Dematec Automation

INDUSTRIAL

CAPABILITIES

APPLICATIONS & CAPABILITIES

- Design, installation and support of automation systems including Industry 4.0 & robotics
- Centralised communications and control systems for production facilities
- Integration between production systems (e.g. SCADA) and business systems (e.g. ERP)

Obsolescence management & upgrades for automated electrical equipment

Asset monitoring & control using IIoT technology

REFERENCE PROJECTS

Philmac adaptable · Design and implement automated pilot cell including robots, vision systems and electrical control systems robotic irrigation fitting assembly cells • Supervisory PLC with colour touchscreen for operator control, feedback and storage and selection of product 'recipes' • Rapid changeover of tooling between products, reducing downtime to just minutes Implement 3 additional robotic assembly cells, all working 24/7 Manufacturing operations Plan and execute software and network upgrade without interrupting the operation of the 24/7 'lights out' production facility and Automated Guided Vehicle (AGV) systems management system upgrade for plastic injection · Implement new Ethernet network hardware separating SCADA and ERP networks moulded parts producer · Enhance integration between SCADA and ERP systems via a central data repository Addition of comprehensive back-up and recovery facility to enable rapid resumption of production in the event of a catastrophic hardware failure Robotic production line for Turnkey delivery from concept to installation preparation, measurement Interface with laboratory database for tracking and traceability and processing of samples · Production line includes product sample decapping, decanting and measurement, for composition testing catalyst dosing, relabelling and quality checking Production and maintenance support services (ongoing) Integration of heavy steel • Develop a cohesive automated materials processing line made up of a number of internationally sourced OEM machines and locally fabricated elements components processing line

- Evaluate specifications and recommend OEM equipment compliant with Australian Standards
- Design, construct, configure and install overarching control and monitoring system for the processing line
- · Production and maintenance support services (ongoing)



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SERVICES



Electrical Design & Construction

- Design and selection for electrical distribution and reticulation (LV)
- Electrical switchboard construction & installation (LV)
- Power factor correction and load shedding
- Power metering and billing systems
- Hazardous area electrical design & installation



- Automated alarm annunciation and escalation systems
 over local or cellular networks
- Telemetry based control and monitoring for remote processes
- Remote connectivity and access to networks and controls for external support services

ື່ ເບິ້ PLC & SCADA

- PLC based control systems on wide range of platforms
- Plant-wide SCADA systems for total process automation and data collection
- Ongoing PLC & SCADA engineering support for installations, sites and networks



Remote Asset Management Systems & Support

- Use of Industrial Internet of Things technology to provide cost effective and secure monitoring and control of remote assets
- Access to real-time asset data via smart phone or tablets
- 24/7 engineering support services for operators of critical assets



] Project Management & System Delivery

- Management of turnkey projects, either as a principal supplier or as a consultant
- Plant layout for production flow and optimisation
- Site audits and analysis of industrial machinery & equipment

Dematec provides automation and industrial grade digital systems, helping industrial SMEs and MEs to reduce operational costs and scale for the future. Our customers count on us to provide valuable technology recommendations on where to invest and how to integrate systems in order to compete globally.

> We see automation and smarter thinking as imperatives for companies in high cost economies to remain local and profitable.

SERVICES OVERVIEW

- Scoping and problem solving
- Matching technology to challenges
- Industrial automation & process control
- Industry 4.0 solutions for production & asset management
- Electrical design & construction (inc. hazardous areas)
- Networking, communications & telemetry
- Project management & system delivery
- PLC & SCADA programming
- Robotic systems
- Electrical maintenance & 24/7 support programs

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