



MES System

ERP System



Customer system

OPC UA

Standardized communication interface

Provision of Bihler machine information via OPC UA

OPC UA

OPC UA stands for "Open Platform Communications Unified Architecture". With the standardized, secure M2M communication protocol, machine data can be read out and processed. In addition, data can be sent to the machine.

Bihler OPC UA Interface

The OPC UA server provides data such as order data, quantities or error messages in accordance with the Bihler OPC UA specifications. The customer software (MES, ERP, etc.) requires an OPC UA client to read out the machine data.



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Features of interface

Data	VC 1	VC 1E	BC R
Machine status (machine type, clutch on, ...)	✓	✓	✓
Order management (material, product name, ...)	✓		
Messages (activity/error messages, ...)	✓	✓	✓
Dynamic values (good/bad parts counter, status, ...)	✓	✓	✓
Measuring data	✓		

Customer use

The specified VC 1 machine data can be read and in part also written via the Bihler OPC UA server. The OPC UA interface needed for this purpose is available in many standard MES or ERP systems. If customers use their own software, they must program and integrate the OPC UA client themselves.

Advantages of OPC UA in industrial automation

- Transparent and platform-neutral architecture for industrial communication
- Standardization guarantees a high degree of secure interoperability between different applications and manufacturers
- Architecture is flexible, future-proof and expandable
- Applications are easy to configure and operate
- Uniform interfaces for easy access to applications and data

