

# HYDRA

## Smart MES Applications

MES  
Products

Mobile and web-based apps for  
Manufacturing Execution Systems!



# MOTIVATION



**Data collection**

Item	Status
60610 - Engel speed 280 / 55	PRODUKTION
60611 - Arthur Sologica 2005	
60612 - Arthur Sologica 2005	
60614 - Arthur C'ologica 270C	
60621 - Krauss Maffei	

**Status**

Status: PRODUKTION  
Status since: 13.05.2017 17:27:49  
Duration on file: 341:41:19  
Expected end: --  
Production lock: N

**Order**

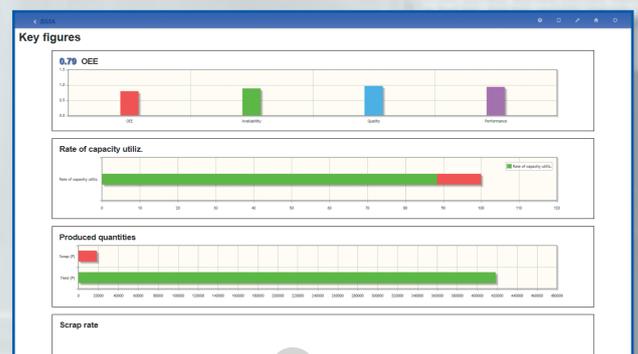
Article: SAR-FMO011-K-1012  
Article description: Spritzgehäuse rech.His. zifronen-geb.  
MCO order number: M80MPC010100  
Question designation: Spritzgrößen

**Workplace master data**

Comp.: 01  
Cost center: 4010  
Group: SGAZ

**Functions**

- Order
- Log operation on
- Log on operation and person
- Partial confirmation
- RCO comments
- Internal operation
- Log operation off
- Log person on
- Log person off
- Operator logged on
- Staff logged on
- Inspector result
- Workplace structure
- Release
- Release

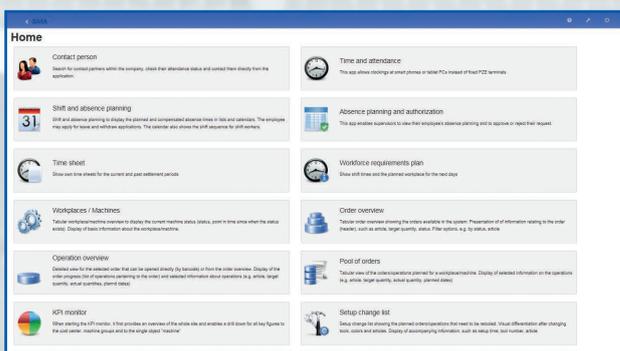




## Mobility and flexibility

In modern production, supporting local IT systems such as a Manufacturing Execution System (MES) are a must, and should be as discreet as possible. A perfect MES integrates seamlessly into production processes, and isn't perceived as an additional burden, but rather as an effective tool in overcoming daily challenges. The classic, stationary MES shop floor terminal cannot offer this kind of comprehensive support on its own. Additionally, flexible and mobile solutions for data collection, visualization and evaluation are required, which is why Smart MES Applications (SMA) were designed to provide these additional features.

SMA provides a user with flexible, mobile access to MES HYDRA and can be used on any smartphone, tablet, or web browser. Thanks to it being intelligently designed, the interface scales with the device's display, so the information that's presented is always well suited to the device that it's being viewed on.

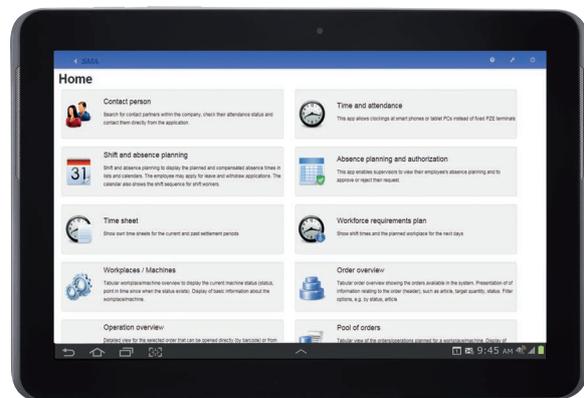
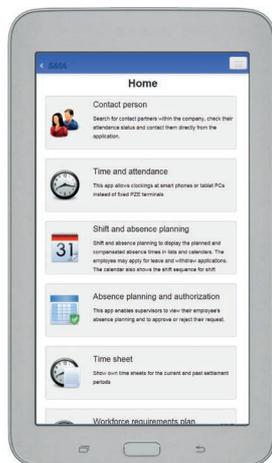


