

注塑成型的集成智能控制-威猛4.0

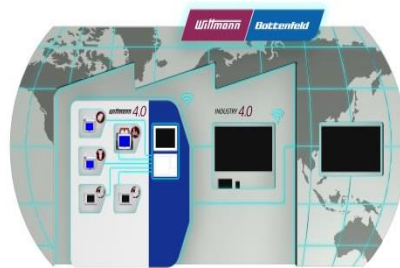


报告人:刘毅

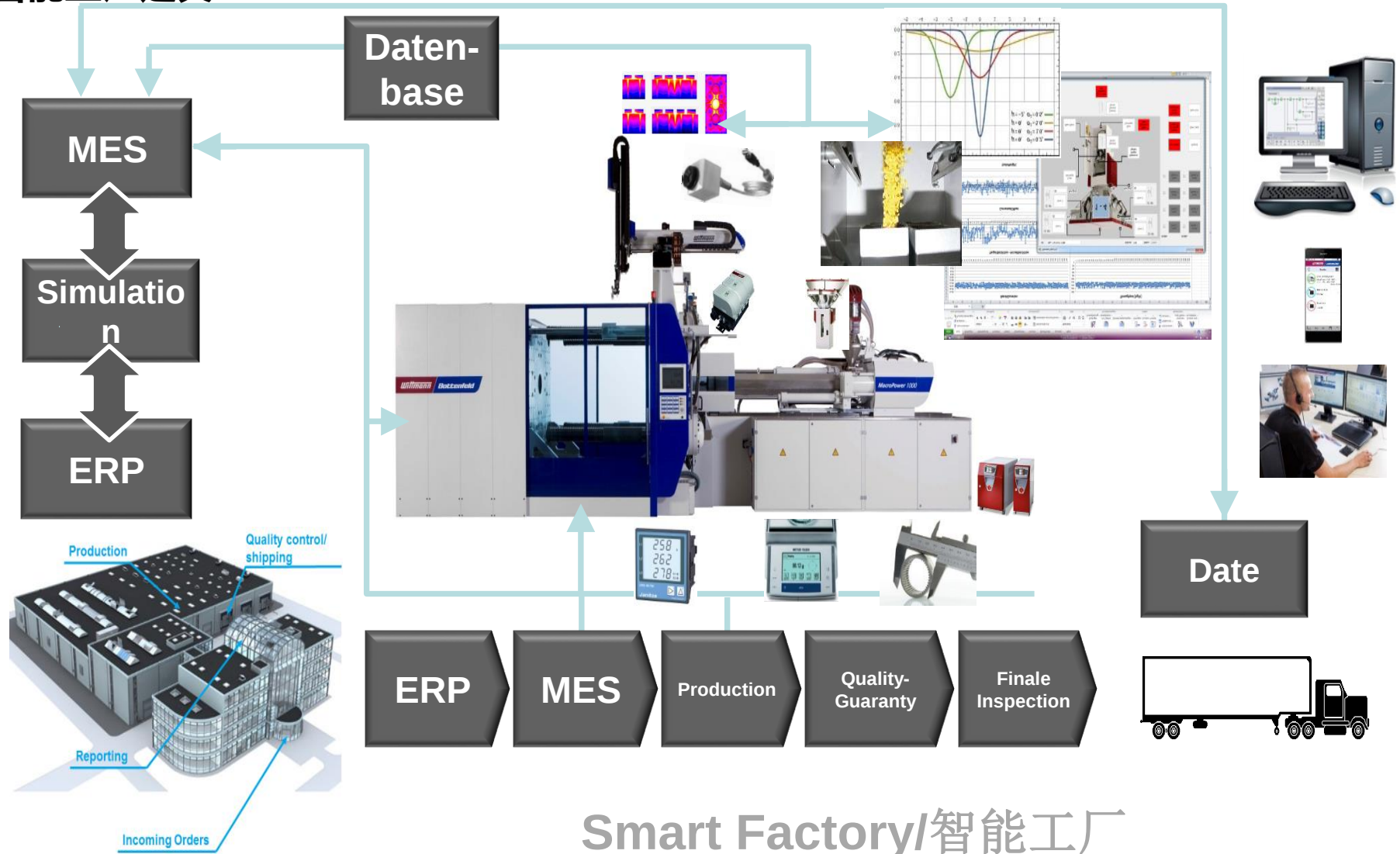
- 什么是Wittmann 4.0集成控制技术
 - 智能工厂的定义
 - Wittmann 4.0的功能
 - 无线查看功能QuickLook
 - 威猛巴顿菲尔简介
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WITTMANN 4.0控制技术

The injection molding machine as a control center for
integrated automation and peripheral equipment
注塑机作为所整合的机械手和辅机的控制中心



