



INDUSTRY BECOMES DIGITAL.
LET'S START THE
TRANSFORMATION JOURNEY.

DIGITALIZATION • ENGINEERING • AUTOMATION • IT

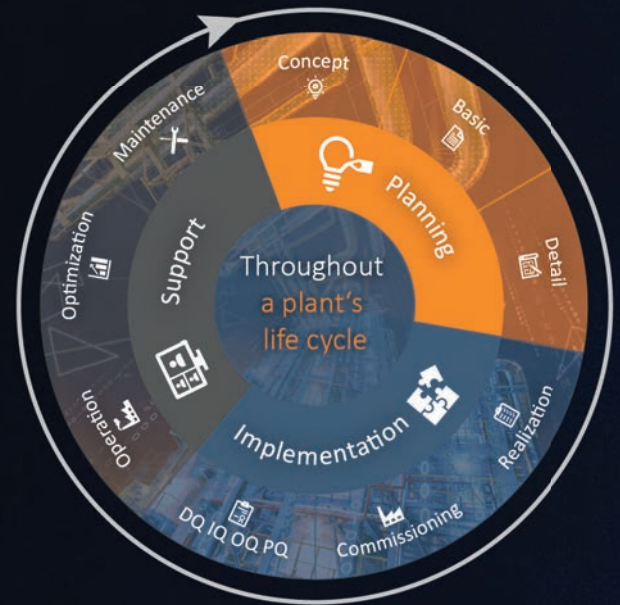


YOUR PARTNER FOR DIGITAL TRANSFORMATION

SpiraTec AG is a global provider of industrial engineering and advanced high-tech solutions for the process and manufacturing sectors. Through our comprehensive service portfolio, we drive industrial digitalization and support the future development of modern production environments.

Our expertise covers the entire value chain: from strategic consulting and planning to the development of digital applications as well as implementation, commissioning, and optimization of production facilities. We combine state-of-the-art technologies with proven industrial processes to create smart and efficient solutions for national and international customers.

As the SpiraTec Group, we have over 700 employees at more than 40 locations in Germany, Austria, France, Italy, Switzerland and the USA.



2007
FOUNDED



> 700
EMPLOYEES



6 COMPANIES
OF THE SPIRATEC GROUP



ACTIVE IN PROJECTS
WORLDWIDE



~ €90 MILLION
TOTAL TURNOVER



> 40 LOCATIONS
IN GER, AT, CH, FR, IT & US

"THE WHOLE IS GREATER THAN THE SUM OF ITS PARTS"

Aristotle, around 340 BC

OUR AREAS OF EXPERTISE – LINES OF BUSINESS

INDUSTRIAL
ENGINEERING & DESIGN

INDUSTRIAL AUTOMATION
SERVICES

INDUSTRIAL IT
SERVICES

OUR SERVICES – LINES OF BUSINESS & NEW TECHNOLOGIES

INDUSTRIAL ENGINEERING & DESIGN

- Plant Engineering
- Process Engineering
- HVAC Engineering
- Piping & Civil Engineering

VIRTUAL ENGINEERING & SOLUTIONS

- Virtual Engineering
- Dynamic 3D Engineering
- Digital Twin Engineering

MOBILE ROBOTICS

- Mobile Robotics Engineering
- Technical Specification
- Process Design

INDUSTRIAL AUTOMATION SERVICES

- Automation Engineering
- Functional Specification
- Process Automation & System Design
- Technical Building Automation & Electrical Engineering
- E&I Engineering

INDUSTRIAL IT SERVICES

- IT / OT & MOM Design
- Consulting, Requirements Engineering & Functional Specification

QUALIFICATION & VALIDATION & COMPLIANCE SUPPORT

- Construction & Commissioning Management
- Project Management

- Virtual Solutions
- Realtime Visualization
- Virtual 3D Testing & Commissioning

- Mobile Robotics Solutions
- Fleet Integration
- Mobile Robotics Control

- Industrial Automation Solutions
- Process Automation
- Discrete Automation
- Technical Building Automation Solutions
- Modular Automation
- Electrical Assembly & Construction

- IT / OT & MOM Solutions
- Integration
- Manufacturing Operations Management
- Software Development
- IT & Automation Infrastructure

SERVICE CENTER & TECHNICAL SUPPORT

MASTERING DIGITAL PROCESSES THROUGH PARTNERSHIP

We accompany our customers and partners every step of the way on their journey toward digital transformation and support them with comprehensive, interdisciplinary services. In doing so, we rely on state-of-the-art technologies and innovative solutions.

