big science sweden

The Swedish Guide

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THE SWEDISH GUIDE

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WELCOME

WHY SWEDEN

SWEDEN IS HOME TO THREE BIG SCIENCE FACILITIES

Sweden is growing rapidly as a Big Science nation, with world-leading facilities such as ESS and MAX IV in the south and EISCAT in the north.



ESS



MAX IV



EISCAT

Photo: Lund University, Johan Persson

Photo: Sofia Sabel/
Imagebank.sweden.se

WHY SWEDEN

INNOVATION IS IN OUR DNA

Sweden is one of Europe's leading innovation nations. Despite representing just 0.13% of the world's population, Sweden continues to make a significant global impact through innovation, technology and entrepreneurship.

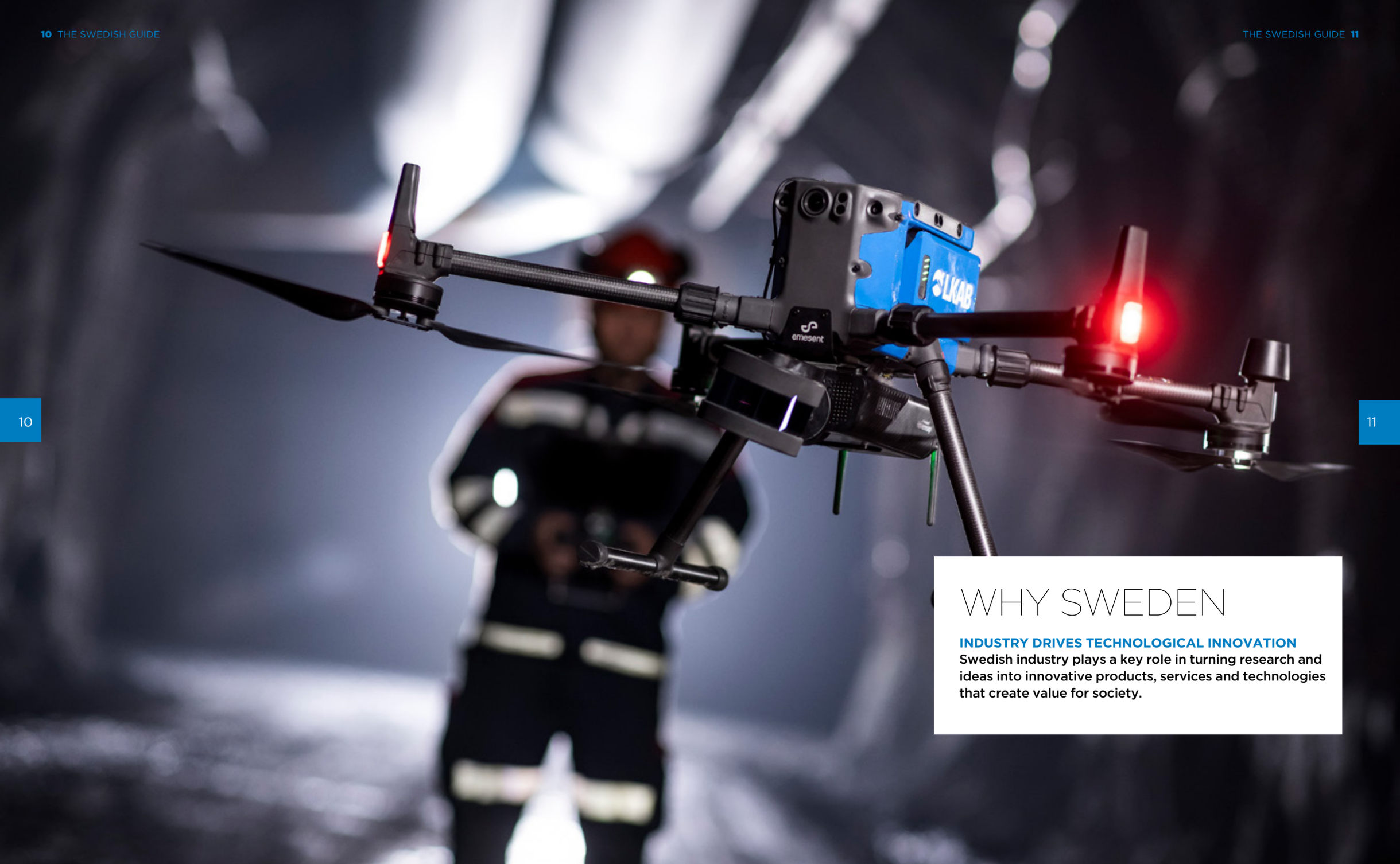
Photo: Jean Lapin/imagebank.sweden.se

WHY SWEDEN

INDUSTRY – A KEY PART OF SWEDEN'S ECONOMY

Industry accounts for almost 30% of Sweden's gross national product, making it a key part of the Swedish economy. Small and medium-sized enterprises (SMEs) form the backbone of Swedish industry and account for around 99% of all companies.

Photo: Margareta Bloom Sandebäck/Imagebank.sweden.se



WHY SWEDEN

INDUSTRY DRIVES TECHNOLOGICAL INNOVATION

Swedish industry plays a key role in turning research and ideas into innovative products, services and technologies that create value for society.



4

WHY SWEDEN

ENTREPRENEURSHIP DRIVEN BY SMALL AND MEDIUM-SIZED ENTERPRISES

Sweden has a strong entrepreneurial culture and is particularly known for its innovative SMEs, many operating in advanced technology sectors. Combined with a supportive business environment, this has helped create one of Europe's most dynamic start-up and growth ecosystems.

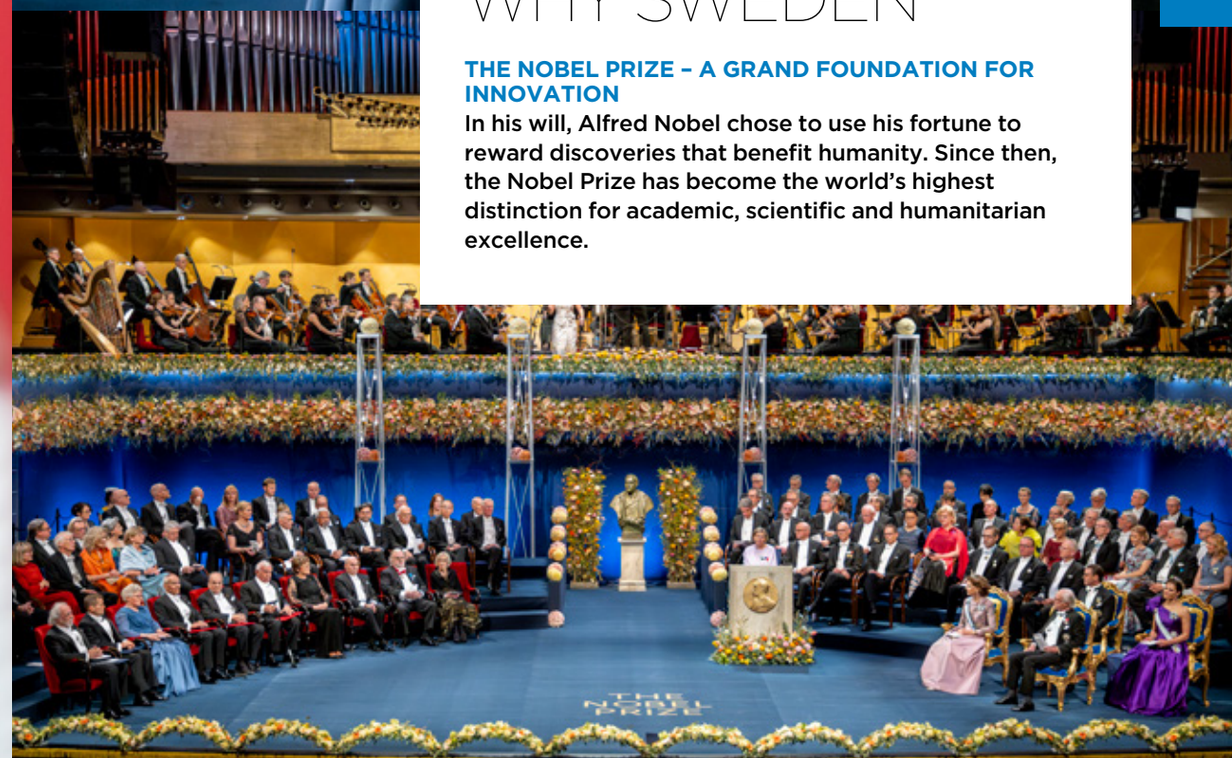


Anne L'Huillier, Professor of Atomic Physics at Lund University, received the 2023 Nobel Prize in Physics. Here she receives the award from King Carl XVI Gustaf during the Nobel Prize ceremony in Stockholm.