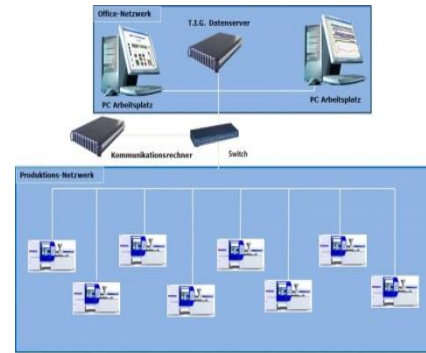
智能工厂定义



Smart Factory/智能工厂

智能工厂定义

MES



Injection Mold Machine/注塑机



Robot, Temperature-Control, Flow-Control, Blender/其它辅机



Wittmann 4.0的功能

Exchange of Information during Injection Molding 注塑生产时交换相关信息



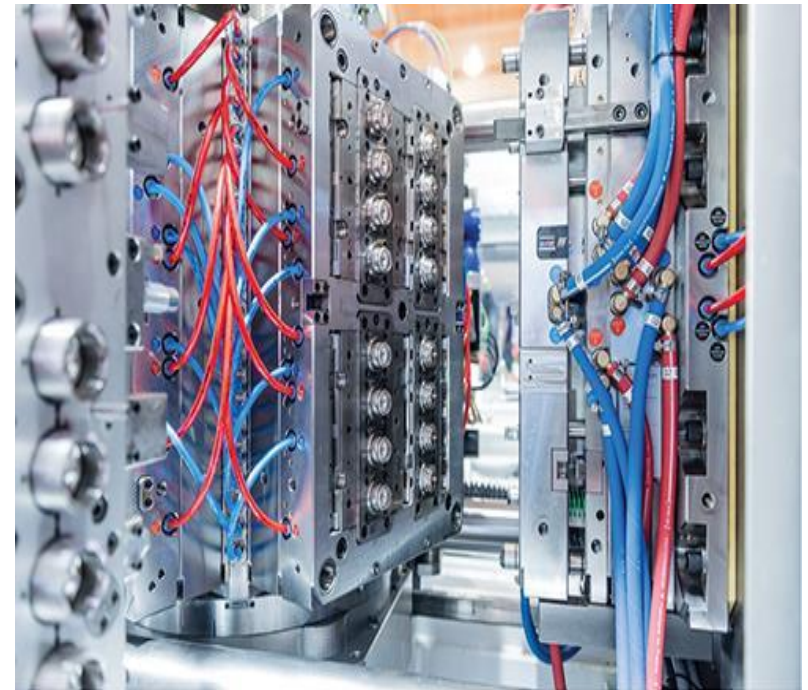
Wittmann 4.0的功能

Goal: Easy Tool change
目标:容易更换模具

Reduce time for tool change/减少更换模具的时间

- Loading of tool data/加载模具参数
 - on the IMM/注塑机上
- → load at the same time/加载的同时
 - Temperatures/温度
 - Flow-rate/流量
 - Teachprogram/程序
 - Dosing Recipe/混料配方

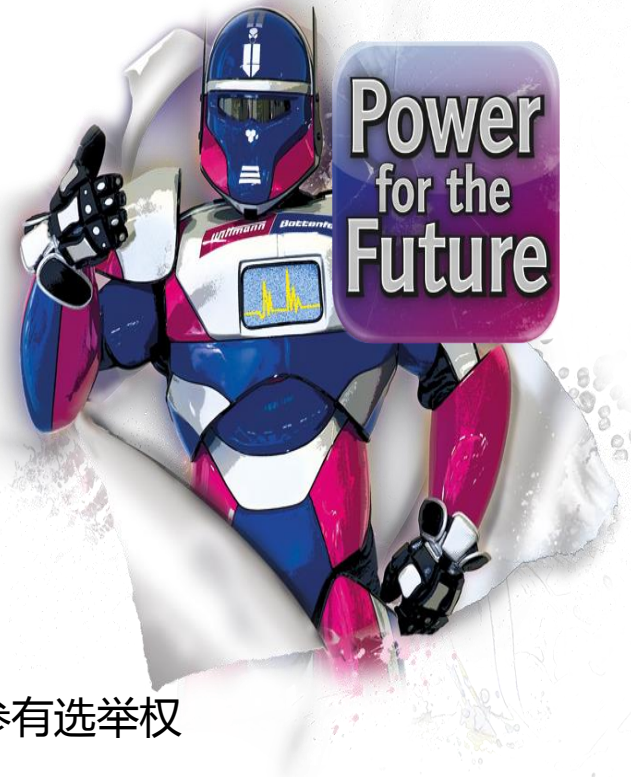
→ Wittmann 4.0



Wittmann 4.0的功能

Full-Integration 完全整合

- Connection to auxiliary equipment/连接辅机
 - Efficient data-integration/有效地资料整合
 - Plug & Produce, easy handling/连接和生产,易操作
 - Control and monitoring/控制和监控
 - **Visualization/图形化**
- Connection to MES/连接MES
- Collect centralized /中央收集
 - Quality criteria, process parameters/质量标准,工艺参有选举权



Wittmann 4.0的功能

for MES

- Access to host computer/主机入口
- Insight into the most important parameter
- 可得到绝大部分重要的参数



