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As the only consultancy and service provider, FORCE Technology is able to offer complete solutions that accommodate our customers at all organisational levels and improve their competitiveness.



About FORCE Technology

Who are we?

FORCE Technology is one of the leading technological consultancy and service providers on the international market. We are focused on transforming highly specialised engineering knowledge into practical and cost-effective solutions for a broad range of business sectors and industries. These solutions strengthen our customers' competitiveness and are based on our understanding of the customers and the different businesses. This understanding has been acquired through handling thousands of different issues for our customers for more than 60 years.

One-stop-shopping

By virtue of our broad and complementary range of technologies and

knowledge, we can offer our customers "one-stop-shopping". We advise, develop and serve our customers within the following core areas:

- Optimisation of production and processes
- Materials utilisation, protection and analysis
- Maritime technology
- Integrity management
- Inspection, testing, calibration, verification and certification
- Sensor technology development and application
- Management systems optimisation and development
- Energy and environment.

Our vision

Our vision is to be the customers' preferred co-operation partner in projects involving a large amount of specialised knowledge. We want to participate in such projects from the initial idea phase to delivery of the turnkey project. On completion of the project, we ensure that the customer receives the functionality, efficiency and value creation expected.

Our mission

Our mission is to develop and market value-creating technologies, solutions and services that improve the competitiveness of our Danish and international customers – and thus help customers to achieve their business goals and visions.



We put together inter-disciplinary project teams of experts and consultants for solution of the individual tasks, whether it involves consultancy, training or new developments.

Why choose FORCE Technology?

One sparring partner for everything

We never view a system or a process as an isolated entity but rather as part of a larger picture. We have therefore laid out our services and expertise in such a way that they cover the entire process – from idea through implementation to delivery and documentation.

Based on internationally recognised expertise, practical experience and business knowledge as well as the application of the newest and most advanced technologies and methods, our focus is on:

- Consultancy and service based on the customer's specific situation and requirement
- Value creation in the customer's business processes, production and products
- Education and training of the customer's employees with a view to productivity improvements
- Access to the international networks of other experts so that the customer always receives up-to-date expert assistance
- Sharing knowledge and risk through partnership
- Visible and measurable results in the form of reduced costs and minimal wasted production.

In other words – you will have a partner who is able to deliver all the necessary services for your projects. Therefore, you only have to "shop" in one place and you will even be able to free up resources for other tasks within your company, which will ultimately provide you with better profitability.

FORCE Technology offers more than 250 different courses ranging from welding technology, NDT, corrosion and materials technology to environmental audit and quality management. We also customise courses so that they fulfil the individual company's specific requirements and wishes.

Services across all areas



In our three wind tunnels we test, for example, the design of buildings, ships, bridges and platforms so that the construction is optimised according to our customers' requirements.

At FORCE Technology, we have divided our activities into ten areas according to specialist knowledge and competence. From these ten business areas, we put together interdisciplinary project teams of experts for the individual tasks, depending on whether it involves consultancy, training or new developments.

In this way it is ensured that our customers always gain access to the right knowledge and expertise and ultimately obtain the best and most value-creating solution. In order to further guarantee a high level of quality for our customers, FORCE Technology maintains a large number of important DANAK accreditations (Danish Accreditation body).

We also participate in a number of international co-operation schemes regarding accreditations.

A brief presentation of our business areas with emphasis on a small number of our specific services is given below.

Welding and production innovation

Comprises consultancy services and the performance of tasks within all known welding methods – from arc welding to laser welding as well as professional welding courses. FORCE Technology offers person and system certification of welders and welding tasks by FORCE-Dantest CERT.



- Production management, process optimisation and automation
- Design of welded structures and quality control of welding tasks
- Laser processing, cutting and surface treatment.

Sensor and NDE innovation

Provides consultancy services and carries out tasks within the optimisation and streamlining of productivity and employee safety. FORCE Technology has the most modern and advanced sensor technologies for quality control, identification and reduction of faults during production processes. FORCE Technology uses only its own specially trained inspec-

tors, technicians and engineers for testing.

- Development and sale of equipment for automated testing
- Tracer studies in the process industry, offshore and at wastewater treatment plants
- Customised sensor solutions for production control and management
- Special testing (subsea, nuclear power etc.).

