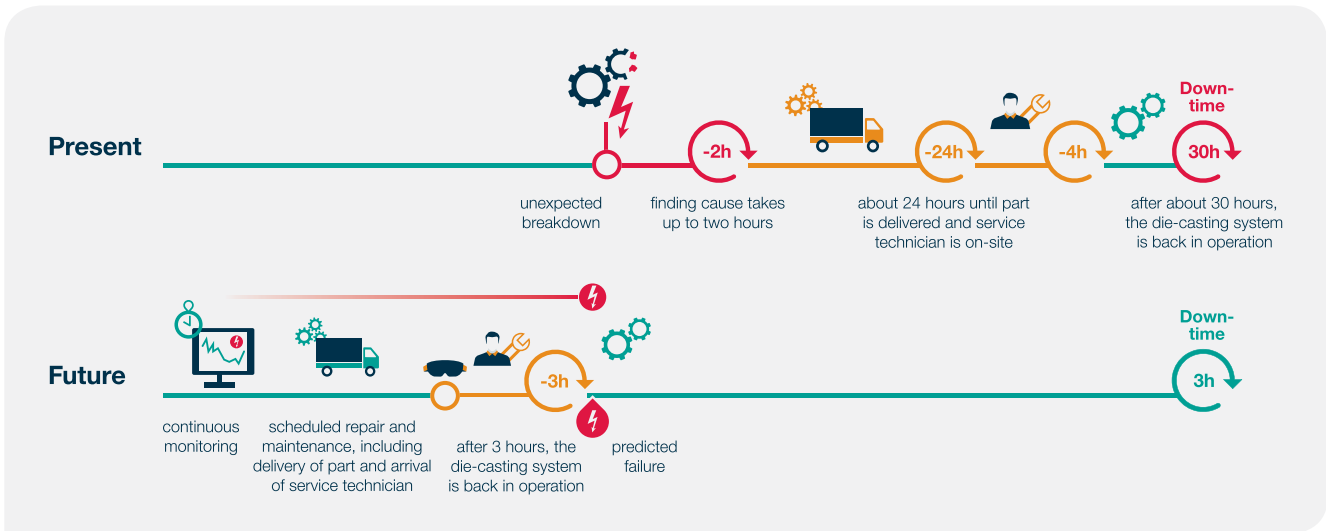
Predictive Analytics identifies patterns in the data, detects anomalies and provides calculated predictions for future issues.

Benefits for your foundry

- **Increased OEE** with predictive maintenance
- **Efficiency** – predict potential problems and optimize production and maintenance plans
- Ensure **consistent performance** of your production
- **Quality** – avoid recalls and reduce scrap

Using our deep process know-how, your machine data is also compared with a cloud-based databank to detect deviations in working conditions and to identify potential problems before they become costly interruptions or failures.





Minimized unscheduled downtime.

Based on our unique algorithms for Bühler die-casting machines, Predictive Analytics generates prognostic foresights more than just insights, giving you an edge in both technical and commercial decisions.

The automated, industry-based learning process enhances the prognostic strength and horizon of availability forecasts. Forecasts therefore improve with increased time of connectivity, constantly improving quality and efficiency.

Technical know-how and data science, combined.

With both best-practice engineering knowledge and mathematical techniques, this solution presents concise and decision-oriented reports. Based on the Remaining Useful Life (RUL) of the components, actionable suggestions will also be provided, making production planning more efficient.

Secure data handling.

All of your data is encrypted before being transferred and stored securely in our Bühler Insights cloud environment. This not only helps data protection, but also gives a reliable, scalable, and standardized process.

80%

Critical parts in injection covered

95%

Accuracy of prediction



Cutting-edge engineering intelligence with an algorithm that adapts through self-learning



Data encryption and secure cloud infrastructure with Bühler Insights cloud

Prerequisite: Your machine should have Bühler Insights gateway, internet access, and DataView / DataNet (Singlemaster).

Lead time: If you have a Bühler Insights connected foundry, Predictive Analytics can be connected within one day. For a foundry that is not connected to Bühler Insights, delivery time upon request.

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