WHY SWEDEN

THE NOBEL PRIZE – A GRAND FOUNDATION FOR INNOVATION

In his will, Alfred Nobel chose to use his fortune to reward discoveries that benefit humanity. Since then, the Nobel Prize has become the world's highest distinction for academic, scientific and humanitarian excellence.



Global top 150 universities*

3

Number of higher education institutions

45+

University innovation offices

12+

*QS World University Rankings 2027



WHY SWEDEN

STRONG UNIVERSITIES – STRONG INNOVATION

Advanced research, strong universities and close collaboration between academia and industry are key strengths of the Swedish innovation ecosystem. Many universities rank highly worldwide and actively support cooperation with start-ups and established technology companies.



WHY SWEDEN

APPLIED RESEARCH FOR INDUSTRY

RISE Research Institutes of Sweden brings together industry, academia and the public sector to develop technologies and solutions for a sustainable and competitive future.



Neutron sources for materials research
- ESS, Sweden
- ISIS, UK
- ILL, France

Radiation facilities
- MAX IV, Sweden
- ESRF, France
- PETRA III/IV (DESY), Germany
- European XFEL, Germany

Particle physics
- CERN, Switzerland
- FAIR, Germany

Fusion research
- ITER, France
- Fusion for Energy (F4E), Spain

Ground-based space research
- ESO, Germany and Chile
- EISCAT, Sweden
- Square Kilometre Array (SKA), South Africa and Australia

EDITORIAL

Welcome!
You are holding The Swedish Guide – a selection of Swedish companies, universities and research institutes active in the international Big Science community. Behind every entry is expertise, experience and a strong interest in contributing to some of the world's most advanced research environments.

At Big Science Sweden, we work to connect Swedish industry, institutes and academia with international research facilities and projects. This guide is part of that work. It is designed to make it easier to find relevant suppliers, partners, technologies and competencies within the Swedish Big Science ecosystem.

The organisations presented here represent a broad range of technical fields and capabilities. Some are long-established suppliers to international facilities, while others contribute through specialised research, innovation and advanced technology development. What they share is a commitment to collaboration, technology development and long-term engagement in Big Science.

Sweden has a strong tradition of engineering, research and international cooperation. We hope this guide will help create new contacts, conversations and collaborations across borders and disciplines.

Whether you are looking for a supplier, a research partner or simply want to explore the Swedish Big Science landscape, we hope you will find this guide useful.

Enjoy reading, and please do not hesitate to get in touch with us at Big Science Sweden.

Catarina Sahlberg
Programme Director, Big Science Sweden







BIG SCIENCE SWEDEN

We are Sweden's Industrial Liaison Office (ILO), with national responsibility for facilitating contacts with and building networks around the international research facilities that Sweden helps fund.

We act as a bridge between the Big Science research organisations and Swedish industry, academia, and research institutes.

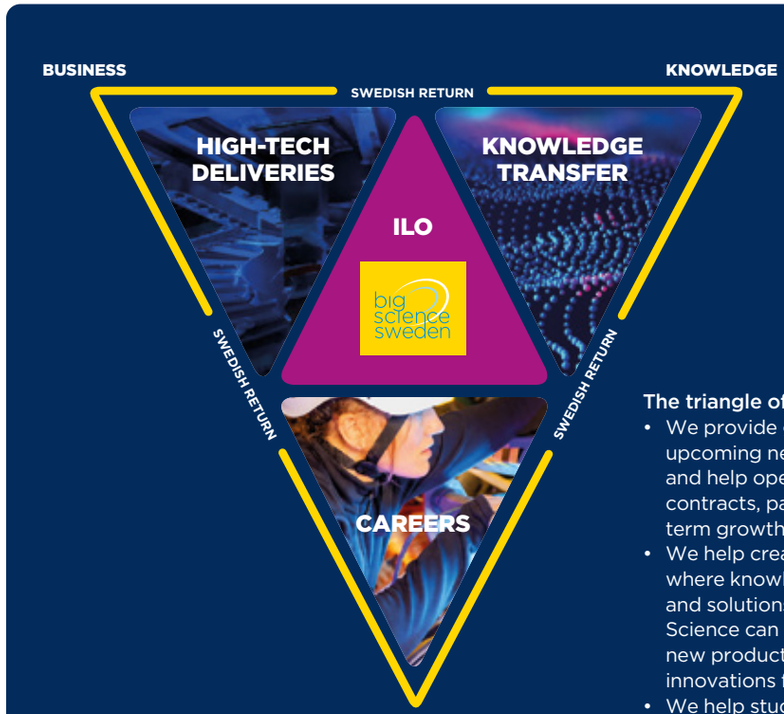
Our Industrial Liaison Officers provide first-hand information to Swedish companies on business and collaboration opportunities, and work actively to match companies with the research facilities' identified needs and current procurements.

Funding bodies

We are a publicly funded national initiative, and our main funding bodies are the Swedish Research Council and Vinnova (Sweden's innovation agency).

Partners

Our partners are Chalmers University of Technology, Lund University, Luleå University of Technology, Uppsala University, RISE, the Association of Swedish Engineering Industries, the industrial development centre IUC Syd, and Region Skåne.



The triangle of opportunities

- We provide guidance, identify upcoming needs at the facilities and help open doors to new contracts, partnerships and long-term growth.
- We help create collaborations where knowledge, technology and solutions from Big Science can be developed into new products, services and innovations for wider markets.
- We help students, researchers and professionals access career opportunities at Big Science facilities.

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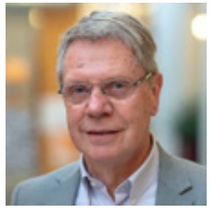
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Big Science Sweden/LTU Business
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BIG SCIENCE ORGANISATIONS THAT WE SUPPORT

Neutron sources for materials research

ESS – SWEDEN
European Spallation Source (ESS), currently under construction in Lund, Sweden, will be a multidisciplinary research facility using the world's most powerful neutron source, based on particle accelerators and spallation technology. ESS will provide neutron beams of unprecedented brightness, enabling groundbreaking research in areas such as materials, energy, health and the environment.
Industrial Liaison Officer (ILO): Dr Mike Olsson

ISIS – UK
The ISIS pulsed neutron and muon source produces beams that allow scientists from academia and industry to study materials at the atomic level, using a suite of instruments often described as 'super-microscopes'. ISIS plays a vital role in the portfolio of analysis techniques used by researchers in fields such as nanotechnology, pharmaceuticals, engineering, clean energy and quantum computing.
Contact point: Dr Mike Olsson

ILL – FRANCE
ILL operates the world's most intense neutron source, a high-flux research reactor designed to provide exceptionally intense neutron beams for scientific research. Research using the beams supports a wide range of fields, including condensed matter physics, chemistry, biology, nuclear physics and materials science.
Industrial Liaison Officer (ILO): Dr Mike Olsson

Radiation facilities

MAX IV – SWEDEN
The MAX IV Laboratory is a synchrotron light facility whose beamlines provide advanced X-ray spectroscopy, scattering, diffraction, and imaging techniques. Its research instruments enable studies of materials at the atomic and nanometric scale, contributing to fields such as medicine, bio-based materials and new energy solutions.
Contact point: Dr Mike Olsson

ESRF – FRANCE
European Synchrotron Radiation Facility (ESRF) is one of the world's leading synchrotron light sources and operates the Extremely Brilliant Source (EBS), the first high-energy fourth-generation synchrotron. Its intense X-ray beams enable imaging and studies of the structure of matter at atomic and nanometric scales across many fields of research.
Industrial Liaison Officer (ILO): Dr Mike Olsson

PETRA III/IV (DESY) – GERMANY
PETRA III at DESY in Hamburg uses intense X-rays to investigate the structure and properties of matter, supporting research from nanomaterials and semiconductors to pharmaceuticals and energy materials. Its planned upgrade, PETRA IV, will enable scientists to study materials and processes in even greater detail.
Contact point: Dr Fredrik Engelmark

European XFEL – GERMANY
European XFEL is the world's most powerful X-ray laser facility, opening up completely new research opportunities for scientists and industrial users. The facility is powered by a 3.4-km linear accelerator, which can generate 27,000 X-ray flashes per second, each of a duration of less than 100 quadrillionths of a second.
Industrial Liaison Officer (ILO): Dr Fredrik Engelmark

Left
LUND, SWEDEN
The MAX IV Laboratory is a synchrotron light facility, whose beamlines provide modern X-ray spectroscopy, scattering/diffraction, and imaging techniques.

