

# Services

## Process & manufacturing industries

### Consulting

- Discussions with clients
- Basic assessments/Pre-Basic

### Basic-Engineering

- Technical requirement specifications
- Conceptual and operational solutions
- Functional drawings
- Calls for bids
- Measurement sheets and lists

### Detail-Engineering and Instrumentation

- Specification of key items of equipment
- Generation of installation documentation
- Specification of cabling system
- Process control group plans
- Assembly specification
- Determination of material requirements
- Specification of equipment
- Cost control
- Requests for quotations
- Order preparation / advice
- Bid comparison
- Progress monitoring

### Assembly contract award & support

- Preparation for installation
- Specifying and supervising the installation process

### Commissioning and project handover

- Functional testing, loop checking
- Training operational personnel
- Handling TÜV inspections
- Project handover
- Documentation/revision

### Documentation

- Instrumentation and control drawings using in-house CAE/CAD systems
- Project documentation (reports, records, manuals etc.) on client specific software systems
- Generation of test certificates

### Service

- Maintenance and troubleshooting
- Optimization of functional processes and parameters
- 24 h callout

# Services at a glance

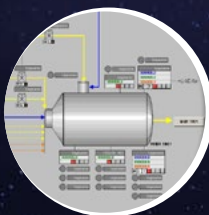
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# Services

## Services & Systems



Measurement & control technology



Process automation PLC/PCS



Machinery & plant automation



Digitalization/IT/Robotics



Building services engineering



Electrical engineering



Health-Safety-Environment for standardized CE marking



Smelting plant, foundries & bulk goods technology



PRE-VENT® Control valves

ENGINEERING IS OUR PASSION



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# Our range of services

# Systems



	Measurement & control technology	Process automation PLC/PCS	Machinery & plant automation	Digitalization/IT/Robotics	Building services engineering	Electrical engineering	Health-Safety-Environment	Smelting plant, foundries & bulk goods technology	PRE-VENT® control valves
Instrumentation	Cost estimation and realization: Pre-Basic-, Basic-, Detail-Engineering Instrumentation	Project ITTs & reconstruction concepts Layout network engineering & bus technology	Process Data Acquisition Trend identification/evaluation Visualization	Material flow control systems, Production logistics Quality management	Lighting engineering PC-, network engineering Safety lighting	Switchgear technology (0,4 kV up to 110 kV) Transformer stations	Functional safety, including SIL-certification compliant with EN 61508/EN 61511 Risk analysis compliant with: HAZOP, PAAG, LOPA	Bulk goods equipment (stirring, grinding) metering systems for filling Wireless temperature measurement technology	Rotary plug valves 2- and 3-way valves with pneumatic, electrical and hydraulic actuators
PLC	Assembly invitation, machine tender Commissioning & start-up Planning according to ATEX-RL 2014/34/EU Final documentation	Generating specification documents with PLSDOC & COMOS Configuration of controller & control systems Process simulation using WinMOD Profibus measurement TÜV approvals Retrofit	Hard- & Software design for machine automation Axis controls Virtualization Process analysis & Process optimization Vertical/horizontal Integration – from production to ERP	Operational-/Machine data collection Maintenance-, stock- and recipe management RFID Solutions Tracing of charges Network setup Identification	Presentation & media technology Video surveillance Access control & security centres Telephone & wireless systems Fire detection systems & preventive fire protection Conferencing equipment & public address systems Building system EIB/KNX Escape & rescue plans GEO information plans	Design & planning of electric distribution networks Remote systems Signal & alarm systems Control voltage supplies & backup power sources Meter readings Power factor correction Safety technology Electrical trace heating	Safety of machinery EN ISO 13849-1 / EN 62061 Hazard analysis compliant with EN ISO 12100 Preparation of CE conformity declaration (CE-mark) Safety of fuel plants EN 50156/EN 746 Explosions protection according to ATEX-RL 2014/34/EU Explosions protection document according to §6 Ordinance on Hazardous Substances	Weighing of high loads in harsh conditions at production furnaces, pans and crucibles RFID identification in harsh & hot surroundings (transport ladles & aluminum crucibles) Gas mixing & dosing systems: melting pool gas injection (GDS)	Self operated valves Special editions for gases, fumes and liquids Nominal diameters DN15 to DN300 Nominal pressures PN10 to PN420

Process and manufacturing automation

Machinery & plant automation / IT/Production management / Logistics 4.0

**PLC**

- Siemens S5/S7/TIA-Portal
- B&R Automation Studio
- B&R Prosys Euro/Multi/Mini
- Beckhoff

**PLC safety related**

- Siemens F-Series
- Honeywell FSC
- HIMA H41/H51 ELOP I/II
- HIMatrix ELOP II Factory
- HIMA SILworX V5
- B&R Automation Studio
- ABB 800xA/AC800M HI
- Pilz PNOZ-Multi

**NC systems**

- SINUMERIK 810D, 840D, 840C
- B&R Automation Studio
- SIMOTION

**Telecontrol**

- SEA (SAT) Ax 1703 (Controlling)
- SEA (SAT) 250 SCALA (Visualization)

**Plant simulation**

- Siemens SIMBApro with WinMOD
- B&R Automation Studio (MATLAB/Simulink)

**PC based visualization**

- Siemens COROS
- Siemens SIMATIC WinCC
- Siemens SIMATIC WinCC flexible
- Siemens SIMATIC ProTool
- Wonderware InTouch
- Zenon
- Rockwell PanelView
- LabView

**PCS**

- Siemens Teleperm AS/OS
- Siemens PCS7
- ABB Industrial IT System 800xA
- ABB Contronic P
- ABB Symphony
- ABB Melody
- ABB Freelance
- ABB Advant System
- ABB Procontrol P
- B&R APROL
- Emerson DeltaV

**Production management system MES**

- fiwa iMesCC
- Siemens Simatic IT

**Interfaces**

- OLE, DDE, OPC, Batch API, XML, COM, Socket
- Connection to ERP systems (e.g. SAP)
- Connection to SPS/PLS
- Connection to distributed peripherals (Profibus etc.)

**Client/Server- and Web applications**

- Borland Delphi
- MS VisualStudio.NET (C#, VB.NET, ASP.NET etc.)

**Databases**

- Oracle
- MS SQL
- MS Access
- Interbase

Engineering Software

**CAE**

- COMOS Customizing and Engineering
- COMOS Sales and Service Partner in Romania
- DDS (Data Design System) Intelligent Building Services
- AUCOPLAN
- MS Project, project management
- ORCA, calculation/bidding
- M PRO, instrumentation
- F.I.R.S.T. CONVAL, valves dimensioning
- PRODOK

**CAD**

- AutoCAD
- ELCAD
- MicroStation SE
- promis
- RUPLAN
- EPLAN
- Rasterex
- WSCAD