

PEACE OF MIND IN A CHANGING WORLD. THAT'S SPIE INDUSTRY SERVICE.



SPIE, sharing a vision for the future



SPECIALIST FOR AUTOMATION SOLUTIONS

SPIE AUTOMATION has around 350 employees at 10 locations in Germany. We are a holistic project partner, from the initial idea through development to implementation and maintenance. We support our customers with service and products in the fields of automation, robotics, digitalization, manufacturing, assembly and relocation as well as process engineering and maintenance and repair.

Automation

- Electrical and Mechanical Design
- PLC Programming and Process Visualization
- Process Control Systems
- Robot Programming
- Machinery and Plant Safety
- Measurement and Testing Technology
- Technical Documentation

Robotics

- Lightweight and Transport Robots
- Industrial Robots
- Customized Robotics Solutions such as E.FLEX
- System Integration and Data Analysis

Digitalization Solutions

- Customized Software Solutions
- AI Solutions
- Research & Development
- E-Learning
- Radar Technology
- SaaS Solutions such as E.RAMP

Manufacturing

- Control Cabinet Construction (According to UL508A)
- Test Stands

Assembly and relocation

- Electrical and Mechanical Assembly
- Decommissioning and Disposal
- Equipment Setting
- Machinery Relocation
- Safety Supervision

Process engineering

- Piping Design
- Safety Studies
- Process Design
- Decarbonisation and Energy Efficiency

Maintenance and servicing

- Spare Parts Shop for Industrial Electronics
- Drone Inspections
- Plant Maintenance and Retrofit
- 3D Laser Scanning and LiDAR Scanning

SPIE AUTOMATION is part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria. Together, our specialists form a powerful, global team for high-quality industrial services in the wind, water, energy, industrial and process industry segments. We create holistic solutions from planning and realization to installation, operation and maintenance to relocation and decommissioning. We support our customers managing the challenges of digital transformation and ecological change in their industry.

SPIE Germany Switzerland Austria is the leading independent multi-technology service provider for buildings, plants and infrastructures. With our broad technical expertise and as a reliable partner, we accompany our customers into a successful future.



SPECIALIST FOR CONSULTANCY AND ENGINEERING SERVICES ALONG THE COMPLETE LIFE CYCLE OF RENEWABLE ASSETS

SPIE EREDA combines all skills and competences for projects development and EPC management, supporting you with the final asset in mind.

SPIE EREDA has a large experience in wind and solar PV resource analysis in Europe, LATAM, Africa and Asia, with +35 GW of projects identified, assessed or verified. Hybridization studies with or without storage, with further engineering services and its implementation. Our clients have placed their trust in us for more than 180 project designs with +10 GW, more than 2 GW of Technical Windfarm Due Diligence or WTG, PV and BOP inspections in 80 projects with +4 GW.

SPIE EREDA supports you throughout the project cycle for a battery energy storage system from the initial analysis, proposing customized solutions and providing the necessary studies and data for the most appropriate decision making for your project and investment. We provide an agnostic view on the technical solution based on the lowest total cost of ownership and maximum revenue over the life of your project.

Resource Assessment

- Mesoscale Studies for Developers, Governments and Institutions
- Wind Measurement Campaigns
- Wind Farm and PV plant Design and Energy Reports
- Hybridization studies and Energy reports

Engineering

- Hybrid and storage systems design
- Wind Farm and PV plant Layout and concept design
- Design modifications and retrofits in Wind Turbines
- Basic / Detailed BOP Engineering

Asset Due Diligence

- Performance-, Permit and Interface Analysis
- Technical Reports
- Asset Risk Assessment
- Continuous Asset Monitoring and Identification of Issues

Lifetime Extension

- Technical Windfarm / PV / BESS Due Diligence
- Analysis of the Asset History
- LTE Concept / Modification of WTG design

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SPECIALIST FOR AUTOMATION, ROBOTIC AND INTRALOGISTICS

As part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria, SPIE ESCAD is today one of the 100 most innovative companies with around 200 employees at four locations in Germany and Austria. Our innovative minds and technical professionals have made us a holistic project partner from the initial concept to product development for more than 25 years now. We are a reliable holistic system partner for renowned customers in a wide range of industries covering automation, collaborative lightweight robotics, intralogistics, system integration and plant engineering.