Photo: Per Pixel Petersson/imagebank.sweden.se

Particle physics

CERN – SWITZERLAND / FRANCE

CERN houses some of the world's largest and most complex scientific instruments, including particle accelerators and detectors used by scientists to advance our understanding of the universe and the fundamental constituents of matter. The Large Hadron Collider (LHC) is the world's largest and most powerful particle accelerator, consisting of a 27-km ring of superconducting magnets.
Industrial Liaison Officer (ILO): Dr Fredrik Engelmark

FAIR – GERMANY

FAIR, the Facility for Antiproton and Ion Research, is currently under construction in Darmstadt, Germany. It will enable scientists to study forms of matter under extreme conditions, comparable to those found in giant planets, stars and stellar explosions. FAIR will accelerate ions and antiprotons for research across nuclear, atomic, plasma and applied physics.
Industrial Liaison Officer (ILO): Dr Fredrik Engelmark

Fusion research

ITER – FRANCE

ITER is a global project to build the world's largest tokamak for research into fusion energy. Experiments at the facility will advance fusion science and prepare the way for the fusion power plants of tomorrow. ITER will integrate the various technologies needed to operate a fusion reactor.
Industrial Liaison Officer (ILO): Dr Max Collins

F4E – SPAIN

Fusion for Energy (F4E) is the EU's joint undertaking for ITER and the development of fusion energy, the same energy that powers the Sun and all stars. F4E is responsible for providing Europe's in-kind and in-cash contribution to ITER. F4E works closely with industry and R&D organisations across Europe to design, manufacture, and test technical components for fusion installations.
Industrial Liaison Officer (ILO): Dr Max Collins

Ground-based space research

ESO – GERMANY, AND TELESCOPES IN CHILE

European Southern Observatory (ESO) focuses on the design, construction, and operation of powerful ground-based facilities for astronomy. The observatory consists of telescopes at three sites in the Atacama Desert in Chile. The Very Large Telescope can view objects at the edge of our universe and help address fundamental questions. A new Extremely Large Telescope (ELT) with a 39-m mirror is under construction.
Industrial Liaison Officer (ILO): Dr Oscar Isoz

EISCAT – SWEDEN

EISCAT conducts ionospheric and atmospheric measurements using a technique called 'incoherent scatter radar'. EISCAT operates equipment in three countries – Finland, Norway, and Sweden – and all the facilities are located north of the Arctic Circle. The next-generation research radar facility, EISCAT_3D, is under construction.
Contact point: Dr Adam Wikström

SKA – SOUTH AFRICA / AUSTRALIA

The Square Kilometre Array (SKA) Observatory is a next-generation radio astronomy-driven Big Data facility that will revolutionise our understanding of the universe and the laws of fundamental physics. It will be the world's largest radio telescope, with a collecting area of one square kilometre. When in operation, these telescopes will position SKAO as the leading research infrastructure for radio astronomy globally.
Industrial Liaison Officer (ILO): Paul Häyhänen

Right
LUND, SWEDEN
Aerial view of the ESS facility.



BUILDING NETWORKS AND RELATIONSHIPS



At the opening of our new office in Lund, Amelie Hallin welcomes the guests and hands over to Catarina Sahlberg, Programme Director at Big Science Sweden.

CONNECTIONS CREATE OPPORTUNITIES FOR BUSINESS AND COLLABORATION

Big Science Sweden acts as a bridge between facilities, companies and researchers by creating contacts, facilitating meetings and supporting collaboration opportunities.

Our activities include arranging and participating in conferences, hosting technical seminars and other events, and taking Swedish companies on visits to research facilities across Europe.

Big Science Technical Seminars

Big Science Technical Seminars focus on specific technical fields such as vacuum technology, remote handling and advanced manufacturing. The seminars provide the latest updates from the facilities while strengthening the expertise and capabilities of Swedish companies to deliver cutting-edge technologies and solutions.

Conferences and trade fairs

International conferences and trade fairs are important meeting places for Big Science organisations and Swedish companies. Big Science Sweden regularly organises Swedish pavilions and stands at selected fairs, where member companies are invited to participate and showcase their expertise.

Big Science@

Big Science@ is a seminar series highlighting how academia contributes to Big Science through technology development, research and collaboration. The seminars are organised together with leading Swedish universities and research institutes.

Swedish Big Science Forum

The Swedish Big Science Forum is our biennial meeting place for research facilities, industry, academia and research institutes. The forum offers presentations, discussions and networking focused on current developments, future technology opportunities and collaboration within Big Science.

AIMday Big Science Technology

AIMday Big Science Technology is a workshop format where research organisations present upcoming technological challenges to Swedish researchers and high-tech companies. Based on these challenges, teams with relevant expertise are formed for focused discussions that can lead to pre-studies, innovation projects and new collaborations.

Big Science Business Trips

Big Science Sweden organises Business Trips to leading research facilities across Europe. The visits give Swedish companies valuable insights into upcoming projects and procurements, opportunities to meet key personnel, and the chance to present their expertise, technologies and capabilities directly to the facilities.



Big Science Sweden organised a targeted study visit to CERN for Helsingborg-based Fagerström Industrikonsult, providing insight into CERN's technical needs and upcoming procurements.



Swedish companies gain first-hand insight into opportunities at CERN. Fredrik Stewart, Eric Hultmark, Christian Werdinius (Provexa Surface Technology) and Nina Plogmaker (Heftytec) with Marco Calviani (CERN).



AIMday Big Science Technology

AIMday Big Science Technology is based on the internationally recognised AIMday workshop format, developed by Uppsala University.

During the workshops, Big Science facilities present concrete technological challenges and questions. Researchers and industry representatives then come together in discussion groups to share knowledge, exchange expertise and explore potential solutions.

The aim is to create new contacts, identify collaboration opportunities and strengthen long-term partnerships linked to international Big Science projects. Some ideas may even develop into pre-studies supported by limited funding from Big Science Sweden.



























Johannes Gutleber, senior researcher at CERN
"Thanks to Big Science Sweden for organising this meeting. It is very effective to get in touch with many people from many different domains in a short amount of time. And most of all, I met super friendly people and had a lot of fun exchanging and creating new contacts. This creates a real community."



Swedish Big Science Forum

The Swedish Big Science Forum brought together Big Science facilities and projects with Swedish industry, institutes and universities for two days of networking, knowledge exchange and future collaboration. The event was fully booked and attracted a strong mix of participants, exhibitors and speakers.





Stefan Wikman (Fusion for Energy)

A strong programme of speakers and expert presentations brought facilities, researchers and companies together in one place.

Richard Jacobsson (CERN)

Eshraq Al-Dmour (MAX IV Laboratory)



Swedish Big Science Forum highlighted the strong potential that arises when industry, academia and Big Science facilities come together around shared ambitions.



Elin Cartwright (Abstract)





Michael Mokhberi (Theca)

Frida Tibblin Citron (Big Science Sweden)

Short pitches followed by informal networking, with facilities, researchers and companies gathered in one place.





Rafael Alves (ESO)



Study visit to MAX IV
MAX IV Laboratory is a multidisciplinary research facility using the world's most brilliant synchrotron light source, based on accelerator technology and advanced X-ray beamlines.

Karl Åhnberg (MAX IV)





Paraskevi Mastrokalou (ESS)

Mattias Vesterlund (Big Science Sweden)



Johan Lindén (ISEC Monitoring Systems)

Study visit to ESS
ESS will be a multidisciplinary research facility using the world's most powerful neutron source, based on particle accelerators and spallation technology.





PEOPLE



SWEDISH UNIVERSITIES AS PARTNERS IN BIG SCIENCE

For Maja Olvegård, accelerator physics is inherently collaborative. No single researcher, university or even country can build the next generation of large-scale research infrastructure alone. Universities contribute research, expertise and specialised facilities – and when they are brought into projects early, those capabilities can strengthen the entire Big Science ecosystem.

