

VIRO Group

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration.

Your partner for special machine construction

We implement and deliver turnkey solutions thanks to our own assembly and commissioning facility. From mechanical finishing work through to electrical and software applications, right up to on-site FAT acceptance testing, we offer you a full range of services.



Our services

- Special Machine Construction
- System Integration
- Turnkey Solutions
- Automation
- Electrical Engineering & Instrumentation
- Software & Automation
- CE & Machine Safety
- Calculation & Simulation
- Project Management

We take charge of your entire project and handle the turnkey delivery, including integration into your process environment. We support our customers throughout the entire development process, working with them as long-term partners. We develop and build functional prototypes tailored precisely to customer requirements.

The added value of VIRO



Dr. Florian Winter Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en

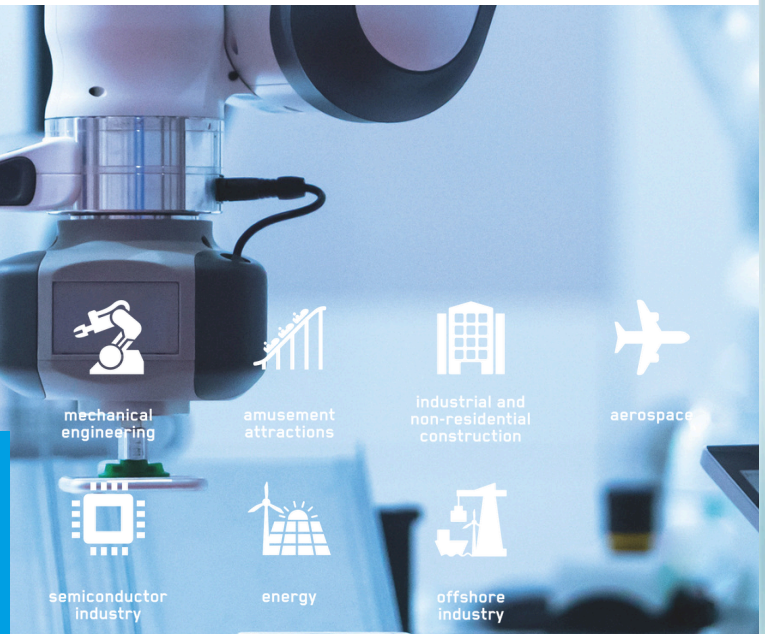


Mechanical Engineering

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration.

With many years of experience in mechanical engineering, we support companies through every stage of plant and machinery design. Our experts guide you from the initial concept through to final implementation, ensuring that machinery and plant are optimally designed, reliably constructed and engineered to be future-proof.



Our services

- Analysis of technical and economic feasibility
- Development of technical solutions and concepts
- Evaluation and design of functions, components, machines and technical systems
- Creation of 3D models and technical drawings in all standard CAD systems
- Holistic consideration of interdisciplinary interfaces

Your benefits

- Relief for internal resources through rapid, objective analysis and external engineering expertise
- Creation of clear solution approaches and a framework for further development and design
- Provision of precise design data for coordination with production and manufacturing
- Reduction in subsequent adjustments and development effort
- Increased planning reliability and efficiency in the development process

The added value of VIRO



Dr. Florian Winter
Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en

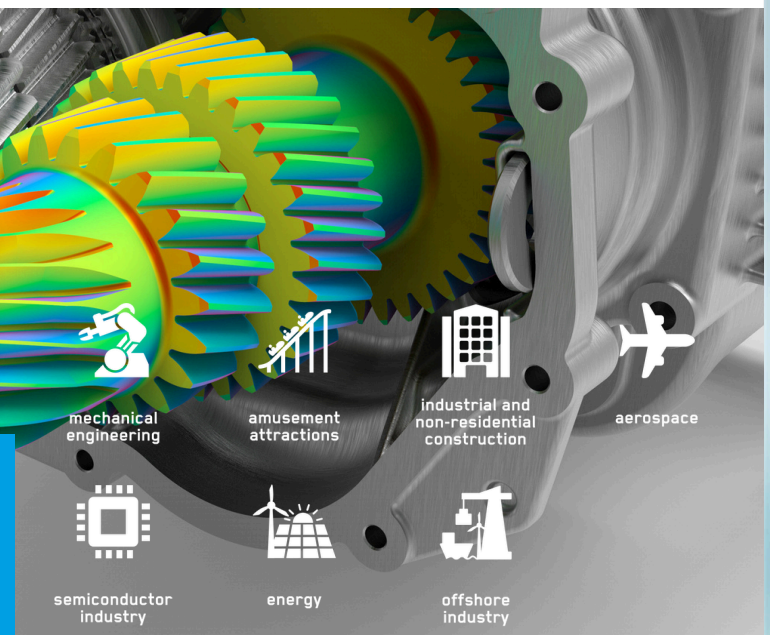


Analysis & Simulation

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration.

With our many years of experience in the field of calculation and simulation, we provide in-depth analyses and simulations for a range of industries. As a reliable partner, we support companies every step of the way, from the initial idea through to successful implementation.