Wittmann 4.0的功能

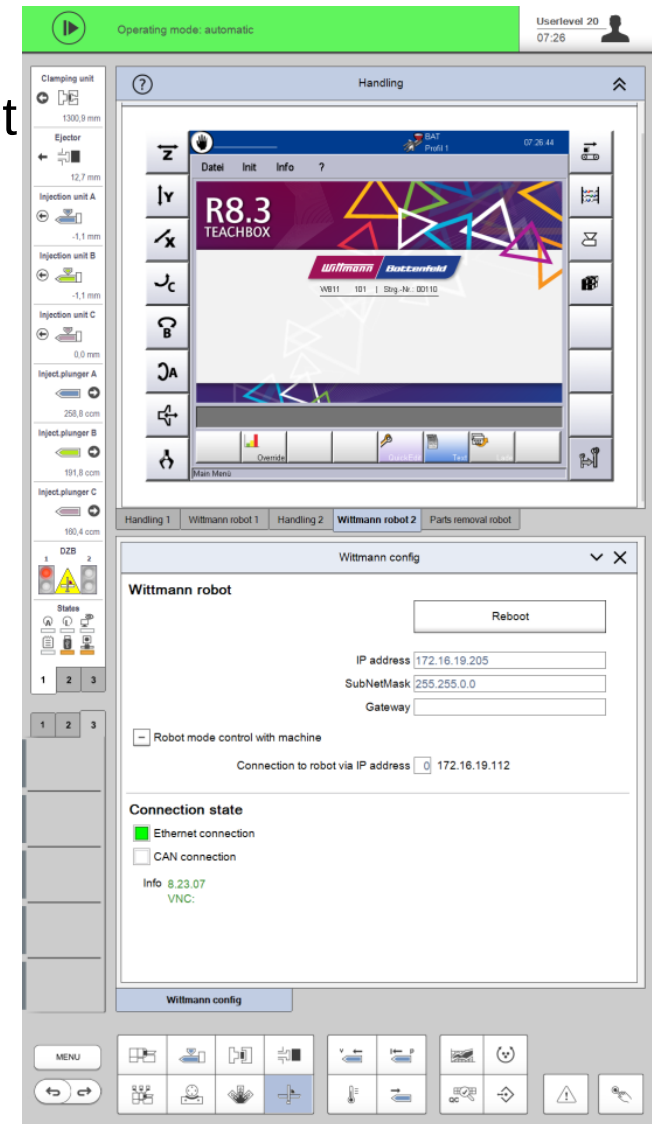
Integrated Visualization 图形化整合



Wittmann 4.0的功能

Mirroring R8-Robot R8机械手的镜像

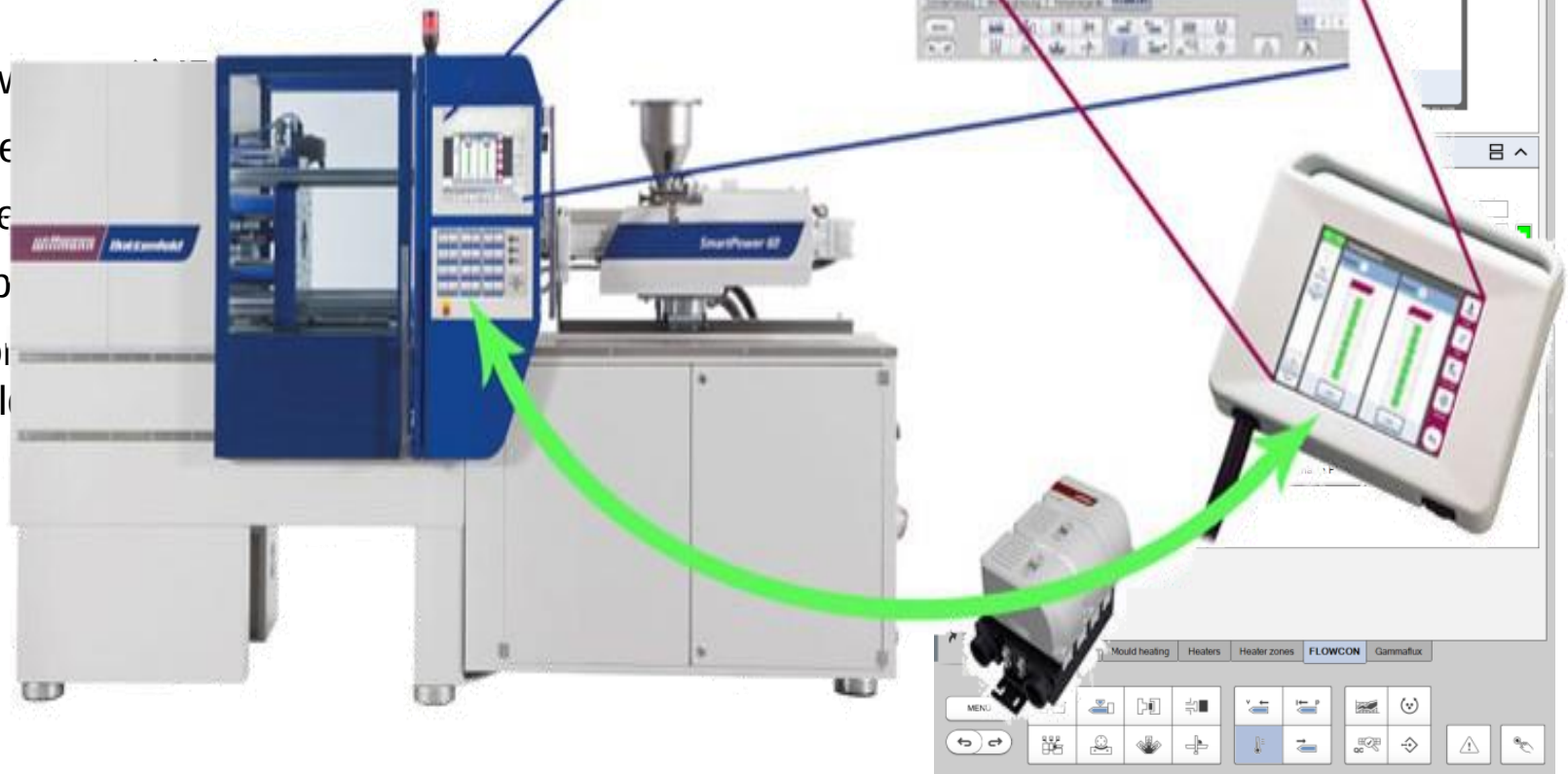
- Teachprogram/程序
- operation modes/操作模式
- collect alarm messages/收集警报
- realtime communication via CAN-Bus or E67-Interface/
- 通过CAN-Bus或E67接口实时通讯

