



Experts in Control, Protection and Monitoring of Rotating Machinery

- Steam turbines
- Compressors
- Gas turbines
- Turbo-expanders
- Diesel engines
- Generators

Solutions

- Control systems
- SCADA/HMI
- Overspeed protection
- Compressor surge protection
- Interlock & Protection systems
- Actuation devices
- Trip valves/assemblies
- Fuel valves
- Power management
- TurboInsight® - Remote monitoring

Services

- Consultancy
- Feed studies
- BDEP and DDEP services
- Dynamic simulation
- Technical support
- Site services
- Commissioning and start-up services
- Long Term Service Agreements (LTSA)

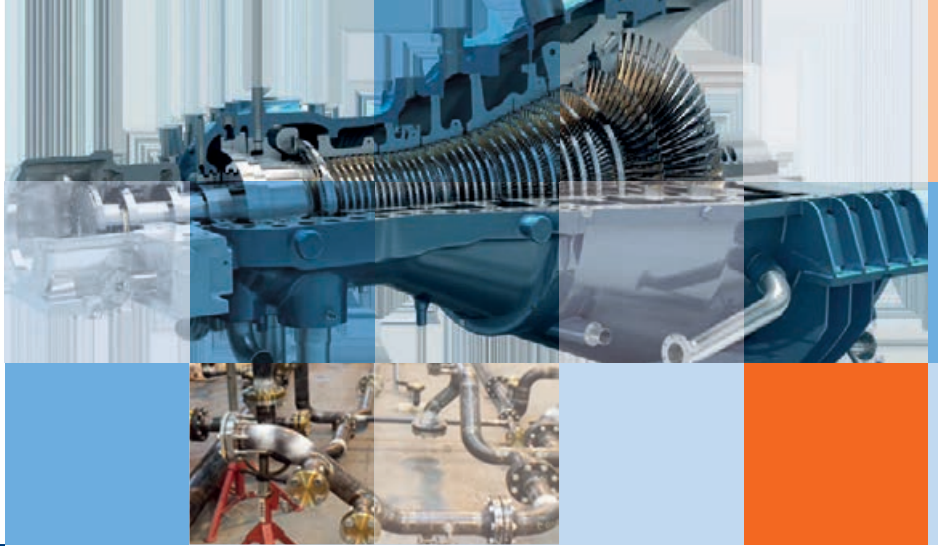
Founded in 2006 in the Netherlands, Control-Care has become a leading provider of advanced control solutions for turbomachinery. With offices in Europe and the Middle East, and a presence in Asia and Africa, Control-Care is strategically positioned to meet the specialized needs of clients across a broad region and beyond.

Proven Expertise

Specializing in hardware-independent turbomachinery control solutions for renowned PLC and DCS systems, Control-Care boasts an experienced team of professionals capable of addressing complex control challenges with precision and efficiency. With a team of experienced management and staff who have previously worked for leading companies in the industry. Understanding the unique demands of different industries, we provide a wide range of control applications and customized solutions designed to meet the specific needs of our clients.



Control systems for turbomachinery and beyond!



One-Stop Shop

- Project management
- Engineering
- Procurement
- Software programming
- Assembly
- Simulation
- Testing
- Installation
- Piping
- Electrical
- Instrumentation
- Civil works
- Commissioning
- Training
- Warranty

Focus Areas

Control-Care's focus lies in optimizing performance through efficient and reliable control systems. Our expertise in turbines, compressors, turbo-expanders and engine controls and actuation solutions, fuel systems, anti-surge and performance control, power management, generator control, synchronization, load balancing and load sharing, excitation & automatic voltage regulation, vibration monitoring, safety systems, overspeed protection, and trip valves enables us to provide innovative and reliable solutions that enhance the operations of our clients across the world. Leveraging cutting-edge technology, we ensure optimal performance while reducing operational costs for our valued partners.

Key Strengths

A core strength of Control-Care is the ability to execute projects as a one-stop shop with precision. From planning and implementation to commissioning, we handle every stage of the project execution process seamlessly. Our vast experience enables us to efficiently coordinate between various parties and disciplines. This comprehensive approach ensures transparency and accountability, resulting in cost-effective and timely project delivery.

One-Stop Shop projects for turbomachinery controls and beyond!

Comprehensive Control Applications

Control-Care's field proven turbomachinery control applications have been developed as control platform independent and are implemented as native functions blocks within a PLC or DCS environment. Control applications are available for

- **Compressor Control:** From axial to radial and from straight forward packaged compressor units to complex and critical gas compressors with sideloads. This includes performance control, anti-surge control, auxiliary sequencing, surge protection and advanced (predictive) performance deviation algorithms.





