

### Connectivity solution to connect all machines and drive efficiency and sustainability

Machine data is the foundation for all technologies and data-driven decision-making. Thus, a connectivity solution must connect all machines on the shop floor and turn signals into meaning. These insights support manufacturers to produce more sustainably, efficiently, and resiliently.

### Challenges

- Along the way to data-driven manufacturing, companies face the challenge of accessing machine data due to the heterogeneous landscape of machines on the shop floor. These machines speak a wide range of communication protocols, and then there are the legacy assets which were never intended for digitization. All these factors complicate machine connectivity and delay roll-outs.
- The lack of machine connectivity prevents full transparency on the shop floor and complicates decision-making. Incomplete data is unreliable for concrete decision-making. This also refers to the manual collection of performance indicators, which are always under the influence of the individual.
- Proprietary developments and lack of standardization prevent transparency beyond one production site. It aggravates a company-wide performance making analysis impossible. Furthermore, in-house developed systems require high maintenance and prevent new developments from being integrated smoothly.

### Features of FORCAM FORCE EDGE

FORCAM supports manufacturers towards data-driven manufacturing and accelerates sustainability initiatives.

- **Machine connectivity** for all machines and a machine repository that accelerates rollouts.
- **Bidirectional communication** enables data exchange between the FORCAM FORCE EDGE and SAP DMC and Manufacturing Suite. Thus, the solution enhances the analytical capability of the SAP DMC and Manufacturing Suite by providing an essential data basis of the shop floor. It includes real-time machine data such as status reports, warnings, quantities, process data, energy, and other consumptions. The FORCAM FORCE EDGE is the link to the machines, whereby ERP/PP/Material Data can be sent directly to the machines via SAP DMC and Manufacturing Suite.
- **Live monitoring, traceability and sustainability scenarios** in the SAP DMC and Manufacturing Suite through the necessary data basis.



# Industry Cloud Partner Solution | Discrete Manufacturing | Solution Summary

## FORCAM FORCE EDGE



### Benefits of FORCAM FORCE EDGE

Manufacturers receive a connectivity solution that efficiently connects all their machines regardless of age or interface — even machines that were never meant to be digitized. Signals are standardized, recorded, and stored on the edge for quick and easy processing across all systems. Thereby, manufacturers receive transparency into their shop floor with accurate and real-time data in their SAP DMC and Manufacturing Suite. It enables data-driven decision-making and controlling the shop floor from the top floor.

Having actual data helps manufacturers to ensure efficient use of resources and to drive sustainability.

- Martin Strehl, Lean Management Coordinator, BorgWarner “The FORCAM energy monitoring supports our energy management system sustainably. Every energetic measure on the shopfloor is permanently monitored and checked for cost savings. Hence, we have our energy consumption under control in the long term and we can call the data real-time at any point in time.”

### Learn More

[FORCAM FORCE EDGE](#) solution available on SAP Store.



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