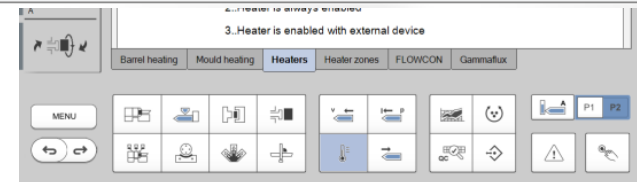
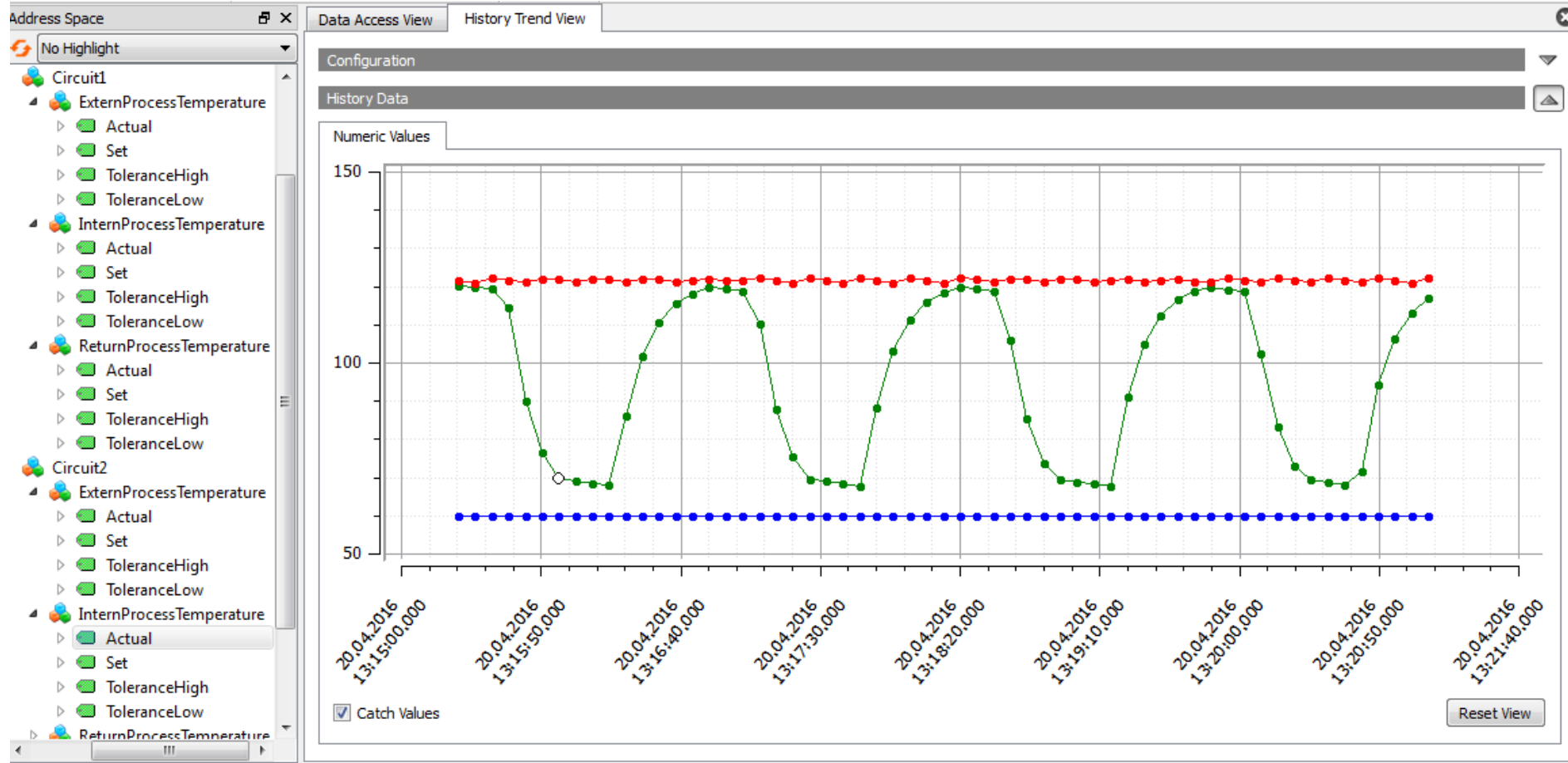