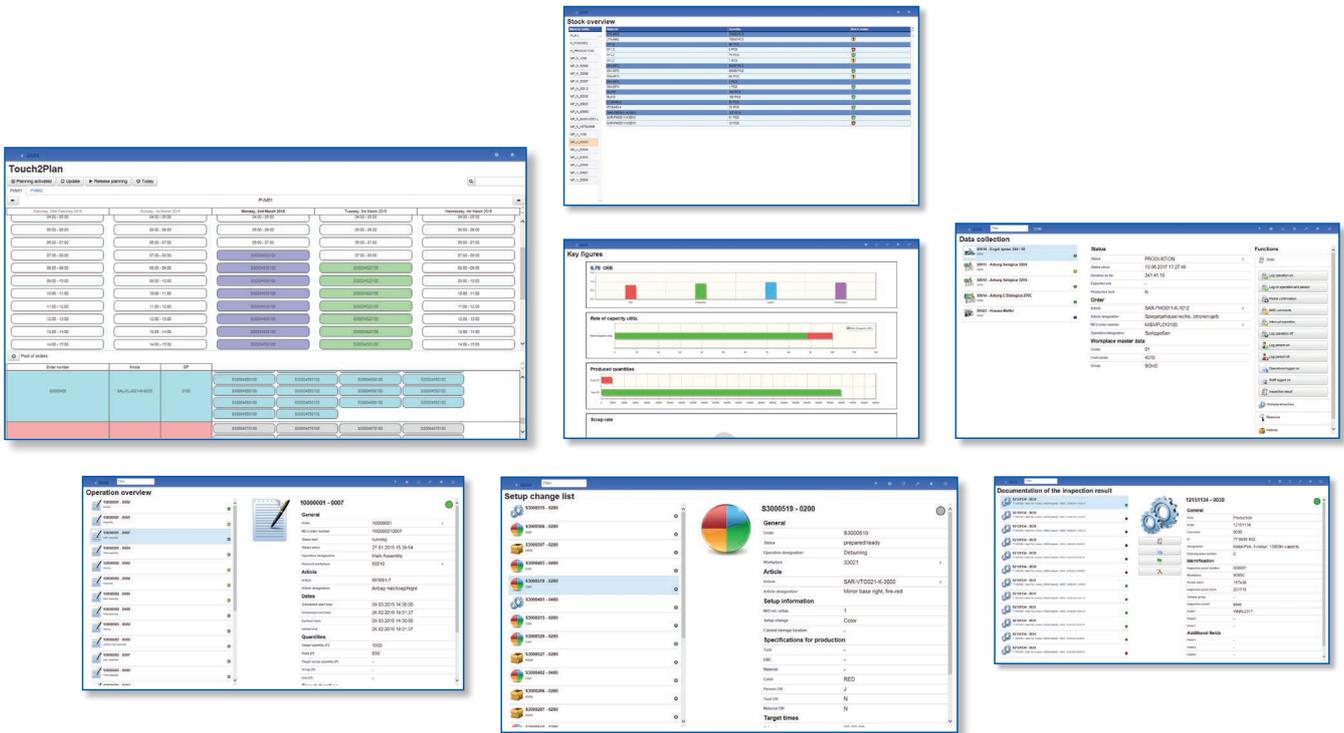
# ERGONOMICS

## MES applications for all purposes

SMA offers an easy and intuitive operation concept and the ability to combine different apps. The information and functional scope of the application perfectly caters to the user's tasks and responsibility area:

- HYDRA functions can be used independently of time and place
- Optimized data presentation that adapts to the technical requirements of the smartphone, tablet or PC used
- Intuitive operation via common touch gestures (swipe, tap, drag, rotate, etc.)
- Clearly arranged start menu including short descriptions of the apps
- Role-based selection of apps
- User and role-specific processing of data and information
- Combination of SMA and classic HYDRA clients
- Individual configuration and customization via MES Development Suite





## MES apps for daily production routine

In manufacturing, it is important to have an overview of running processes and to have the ability to react quickly to unexpected events. To this end, SMA provides multiple apps to collect data and to monitor and control production processes:

- Overview of all machines and workplaces including current information and the option to record shop floor data
- Order overview and list of all operations
- KPI monitor with drill down functionality
- Lists including details on the pool of orders and required setups
- Maintenance calendar and input dialogs for maintenance tasks
- Clear production control using Touch2Plan
- Extensive apps for material management
- Recording of energy consumption
- Flexible project time recording

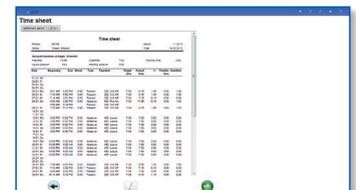
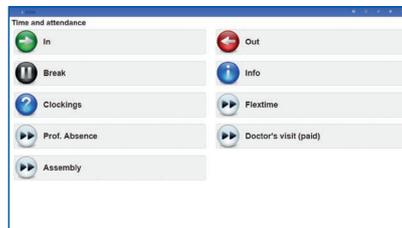
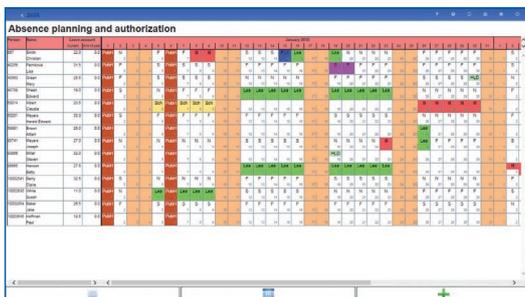
# MANUFACTURING