Engineering

- Requirements and functional specifications development
- Planning and concept development
- Commissioning/service
- Product and production equipment development
- Mechanical design
- FEM calculation
- Electrical design
- SPS and robot programming
- Process control engineering
- LMS systems
- Process visualization
- High-level language programming
- Testing software development
- Trainings/seminars

Retrofit

- Industry 4.0 readiness of existing machines/systems
- Plant modernization and retrofitting

CE/technical documentation

- Consulting/safety of machinery and systems
- Safety concept/layout
- Risk analysis/CE conformity

Industrial electronics

- Replacement parts trade (incl. online shop)

- Repair and maintenance service (incl. hotline 24/7)
- System analysis and seminars

Robotics & intralogistics

- Lightweight robots/collaborative robots
- Driverless transport systems for intralogistics
- Product consulting / System integration
- Standardised/customized solutions
- Commissioning/training
- After-sales support and service

Manufacturing and assembly

- Control cabinet construction (EN ISO, UL508A)
- Mechanical and electrical assembly of components
- Partial and complete systems

Digitalization industry

- customer specific SW development
- Product development (e.g. E.RAMP - own ESCAD product)
- Embedded Systems (incl. HW development, e.g. industrial radar technology)
- Design / build / operate cloud environments (Google Cloud, Azure)
- Automation of data processes (bulk data processing)
- Processing and analysis of industrial data
- SaaS (Software as a Service) & IaaS (Infrastructure as a Service)

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SPECIALIST FOR THE HEAT-UP, DRILLING AND DRAIN OF GLASS FURNACES

We offer top quality and reliable service in the field of float, container/hollow glassware, specialty glass and fiber-glass! We constantly pursue this objective by regular investments both in our staff who works for you and also in the tools and machines that are used for the completion of your project.

On-site Service

- Heat-up & expansion control
 - » Maximize the potential service life of your glass furnace
 - » High-velocity system ensures even temperature distribution with unique control
- Temperature & expansion measurement
 - » Precise monitoring of the temperature & expansion measurement during glass furnace heat-up
 - » Digital measuring devices at the latest state of the art ensure an exact recording of temperature and expansion
- Glass filling
 - » Reduces dust on your furnace construction
 - » Installation of a vibrating feeder or cullet wetting system before the blower
- Drilling & drain of the glass furnace
 - » Secure drain of your furnace with reduced water consumption
 - » Up to 60m long spout
 - » Water recycling by separation of the water from granulated glass and recirculation of the water by means of pumps (cycle)
- Regenerator cleaning
 - » Increase efficiency of your regenerators by removing of the sulphate by melt-out

- Refractory drilling
 - » Installation and drilling of additional holes according your requirements
 - » Possible diameter: 10 to 300mm
- Temperature hot hold of the furnace during repairs
 - » Repair of your regenerators without the need for drain, cooldown or production stop
 - » Hot hold of the furnace at approx. 1250 °C

Support

- Excelsius technicians work worldwide
- Workshop & maintenance facilities at the location in Lohr offer the best support for our technicians on duty
- Equipment transport & logistics: our long-standing experience in this field guarantees our planning and logistics personnel successful transports of the equipment to your project site and back.

Equipment Sale & Rental

- Following an increased number of requests from you globally to purchase or rent our equipment, we decided to establish the Excelsius Rental Services GmbH to specifically deal with your requirements.

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SPECIALIST FOR ENDOSCOPIC HOT INSPECTIONS OF THERMAL PROCESS EQUIPMENT AND DRYING OF ALUMINUM SMELTING FURNACES

SPIE FIOS have been servicing industrial furnaces throughout Europe for over 20 years. We carry out controlled heat-ups to safeguard customers' investments and ensure smooth operation of their processes in the glass, metals (steel, cast iron & aluminium) and cement industries. We do this using software and hardware developed in-house and have the expertise required to provide heat up and inspection services in a safe manner. SPIE FIOS are proud to provide you with top-quality, reliable services.

On site services

- Inspection of industrial melting units & components up to 1800°C both during shutdown and operation, using Video, image or infrared based options
 - » Video inspections are carried out using SPIE FIOS Technology with full final reporting
 - » Infrared videos can also be produced showing heat / temperature distribution
 - » Top quality images and still photographs of the unit both in color and infrared can be extracted from the video footage
- Heat-up & refractory dry-out services for industrial melting units & components
 - » Thermographic temperature monitoring during heat-ups or dry outs
 - » Remote heating technology - increased cost efficiency
 - » Steam pressure monitoring of refractory linings during heat-up
- SPIE FIOS auditing of industrial melting units & components
 - » Reliable data reporting for use by furnace builders, owners, investors and insurance assessors

- » Clear and concise presentation of the results illustrated with pictures and videos for a clearer understanding by all users.
- » Audit data and results are available for download direct from the SPIE FIOS server

Support

- SPIE FIOS globally, operate from their head office and workshop facilities in Freital, Germany
- SPIE FIOS Head office & workshop offers the very best support for our field staff, with direct and continual communication
- SPIE FIOS logistics, our partner is an international specialist for transport of our resources globally. With more than 20 years experience of working together as a team, we can offer delivery on time every time for your projects.

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SPECIALIST IN COMPLEX AND INDIVIDUAL PUMP SOLUTIONS

As a manufacturer-independent company with 35 years of experience, we specialize in all kinds of services around pumps, e. g. for boiler feed pumps, adjustable and not adjustable vertical turbine pumps as well as horizontal split casing pumps for energy, environmental and industrial companies.

