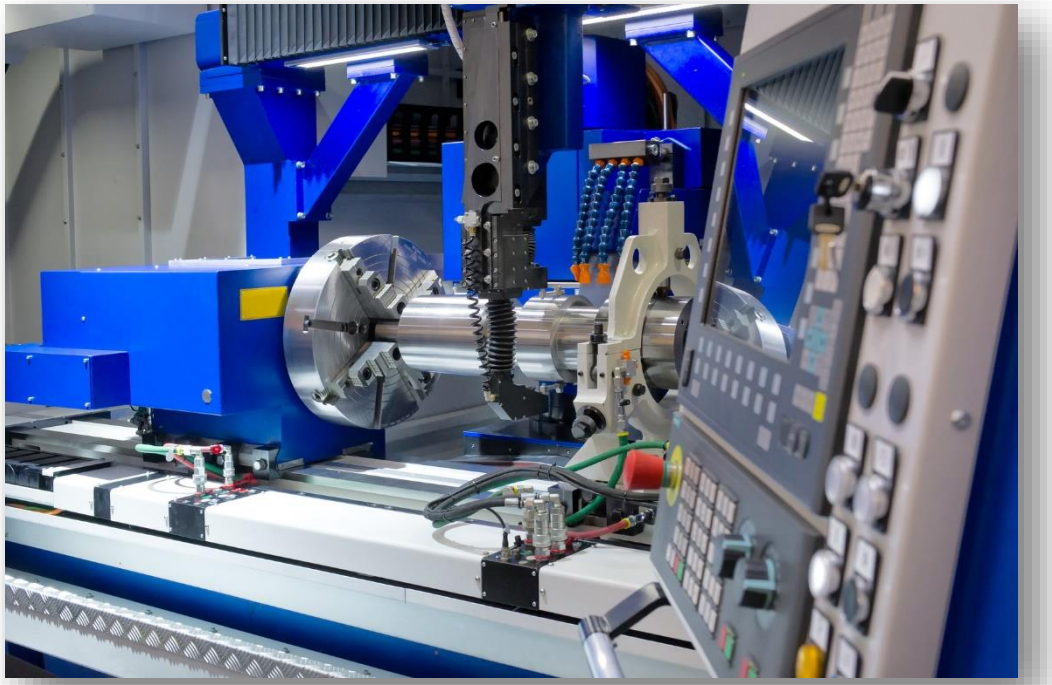
Machine data acquisition at cement plants

KHD Humboldt Wedag International AG
KHD is a leading global provider of technology, equipment and services for cement plants.

Challenge:
Worldwide monitoring of cement plants and Plant visualization with service data

Customer benefits:
- Protection against manipulation, saving travel times and costs.
- Time saving in service through reports.
- Acquisition of a wide variety of sensor data brings strong benefits in quality assurance.

Parameters monitoring in the production of extruded aluminum profiles



The company produces extruded aluminum profiles. The determination of quantities and the proportion of good parts and non-good parts were previously associated with a high level of manual effort.

Challenge:

The necessary parameters were present in the machine controls, but were not used. The customer was looking for a simple, inexpensive retrofit system that was immediately compatible with PSI Penta with little effort.

Customer benefits:

Using the MEP®DataRecorder and the appropriate OPC server, the required information could be obtained very quickly from the PLCs. As a result, the reject rate was significantly reduced and seamless monitoring of production was made possible.

Production control center for high quality ceramic products

The company is one of the oldest and most traditional tile manufacturers in Germany.

Challenge:

There were significant difficulties in identifying trends in product and manufacturing quality. The causes of quality fluctuations remained though in the bent.

Customer benefits:

With a production control center, where all parameters and actual values are stored, deviations from target specifications can be recognized immediately and problems in production can be tracked and their causes eliminated immediately.

Tool management for diesel injection systems

Ein Hersteller von Dieseleinspritzpumpen möchte die unterschiedlichen Standzeiten von Werkzeugen analysieren und die Ursachen hierfür ergründen.

Challenge:
The information about the tool consumption obtained via the MEP®SmartDevice is to be used to predict the remaining service life of the respective milling tool (predictive analytics).

Customer benefits:
A data model for the prediction was defined by analyzing the tool life and the possible influencing factors.
This enabled the procurement process to be streamlined and significant cost savings to be achieved.

Optimization of blade production for gas turbines

The customer is an OEM company that specializes in the manufacture of blades for gas turbines.

Challenge:

The OEM has set itself a major goal: to reduce the time it takes to manufacture the work and the workload required for each turbine by 33%.

Customer benefits:

- The modular structure of the MEP®SmartDevice made it possible to network a wide variety of machine types, measuring devices and logistics systems.
- All information is stored and analyzed using BigData technologies.

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