

WE DEVELOP FASCINATING SOLUTIONS.

MECHANICAL PRODUCT DESIGN & CONSTRUCTION



... so that technology works.



Certified according
to DIN EN ISO 9001

WEBER – TECHNIK PUR

Passion for technology.

Since 1979 WEBER has stood for innovative solutions in future-oriented technology. We develop, design and produce these solutions for a large number of well-known customers, spanning the industries of mechanical engineering, medical technology, commercial vehicle and automotive technologies, as well as many other industry branches.

We realize your projects from planning and design, through development and testing of

electronics, to production, installation and on-site commissioning of manufacturing lines.

In all phases, our staff implements your every need, even the most extraordinary ones. For your projects, we offer you either support or the complete implementation and handling of your development with all current CAD systems, from concept to prototype to series readiness. Integrated in your on-site development team or as a completed work package in our development centers.

Mechanical Product Design means with WEBER:

- ▼ Production and assembly-oriented product development from concept to series production development
- ▼ Design and surface modelling with all common CAD systems
- ▼ Product validation through tolerance analysis as well as design and process FMEA
- ▼ Installation investigation and installation space analysis
- ▼ Kinematic simulation
- ▼ Value Engineering, Cost to Design with involvement of Industrial-Engineering specialists
- ▼ We offer project managers tailored to your needs, as well as resident engineers, product developers and designers
- ▼ We manage our resources (employees, licenses) demand-oriented, individually adapted to your project schedule
- ▼ Many years of expertise in the development of complex mechatronic modules
- ▼ Global project support
- ▼ On site or at our development centers

Methods / Tools

- ▼ QM-methods (Design-FMEA, Process-FMEA using APIS IQ-Software)
- ▼ CAD-Tools (CATIA V5, Pro/ENGINEER / Creo, Siemens NX, SOLIDWORKS, Solid Edge)
- ▼ FEM simulation
- ▼ Model-based dimensioning (GPS)
- ▼ Setting up specific customer environments and standards
- ▼ Database connection to customers, OEMs and checker tools (HQM, Q-Checker)
- ▼ Data transfer via DXM, VPN or WEBER Share
- ▼ Teamviewer and Skype Business
- ▼ PDM-systems a.o. SAP/R3



Product design from concept to prototypes up to the start of production.

Construction Mechanical & Plant Engineering means with WEBER:

- ▶ Production- and assembly-oriented design from the functional module to the complete machine/system and devices
- ▶ Concept, design, preparation of drawings and documentation with all common CAD systems and tools
- ▶ Protection in accordance with the Machinery Directive (risk analysis, operating instructions)
- ▶ Calculation and design of machine elements (FEM simulation, tolerance analysis)
- ▶ Electrical, hydraulic, pneumatic plans, P&I flow diagrams, floor plans
- ▶ Work preparation (process instructions, work and rework instructions)
- ▶ Coordination with customers and suppliers, support in purchasing, production, assembly and commissioning
- ▶ International interim management (project coordination, deadlines, quality, release)
- ▶ We offer project managers and designers for draft and detailed design
- ▶ We manage our resources (employees, licenses) demand-oriented, individually adapted to your project schedule
- ▶ Many years of expertise in vacuum technology, system installations and the food industry (EHEDG)
- ▶ On site or at our development centers

Methods / Tools

- ▶ QM-Methods (Safexpert)
- ▶ CAD-Tools (SOLIDWORKS, Pro/ENGINEER/Creo, Solid Edge, CATIA V5, Inventor)
- ▶ Electrical design using EPLAN, E3.series
- ▶ Setting up specific customer environments and standards
- ▶ Database connection to customers
- ▶ Data transfer via DXM, VPN or WEBER Share
- ▶ Teamviewer and Skype Business
- ▶ PDM-systems a.o. SAP/R3



FURTHER SERVICES.

Competences that complement each other.

Automation

- ▶ Assembly systems
- ▶ Individual automation solutions
- ▶ Robotics
- ▶ Test stands in-line, end-of-line, stand-alone
- ▶ Commissioning & start-up support
- ▶ Maintenance, assembly and service
- ▶ Equipment and devices
- ▶ Prototype, sample construction and built up
- ▶ Control cabinet construction
- ▶ Database management
- ▶ Image processing projects

Engineering

- ▶ Embedded software development
- ▶ Control engineering
- ▶ Project, Test & Error Management
- ▶ Quality assurance
- ▶ Testing (module, integration, system)
- ▶ Tool development
- ▶ Industrial engineering
- ▶ Electrical construction
- ▶ System engineering
- ▶ Business IT
- ▶ Cable harness development
- ▶ Engineering along the V-model

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Test Center

- ▶ Temperature and climate tests
- ▶ Temperature shock tests (air / water)
- ▶ Vibration and mechanical shock tests
- ▶ Electrical tests
- ▶ Corrosion tests
- ▶ Dust tests
- ▶ Water tests
- ▶ Chemical resistance tests



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