For us, digital transformation means making all production-related data available in real time – through seamless, digital linking of all areas involved.

The foundation for this is formed by the so-called digital assets, which are mapped and consolidated in a digital twin. This digital twin is then enhanced with the processes taking place within the plant, creating the basis for digital workers, who are supported through mixed-reality

technologies. As a result, employees benefit from optimized workflows and smart assistance in their daily activities.

With our holistic approach and interface-optimized processes, we are setting new standards in the digital evolution of industry.

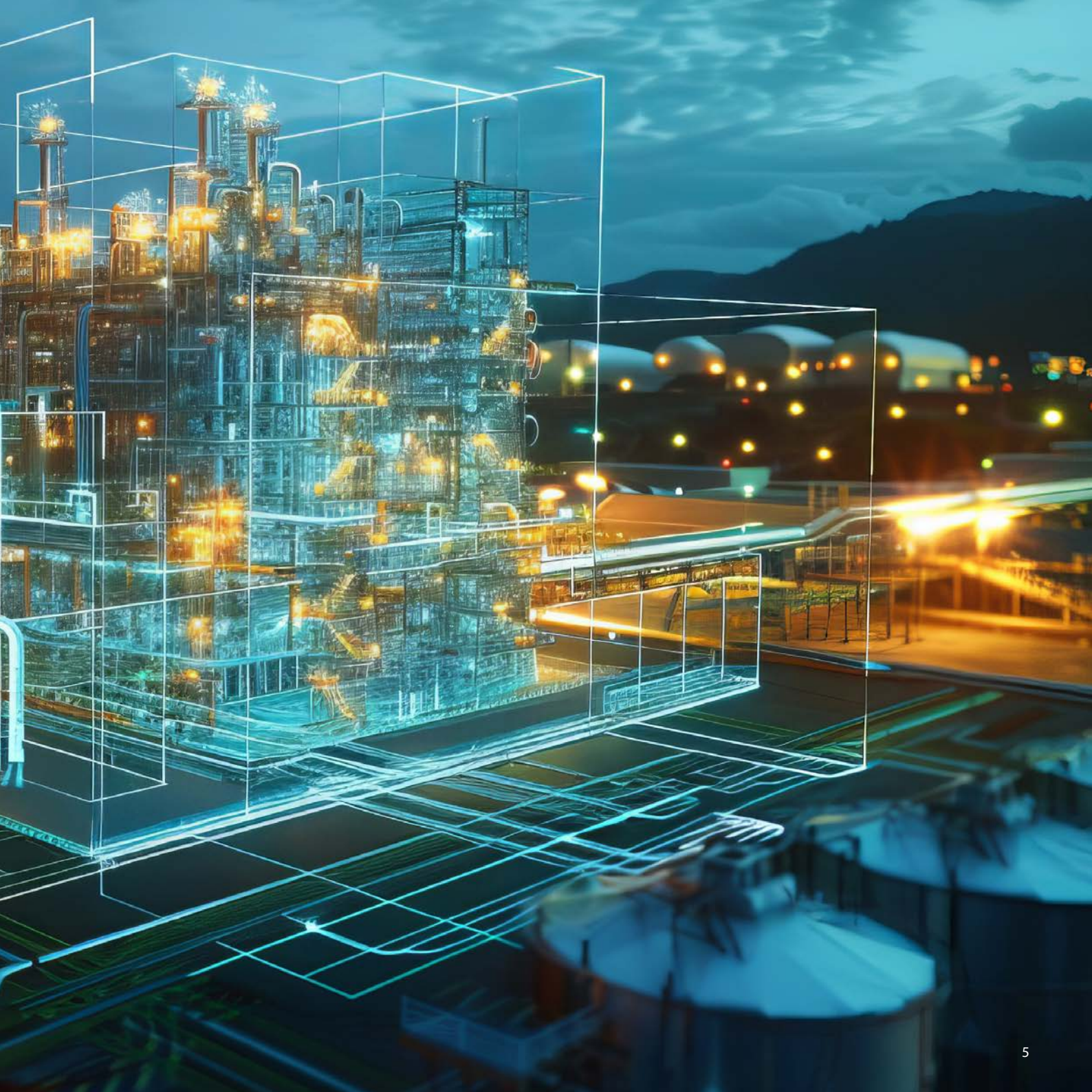
SpiraTec sees itself as an enabler for the forward-looking transformation to a digital industrial landscape and supports companies in making their production environments more efficient, sustainable, and competitive.

