



Hof (visitable at short notice)

# DIGITAL PRODUCTION WORKSTATION

Application for the manufacturing industry - integrated digital support for handling a production order with connection to existing systems

## CURRENT SITUATION

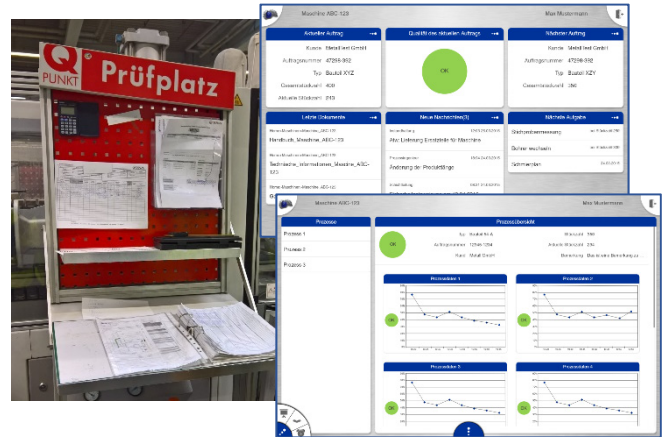
In the production departments of many companies and depending on the MES and ERP systems used, information is exchanged on paper between the machine hall and upstream or downstream units. Production orders are printed out and collected by the machine operator. Parameters for tool-specific machine settings as well as testing and inspection instructions are also often on paper. Feedback on the pieces produced as well as on scrap and quality is often given in the same way.

## PROJECT DESCRIPTION

Digital production workstations take proven technologies from the office environment, add context-sensitive resources and use them in production. Production orders reach the machine digitally on a rugged tablet. The required machine settings are provided proactively. Digital feedback can be given. Measurement results from sliding calipers are transmitted by Bluetooth to simplify the feedback process. Inspection instructions are also available in digital form and are displayed for specific products. Individual machines with corresponding interfaces give fully automatic feedback. A dashboard shows the process control room the status of all machines.

## CONTACT

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## PARTNERS



Application development & usability engineering



Provision of the test environment & application partner



Machine connection & integration



Project idea, process analysis & change management

## POSSIBLE APPLICATIONS

The result is a highly modular mixture of SCADA and a manufacturing execution system (MES), which integrates itself to optimum effect into the application partner's existing system landscape and, through the consistent use of standards, can be incorporated with little effort into the IT system of new application partners. The use of modern Web technologies ensures the system can run on a wide range of terminal devices.

The user interface is consistently aligned to the needs of the end user and can therefore be understood and used efficiently by users with little experience of computers without the need for a lengthy familiarization period. Employees were actively involved in the change process from an early stage.

## INDUSTRIE 4.0 – FEATURES

Mobile assistance systems for role and context-specific provision of information (integration of a number of information systems). Connection of existing machines.

## STANDARDIZATION APPROACHES

The following standards are used:  
OPC-UA, Euromap 77, CMIS, OpenID connect, Web Components, RESTful Webservices