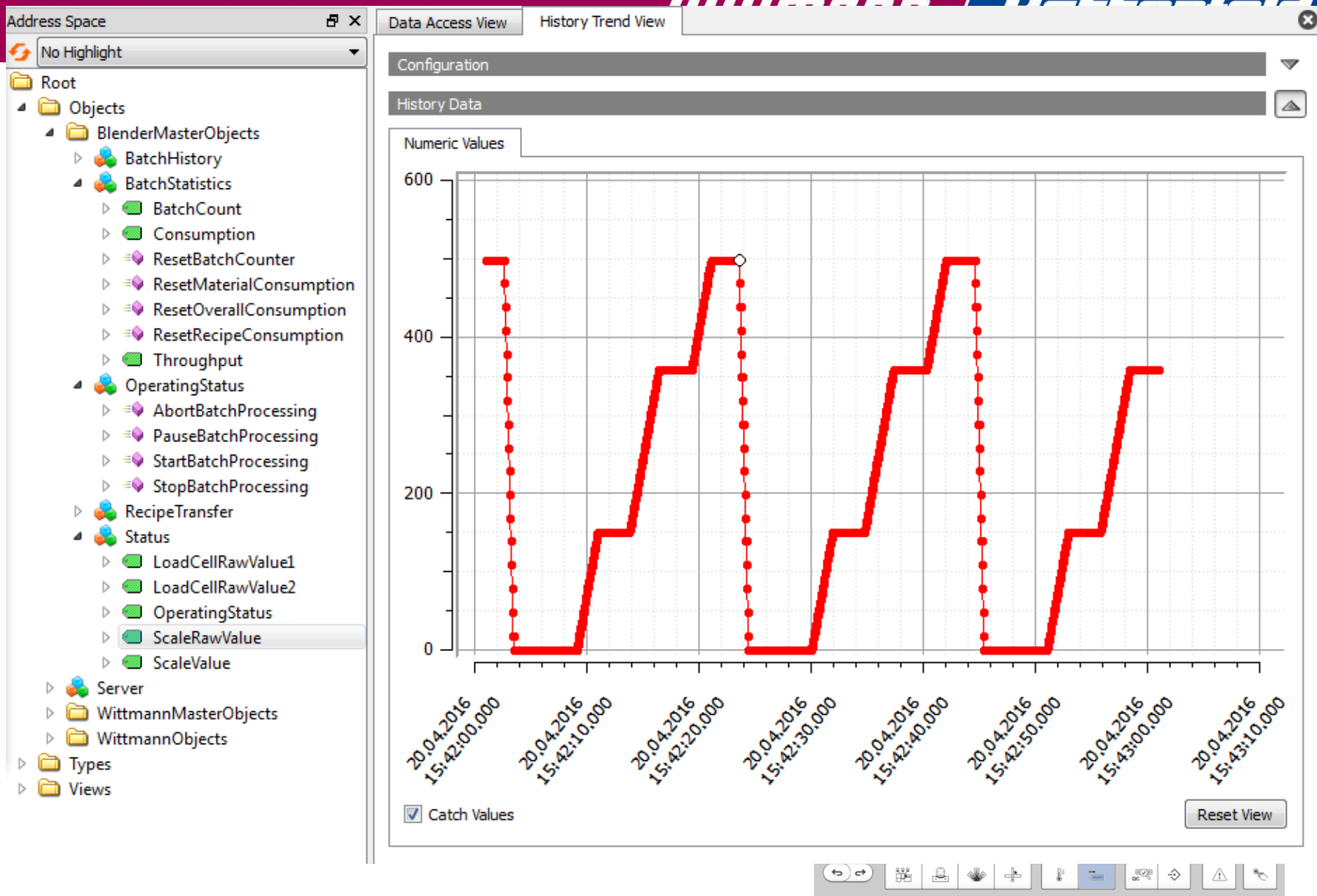
Wittmann 4.0的功能

Plugin FLOWCON
连接水排

- Flow
- Tole
- Ope
- Exp
- Stor
- tool





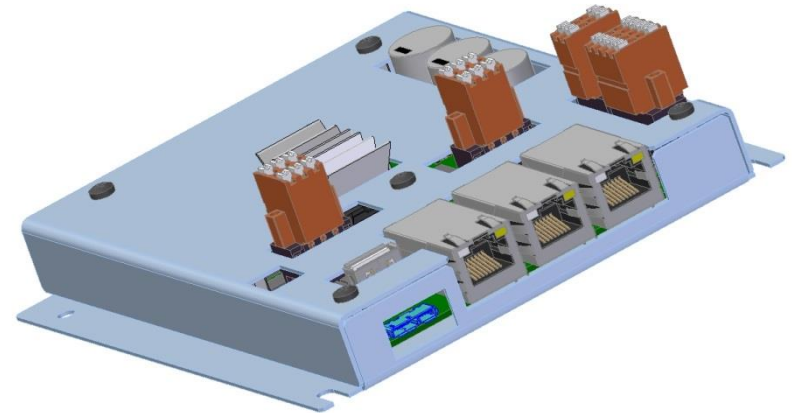


Wittmann 4.0的功能

Wittmann 4.0 Router/路由器

special Wittmann 4.0-functionality (in preparation)

- Management of the Wittmann 4.0 equipment present in the workcell
- Discovery
 - Equipment logs in to the router
 - Recognition of the device type