Inspection and testing

Offers testing in accordance with all known international standards – including non-destructive testing (NDT) and destructive testing. Masters all NDT methods and

operates with a network of inspectors, who are at the disposal of the customers 24 hours a day. FORCE Technology uses only specially trained inspectors for testing and is accredited by DANAK and SWEDAC (the Danish and Swedish Accreditation bodies). Furthermore, we offer training and certification of NDT employees.

- NDT and inspection – especially of welded structures, pressure vessels and pipe systems
- Materials and product testing, including safety and functional testing according to EU directives
- Testing of welding and procedure tests as well as NDT equipment.



Integrity management

Assists in the planning and implementation of inspection and maintenance programmes for offshore and pipelines, among others. This includes materials and corrosion technology, inspection, structural analysis, structural lifetime calculations and services for the qualification of new technology.

- Design and hazard engineering
- Inspection planning and maintenance optimisation
- Corrosion monitoring and protection.

Energy and environment

Provides advisory and consultancy assistance to ensure optimum benefit from environmental and energy investments

in relation to current authority requirements and market possibilities. FORCE Technology uses accredited laboratories and own experts with internationally recognised expertise within our measuring and analysis activities.

- Energy control and optimisation
- Total environmental consulting
- Air pollution and noise measurements.

Materials and analysis

Has internationally recognised expertise within materials technology. FORCE Technology combines a high degree of professional competence with impartiality and ability to be at the site quickly, for example in connection with breakdowns. We also offer

the inspection of concrete and composite structures by use of advanced equipment. The chemical analysis activities are comprehensive and support all areas of FORCE Technology.

- Damage and breakdowns investigations
- Corrosion protection and monitoring
- Choice of materials.

Measuring technique

Ensures optimum calibration and functioning of production equipment. FORCE Technology participates in international co-operation within metrology and has been approved as a National Reference Laboratory in selected areas.



We help you to make the right choice of materials. At FORCE Technology, we have comprehensive experience within the choice of materials and disposal of a wide range of equipment for materials analyses.

- Calibration and verification
- Type testing
- Courses and consultancy services.

Maritime industry

Provides consultancy within the design of vessels, drilling platforms, ports etc. FORCE Technology can also attend to the education and training of the customers' employees in order to ensure the best possible relationship between man and machine.

- Model tests (offshore, bridges, buildings, CFD calculations etc.)
- Simulation and on board products
- Training of officers.

System and management development

Provides advisory services and spars with companies within all business sectors in connection with the design, implementation, development and auditing of management systems. Furthermore, we conduct a large number of courses within system and management development – as open courses and company-customised courses. Electronic management systems is also one of our focus areas.

- Quality – ISO 9000
- Environment – ISO 14001 – EMAS
- Health and safety management - OHSAS 18001.

FORCE-Dantest CERT

This is FORCE Technology's independent certification body which ensures that accredited testing, chemical analyses, calibrations, measurements and inspections are carried out correctly in accordance with adopted standards.

FORCE-Dantest CERT has been appointed authorised body according to relevant European directives within FORCE Technology's many services. It is accredited by DANAK (the Danish Accreditation body) for certification within:

- Person certification
- System certification
- Product certification.

FORCE Technology in your business sector

Only the imagination sets the limit

A large number of companies from different business sectors recognise and use FORCE Technology's knowledge and technologies for development of their products and services. Since it is a fast-growing, constantly changing market only the imagination sets the limit with respect to the types of companies that will be able to benefit from co-operating with us in the future.

One of the characteristics of our services is that we are able to support our customers at all levels of the organisation – from management systems to technical areas. Today, we serve companies in the following business sectors, among others.

Pharmaceutical and food industry

The pharmaceutical and food industry faces increasing quality and safety requirements from authorities (for example Food and Drug

Administration), customers and consumers. This development requires full attention from the companies if they are going to survive the cut-throat competition on the Danish market and export markets.

As an example of how we help to ensure the future competitiveness of the companies, FORCE Technology offers a total validation concept which fulfils the documentation requirements of all stakeholders.