EXCERPT FROM OUR SERVICES

- Digital Assets
- Digital Twin Engineering
- Digital Operations
- Virtual & Augmented Reality Solutions
- Integration of production systems



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INTERDISCIPLINARY ENGINEERING & PLANNING GROUP

We offer tailor-made solutions for plant planning and optimization – from feasibility studies and basic and detailed engineering to documentation of the as-built status.

Our core competencies include the redesign, expansion, and conversion of plants. We use modern 3D scan models and interdisciplinary 3D planning to ensure precise, efficient, and seamlessly integrated results.

By combining engineering services, economic analyses, and close cooperation with our automation and EIC experts, we implement innovative and cost-efficient solutions based on the Planning and Construction 4.0 principle.

With our comprehensive project management and EPCM services, we guarantee efficient and holistic project execution. By incorporating IT and robotics solutions as well as modular concepts, we create flexible and future-proof plants.

EXCERPT FROM OUR SERVICES

- Process engineering: Planning, calculation, and optimization of process engineering plants
- Piping engineering: 3D planning and calculation of piping systems
- (Bio) Pharma engineering: Individual planning of pharmaceutical production plants with a focus on clean room design, sterile production and process optimization
- Utilities engineering: Planning and optimization of reliable supply systems
- HVAC engineering: Efficient planning of all technical equipment with a focus on energy optimization
- Civil engineering: Planning and implementation of foundations, solid and steel construction for robust and durable structures



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QUALIFICATION & VALIDATION & COMPLIANCE SUPPORT

Our experienced team offers comprehensive services in the areas of qualification, validation, and compliance support, especially in the highly regulated GxP environment.

We work closely with our customers to ensure smooth operations and the highest quality standards for their plants, equipment, systems, and processes through qualification and validation services. Our compliance support helps you efficiently implement legal and regulatory requirements (e.g., EU regulations, GxP guidelines, and more). From supplier qualification to audit support – we take care of your entire supplier management. We also implement and refine processes and systems to ensure long-term efficiency and compliance. Upon request, we can also perform product quality reviews (PQR).

EXCERPT FROM OUR SERVICES

- Project coordination
- Q/V concepts and master plans
- Risk analyses and requirements specifications (URS)
- Plan, report, and test creation
- Factory/site acceptance tests (FAT/SAT)
- Standard operating procedures (SOP)
- Periodic reviews
- GMP – consulting
- Audit

Lifecycle Qualification / Validation



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MOBILE ROBOTICS

Mobile robotics has become a central component of industrial automation. In this field, we support industrial customers with system-independent solutions and services for the implementation of complex projects.

Our services include the planning, project management, and integration of mobile robotics, automated guided vehicles (AGVs), cobots, and the software connection of robotics solutions to production facilities. With our interdisciplinary approach, we support our customers every step of the way and ensure seamless processes.

In the area of robotics orchestration, we offer cross-system integration of mobile robotics into existing infrastructures. This comprehensive connectivity enables optimized control of data flows, tailored to specific physical processes.