- IP-Address
 - will be assigned by the router



Integration packages – UNILog B8

WITTMANN 4.0 IP – 3

8 x TemproD

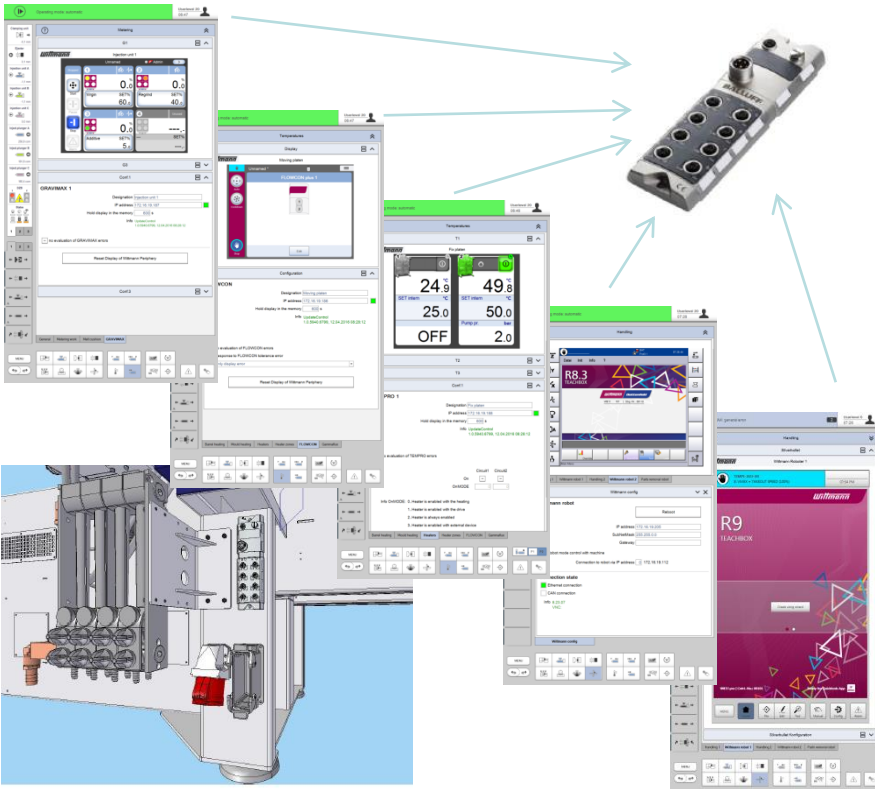
1 x GRAVIMAX (per injection unit)

06.B93

1 x FLOWCON

Note: TemproD (1 oder 2 temperatur circuits)

Robot fully integration



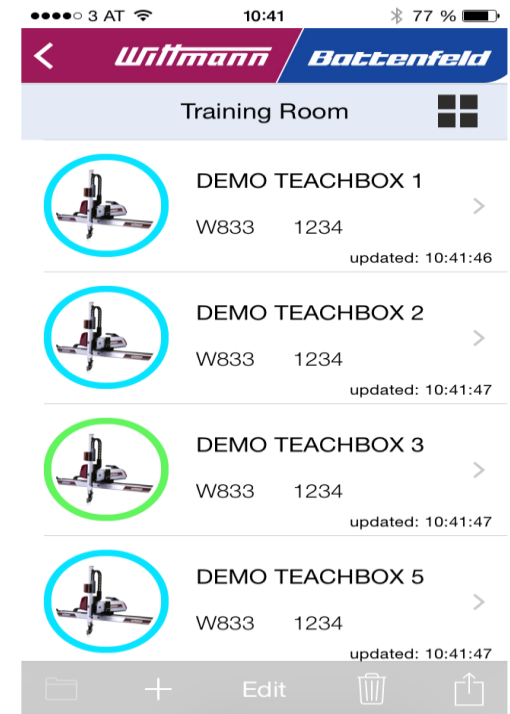
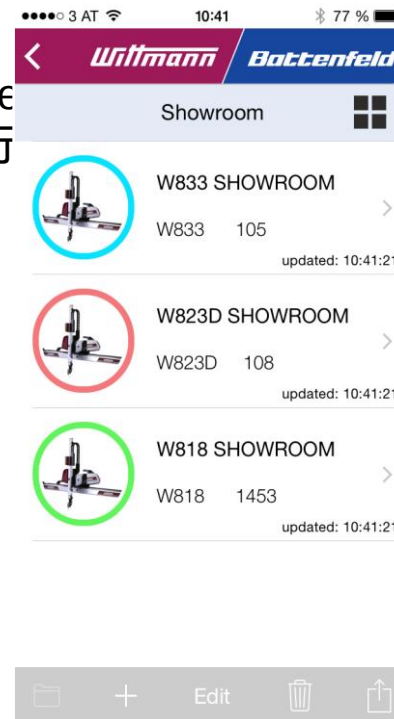
无线查看功能WiBa QuickLook App