In addition to that we offer reverse engineering for spare parts that are complex or no longer available. Our well-trained teams are at home in the fields of service, maintenance and process optimization for many years and are familiar not only with all popular pump types from established manufacturers but also with the processes of your plant. Their long-lasting experience is a huge added value for our customers all around the world.

Service Centre

- Execution of repairs, conversions and wear protection systems at our service center

On-site service

- Execution of extensive inspections and repairs directly on site or in the customer's plant

Maintenance and service contracts

- Execution of measurements and machine diagnostics
- Inspection, servicing and commissioning of all popular pumps and associated units

Reverse Engineering

- 3D measurement of components with an accuracy of 0.04 mm
- Reproduction independent of the material

Procurement management

- Delivery of spare parts
- Manufacturing of customized parts to customer specification, irrespective of type, age and manufacturer of the pump

Spare pumps/replacements

- Procurement of 1:1 replacements for irreparable pumps
- If necessary, adaptation of the performance characteristics to modified plant conditions
- No adaptation of foundations and infrastructure

Well-certified

- DIN EN ISO 9001
- DIN ISO 45001
- 3.1-Restamping authorized
- ATEX authorized personnel

SPIE FLUIDSERV is part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria. Together, our specialists form a powerful, global team for high-quality industrial services in the wind, water, energy, industrial and process industry segments. We create holistic solutions from planning and realization to installation, operation and maintenance to relocation and decommissioning. We support our customers managing the challenges of digital transformation and ecological change in their industry.

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SPECIALIST FOR THE SAFE CONTROL OF ENERGY, WATER AND TRAFFIC

SPIE GESA specializes in project engineering and execution of electrical and mechanical process systems. SPIE GESA designs complex systems for the water and waste water industry, industrial and traffic facilities and energy supply. Engineering takes up a substantial part of the SPIE GESA performance spectrum. The secure operation of facilities requires experience and know-how from process engineering to installation of the facility. Our engineers and technicians design electrical and mechanical process systems as well as the technology for process analysis and control. They design and develop individual software for process control and monitoring.

Our services:

- Engineering
- Design and construction of low-voltage switchgear
- Medium voltage equipment & transformers
- Installation of electrical and measurement equipment

Our core areas:

WATER SUPPLY AND WASTE WATER DISPOSAL

Implementation of facilities with high process automation with which waterworks, waste water treatment plants, pumping stations and supply networks can efficiently and safely work with by measurement and control technology.

ENERGY SUPPLY:

The energy supply is an important part of our service range. These include the delivery and commissioning of transformer stations, block heat and power plant, uninterruptible power supplies, medium voltage and low-voltage main distribution boards.

GESA supports you in the construction / modification of your INDUSTRIAL PLANTS in the field of EMSR (electrical engineering, measuring and control technology).

TANK SYSTEMS & PIPELINE

GESA equips fuel and gas supply facilities in the military and civilian sector with electro-technical hardware. Our engineers design and implement the necessary software for controlling and recording the relevant processes for liquid gas and mineral oil tank farms, airfield refueling tank systems, EKW and TKW refueling systems and gas cylinder filling systems pipelines.

SERVICE AND MAINTENANCE

Our qualified service staff performs all necessary inspections and maintenance work. Spare parts supply and fast response in case of faults or damage is guaranteed due to our comprehensive stock.

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SPECIALIST FOR REFRACTORY DRYOUT, HEATUP AND FURNACE DRAIN

Since 1965, SPIE HOTWORK USA has provided unsurpassed on-site services to the refractory consuming industries of the world. With over 25,000 successful projects completed worldwide to date, our experience is second to none. At SPIE HOTWORK, safety is #1 and we take great pride in our impeccable safety record. Our equipment and personnel are strategically placed across the globe to meet our customer's needs. We are your Refractory Dryout, Heatup and Furnace Drain Specialists.

On-site Services Provided:

- Refractory Dryout
 - » Reduce risk of damage and maximize refractory campaign life by properly controlling the dryout and curing process with SPIE Hotwork's proprietary burner technology.
- Furnace and Vessel Heatup
 - » Refractory linings constructed of brick or those which have already been dried and put into service can still be damaged by improper heating. Controlled heating of these refractory linings is critical to their performance and longevity.
- Glass Furnace Draining with water recycling ability
 - » Reduce water consumption and discharge with water containment and recycling
 - » Safely empty the furnace quickly while saving raw materials (cullet) that can be used later
- Glass Furnace Cullet Screening and Filling- Vibratory or Blown
 - » Quickly fill the using the blown method and reduce dust through cullet screening or wetting.
 - » Maximize dust reduction while filling the furnace by using the vibratory method.
- Thermal Regenerator Cleaning
 - » Improve furnace efficiency by melting out sulfates that can clog the furnace regenerators.
- Combustion Fired Post Weld Heat Treatment (PWHT)
 - » For large vessels it may be impractical to perform the PWHT using electrical methods. In those cases, the combustion fired method may be more economical.
- Furnace Hold Hot
 - » Whether it be a glass furnace, a cement kiln or an aluminum furnace, sometimes upsets in production or processes may require the need for an external heat source.
- Coating Cures and Other Services
 - » Some industrial coatings require "forced air" curing in order to be ready for service. Ambient conditions may not be sufficient to satisfy the curing schedule. SPIE HOTWORK personnel and equipment can provide the heat needed.
 - » We have heated rocket launch pads, crematoriums, ship boilers and weapons disposal facilities. No matter the reason, if you need heat, we have got it!