EXCERPT FROM OUR SERVICES

- Analysis & preparation of the production environment as the basis for robotics
- Robotic process design
- Analysis & design of material handling
- Design system architecture
- Creation of system-independent (digital) specifications, including automation and IT concepts
- System & functional specifications
- Market research and supplier selection
- Cross-system integration of mobile robotics



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VIRTUAL ENGINEERING & SOLUTIONS

The digital twin unlocks a wide range of potential for making development and production processes more efficient, time-saving, and high-quality.

We support our customers in executing engineering processes reliably and in parallel – always with a strong focus on achieving optimal solutions.

We provide consulting, support, and implementation services – from digital planning all the way to full digital twin solutions. We use digital technologies such as 3D modeling and data management to improve the engineering process and enable precise, error-free results.

The digital twin allows real plants to be virtually recreated for precise planning, analysis, and optimization. Its flexible modular design enables individual components to be configured freely, so plant modifications can be tested virtually long before they are realized on site.

EXCERPT FROM OUR SERVICES

- Digital models, planning variants & specifications
- Virtual commissioning
- Risk-free implementation of retrofits
- Digital real-time models
- Plant and machine simulation
- Design and development of standards in automation (real-virtual/digital synchronization)

DIGITAL TWIN – FROM VISION TO REAL-WORLD PLANT OPERATION

Digital engineering

- Process simulations for factories, industrial plants, and machinery

Digital solutions

- Virtual SW creation
- Virtual commissioning
- Virtual training (VR)

Dynamic digital twin

- Productivity increase
- Error analysis and troubleshooting

Closed workflow based on a digital and system-independent technology library



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HOLISTIC AUTOMATION CONCEPTS AND SOLUTIONS

The Industrial Automation Services division covers the full lifecycle of automation systems- from functional specification and system implementation to commissioning, maintenance, optimization, and system replacement.

Our experts develop innovative solutions in process and manufacturing automation and supply standard process control systems and fail-safe controls based on international programming standards. We support our customers in the design and implementation of process automation – from the machine level to ERP integration.

In addition, we actively participate in and collaborate with leading industry committees such as NAMUR and ZVEI. We specialize in the design and specification of the Process Orchestration Layer (POL) in accordance with ISA Levels 3 and 2. Through innovative concepts for process orchestration, we seamlessly combine process engineering, IT, and automation. Our focus lies on process engineering modularization with Process Equipment Assemblies (PEA) and on efficient solutions for process control.

We support plants throughout their entire life cycle. For both new and modernized production facilities, we offer comprehensive automation solutions and develop holistic automation concepts that cover the entire production process.

EXCERPT FROM OUR SERVICES

- Process Automation
 - DCS implementation including EIC planning
 - Recipe control system
 - System integration
- Discrete Automation
 - Package unit/machine integration
 - Implementation of SCADA systems
 - Implementation of LMS solution
- Modular Automation
 - Process Orchestration
 - MTP
 - PU integration
- Building Automation
 - EMSR
 - Control systems
 - Environmental monitoring
 - Energy management



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ELECTRICAL ASSEMBLY AND CONSTRUCTION

Through onoff automation services gmbh, a subsidiary of SpiraTec AG, we deliver a full suite of electrical engineering services – from switch cabinet construction and EIC installation to field cabling, commissioning, and comprehensive service and maintenance.

In the field of automation services, we ensure the high quality of our customers' systems by using state-of-the-art manufacturing processes. To this end, our experienced EMSR assembly team implements the requirements of the systems in terms of installation, operation, and maintenance.

EXCERPT FROM OUR SERVICES

- Construction & assembly management
- Device-integrated fire protection
- Electrical & MSR assembly
- Switchgear construction up to 3000A
- On-site EIC service provider
- Inspection of electrical systems



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IT SOLUTIONS FOR THE DIGITAL FUTURE