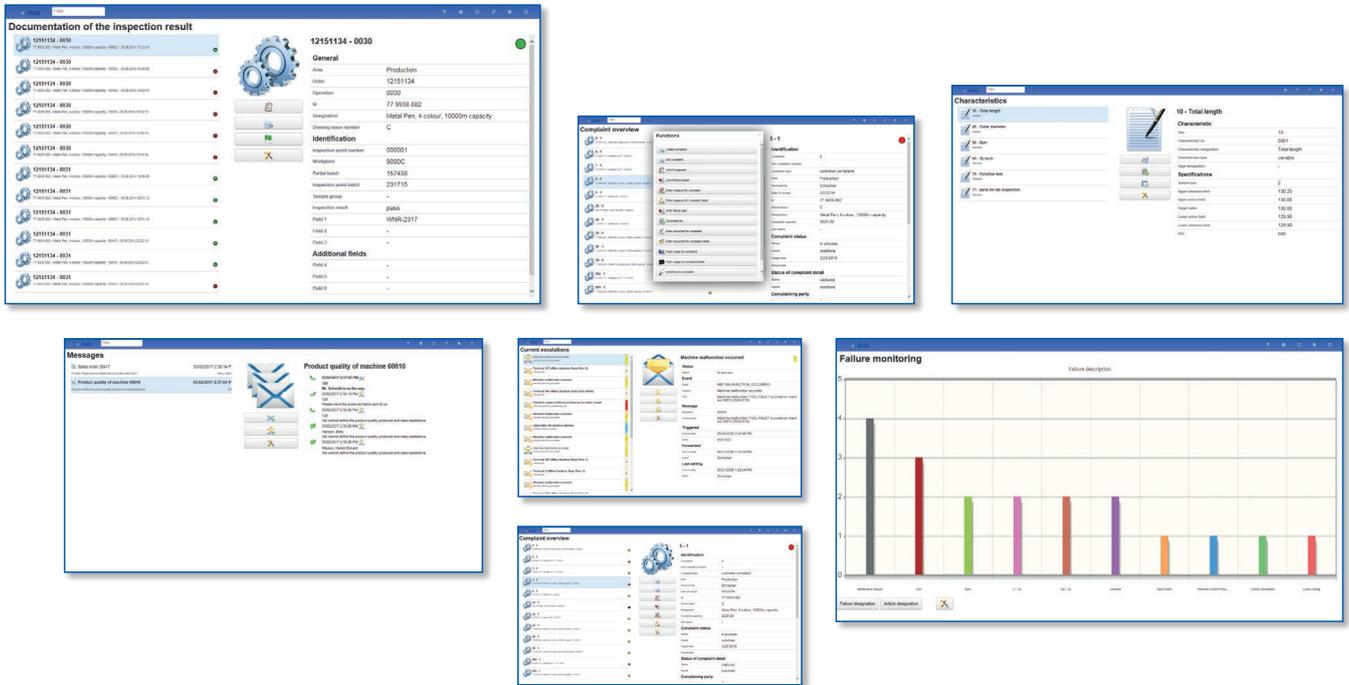
# HUMAN RESOURCES

## MES apps for time recording and employee information

Employees want to be informed about the hours they have worked. There is an additional positive impact on the employees' motivation, if slow paper-based processes are digitalized. SMA offers useful apps for employees and for supervisors and managers:

- Collection of attendance times
- Personal time sheet including the option to enter missing clockings subsequently
- Overview of the employees' attendance statuses offering direct contact via phone or email
- Paperless absence requests with calendar view
- Planning and approval of absence times by supervisors
- Individual staff schedule





## MES apps for quality assurance

Quality management employees benefit from straightforward and flexible tools and reliability and ergonomics are of utmost importance. Mobile quality applications offer the additional advantage of having the user be completely independent of their location. SMA provide needs-based apps in order to ensure smooth inspection processes:

- Collection and documentation of inspection results
- Display of relevant inspection documents (e. g., inspection instructions)
- Generation and processing of complaints
- Workflows to efficiently process complaints
- Detailed reports on failures that have occurred
- Access to escalation management and HYDRA messaging services

# QUALITY MANAGEMENT



# Needs-based, tailor-made MES applications



Every MES solution is as individual as the company using it. An MES must be of a modular design and largely configurable in order to turn field-tested standard functions into tailor-made solutions.

Extensive requirements covering all business sectors and levels must be considered: From user-friendly collection and information functions for operators to reliable statistics for the management.

Additionally to the Smart MES Applications, as they are presented in this brochure, MPDV offers a broad portfolio of established standard MES products. These products, characterizing a state-of-the-art MES, can be selected needs-based and integrated without interfaces:

- **Shop Floor Integration Services:** Interfaces to machines and production lines plus data collection and information functions for operators
- **MES Applications:** Powerful programs to process data and functions for data maintenance, detailed planning, monitoring and controlling
- **Smart MES Applications:** For usage on mobile devices and in web browsers
- **MES-Cockpit Applications:** Dashboards for general KPIs
- **Enterprise Integration Services:** Basic functions and interfaces to seamlessly integrate the MES into an existing IT landscape

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