



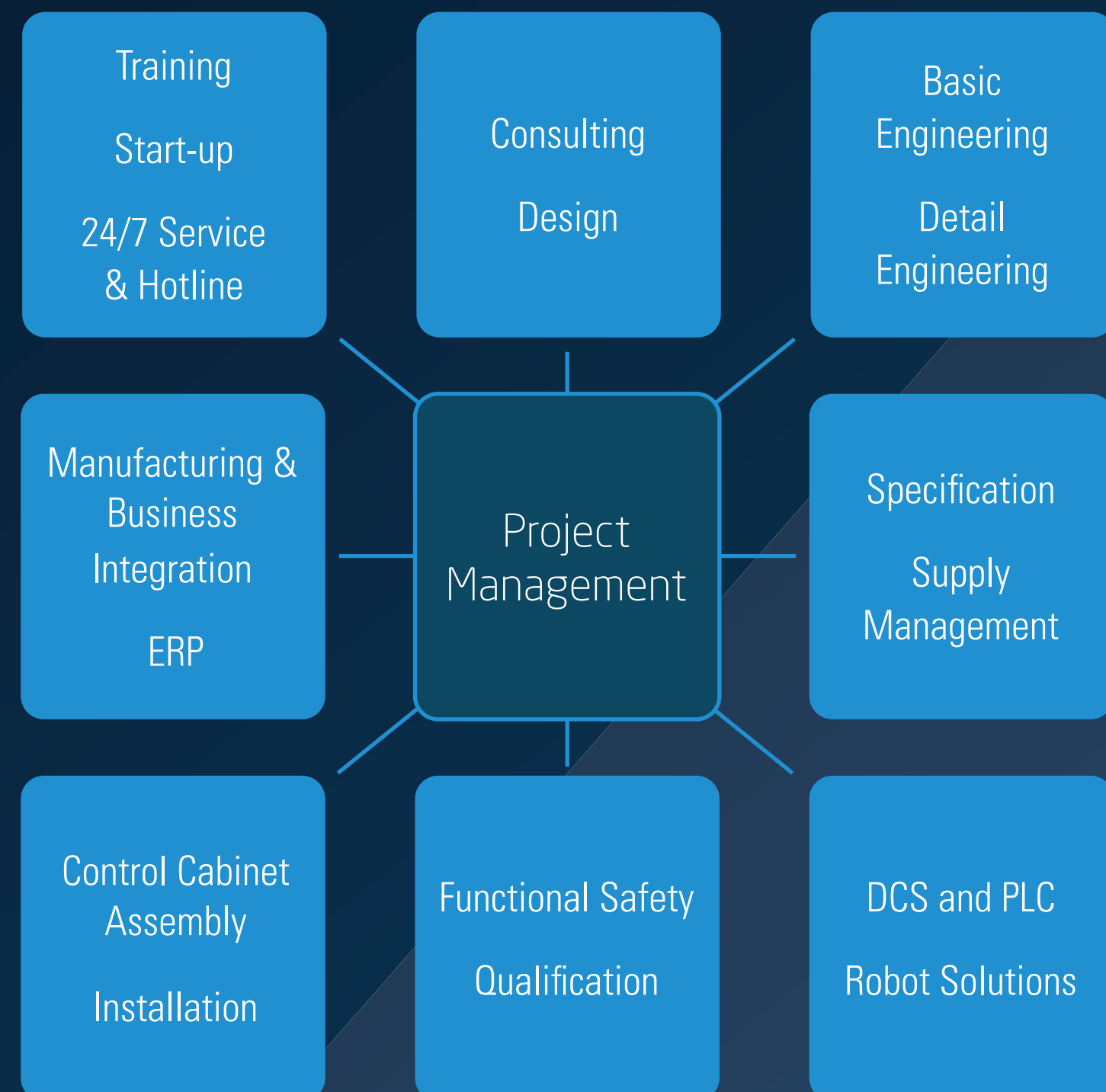
# PROCESS AUTOMATION SOLUTIONS

We engineer a sustainable future through consulting, automation and digitalization

Your partner for the full spectrum of automation in the following sectors:

chemical, pharmaceutical / biotech, food and beverage, oil & gas, energy, automotive, etc.

## Our Competencies



### Process Control Systems / Facility Management Control Systems

- » Siemens
- » ABB
- » Emerson
- » Honeywell
- » AVEVA/Schneider Electric
- » GE
- » Rockwell
- » SCADA etc.

### Safety Systems

- » ABB
- » HIMA
- » Rockwell
- » Schneider Electric
- » Siemens

### Cabinet Construction, Assembly

### Factory Automation

- » Body shop (body in white)
- » Surface (painting, sealing)
- » Digital manufacturing
  - Digital twin
  - Production process simulation
  - Production process design
  - Production process digitalization
  - Production process optimization
- » Logistic / transport systems (AMR / IGV systems)
- » Production lines
  - Robotic systems (ABB, FANUC, KUKA, UR, etc.)
  - Smart Assembly systems
  - Packaging systems

### Special Topics

- » CO2 neutral production
- » Complex batch projects
- » Functional safety
- » Machinery safety
- » ATEX
- » Automation security / cyber security
- » Qualification / verification
- » SPC (Statistic Process Control)
- » Alarm management
- » High-performance HMI
- » OEE (Overall Equipment Effectiveness)

### Digitalization

- » Digital transformation
- » Near real-time visualization
- » Performance optimization
- » Energy monitoring
- » AI-driven solutions
- » Compliance support
- » Managed services
- » Microsoft Cloud Solutions Partner
- » Products (SaaS or Enterprise)
  - Lean Manufacturing Cockpit
  - PA Facts Platform
- » Process data analysis
- » Integrated engineering
- » Virtual commissioning
- » Predictive maintenance

### ERP

- » SAP Gold Partner
- » Consultation and customizing
- » Process optimization
- » SAP implementation and rollouts
- » Data center, hosting and maintenance
- » Integration and cloud services
- » Advanced Products:
  - Advanced Manufacturing
  - Advanced Shipping
  - Advanced Business Intelligence
  - Advanced Workflow

### Process Optimization / Consulting

- » Operational excellence consulting
- » Site & factory planning
- » Supply chain management & logistics planning
- » Digitalization consulting
- » Advanced process control
- » Real-time optimization

### EPCM(V), EPC Plant Engineering

- » Concept, basic & detail engineering
- » Entire EI&C scope
- » Field device instrumentation
- » FMCS design and implementation

### Manufacturing & Business Integration

- » PIMS (Plant Information Management System)
- » Historian
- » MES (Manufacturing Execution Systems)
- » QMM (Quality Management for Manufacturing)
- » PLATO, Process & Logistics Administration Toolkit
  - Terminal Manager
  - Shift Manager
  - Permit Manager