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SPECIALIST FOR MAINTENANCE, INSPECTION, REPAIR AND PIPING CONSTRUCTION

We offer our customers high-grade assembly and industrial services in the area of piping and plant construction. We are particularly specialized in the planning and execution of preventive maintenance measures, the execution of repairs of chemical plants, power plants, and other industrial plants as well as the realization of service contracts in the area of industrial plant construction, installation and dismantling of mechanical equipment and piping installations. The compliance with and implementation of highest quality and safety standards is our first priority.

System Servicing and maintenance

- Maintenance according to DIN 31051
 - » Servicing
 - » Inspection
 - » Repair
- Optimization of maintenance processes
- Industrial servicing solutions

Project management and plant construction

- Project management
- Interface management
- Contract management
- Safety management
- Materials management
- Quality assurance/monitoring based on project-specific quality assurance manuals

Shutdown planning and -execution

- Recording and planning of repair points
- General planning and coordination
- Preparation of hazard and risk analyses
- Interface monitoring
- Preparation of testing plans
- Traffic and route planning, logistics conception

Prefabricated piping

- Central prefabrication with extensive storage areas on approx. 52.000 m²
- Complete prefabrication of pipe systems
- Nominal diameters from DN 25 to DN 1400
- Pressure stage ranges from PN 6 to PN 320

Orbital welding

- Versatile application possibilities due to the use of the latest equipment
- With closed tongs up to WS (wall thickness) 3.0 mm
- Excellent suitability in the food and pharmaceutical industries
- Production of piggable lines DIN 2430-1

Quality features/certifications

- DIN ISO 45001
- DIN EN ISO 14001, DIN EN ISO 9001
- DIN EN ISO 3834-2
- AD 2000-Merkblatt HP0
- Agreement concerning the proper restamping – AD-regulations and PED
- Welding supervision acc. to DIN EN ISO 14731
- DIN EN 1090-2 EXC3/DIN EN 1090-1
- WHG acc. to §62 AwSV
- DVGW GW 301
- AGFW FW601

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SPECIALIST FOR PROJECT MANAGEMENT, DELIVERY, ASSEMBLY AND COMMISSIONING OF INDUSTRIAL PIPES

We are present throughout Europe at the sites of our customers in the shipping, chemical, process and energy sectors. Our portfolio of services ranges from plant and pipeline construction, prefabrication services, skid and module manufacturing to equipment assembly, insulation, corrosion protection, EMSR and structural steel erection. For us, compliance with and implementation of the highest quality and safety standards is a top priority in our corporate philosophy.

LNG- and Methanol Piping

- Engineering Support
- Project Management
- Material procurement
- Warehousing
- Jacket Piping
- Single Piping
- Prefabrication
- Installation
- Non-Destructive Testing
- Corrosion Protection
- Insulation
- Documentation
- Commissioning Support

Project Management/Plant Management

- Documentation management
- Project planning
- Monitoring of production
- Progress Schedule tracking
- Quality management

Pipe Prefabrication and Installation

- Manufacturing of pipe spools
- CAD-controlled technical processing and isometric creation
- Documentation and acceptance according to project specifications
- Daily monitoring of construction progress and real-time monitoring of each individual work step via QR

Module and Skid Manufacturing

- Complete solution for modules and skids with gaseous and liquid media up to 500 bar internal pressure
- Professional assembly under clean room conditions and with high cleanliness requirements
- Oil and grease-free in accordance with oxygen applications

Equipment Installation

- Transport, logistics, coordination and installation
- Assembly, alignment and completion

SPIE INDUSTRIEMONTAGEN is part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria. Together, our specialists form a powerful, global team for high-quality industrial services in the wind, water, energy, industrial and process industry segments. We create holistic solutions from planning and realization to installation, operation and maintenance to relocation and decommissioning. We support our customers managing the challenges of digital transformation and ecological change in their industry.

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SPECIALIST FOR NUCLEAR POWER PLANT, POWER PLANT AND INDUSTRIAL SERVICES AS WELL AS THE DECOMMISSIONING OF NUCLEAR INSTALLATIONS

SPIE KOBAL has been a successful provider of nuclear power plant, conventional power plant and industrial services for 30 years now. We are your partner for the safe and timely completion of your decommissioning and dismantling projects with our highly qualified, experienced and motivated teams. We work all over Europe for end customers such as large energy supply companies and industrial companies and also for manufacturing companies and specialized service providers in contracts for work and labor, but also supply of temporary workers.

