GF Machining Solutions

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OPC UA is where it starts

The interface for your connected factory and a key enabler for Industrial Internet of Things (IIoT)

OPC UA

Cross-technology OPC UA interface

One connectivity solution for all GF Machining Solutions technologies

Open Platform Communications (OPC) Unified Architecture (UA) communication is available for all new GF Machining Solutions machine tools. This is a first in cross-technology communication and enables seamless data exchange between our products and your shop floor environment. Using OPC UA and its plug-and-play capabilities makes it simplier than ever to connect your GF Machining Solutions machines to existing enterprise resource planning (ERP) systems and manufacturing execution systems (MES). Start collecting and assembling your personalized key performance indicator (KPI) measurements today with the refined machine state data provided by **GF Machining Solutions' OPC UA Interface Version 1.0.**

Your office

Your applications with OPC UA client:

- Production monitoring
- KPI analysis Dashboard
- Maintenance management
- Traceability
- Process visualization
- Messenger Pro mobile data access

AES encrypted communication data
(advanced encryption standard)

Your intranet

Intranet

OPC UA server

OPC UA · OPC UA · OPC UA · OPC UA · OPC UA · OPC UA

Your shop floor
GF Machining Solutions technologies

Benefits

- Ensure interoperability between equipment and processes
- Centralized data collection for easier analysis
- Plug-and-play open architecture
- One language on a structured data set allows for reliable reports
- Vendor-independent solution
- Scalability with data modeling delivers data, conditions, alarms, historical machine data, and programs
- Safety and security of all data due to access granted with user and password

Value

- Easily reduce cost of integration
- Improve machine analysis with the same language and structured data
- Ease integration to Dashboard, MES and ERP
- Simplify centralization of data and messages for small Dashboard and bigger MES systems
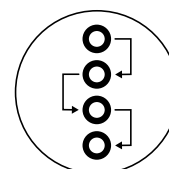- Get quick return on investment (ROI) due to improved analysis

Common use cases
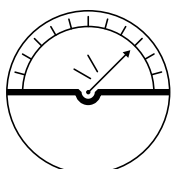
Case 1
Create KPI measurements:
OPC UA machine states are compliant with ISO 22400 time model for work units
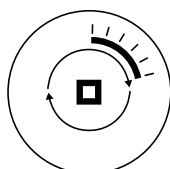
Case 2
Measure production lead times

Case 3
Feed custom dashboards

259.806.832

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