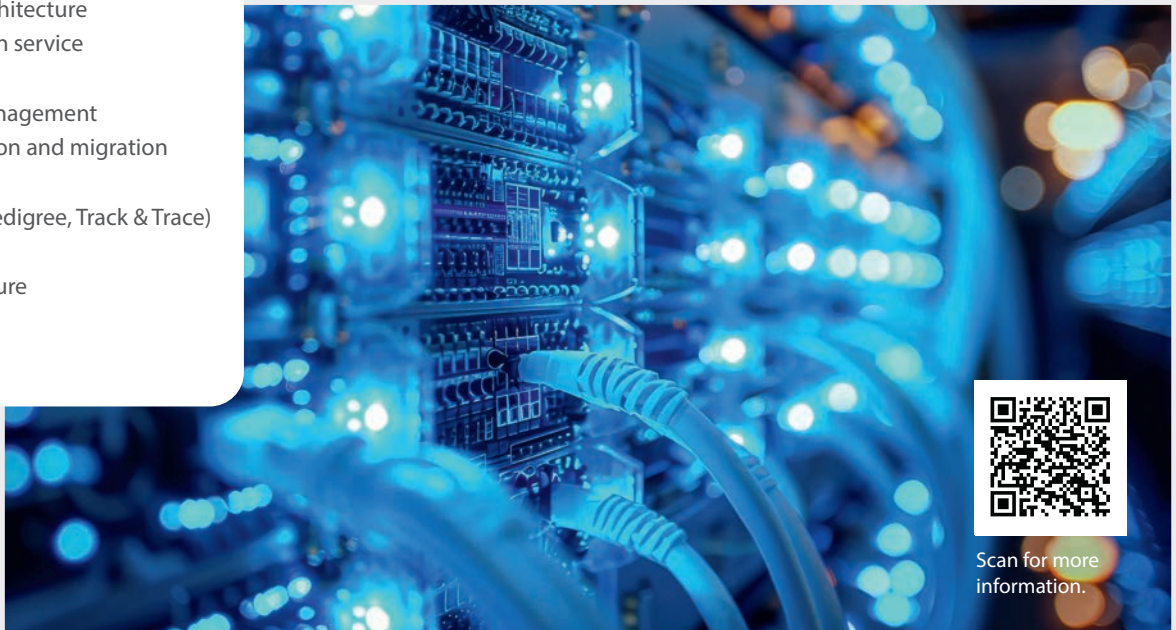
Our Industrial IT Services division guides companies into the digital future. In the age of Industry 4.0, we uncover innovation potential, develop digitalization strategies, and create roadmaps for our customers.

Our Industrial IT Services are divided into the core areas of Manufacturing Integration (ERP, MII, Shop Floor), Manufacturing Operations (MOM, MES, PIMS), Software Development and IT & Automation Infrastructure (Security, Monitoring, Networking).

We offer customized solutions in the areas of data management, system integration, MES, IT/OT security, and hardware. Innovative technologies such as IoT platforms, edge computing, cloud solutions, and microservices drive our developments. We streamline and digitally document production processes while enhancing workflows with AR and AI. Our Technical Service Desk (TSD) provides end-to-end support for project operations and cloud-based environments – ensuring sustainable performance and long-term success.

EXCERPT FROM OUR SERVICES

- IT/OT system architecture
- Cloud integration service
- MES
- Process data management
- System integration and migration (ERP, DCS)
- Serialization (ePedigree, Track & Trace)
- IoT services
- IT/OT infrastructure
- Cyber security



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SERVICE CENTER & TECHNICAL SUPPORT

The growing complexity of modern production facilities and IT landscapes poses major challenges for companies in the process industry. With end-to-end support from 1st to 3rd level, SpiraTec enables customers to handle these demands efficiently and reliably.

Whether as part of a project's go-live phase or as a standalone service, we ensure full support. Our experts provide end-to-end assistance for all IT/OT systems and solutions.

User support, configuration work, and troubleshooting are part of our support services, allowing our customers to concentrate on their core competencies.

EXCERPT FROM OUR SERVICES

- The Technical Service Desk is the first point of contact for our customers, connecting them with our IT experts across a wide range of technologies.
- Through our Service Lines, we assemble specialized teams that provide comprehensive support for a specific project or customer.
- In the area of Premium Support, we also offer customized solutions, such as 24/7 support through on-call services with our own hotline, short response times, and direct access to a dedicated team of IT specialists and MES consultants.

SPIRATEC GROUP

OUR LOCATIONS



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