Dismantling

- Dismantling/decommissioning of nuclear power plants and conventional power plants
- Dismantling of large components
- Cross-departmental dismantling projects
- Operating residual material processing centers
- Provision of specialist personnel to support dismantling as well as operation of residual material processing centers

Maintenance and post-operation

- Shutdowns of
 - » Nuclear power plants
 - » Conventional power plants
 - » Industrial plants
- Provision of specialist personnel to support operation, post-operation and shutdowns

Certified occupational safety & quality

- Permission in accordance with § 25 StrlSchG
- DIN EN ISO 45001
- DIN EN ISO 9001
- Permit for the supply of temporary workers

Highly qualified personnel

- Project managers
- Site managers & supervisors
- Fitters (skilled workers, foremen, craftsmen)
 - » Valve/pump fitters
 - » Turbine/tank fitters
 - » Pipe fitters
- Dismantling specialists
- Gantry/circular crane operators
- Charging/assembly machine operators
- Personnel for foreign missions

Special services for nuclear power plants

- Provision of personnel for Castor campaigns
- Reactor pool service
- Reactor crane and charging machine operators

References

- Disassembly HKML and HKMP
- Disassembly of thick-walled vessels such as blow-off tanks, pressure accumulators and pressure holders
- Dismantling of mass trades such as pipelines and steel structures
- Use of circular equipment and wire saws

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SPECIALIST FOR GENERAL PLANNING AND TURNKEY REALIZATION & QUALIFICATION OF PROJECTS FOR THE PHARMACEUTICAL INDUSTRY & GMP LABORATORIES

We are a multidisciplinary team of specialists in the planning and realization of demanding projects in the life science industry and cleanroom technology. As a reliable general planner, general contractor and highly committed service provider, we support our customers in the pharmaceutical, biotechnology and healthcare sectors throughout the entire life cycle of their facilities and buildings. We have in-house expertise/specialist for the planning and implementation of all trades.

Process technology

- Pure media
- Laboratories
- Upstream/downstream
- Process automation

Qualification/IBN

- Qualification/Validation
- Commissioning
- GMP Consulting
- Computer System Validation
- Maintenance

Technical trades

- Ventilation technology
- Electrical engineering
- Black utilities
- Architecture/Construction
- Clean room finishes
- Building Management + EMS
- CAD/Space Management

Project and construction management

- Senior project management
- Project Management
- Site management

We plan, realize and qualify projects and have references from 200m²-19,000m² in the following industries:

Healthcare

- Manufacturing pharmacies
- Radionuclides
- ATPM

Biotechnology

- Vaccines
- Blood fractionation
- mAB

Pharmaceutical

- Industry
- Aseptic filling
- Ointments and tablets

Laboratories

- Chemical laboratories
- Laboratories

Services

- Qualification
- GMP consulting
- Process stimulation

SPIE LIFE SCIENCE ENGINEERING is part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria. Together, our specialists form a powerful, global team for high-quality industrial services in the wind, water, energy, industrial and process industry segments. We create holistic solutions from planning and realization to installation, operation and maintenance to relocation and decommissioning. We support our customers managing the challenges of digital transformation and ecological change in their industry.

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SPECIALIST FOR MAINTENANCE, INSPECTION, REPAIR & OPERATIONAL IMPROVEMENT

Cooperation with our customers is based on trust and forms the core principle of SPIE MLB. We offer individual service concepts from a broad spectrum of technical expertise. Our service offer includes customized solutions that are perfectly coordinated to the needs of our customers.

Industrial service

- Maintenance/repair of production and industrial systems
- Dismantling/assembly of production and industrial systems
- Steelwork and pipeline construction (steel, stainless steel, plastic)

Electrics/Electronics

- Repair of production equipment, troubleshooting and support during shutdowns
- Disassembly/assembly of industrial equipment
- Mechanical work on a small scale
- Cable way construction
- Cable pulling and clamping work
- Control cabinet construction
- Cabling according to drawing
- Creation of data networks in copper
- Creation of data networks in fiber optics (mounting, splicing, measuring)
- Testing, repair and support for calibration of scales
- Testing of stationary and mobile electrical devices

Machine processing

- 2x 5-axis machining center (DMU60)
- Long-bed machining center
- CNC lathes and milling machines/CNC boring mill
- Flat grinding and lapping

Workshop assembly

- Complete production of assemblies/plant components including piping and electrics
- Complete production of welded assemblies including machining and painting
- Sheet metal working/sheet metal construction
- Folding press (width 3,000 mm, thickness up to 100 mm)
- OMAX water jet cutting system (3,000 mmx1,500 mm, thickness up to 100 mm)

Mechatronic

- Control system engineering
- Sensor systems
- Precision mechanics
- Testing equipment according to the Industrial Health and Safety Ordinance, documentation, preventive maintenance, repairs
- UVV inspections (hoists, fire doors, doors, crane systems and elevators)
- Rack and ladder testing

Quality features/certifications

- DIN EN 1090-2 EXC2 and EXC3
- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 45001
- Federal Water Act certification
- Approval for CE-marking
- AD2000 HP0 Pressure Equipment Directive mod. A2
- Permit for personnel leasing

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SPECIALIST FOR DATA CENTER AND END-TO-END NETWORK INFRASTRUCTURE

SPIE Network Services is a consulting and service company originating in the telecommunications sector. With our almost 100 engineers, we offer engineering, development and testing services for complex IT infrastructures, e.g., for IoT/Industry 4.0 solutions. From our roots in telecommunications and our many years of expertise in this field, we have mastered the core element of 5G campus networks and connectivity in the Internet of Things.