Maja Olvegård is a senior lecturer in physics at Uppsala University and head of division at the FREIA Laboratory. Her research focuses on particle accelerators, while FREIA provides specialised infrastructure for research, development and testing of accelerator technology.

From research to innovation

The benefits of collaboration extend beyond an individual research facility. Maja sees fundamental research, technology development and innovation as closely connected. Participation in Big Science is not simply about supplying products to large research facilities: technologies and methods developed to meet their challenges can also find applications elsewhere.

Universities have an important role in connecting research with industry. Maja has been involved in projects where universities and Swedish companies jointly develop technology and manufacturing methods. Researchers contribute new concepts and methods, while companies bring practical knowledge of materials, production and what can actually be manufactured.

AIMday as a tool

She points to Big Science Sweden's AIMday workshops as an effective way of bringing these perspectives together. Researchers and companies meet around specific technical challenges, exchange ideas and explore possible solutions.

“Someone can come with a completely different idea that solves the problem in a way you hadn't expected,” Maja says.

The result can be new knowledge and capabilities for both sides, and potentially solutions that neither could have developed alone.

Being involved early

Universities are rarely best placed to enter a project when a finished specification reaches the procurement stage. Their contribution often comes much earlier: exploring concepts, developing technologies, testing solutions and building expertise.

Maja points to Uppsala University's work with ESS as an example of how universities can contribute specialist expertise in testing equipment and understanding the conditions under which technologies work. To make a substantial contribution to a facility's development, she emphasises, universities need to be involved from the conceptual stage, often decades before construction begins.

For international research infrastructures, she therefore sees value in involving universities before all the technical choices have been made.



Maja Olvegård highlights the role of universities in connecting research, industry and Big Science.

Creating ripple effects

The benefits can then spread far beyond the individual project. Maja describes them as “ripples on the water”, as knowledge and technology developed through Big Science facilities reach universities, companies and other applications.

For Sweden, meaningful participation in international research infrastructures is therefore about more than access to science. It is also about being part of the research and technology development itself.

And for the facilities, it means tapping into an ecosystem of universities and companies that can help develop what comes next.

FROM BIG SCIENCE TO BUSINESS – A CAREER BUILT ON KNOWLEDGE TRANSFER

What happens to the knowledge developed at large international research facilities? While new technologies and scientific discoveries often attract attention, one of the most valuable forms of knowledge transfer happens through people.

Harri Hellgren is Senior System Engineer and Tech Lead at Qamcom for the SKA project, which is set to become the world's largest radio astronomy observatory. His career is a clear example of how expertise gained in Big Science environments can flow into industry, creating value far beyond the original research project.

Born and educated in Finland, Harri is an electronics and RF engineer whose career has moved between industry and major research infrastructures. After early work in industry, he spent six years at CERN, contributing to projects including LEP and CLIC.

He later returned to industry as an entrepreneur before joining EISCAT in Kiruna, where he spent eight years working on the EISCAT_3D project as technical head. Today, Harri works at Qamcom in Gothenburg, a Swedish engineering company and supplier to the Square Kilometre Array (SKA), the world's largest radio telescope project currently under construction in Australia and South Africa.



Harri Hellgren brings experience from both Big Science facilities and industry.

For Harri, the transition from research infrastructure to industry was surprisingly natural.

"The work doesn't really change," he explains. "You sit by your computer and solve problems. It's more the surroundings and context that change."

More than technical expertise

When discussing knowledge transfer, people often focus on technologies or inventions. Harri believes that some of the most valuable lessons from Big Science are less tangible.

Working in large international research collaborations means learning how to tackle complex challenges alongside experts from many disciplines. According to Harri, Big Science facilities also provide a unique opportunity to understand what is technically possible.

A unique environment for innovation

Research infrastructures such as CERN, EISCAT and SKA are designed to answer fundamental scientific questions. In doing so, they often push technology beyond existing boundaries.

Harri sees this as one of the key reasons why these facilities generate knowledge that later becomes valuable for industry.

"In industry, we work at a faster pace and don't have as many resources to try different things," he says. "Institutions like CERN set audacious targets for scientific discovery, driving technological progress on a scale that industry cannot match."

The challenge comes later: finding ways to transfer that knowledge into new applications, products and services. "One of the biggest challenges is understanding how the knowledge gained can be transferred and used by clients in other areas."

This is where collaboration between research infrastructures and industry becomes essential.

Industry as a partner from day one

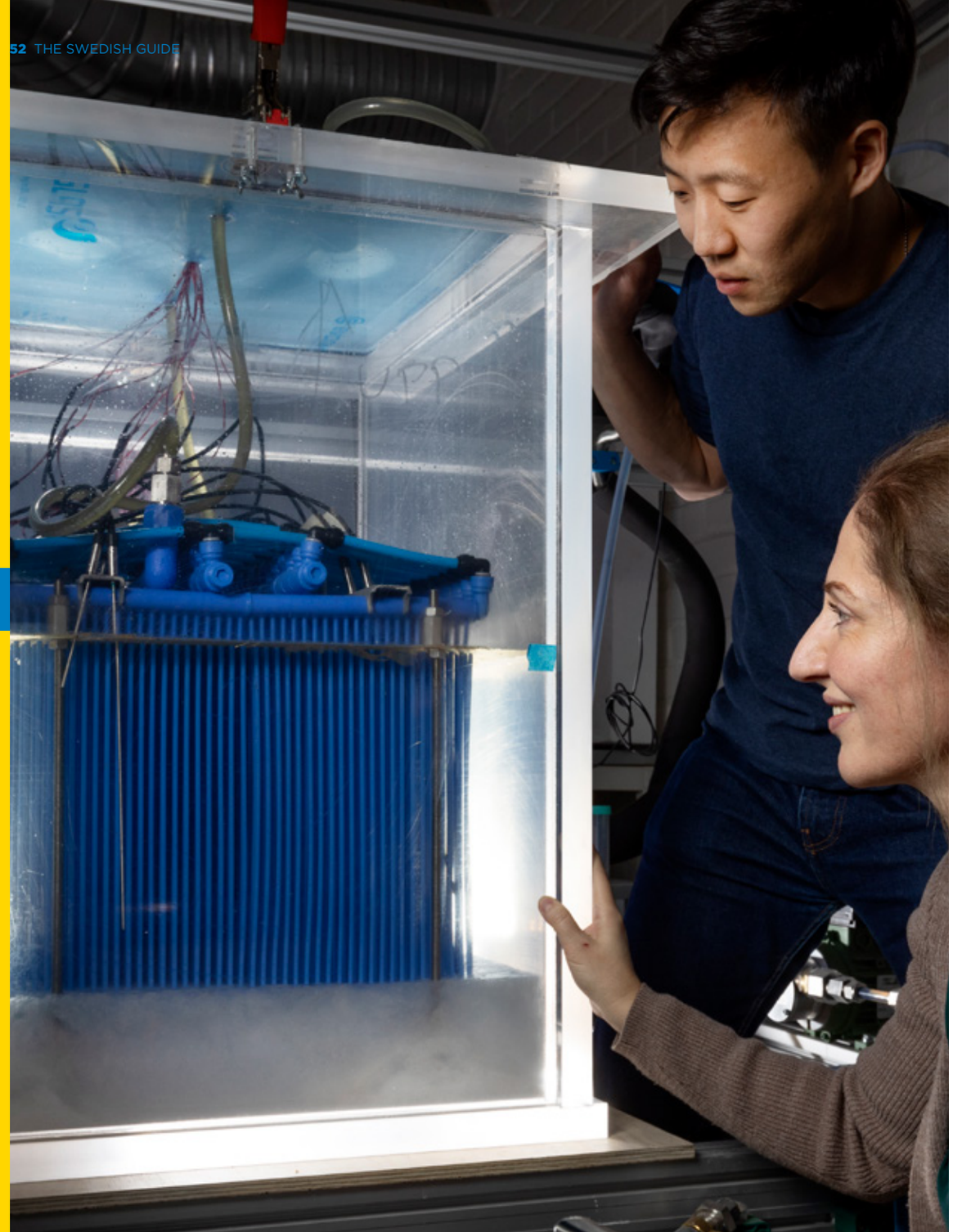
Having worked on both sides of the equation, Harri is convinced that suppliers and industry partners play a critical role in the success of major scientific projects.

