

Success Story

SAP & Industry 4.0

Operating Data from Production directly available in SAP

The Customer



As part of the Vorwerk&Sohn group, Vorwerk Autotec is an international Tier One Automotive Supplier

Vorwerk & Sohn GmbH. & Co. KG.



4
factories on 3 continents



200
Mio. € turnover



1.600
employees



Vorwerk Autotec with factories in Germany, Poland, Mexico and China

The Challenge

40.000

Material movements in production per day

135

Production facilities connected to SAP for data collection

1.000

Container are moving between warehouse & production each day



PDC


- no sufficient tracking
- traceability of materials not precised/ detailed enough
- review of error sources not optimized
- not enough data for automated efficiency analyses
- real-time data only available at individual machines, but not in the higher-level processes



SAP

The Project

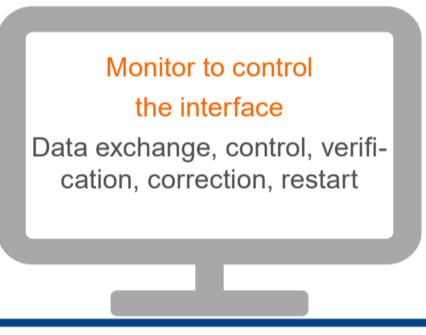
1.



SAP

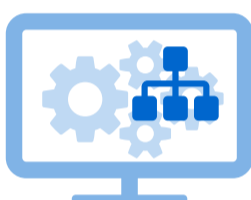
Requirements planning & posting

- warehouse management
- inventory management
- material planning
- production supply
- master data management



Monitor to control the interface

Data exchange, control, verification, correction, restart



MES

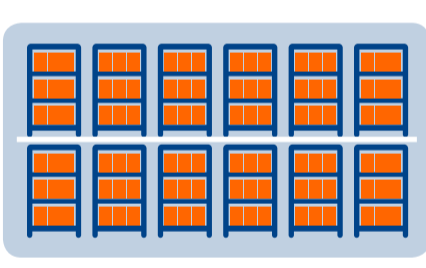
Detailed planning


- system control
- detailed planning of production orders
- capture of production data
- packaging of handling units

2.

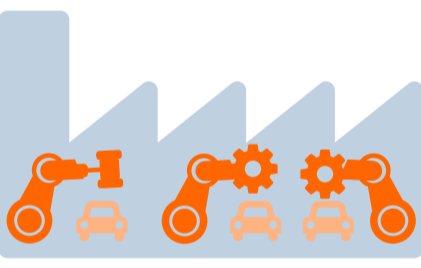
A 2-container-system manages the production supply at Vorwerk

WAREHOUSE








PRODUCTION




Forklift-management-system for production supply and disposal:
Information to batch, quantity, material in box/container

3.


Hierarchical packaging of produced goods according to packing instructions


The Result




Transparency gain regarding status of production




Analytics and calculations in SAP based on real-time data




Monitoring of efficiency, down time and usage pattern




Full integration of machine processes with processes in SAP (material requirements, stock, packaging)



At the end of production, finished goods are readily available in the warehouse and are WM- and HU managed



Automated processes in SAP replace manual steps and save time in production



„Our new MES system provides the basis for a successful future of Vorwerk Autotec. Improvements of transparency in production, supply chain and logistics are the prerequisites for further increases in productivity. With this project, Vorwerk Autotec has taken a big step towards Industry 4.0.“

Dennis Dünnweg, Project Manager, Vorwerk Autotec