Our sound expertise in the field of communications technology makes us a reliable partner for the prevailing growth in digitization of industry based on the implementation of the 5G mobile communications standard. Our customer base includes well-known telecommunications and industrial companies in various sectors.

Our pool of local experts always puts us in the right place at the right time and can provide additional near-shore capacity in Europe, as required. This guarantees us maximum flexibility to optimally meet all customer requirements. We make decisions within 24 hours and can thus realize the fastest speed of response, which gives our customers clear competitive advantages over the long term.

Network engineering from 2G to 5G

- Design & planning
- Optimization & rollout
- Servicing
- Vendor & Quality Management

End-to-end network consulting

- Analysis, development and advancement of business models
- Assessment of existing infrastructures, gap and TCO analyses
- Product, innovation and requirement management

Operation of network and data center infrastructures

- Service management/incident management
- SLA & KPI tracking
- Preventive & field line maintenance
- Service & Network Operating Center

Testlab as a Service

- Project management
- Vendor and partner management
- Test management & execution
- Environment management
- Rapid impact assessment
- Change request management

Infrastructure as a Service

- Construction, servicing and modernization of the data center infrastructure
- Securing the data center
- Provision
 - Computing power & storage space
 - » Server/network structures & databases
 - » Virtualization environment
 - » Software

Sourcing solutions for enterprises/carriers

- As a Service
- System integrator
- Managed services

SPIE NETWORK SERVICES is part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria. Together, our specialists form a powerful, global team for high-quality industrial services in the wind, water, energy, industrial and process industry segments. We create holistic solutions from planning and realization to installation, operation and maintenance to relocation and decommissioning. We support our customers managing the challenges of digital transformation and ecological change in their industry.

SPIE Germany Switzerland Austria is the leading independent multi-technology service provider for buildings, plants and infrastructures. With our broad technical expertise and as a reliable partner, we accompany our customers into a successful future.



SPECIALIST FOR THE DEVELOPMENT AND MANUFACTURE OF PROTOTYPES AND SPECIAL SOLUTIONS

We're your specialist for engineering and for manufacturing prototypes and prototype components in vehicle construction. We support our customers with their new developments in automotive/electromobility, rail, driver testing and industrial processes. We design and manufacture special-purpose vehicles, functional models, mock-ups, cubing systems and special equipment for manufacturing and testing processes. We create carbon fiber-reinforced plastic (CFRP) and glass fiber-reinforced plastic (GFRP) laminating tools for our customers, or for producing of mock-ups in-house for the tram and rail industries. The production of small series for vehicle construction rounds off our portfolio. Our customers appreciate our longstanding experience combined with high-quality and monitored processes in accordance with TISAX and DIN ISO standards. With us, your idea and your projects are in safe hands.

Rail vehicle industry & public transportation

- Core competence in the mock-up business
- References throughout Europe since 15 years
- Models for local and long-distance transportation vehicles
- Competent project management
- Development, manufacture, assembly and transportation from a single source
- Partner for interior and exterior components
- Specialist for CFRP, GFRP and composites
- Manufacturer of small and special series for rail vehicle construction

Industry and mechanical engineering

- Project management, construction, design samples and prototypes for alternative mobility
- 3D design, manufacture and assembly of simulators for special devices and vehicles
- CNC one-off production and assembly according to customer data
- 3D measurement with log

Automotive industry / Electromobility

- Certified development service provider
- Prototype construction and test parts
- Autonomous vehicles
- Cubes, design models
- Small and special series
- Model and mold construction
- 3D printing in cooperation in metal and plastic
- Equipment design and -building
- Measurement and test equipment
- CFRP measuring standards
- Welding and assembly equipment for individual workstations or for robot cells

Driver testing and component development

- Test and long-distance runs of two-wheeled vehicles
 - » On circuits and test routes
 - » In public road traffic
- Test and data evaluation
- Component development for two-wheeled vehicles
 - » Prototypes
 - » Pre-series components

SPIE PROTOTYPING is part of the operational division Industry Service & Wind of SPIE Germany Switzerland Austria. Together, our specialists form a powerful, global team for high-quality industrial services in the wind, water, energy, industrial and process industry segments. We create holistic solutions from planning and realization to installation, operation and maintenance to relocation and decommissioning. We support our customers managing the challenges of digital transformation and ecological change in their industry.