无线查看功能WiBa QuickLook App

Devices and groups Listen/设备和组别

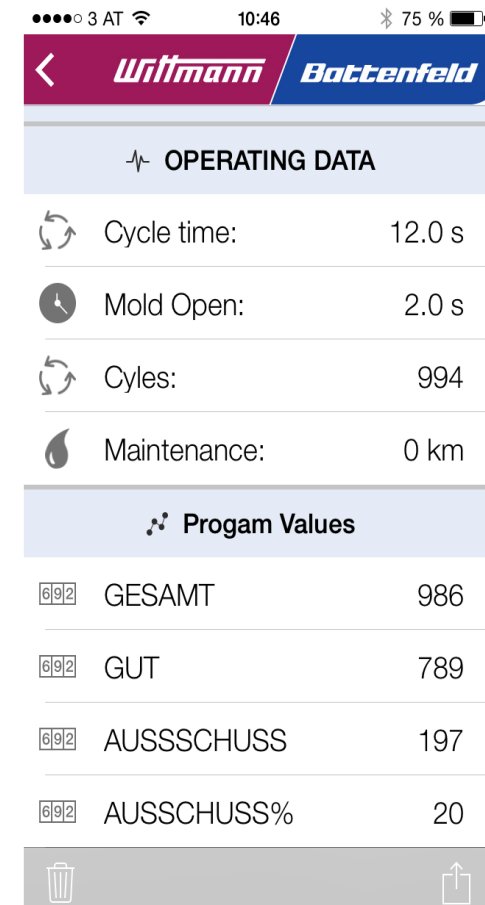
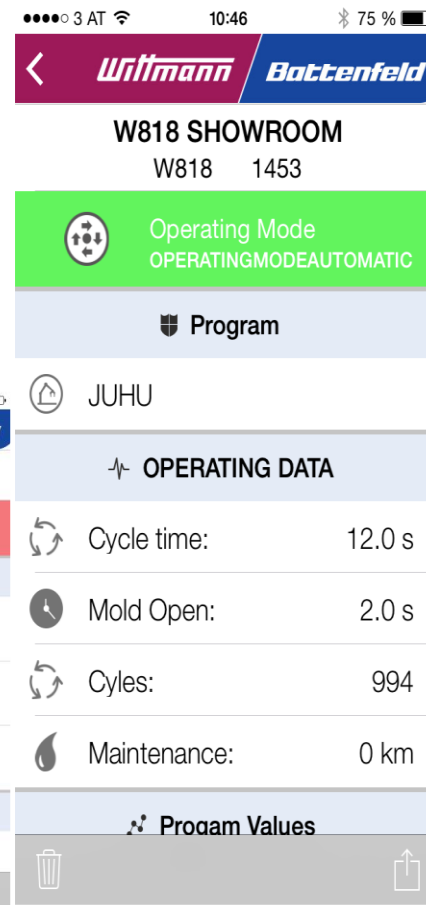
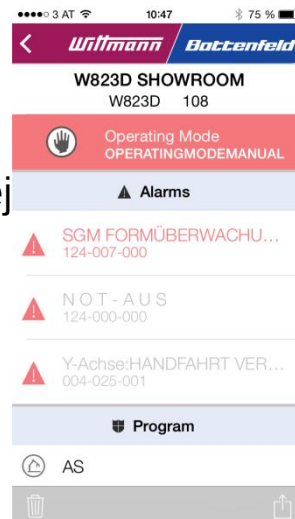
- List view/列表查看
- Colors of the rings as status LEDs of the PRO series can be displayed through the different colors of the LED rings
 - Green: Automatic/绿色:全自动
 - Blue: non- automatic/蓝色:非全自动
 - Red: Alarm/红色:有警报