Our services

- Finite Element Analysis (FEA/FEM)
- Multi-body simulation (MKS)
- Computational Fluid Dynamics (CFD)
- System simulation (1D)
- Noise, vibration and harshness (NVH)
- Discrete element modelling (DEM)

Your benefits

- Higher product quality through weight optimisation, longer life and greater process reliability
- More efficient use of materials and better material utilisation
- Early detection of overloads and risks of damage

The added value of VIRO



Documentation in line with the standard:

FKM guideline, VDI 2230, DIN EN 13155, DIN EN 13001, DVS, DIN EN 13814, Eurocode 3 and other relevant standards and guidelines depending on the specific application

Dr. Florian Winter Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en



Electrical Engineering & Instrumentation

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration. With many years of experience in electrical engineering, we support companies through every stage of the design process for electrical systems and machinery.

Our experts will guide you from the initial concept right through to final implementation, ensuring that electrical systems are optimally designed, reliably engineered and safely commissioned.



Our services

- Project management
- Concept development and project planning
- Preparation of circuit and fluid diagrams
- 3D CAD routing
- Safety concepts
- Control cabinet optimisation
- Commissioning (FAT/SAT)

Your benefits

- Project management from a single source
- Reliable and standards-compliant electrical solutions
- Increased plant and process reliability
- Reduced development and commissioning times
- Smooth FAT/SAT acceptance tests
- Scalable solutions for simple and complex plants

The added value of VIRO



Dr. Florian Winter
Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en



Software & Automation

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration. With many years of experience in software and automation, we support companies through every stage of software and automation development.

Our experts guide you from the initial idea right through to implementation, ensuring that control and software solutions are optimally planned, implemented and designed to be technologically future-proof.



Our services

- Project management
- Concept & project planning
- Development, integration and commissioning of control and software solutions
- PLC/HMI programming
- Robotics applications
- Software specifications
- Software analysis and testing
- System simulations
- Commissioning (FAT/SAT)

Your benefits

- Project management from a single source
- Flexible and individual automation solutions
- Increased plant and process reliability
- Reduced development and commissioning times
- Smooth FAT/SAT acceptance tests
- Scalable solutions for existing and new plants
- Reliable interfaces between software, PLCs, HMIs and robotics

The added value of VIRO



Dr. Florian Winter
Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en



CE & Machine safety

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration.

With many years of experience in machine safety, we support companies throughout the entire CE process: from safety consulting and concept development, through performance level calculation, to the integration of functional safety.



Our services

- CE conformity assessment and CE marking in accordance with MRL/MVO
- Safety assessment for products (e.g. load-handling equipment), machinery and plant
- Risk assessment and functional safety
- Retrofit
- Process safety
- ATEX (explosion protection)
- Compliance engineering

Your benefits

- Legally compliant implementation
- Comprehensive support from a single source
- Minimisation of liability and operational risks
- Expert support with complex safety-related issues
- Efficient project management
- Planning certainty for special solutions

The added value of VIRO



Dr. Florian Winter
Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en



Defence

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration.

In the defence sector, we develop and implement safety-critical systems in compliance with all relevant requirements of the **VS-NfD** security classification. We work flexibly, either on clients' systems or in our secure project environments.



Our services

- Product development from the concept phase through to production readiness
- System integration of mechanical, electrical and software components
- Implementation of turnkey plants and systems
- Electrical design & instrumentation
- Software development & PLC programming
- Industrial automation
- Calculation & simulation for structure, dynamics and loads
- A full range of services relating to CE conformity

Your benefits

- Experience in product development, electronics and engineering within the defence sector
- Rapid scalability through multidisciplinary teams
- Reduction in interfaces through integrated services from a single source
- Predictable results through structured project methodology and clear lines of responsibility

The added value of VIRO



Dr. Florian Winter
Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en



Turnkey solutions

VIRO Group

The VIRO Group is a family-run engineering firm with 13 branches, supporting clients in the development and implementation of bespoke technical solutions. Our core competencies lie in product development, mechanical engineering and the realisation of complex industrial projects, including engineering, project management and turnkey system integration.

In our own assembly hall, which covers around 600 m², we assemble and test complete systems, including FAT/SAT, prior to delivery. In this way, VIRO complements its engineering expertise with direct implementation right through to the finished system, all with a single point of contact throughout every phase of the project. This is a key advantage for many customers.



Our services

- Specification (requirements) & functional specification
- System architecture
- Concept development & proof of concept
- Basic & detailed engineering
- Electrical & automation technology
- Procurement, assembly & system integration
- FAT/SAT, commissioning & documentation
- Service, maintenance & training

Your benefits

- Turnkey solutions from a single source
- Reduction in the effort required for interfaces and coordination
- Faster project implementation
- High level of planning and cost certainty
- Relief for internal resources
- Verified quality thanks to early testing
- Solutions that comply with standards and are ready for operation
- Lower risk during implementation and commissioning

We are your partner for individual machine engineering and automation solutions.

The added value of VIRO



Dr. Florian Winter
Sales Manager

+49 5424 221 44 36

f.winter@viro-group.com

www.viro-group.com/en