Compared to other players within the validation field, we are unique in the sense that we have at our disposal a number of competencies and tools that enable us to put together exactly the "package" of services ideal for the needs of your company. In addition, we have extensive knowledge of the hygienic design and quality management/testing of new installations as well as environmental and process related problems.

Building and construction sector

Thorough deliberations and well-thought-out decisions are basic elements in the implementation of successful building and construction projects. FORCE Technology

has many years' experience in advising the sector on design and planning and subsequent monitoring and maintenance.

During the design phase we help our customers to make the right choice of materials and calculate wind loads on buildings and bridges so that we create a comfortable and safe environment for the users.

Our services also include continuous monitoring and maintenance of concrete and steel structures in order to ensure durability throughout their lifetime. For example, corrosion protection is a speciality that we work with on a daily basis.

Oil and gas industry

Since the beginning of the 1970s, FORCE Technology has helped the oil and gas industry in the North Sea and other places to obtain increased productivity, markedly better safety conditions and increasing environmental awareness. Today, we serve operators at most oil and gas fields in the North Sea and a large number of customers at oil and gas centres such as Houston (USA), Calgary (Canada) and Rio de Janeiro (Brazil).

Our strength is that we have brought together in one and the same company almost all competence areas and experts necessary

How do I design my ship or my drilling platform in the most expedient way? What factors should I consider when constructing a new harbour? How do I train my ship's officers to optimise safety? These are just some of the questions that we can help you to answer and subsequently carry out in practice.



to provide assistance to our customers in their efforts to carry on a healthy and safe offshore business. We are thus able to offer design and engineering, maintenance and inspection planning, inspection and testing as well as continuous evaluation and monitoring. We are experts in subsea testing where we examine the structure and pipelines of the platforms for identification of corrosion and cracks.

The maritime industry

FORCE Technology is a versatile and competent co-operation partner for management and implementation of maritime projects. We add value to our customers through our unique combination of competencies – from organisation and employee

development to advanced testing facilities and customised simulation tools where our customers can have their ships, buildings and offshore constructions tested under different wind and water conditions. Our services also include issues as specific as emissions from ships according to the IMO regulation (International Maritime Organization). All these possibilities have been made available under the same roof.

The public sector

FORCE Technology provides many different services for the public sector, which will ultimately help to optimise the use of common resources. We carry out energy management and lifecycle evaluations for municipal institutions in order to reduce energy

consumption and protect the environment. We also provide consultancy services for the government in more long-term analyses and reports on energy and environment – questions and answers that become very important in connection with the utilisation of public funds and the future environmental effort.

A special effort is targeted at the health sector, which is faced with increasing demands from authorities and patients. Such demands typically mean increased control in the form of traceable, documented measurements. We carry out the validation of critical processes and equipment as autoclaves, ETO and formaldehyde sterilisers, clean room ventilation, incubators etc.



Energy and process industry

Combined heat and power plants, nuclear power plants and petrochemical plants – to mention just a few – are daily customers of FORCE Technology. We contribute with the design and optimisation of equipment and processes and we help with the critical choice of materials in order to ensure a long lifetime and avoid costly production stops.

In close connection with design and optimisation, the reduction of energy consumption and the environmental impact of plants is included as one of our special areas of expertise. We also perform the status and lifetime evaluations of the plants through ongoing

monitoring, inspection and testing. In the case of breakdowns we carry out the subsequent damage analysis, in which we identify what went wrong so that the customer may prevent a repeat of the incident in the future. If there is a need for focusing on the human factor we can offer training in Human Factors Management which optimises the interaction between man and machine.

Transport sector

FORCE Technology helps its customers within the transport sector on land, at sea and in the air. Our participation starts early in the design phase where we can contribute with a design that is

safe for consumers and reduces energy consumption and environmental impact. With respect to actual road safety we are able to reproduce collisions between vehicles and traffic equipment in a very realistic virtual environment. This service has been utilised by road authorities around the world to increase safety for road-users.

Production control, status evaluation and maintenance optimisation are also included in our range of essential services which we have successfully aimed at the transport sector for many years.

Wind turbine industry

FORCE Technology's services for the wind turbine industry cover the entire spectrum – from design and constructional calculations to ongoing service control of towers and wings.