"Very important," he says when asked about the role of industry. "I think one of the biggest mistakes Big Science facilities make is not involving industry from the start of a project."

Early involvement allows companies to contribute expertise, develop new capabilities and prepare for future applications of the technologies being created. It also strengthens the long-term impact of public investments in research infrastructures.

UNIVERSITIES AND RESEARCH INSTITUTES

Photo: Johan Persson



WHERE SCIENTIFIC CURIOSITY BECOMES ENGINEERING EXCELLENCE

Swedish universities are internationally recognised for combining fundamental research with practical engineering. Researchers, engineers and students work closely with industry, research institutes and large-scale research infrastructures.

From particle accelerators and fusion energy to advanced materials, detectors and space instrumentation, Swedish academia has helped shape many of Europe's most ambitious Big Science projects. This collaborative approach makes Sweden a trusted partner throughout the entire lifecycle of international research infrastructures – from early-stage research and technology development to operation and future upgrades.

Engineering-driven research

Swedish universities combine scientific excellence with practical engineering, translating research into technologies that can be implemented in demanding environments.

Collaboration as a strength

Collaboration is embedded in Swedish research culture. Universities work closely with one another, with research institutes, industry and international partners to solve challenges that no single organisation could address alone.

Research infrastructure as a testbed

Access to world-leading facilities such as ESS, MAX IV and EISCAT gives researchers unique opportunities to develop, test and validate new technologies alongside international partners.

Long-term international partnerships

For decades, Swedish researchers have contributed to the design, construction, operation and continuous development of Europe's leading Big Science facilities

Trusted partners to European research facilities

CERN

Swedish researchers have contributed to detector systems, superconducting magnets, RF technologies, accelerator physics, cryogenics, detector electronics and future upgrades of the High-Luminosity LHC.

ESS

Swedish researchers and technical teams have contributed to accelerator systems, neutron instrumentation, cryomodules, diagnostics, power amplifiers and advanced sample environments.

ITER

Swedish research groups contribute expertise in plasma physics, fusion materials, diagnostics, modelling, remote handling and advanced manufacturing supporting the future of fusion energy.

ESO

Swedish teams contribute to instrumentation for the Extremely Large Telescope, adaptive optics, astronomical detectors and next-generation observing systems.

MAX IV

Technical experts at Swedish universities have been instrumental in the technical design and construction, contributing to everything from accelerator design to beamline construction.". Max IV is hosted by Lund University.

XFEL

Swedish researchers have contributed to developing beamline instrumentation, X-ray optics, materials research, detector technologies and experimental methods.

ESRF

Swedish research groups have contributed to instrument and method development.

EISCAT

Swedish researchers have contributed critical scientific and engineering expertise to the design and implementation of this advanced radar system, e.g., in the areas of system architecture, signal processing, and digital antenna technology.



Expertise that enables Big Science

Swedish universities contribute knowledge, technology and specialised competence throughout the research infrastructure ecosystem, from concept development to scientific operation.

ACCELERATOR SCIENCE

Design & development of accelerator components, superconducting technologies, RF systems, magnets, beam diagnostics and cryogenics.

Facilities
CERN • ESS • FAIR • MAX IV

Universities
- Chalmers University of Technology
- KTH Royal Institute of Technology
- Lund University
- Uppsala University

DETECTORS & INSTRUMENTATION

Particle detectors, neutron instrumentation, X-ray instrumentation, detector electronics, sensors and scientific measurement systems.

Facilities
CERN • DESY • ESRF • ESS • XFEL • FAIR

Universities
- Chalmers University of Technology
- KTH Royal Institute of Technology
- Linköping University
- Stockholm University
- Uppsala University

MATERIALS & NANOTECHNOLOGY

Advanced materials, nanotechnology, thin films, additive manufacturing, surface engineering and materials characterisation.

Facilities
DESY • ESRF • ESS • ITER • MAX IV

Universities
- Chalmers University of Technology
- KTH Royal Institute of Technology
- Linköping University
- Lund University
- Uppsala University

SPACE SCIENCE & ASTRONOMY

Astronomical instrumentation, radio astronomy, adaptive optics and atmospheric research.

Facilities
EISCAT • ESO • SKAO

Universities
- Chalmers University of Technology
- Luleå University of Technology
- Lund University
- Stockholm University
- Uppsala University

DIGITAL TECHNOLOGIES & AUTOMATION

Artificial intelligence, machine learning, robotics, automation, scientific computing, digital twins, control systems and data-driven optimisation.

Facilities
CERN • ESS • ITER • MAX IV

Universities
- Chalmers University of Technology
- KTH Royal Institute of Technology
- Linköping University
- Luleå University of Technology
- Lund University

ADVANCED ENGINEERING & MANUFACTURING

Mechanical design, vacuum technology, microfabrication, advanced manufacturing and instrumentation development.

Facilities
CERN • ESRF • ESS • XFEL • FAIR • ITER • MAX IV

Universities
- Chalmers University of Technology
- KTH Royal Institute of Technology
- Lund University
- Uppsala University

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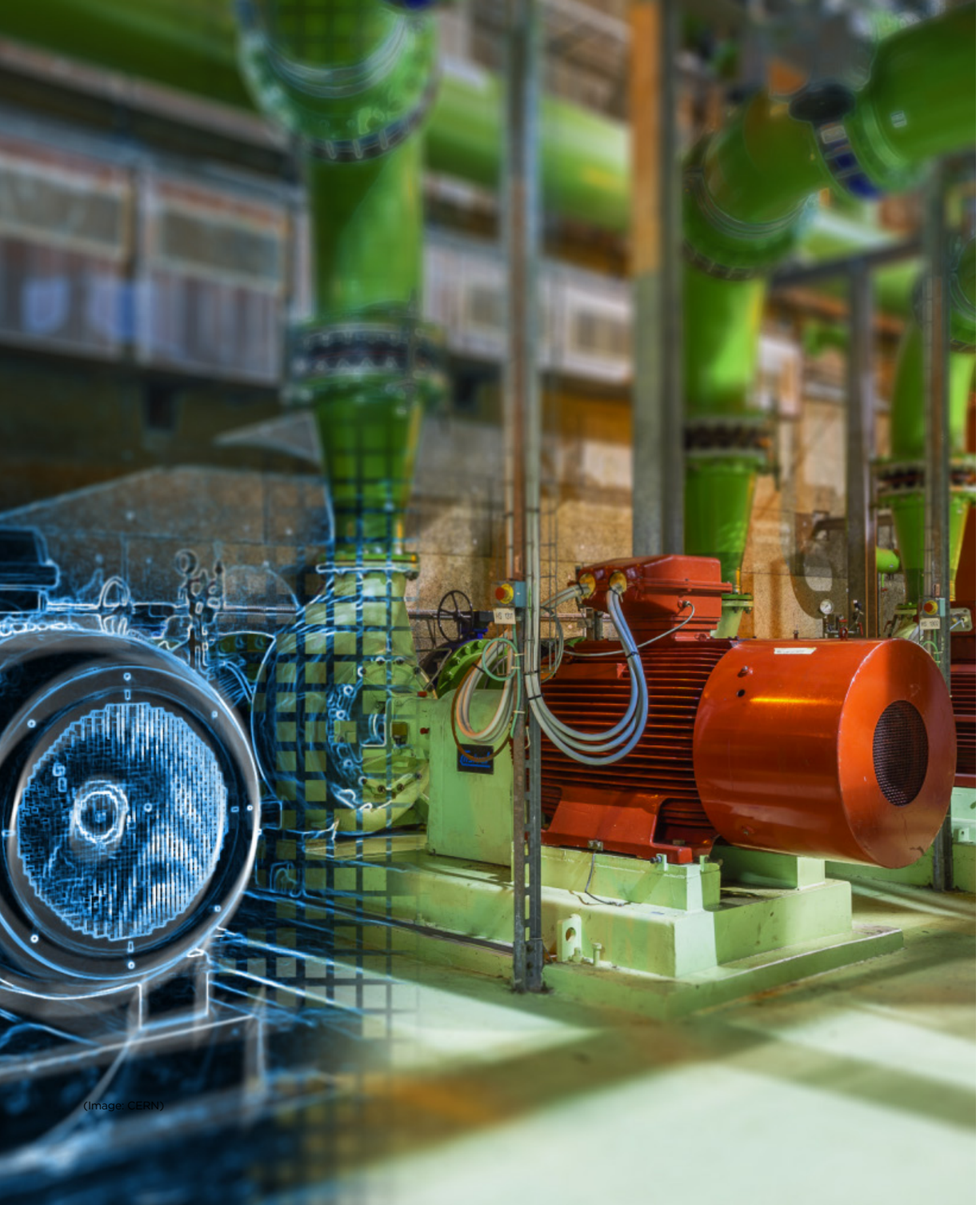

(Image: CERN)

ABB
From CERN success to GSI/FAIR

ABB's collaboration with CERN has evolved from an innovation partnership into a model for creating long-term value across Big Science facilities. Building on its successful energy-efficiency project at CERN, ABB is now applying that experience through a new collaboration with GSI/FAIR in Germany, where FAIR is being built alongside GSI.