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SPECIALIST FOR ASSET MANAGEMENT & DIGITAL TRANSFORMATION

As a specialist in the design, implementation and optimization of maintenance solutions and plant management, we advise process driven industries such as power plants, automotive, transportation, public transport, paper, chemicals, oil & gas and plant construction.

With 40 years of experience, we are the market leader for EAM solutions in the nuclear industry in German speaking countries with innovative solutions for dismantling.

In the DACH region, SPIE RODIAS is one of the longest standing and most experienced business partners of IBM and Infor for Enterprise Asset Management Systems (EAM).

SPIE RODIAS is a consulting company for maintenance processes, change management and the digitization of value chains in asset-intensive industries. We support the introduction of sensor technology, condition-based and predictive maintenance as well as AI-supported strategic platforms. We support companies in a sustainable Maintenance 4.0.

Our offerings for strategic and operational asset management

- Digital transformation
- Maintenance planning
- Mobile solutions
- Asset Performance Management
- Sensor technology & Predictive Maintenance
- IoT, connectivity, interoperability
- Clearance Processes
- Standstill management
- Planning optimization
- Maintenance on demand
- Operations management
- Dismantling planning

Our tools, products & solutions

- Insight Mobile®
- Insight Map®
- Insight Explorer®
- Insight X-Ray®
- Insight Dashboard®
- Insight Planning®
- OPTIRA® - Planungsoptimierung
- openBMS - Betriebsführung
- Maximo Data Management Tool
- IBM Maximo Enterprise Asset Management
- HxGN EAM (former Infor EAM)

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SPECIALIST FOR DECOMMISSIONING AND WASTE MANAGEMENT IN NUCLEAR FACILITIES

SPIE SAT has been operating successfully for more than 20 years. Our trained and skilled employees specialize in the demolition of nuclear facilities and are active in Germany and throughout Europe. Our key strengths are in the planning and implementation of demolition projects, radiation protection, decontamination, waste management as well as in cleaning up hazardous materials from industrial sites. We are also a competent provider of specialist personnel in the industrial, technical and academic sectors. Our expertise is used in nuclear facilities, research institutes and by customers in the medicine, pharma and chemical industries.

Demolition and removal

- Decontamination, gutting and demolition of components and buildings as well as entire sites ("green-field").
- Removal and dismantling of highly contaminated systems, machines and plants using powerful equipment and remote controlled appliances.

Handling and conditioning

- Disassembly and sorting of contaminated waste with consideration to nuclide vectors and acceptance criteria
- Assessment and radiological characterization of historical waste according to waste disposal legislation
- Conditioning and waste package production for the final repository incl. disposal documentation
- Planning/implementation of waste treatment systems, special machines, remote controlled systems

Specialist personnel services

- Flexible project support from nationwide provision of specialists (Engineers, radiation protection engineers, technicians, site managers, fitters etc.)
- Mobilization of staff for overseas assignments

Waste management

- Disposal planning for waste material eligible for clearance
- Complete solutions for the operation of waste management facilities
- Disposal/handling solutions for (TE)-NORM waste
- Clean up of hazardous waste from industrial sites (incl. chemical, oil & gas, pharma)

Decontamination and clearance measurement

- Building contamination and approval
- Practical radiation protection and radiation protection measurement technology
- Creation of contamination registers, clearance measurements for laboratories and waste water systems
- Comprehensive documentation and application for clearance

Our certifications

- Permission in accordance with § 25 StrlSchG
- Permit for the supply of temporary workers
- Handling agent for hazardous waste (KrWG)
- Asbestos and man-made fiber removal, work in contaminated areas
- DIN EN ISO 9001, DIN ISO 45001, SCC

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SPECIALIST FOR CUSTOMIZED SWITCHING & POWER SUPPLY SYSTEMS IN LOW AND MEDIUM VOLTAGE

With more than 20 years of experience in the market, SPIE SNG specializes in the design, planning, manufacture, assembly, visualization and servicing of low and medium voltage switchgear and power supply systems. Customers mainly include state construction authorities and large companies that appreciate precision and years of experience. SPIE SNG attaches great importance to quality, flexibility and customer requirements, which is why all work is carried out by the company itself as a complete package from planning and preparing quotations, through ordering, production and installation and maintenance of installations, to complete commercial processing in all areas.