无线查看功能WiBa QuickLook App

For injection mold machine and robot/用于注塑机和机械手

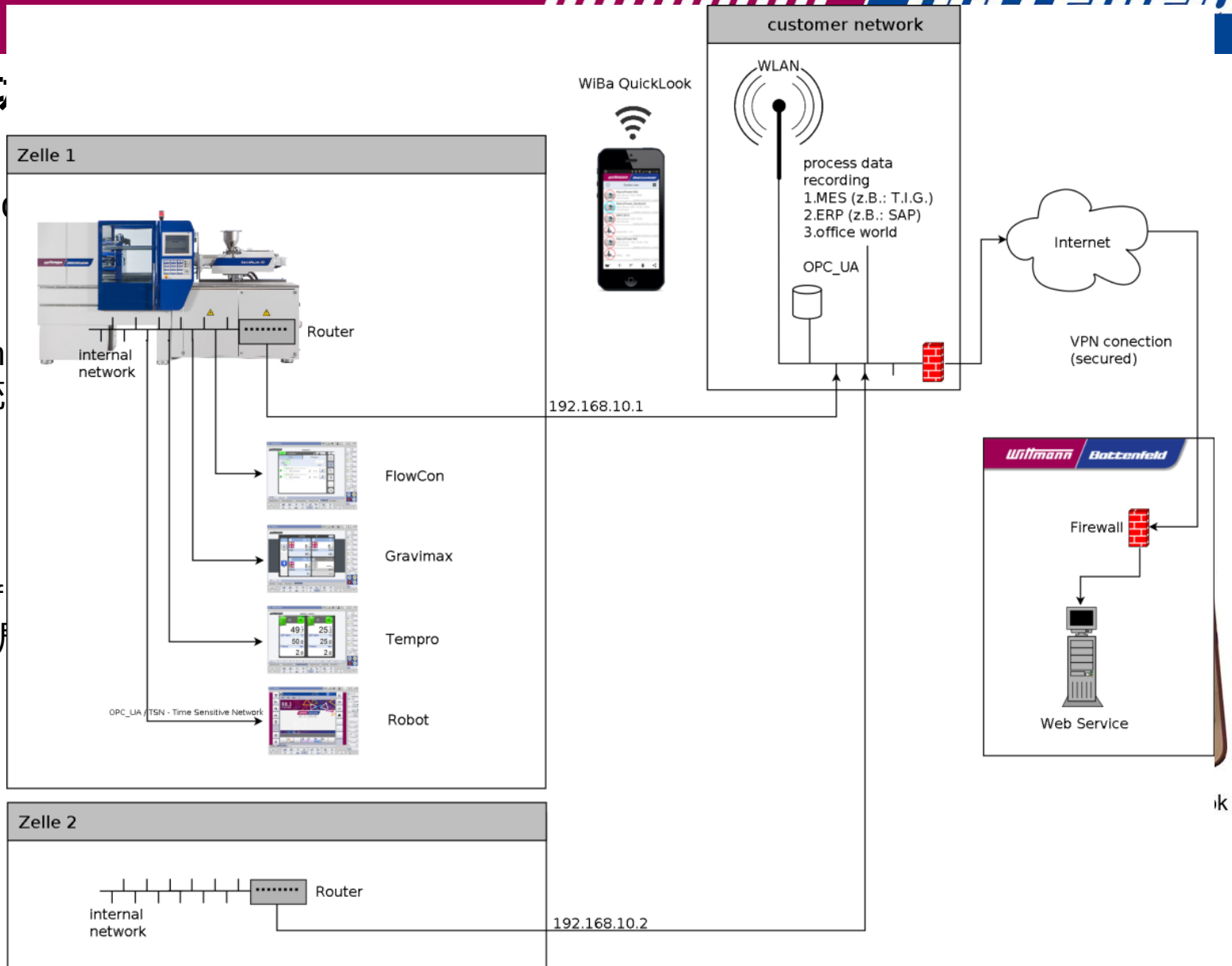
- Internal WLAN/LAN/内部WLAN/LAN网
- Operation mode/操作参数
- Order number/订单
- Teachprogram Name/程序
- Cycle Time, Times/周期
- Alarms/警报
- Nr of Parts, Good parts, rej
- 产品编号,良品,不良品



无线查看功

Condition

- Software and B6 in 和B6系统
- IOS 7 or 4.0以上
- Device of 接到无线



威猛巴顿菲尔简介

全球首家能一站式研发,生产和销售注塑机,机械手和自动化,除湿干燥机,中央送料,模温机,粉碎机 and 混料机的供应商:

- 注塑成型机
- 机械手和自动化
- 模温机
- 除湿干燥机和中央供料
- 混料机
- 粉碎机
- 水流量控制
- 模内贴标机



注塑成型技术

概括

可射出成型材料有

- 热塑性原料
- 热固性原料
- 弹性体
- PVC

- COMBIMOULD →
- AIRMOULD →
- AQUAMOULD →
- Cellmould® →
- LIM →
- PIM →
- BFMOLD →



多组份射出成型

(GIT) 气辅成型技术

(WIT) 水辅成型技术

发泡成型技术(化学/物理发泡)

液态硅胶射出成型

粉末射出成型

变模温成型技术(高光表明, 微结构)

Thanks for your attention/非常感谢您的关注!

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