In addition to this, we provide consultancy services on corrosion protection, surface treatment and

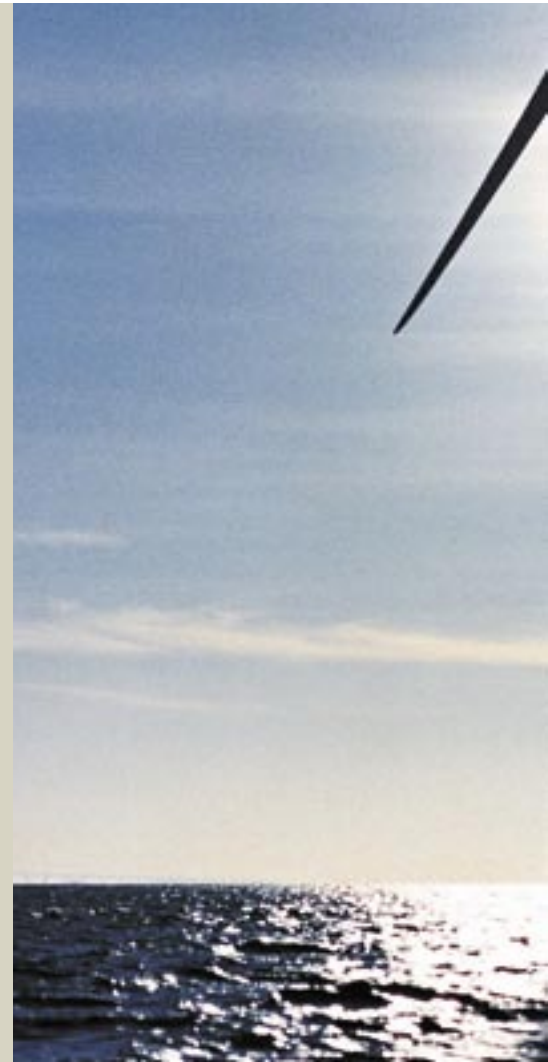
production optimisation so that we always ensure that our customers obtain the best durability and productivity at the lowest price. FORCE Technology works actively with Risø's National Laboratory and its Blade Test Center as well as DNV (Det Norske Veritas) where we contribute our specialist knowledge in the ultrasound testing of wings.

Iron and engineering industry

For more than 60 years, FORCE Technology has gained extensive experience within the iron and engineering industry, which is reflected in our versatile offer of services. For example, we are in charge of the continuous training and certification of welders so that quality as well as documentation

We are constantly trying to see the customers' challenges from their point of view – irrespective of which business sector they are in. How can we best help them to reach their goals for increased efficiency and even better products?

A good example of this is our custom-made mobile wing scanner, which checks and documents the quality of wind turbine wings with great speed and precision.



always meet current requirements and standards.

FORCE Technology also helps with the design, choice of materials, corrosion protection and product testing in order to ensure that the end product has the quality requested by the customer.

One important aspect during the entire processing and production process is the energy and environment issue. In this field, we offer our internationally recognised expertise in environmental management, reduction of energy consumption and Product Lifecycle Management (PLC).





FORCE Technology and the customers

Be the first to reach your goal!

Our customers are at the centre of everything we do. With FORCE Technology you have a partner that seeks to create value and improve the competitiveness of your company by means of innovative application of technology and knowledge.