- Turbine Control:** From single back pressure steam turbine to double extraction/admission condensing steam turbine and from single shaft industrial gas turbine to twin and triple shaft aero-derivative gas turbines; our control applications control it all. (Gas)Turbine interlocks, reset and readiness, startup, speed control, admission/extraction control, Isoch and droop control, loadsharing and loadbalancing. Available for driven units such as generators, compressors and pumps.
- Expander control:** Our control application will work on single stage radial to integrally geared to multistage (axial) gas expanders. Expander shutdown interlocking to startup readiness to startup to expander pressure/flow control to expander bypass control.

Comprehensive Services

In addition to project execution services, our engineering & field services offer a complete suite of solutions. From system design and engineering to installation, testing, maintenance, and support; our services cater to all aspects of control system needs globally. Our team collaborates closely with clients to identify their specific requirements, delivering tailored solutions that exceed expectations.

Solutions offered using	
Control-Care Control Applications	Steam Turbine (STCA), Gas Turbine (GTCA), Expander (PCA), Compressor Antisurge (ACA), Compressor Performance Control (PCA), Load Balancing or Station Control (SCA), Power Management and more applications for various PLC and DCS control hardware platforms
PLC/DCS Control Platforms	Siemens, Rockwell, ABB, Hima, Emerson, Honeywell, Valmet, Yokogawa, Woodward, Gebhardt, Schneider Electric
Dedicated Turbomachinery and Generator Controls	Woodward, Voith, Heinzmann, DEIF
Generator AVR, Excitation and Protection	Basler Electric, Leroy Somer, SEG, DEIF, Beckwith
Overspeed Protection	Woodward, Braun, Hima, Sensonics, Bently Nevada, Emerson
Actuators & Fuel Valves	Voith, Woodward, Rexa, Flowserve, Heinzmann, Exlar
Trip Blocks and T&TVs	Voith, Woodward, IMI, ASCO (Emerson), Gimpel (Siemens)
SCADA/HMI	Aveva Citect, Wonderware, iFix, Cimplicity, WinCC, Iconics, Factory View
Vibration and Condition Monitoring	Bently Nevada, Sensonics, MC Monitoring, Emerson, Artesis

Strategic Collaborations

At Control-Care, we give paramount importance to fostering partnerships that continuously enhance our technological capabilities. This strategic approach has empowered us to establish meaningful collaborations with industry-leading Original Equipment Manufacturers (OEMs), providing us with unrestricted access to cutting-edge technologies essential for delivering state-of-the-art control solutions globally.

Our network of machine OEMs includes prominent names such as MAN Energy Solutions, Siemens, Elliot, MHI, and more. In the realm of PLCs & DCS OEMs, we work with Siemens, Rockwell Automation (Allen Bradley), Hima, Woodward, Honeywell, ABB, Emerson, Valmet, Yokogawa, and others. Additionally, our collaborations extend to actuation systems OEMs, featuring renowned names such as Voith, Rexa, Hydac, IMI, Flowserve/Valtek, Exlar and more.

This comprehensive list, though not limited to these names, highlights our commitment to leveraging a diverse and distinguished array of OEM partnerships for the benefit of our clients and the delivery of exceptional control solutions.

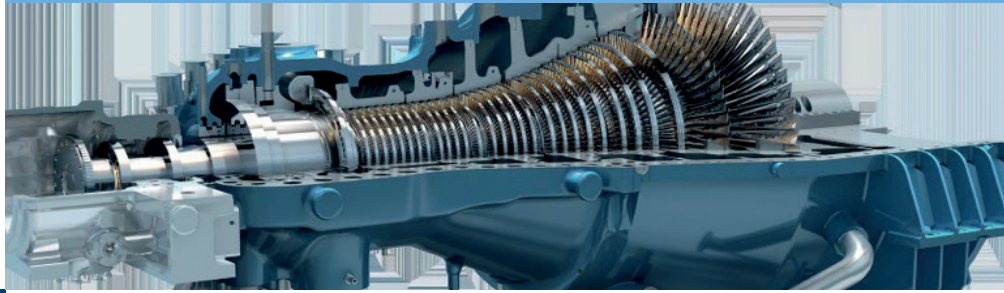
Engineering services for turbomachinery controls and beyond!

Control-Care in UNITED ARAB EMIRATES

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Training courses
for rotating
equipment
and beyond!

Customer-Centric Approach

We take pride in being a customer-centric company focused on delivering exceptional value through quality products and superior services. Our commitment to meeting clients' unique needs and exceeding their expectations has earned us a reputation for excellence. We strive to foster long-term relationships with our clients based on trust, reliability, and mutual respect.

Team Dynamics

Control-Care is not just a company; it is a team of dedicated professionals sharing the same passion for delivering top-notch control solutions. We stay up-to-date on the latest technological advancements, constantly updating our skills to provide innovative solutions that drive success for our clients.

Conclusion

Control-Care is your trusted partner for all your turbomachinery control needs. With our expertise, experience, and commitment to quality, we are well-equipped to deliver cutting-edge solutions that optimize performance and enhance productivity for our clients.

**The highest standard for every
turbomachinery controls challenge!**

” Let us take care of your
control systems while you focus
on driving growth and success
in your business. ”