From first meeting to energy savings

The journey began when experts from ABB – a global technology leader in electrification and automation – met CERN representatives at a Discovery Day organised by Big Science Sweden.

Together, experts from ABB and CERN analysed around 800 motors used in cooling and ventilation applications. Rather than evaluating individual motors alone, they assessed the efficiency of the complete systems, identifying where upgrades would have the greatest impact.

The original target was to improve energy efficiency by 10–15%. Instead, the project identified a potential energy saving of 17.4%, equivalent to the annual electricity consumption of more than 18,000 European households.

"It's an excellent example of collaboration where each side brings its own contribution to the table. CERN brings its large-scale infrastructure and ABB contributes with its technology and service expertise," says Giovanni Anelli, Head of CERN's Knowledge Transfer Group.

A blueprint for sustainable Big Science

The successful collaboration at CERN has since opened the door to a second major project. ABB is working with GSI and FAIR in Darmstadt, Germany, to assess motor-driven systems within the existing GSI accelerator complex and identify the most impactful opportunities to optimise energy use. The project includes energy mapping, the development of an efficiency roadmap and the testing of digital optimisation tools for motor-driven pumps, fans and cooling systems.

Building directly on the methods and experience developed at CERN, the project aims to cut energy consumption, lower operating costs and contribute to strengthening environmental stewardship of large-scale research facilities.

At GSI, the assessment is intended to support the objective of reducing overall facility energy consumption by 15%. The project also has a knowledge-sharing component: results are intended to inform other research centres and energy-intensive industries.

"This collaboration aligns with our long-term commitment to scientific excellence and environmental stewardship. Energy efficiency clearly has a transformative role," says Dr. Katharina Stummeyer, Administrative Managing Director of GSI and FAIR.

The GSI/FAIR project therefore demonstrates how methods and expertise developed with one Big Science organisation can be transferred, adapted and scaled to another research infrastructure.

New collaboration opportunities

Besides showing how industrial energy efficiency can be a strategic lever for industry and research institutions to decarbonise and enhance competitiveness, the ABB story demonstrates how relationships built through Big Science Sweden can evolve into long-term collaborations with multiple international research organisations.

The success has since become a reference project and a blueprint for transferring energy-efficiency expertise between Big Science facilities.

ABB's journey with CERN and GSI/FAIR shows how sharing expertise opens new business opportunities and supports more sustainable research facilities.

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BUMAX

CERN's toughest demands drive innovation

For nearly three decades, Swedish fastener manufacturer BUMAX has supplied high-performance stainless steel fasteners to CERN, where components must perform reliably under some of the harshest operating conditions in the world. The collaboration has not only supported one of the world's most advanced scientific facilities, but has also strengthened BUMAX's products, quality processes and competitiveness across global industries.

Meeting CERN's highest standards

Inside CERN's particle accelerators, every component must perform flawlessly. Fasteners used in the Large Hadron Collider must withstand temperatures ranging from almost absolute zero to around 300°C during bake-out procedures. They must also be non-magnetic, highly corrosion-resistant and suitable for ultra-high-vacuum environments.

To meet these demanding requirements, CERN selected BUMAX 109, the company's highest-strength austenitic stainless steel fastener. Today, BUMAX supplies these specialised fasteners for critical applications in the Large Hadron Collider, where there is no margin for failure.

Innovation through collaboration

Working with CERN has been more than supplying components. Close collaboration between engineers at CERN and BUMAX has led to continuous product development, including new solutions such as specialised silver coatings to reduce galling in demanding applications. Innovations originally developed to meet CERN's requirements are now available to customers in other industries.

Knowledge that creates value beyond Big Science

The collaboration with CERN has helped BUMAX further strengthen its expertise in testing, quality assurance, traceability and materials engineering. By developing products capable of performing under the extreme conditions found in particle accelerators, the company has also enhanced its offering to customers in sectors such as energy, offshore, process industries and advanced manufacturing.

A long-term partnership

BUMAX has been a supplier to CERN since the mid-1990s and has become a trusted partner for one of the world's most demanding research environments. The collaboration demonstrates how working with Big Science facilities challenges Swedish companies to innovate, develop new capabilities and create solutions that generate value far beyond the original application.

For Swedish industry, it is a clear example of how participation in Big Science projects can strengthen international competitiveness while contributing to world-leading research.

"Meeting CERN's performance demands pushes us to raise our own game, and everything we learn from it benefits every customer, not just a single project."

Camille Feuillet, BUMAX



COORSTEK

Innovative HIP technology opens new opportunities at CERN

When CERN needed to explore new ways of joining copper and tungsten for demanding accelerator applications, Swedish materials specialist CoorsTek Sweden contributed with a unique solution based on its proprietary glass bed Hot Isostatic Pressing (HIP) technology.

The collaboration builds on an earlier AIMday project, where CoorsTek successfully demonstrated the ability to metallurgically bond copper and tungsten using its innovative glass bed process. The promising results led CERN to investigate how the same technology could be applied to more complex component designs.

Eliminating the need for costly encapsulation

Conventional HIP processing normally requires components to be enclosed in a fully gas-tight metal capsule before pressing. Designing and manufacturing such capsules is both time-consuming and expensive, while any leakage during the HIP cycle can compromise the bonding process.

CoorsTek's proprietary glass bed technology offers an elegant alternative. Instead of using a sealed metal capsule, glass transfers the isostatic pressure to the components while preventing the pressurising gas from penetrating the bonding interface. This enables strong metallurgical bonding without encapsulation and makes it possible to process components with geometries that would otherwise be difficult or impractical to manufacture.

New possibilities for advanced components

In the project, CoorsTek applied the glass bed HIP process to join copper blocks incorporating stainless steel tubing, demonstrating how the technology can simplify manufacturing while reducing both cost and technical risk.

Beyond the specific application, the collaboration provided valuable insights into how advanced joining technologies can support future accelerator components and other demanding research infrastructures.

"This collaboration has shown us that our glass bed HIP technology has significant potential in advanced applications where it has not traditionally been used. Working with CERN has been both technically rewarding and highly inspiring." says Bernt-Ola Sandström senior researcher at CoorsTek.

"This collaboration has shown us that our glass bed HIP technology has significant potential in advanced applications."

Bernt-Ola Sandström, CoorsTek



Photo: Martina Bauer, GSI/FAIR

EKA AND ASSEMBLIN

Advancing sustainable cooling for Big Science

Swedish cooling expertise is helping international research facilities explore more sustainable alternatives to conventional cooling systems. Collaborations with CERN and GSI/FAIR show how technical dialogue can develop into joint projects, follow-up assignments and practical recommendations.

The CERN collaboration began at an AIMday Big Science Technology workshop organised by Big Science Sweden. CERN presented a challenge: how to replace ageing cooling systems using F-gases with more sustainable alternatives based on natural refrigerants.

EKA (EKAnalys) and Assemblin were selected to conduct a pre-study, combining expertise in energy analysis, refrigeration technology and sustainable engineering. Together, they surveyed CERN's existing chillers, analysed the technical requirements and identified practical pathways towards more climate-friendly solutions.

The collaboration quickly proved its value. Even before the pre-study was completed, CERN commissioned the companies to continue the work in a follow-up assignment.

A new opportunity at GSI/FAIR

A second opportunity emerged at an AIMday organised by Big Science Sweden and Big Science Denmark in autumn 2025. GSI/FAIR presented a similar challenge involving sustainable cooling technologies for its research infrastructure.

This led to a joint pre-study by GSI/FAIR, EKA and Assemblin. Building on experience from CERN, the companies brought their cooling expertise together with GSI/FAIR's knowledge of its infrastructure and operational requirements.