Close to the customers

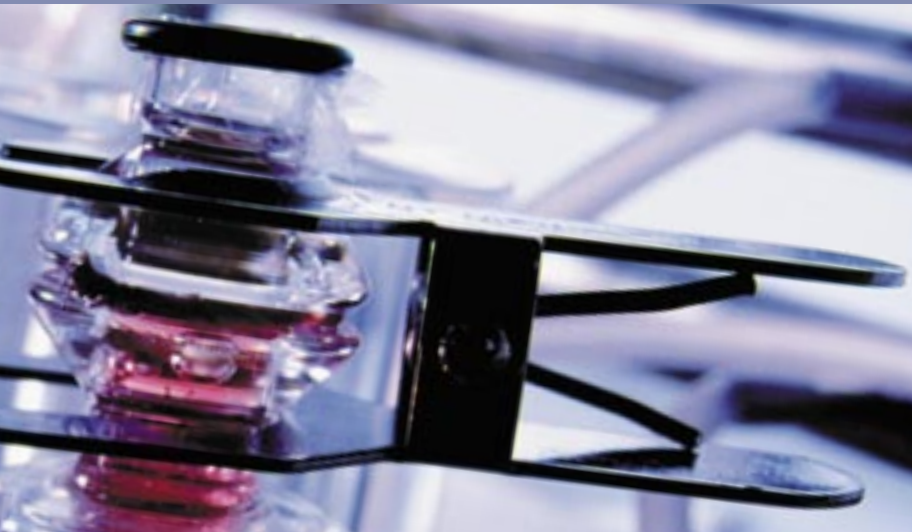
Insight into and understanding of our customers' situation is the key to success for our business. Therefore, a close relationship with the customer is a must – and if you choose FORCE Technology you will have a strategic partner who sees it as its primary goal to develop and maintain financially

responsible solutions that support your business.

Co-operation based on common values

In order to ensure that we have always access to the latest knowledge for the benefit of you as a customer our work is based on common values, which ensure that we always deliver solutions of a high quality.

- We attach great importance to a constructive and close co-operation with customers, partners and suppliers.
- We believe that we are able to retain customers through our high degree of safety, quality and service.
- We protect our independence and credibility.
- We believe that knowledge sharing and value creation are inseparable – you cannot have one without the other.
- We strive to increase customers' competitiveness – that is our justification on the market.
- We nurture and give high priority to our international contacts and knowledge network for the benefit of our customers.
- We create development and dynamics through active co-operation across the organisation and between professional groups.



Partner strategy

Our partnership strategy is very simple. Through close and mutual co-operation between the customer and FORCE Technology, where the key is openness, dialogue and trust, we create the greatest possible value creation.

In practice, this means that we draw up customised agreements together, which focus on the values that we can create together. In this co-operation, the customer and FORCE Technology thus share the risk and the benefit. This creates a sense of security and commitment and ensures that both parties are interested in creating as much value as possible.

Finger on the pulse

As a customer of FORCE Technology you will not only have access to the largest knowledge banks in Europe within the development of new knowledge and new technologies but also a wide-reaching international knowledge network, which is trendsetting within different business areas. With this base as a support and on the basis of the individual customer's needs and goals, we are able to deliver services that transform knowledge and experience into specific actions and value-creating activities.

GTS

– Advanced Technology Group

FORCE Technology is a member

of GTS – Advanced Technology Group, which is a group of independent Danish research and technology companies. GTS's activities include the development and provision of state-of-the-art technological services within the respective specialist fields. Customers are private businesses as well as public authorities in Denmark and on international markets.

The employees behind FORCE Technology

Competent readiness

Competent and motivated employees make the difference in a successful co-operation. We have more than 1,000 employees in Denmark and abroad. Their primary focus is to ensure that FORCE Technology's consultancy services and other services always fulfil our customers' requirements and wishes.

Our employees know the result requirements and the importance

of understanding, using, optimising and maintaining new knowledge.

They do this by, for example, participating actively in international networks, renewing their knowledge and rooting this knowledge in the company and with the customers. Therefore, our employees not only understand the correlation between science and technology but also the transformation into practical use.

As a workplace, FORCE Technology is characterised by its many highly qualified and competent employees with theoretical as well as practical skills. We believe it is important that employees spar with each other both locally and internationally. This means that we can always present the customers with the best solution.





Cross-border engineering knowledge

FORCE Technology is an international consultancy and service provider which offers a wide range of services and solutions for the maritime sector, the pharmaceutical and food industry, the energy and utility sector, the oil and gas industry, the chemical and process

industry and the public sector, among others. Our headquarters are located in Brøndby outside Copenhagen and we have companies in Sweden, Norway, the Netherlands, Canada, USA, Brazil and Russia. We have more than 1,000 employees worldwide.

Additional informationIf you need additional information or one of our addresses you are welcome to visit our website at www.forcetechnology.com. Alternatively, please contact us on one of the telephone numbers below.

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