Planning

- Advising customers
- Planning in EPlan; AutoCad; Tekla; Neplan; Simaris; Zenon
- Designing and planning transformer stations
- Visualizing and controlling installations
- Container installations
- DC and UPS installations
- Energy storage & busbars
- Network calculations & eMobility

Manufacturing

- Switchgear cabinet construction - control and supply
- Low-voltage main distribution board and motor control center up to 7000 A
- Scaffold distributor up to 3200 A
- Energy storage

Civil engineering

- Cable routing and cable ducts
- Foundations, paving & asphaltting works
- Surveying

Outdoor lighting

- Planning, delivery & assembly
- Designing outdoor lighting
- Foundations incl. statics
- Illumination measurement

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Assembly

- Transformer stations
- Dismantling and disposal
- Concrete stations
- Medium voltage installations (SF₆ gas and air insulated)
- Low-voltage main distribution board installations
- Busbars
- Emergency power generators
- Raised floor and steel structures
- eCharging infrastructure

Service

- Maintenance according to the German social accident insurance (DGUV) elec. inst.
- Transformer station maintenance
- Earthing measurements
- Testing protection technology
- Network analysis
- Oil analyses & EMC measurement
- Service contracts and standby service
- Thermal imaging and evaluation
- Steel construction

Planning and design, Statics

- Transformer rails and grid construction
- Hot-dip galvanizing
- Powder coating



SPECIALIST FOR ASSET MANAGEMENT

SPIE Spectades is a Hexagon Alliance partner and provides consultancy services for successful implementation of the HxGN EAM CloudSuite™. SPIE Spectades has over 25 years of experience in maintenance, project and program management, calibration, business development and services management. SPIE Spectades is your Asset Management partner for successful implementation and optimization of HxGN EAM. We develop and supply various plug-ins.

Our team of 20+ specialists and our many successful implementations makes us the largest HxGN EAM Alliance partner in Europe. We exclusively provides our services for HxGN EAM. This solution has various plug-ins and options which enable you to expand its functionality.

Our offerings for strategic and operational asset lifecycle management

- Anticipate current market demand
- From reactive to predictive maintenance
- Improve productivity with industry leading asset management software (Gartner)
- Extending the asset life cycle
- Successful implementation of HxGN EAM
- Configuration of HxGN EAM
- Successful optimization of HxGN EAM
- Biggest consultancy partner of HxGN EAM
- Based in the Netherlands
- Certified consultancy specialists
- Certified ISO 9001, 270001 and 140001
- In-house EAM trainer
- Flexible software
- Powerful plug-ins like OpenCAD, Beamex, Updocs, Planning & Scheduling
- Advanced way of managing your Assets
- Large product knowledge
- Due to the knowledge complexity will our consultants think out-of-the-box
- Day-to-day activities through our Highly Skilled services-desk team. 24/7 contact

Our tools, products & solutions

- SPECTADES Planning & Scheduling
- SPECTADES Mobile app
- SPECTADES Servicedesk
- SPECTADES Updocs
- SPECTADES Trainings
- SPECTADES OpenCAD
- SPECTADES Safety blueprint - Permit To Work
- License check on number of users
- SPECTADES Asset Information & Maintenance
- Beamex connector
- Plant4D connector
- HxGN EAM CloudSuite
- HxGN Mobile

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SPECIALIST FOR SERVICES IN WIND - ON-SHORE AND OFF-SHORE

SPIE Wind combines all competencies and services related to wind turbines, both on- and offshore. We are distinguished by maximum readiness to innovate, cross-manufacturer technical expertise, and proven proficiency – not least thanks to our deep know-how in prototype construction. As an independent service partner for manufacturers, owners and operators, we ensure that on- and offshore wind turbines across Europe reliably produce a total output of over 170 GW.

Installation & Commissioning

- Installation, mechanical/electrical completion and commissioning of wind turbines
- Grid connection, low- & medium-voltage assemblies
- Connection, commissioning of switch & transformer-stations

Service & Maintenance

- Preventive & corrective maintenance at wind turbines
- Basic and full-service contracts
- Repairs and retrofits
- Periodical inspections (turbine inspection, statutory safety checks, statutory electrical checks, video endoscopy, thermo-scans etc.)
- Inspection for lifetime extension expert opinions
- End-of-warranty inspections
- Main component exchange (e.g. gearbox, azimuth gearbox, pitch gearbox, generator, switchgear, transformer)

Blade Services

- Internal and external rotor blade inspections via rope access technology, platform, drone and camera
- Rotor blade repairs to rectify structural, serial, transportation, manufacturing and erosion damages

Innovative Services

- Development, production, delivery, installation of aviation light systems and tower markings according to ICAO
- Aviation light on-demand solutions (ADLS, BNK)
- Development and production of cost-effective retrofit solutions for aviation light systems
- Electrical installation / repair services low- & medium-voltage
- Electrical checks DGUV V3, cable tests (VLF), isolation checks, earth protection tests, protection relay tests (trip tests), transformer maintenance

Support

- Project management, site management, HSE management, NCR management
- Conducting standardized health and safety training, technical trainings
- Material dispatch for maintenance services (receiving, quality check, set-up, shipment)
- Combined services crane/installation (CI), transport/crane/installation (TCI) on demand

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SPIE INDUSTRY SERVICE GMBH
GANGHOFERSTRASSE 70 | 80339 MÜNCHEN
E-MAIL: SALES@SPIE-ISW.COM
TELEFON: +49 89 54843970
SPIE-INDUSTRY-SERVICE.COM