The findings were presented at a concluding workshop held at GSI in Germany in September 2026. Experts from industry and research infrastructures explored alternatives to synthetic refrigerants and discussed the steps needed to put the proposed solutions into practice.

Turning technical findings into practical solutions

Jörgen Rogstam from EKA, Fredrik Strengbohm from Assemblin and Simone Schwarz from GSI/FAIR presented findings and technical approaches, including how lessons from CERN could inform implementation at GSI/FAIR.

A guided visit to the cooling installations gave participants direct insight into existing systems, operational challenges and practical constraints. This helped connect the technical discussions with the conditions under which future solutions would need to operate.

A key conclusion was that natural refrigerants such as CO_2, ammonia and hydrocarbons are proven alternatives. However, the transition involves more than replacing a refrigerant. Facilities need to assess their infrastructure, prioritise investments and consider cooling, heat recovery and energy use together.

From dialogue to long-term collaboration

The two projects demonstrate how technical dialogue can turn into concrete international business opportunities. For EKA and Assemblin, they have created opportunities for further collaboration in sustainable cooling. For CERN and GSI/FAIR, they provide access to Swedish expertise and practical recommendations to support the transition to more energy-efficient and environmentally sustainable infrastructure.

"As we see it, sustainability and high performance go hand in hand. We integrate environmental considerations from the outset"

Jörgen Rogstam, EKA



ELECTROHEAT SWEDEN

Moves into the Big Science market with contract from CERN

ElectroHeat Sweden, with its head office in Göteborg, makes industrial ovens and heat treatment equipment for industrial companies all over the world. The ovens are used for heating processes that improve the working life of a component, for example by increasing strength, temperature resistance, ductility, and surface hardness.

Significant order from CERN

By winning its first Big Science contract, an order from CERN, ElectroHeat stepped into a new market involving a greater focus on research and development.

"This is an exciting market for us, with great potential for more business," says Sales Manager Felix Warnmark.

In the order, ElectroHeat designed, constructed, produced, and delivered an 850°C oven for heating steel.

Tight tolerances

The specifications from CERN were strict, including requirements for temperature precision and evenness, as well as tight tolerances.

"It's always difficult to know what you're up against, but we stressed that we could meet the specifications for tight tolerances. I think that was important and a key factor in this case.

Research facilities are an exciting market for us. Success in this first order to CERN could mean a breakthrough. Now that we know what to do when this type of procurement arises, there is great potential for supplying similar machines to other facilities."

"This is an exciting market for us, with great potential for more business."

Delivered and successfully in operation

The oven has now been delivered and has been in operation at CERN for one and a half years, with excellent results.

"We have achieved very good results in terms of temperature uniformity, even exceeding the required specifications. That is something we are very proud of," says Felix Warnmark.

Felix also highlights the experience of working with CERN as an important milestone for the company.

"It has been rewarding to contribute to such an advanced research environment. This project has strengthened our confidence in delivering highly specialised equipment for Big Science facilities."

> "This is an exciting market for us, with great potential for more business."
>
> *Felix Warnmark, ElectroHeat Sweden*

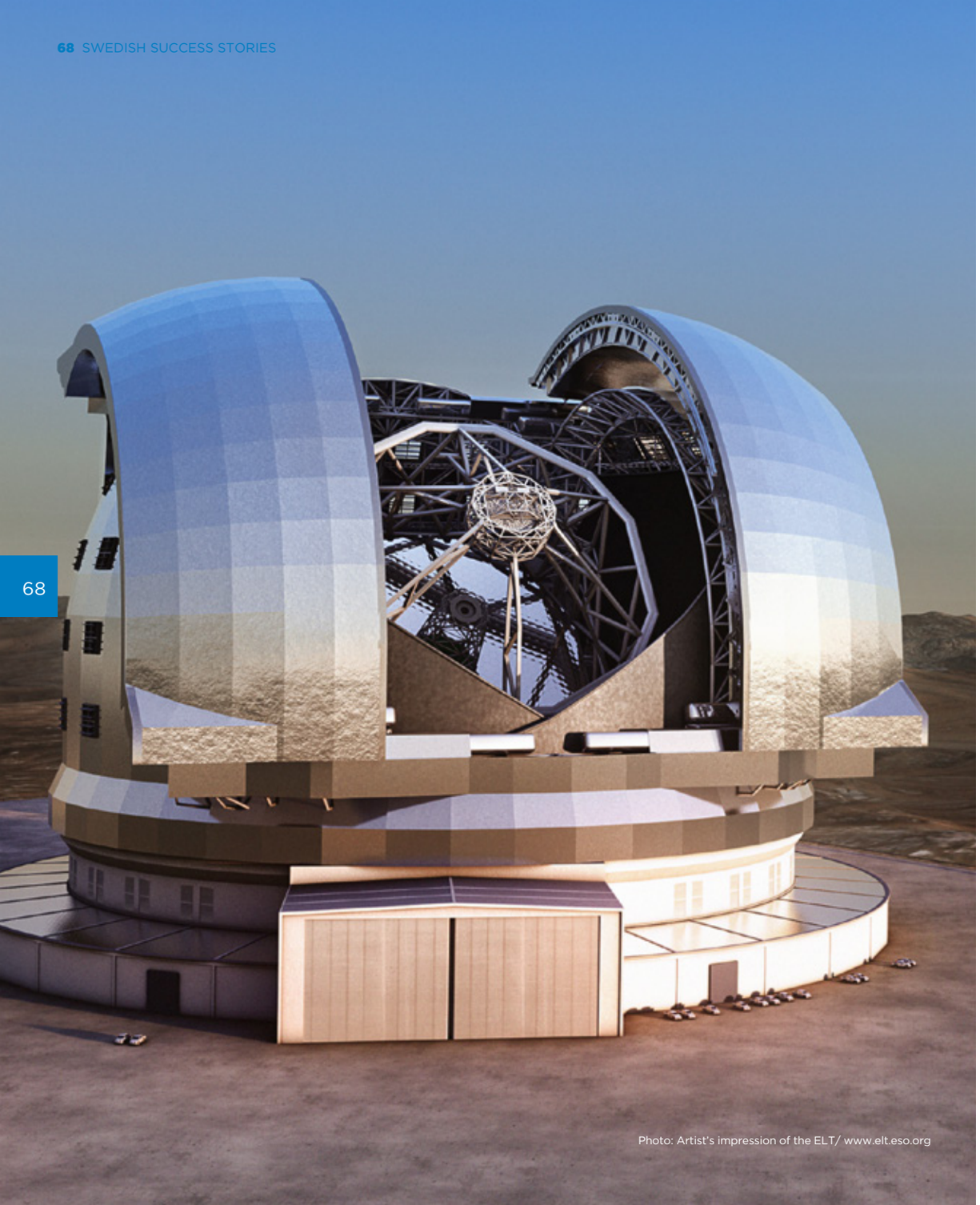


Photo: Artist's impression of the ELT/ www.elt.eso.org

FAGERSTRÖM, EXAMEC AND RFR SOLUTIONS

Collaborating on extensive order from ESO

The companies Fagerström Industrikonsult, RFR Solutions and Examec are working together on a high-tech project for ESO, aware that collaboration will increase their chances of winning more orders from international research facilities in the future.

Large ESO contract

After submitting an impressive tender, Fagerström Industrikonsult won, in 2020, an extensive order from European Southern Observatory (ESO). Fagerström are washing and stripping the old coating on the extremely expensive mirror segments, which is necessary before a new reflecting layer can be placed on the mirrors to retain the telescope's performance.

For the work on the telescope in Chile, Fagerström are developing a machine that scrapes away the reflective silver coating on 788 mirrors that together form one gigantic mirror, 40 metres in diameter. The work is performed in an extreme environment, at a height of 3,000 metres.

Building on this experience, Fagerström is now working on a second machine based on the same proven and verified technology. While much of the concept remains unchanged, the new project involves different seismic conditions, requiring substantial engineering efforts to adapt the design and ensure reliable performance.

Find your own solutions

Fagerström Industrikonsult won the contract in tough competition with international giants. Carl Johan Fagerström, Managing Director, emphasises the importance of being creative, looking at different solutions, and not being afraid to push the boat out when submitting a tender.

"We're a small player that gets noticed. We start from scratch, asking ourselves the question 'What's the problem?', and then find our way to our very own solution."

Collaboration broadens capabilities

Fagerström Industrikonsult initiated a rewarding collaboration with two other member companies, RFR Solutions and Examec, whose complementary expertise can contribute to various parts of the extensive ESO order. Fagerström are responsible for design and project management, while RFR Solutions and Examec take care of production.

Carl Johan Fagerström sees strength in such a collaboration.

"By combining our different areas of expertise, we can take on larger and more complex projects than any of us could manage alone. This not only strengthens our delivery capacity but also increases our competitiveness."

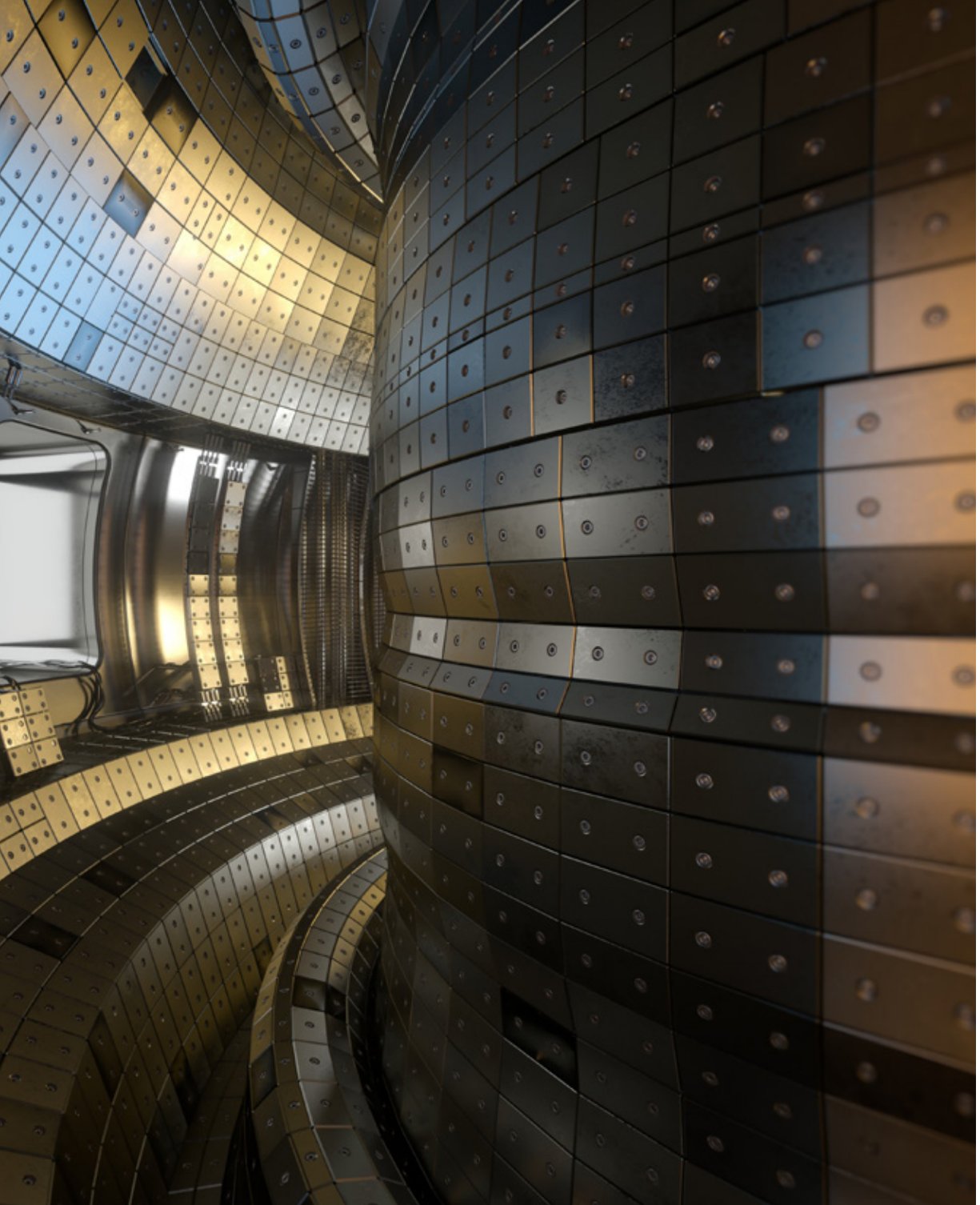
"We start from scratch, asking ourselves 'What's the problem?', and then find our way to our very own solution."

Carl Johan Fagerström, Fagerström

Fagerström Industrikonsult offer technical improvements in most types of processes and develop unique specialised machines. The company took its first steps into the Big Science market in 2015 with long-term mechanical design assignments for ESS, and is now also a supplier to ESO.

RFR Solutions are stainless steel specialists focusing on markets with stringent and challenging requirements. The company has a number of recurring orders, for example to ESS and CERN. Services include laser cutting, bending, licensed welding, surface treatment and validation.

Examec offers building of complete instruments/ machines, machine tooling of larger components, assembly, and testing. The company views Big Science as a strategic market, and its clients include ESS, MAX IV, and CERN.



FREEMELT

Advancing fusion materials through additive manufacturing

When Fusion for Energy (F4E), the European organisation responsible for Europe's contribution to ITER, launched a Technology Development Programme (TDP) focused on tungsten materials, the Gothenburg-based company Freemelt was selected as one of only three organisations to participate. The project aims to develop advanced tungsten components for future fusion power plants, where materials must withstand extreme temperatures.

Addressing a key fusion challenge

A key challenge in fusion energy is extending the lifetime of plasma-facing components exposed to intense heat and radiation. Improving material performance and thermal management is essential for making future fusion power plants more reliable and cost-effective.

Freemelt's task was to develop new manufacturing methods for tungsten, a material considered critical for fusion applications due to its exceptionally high melting point of 3,422°C.

Manufacturing and materials expertise

Freemelt contributes both its electron beam powder bed fusion (E-PBF) technology and its expertise in additive manufacturing of refractory metals. The company's 3D printing systems enable the production of high-density tungsten components in a vacuum environment and at elevated temperatures, providing unique control over material properties and microstructure.

As part of the project, Freemelt has demonstrated tungsten components with a density of 99.97%, significantly exceeding the approximately 98.7% typically achieved through conventional manufacturing methods. The company is also developing complex tungsten structures that can be infiltrated with copper alloys to improve heat transfer and extend component lifetime.

To support this work, Freemelt collaborates with Fraunhofer IGCV on advanced joining technologies for tungsten and copper alloys tailored to fusion requirements.

Creating value for future fusion facilities

The new manufacturing approach offers several advantages, including improved material properties, optimised geometries, faster development cycles and enhanced thermal performance without increasing production costs. An additional benefit is the establishment of a European supply chain, from raw material to finished component.

Freemelt was selected through a competitive tender process, receiving the highest evaluation score among the participating suppliers.

> "A key challenge in fusion energy is extending the lifetime of plasma-facing components exposed to intense heat and radiation."
>
> *Per Woxenius, Freemelt*



GO VIRTUAL NORDIC

Helping CERN power next-generation research computing

The IT company Go Virtual Nordic, with head office in Göteborg, customises cost-effective data solutions with a focus in HPC (High Performance Computing).

With comprehensive expertise in the fields of HPC and storage, the company has forged ahead in the market. This specialised company holds a unique position in the area of supercomputers.

Supply experiment stations at CERN research facilities handle vast quantities of data, making them an interesting market for Go Virtual Nordic. Big Science Sweden keeps Go Virtual updated on upcoming procurements from CERN and in 2025 they submitted a tender and won the order which was for several storage units. CERN use high performance compute clusters to filter and reduce the million of photos that are taken every second before they get stored on these storage units. “We are HPC architects who build efficient solutions in accordance with customer needs,” explains Adam Koc, HPC Sales at Go Virtual Nordic.

Experience of complex system solutions

As a small company, Go Virtual Nordic can be flexible and agile, and make quick decisions. The company can stand up against European HPC companies, shown not least by the big order from CERN, which led to increased sales in 2025.

“Go Virtual Nordic is a relatively small company, but we’re efficient and understand the customer’s needs within HPC, storage and datacenter networks”, continues Adam Koc. Our employees' aggregated experience means we can offer attractive specialist expertise in the HPC field.”

Good opportunities for new business

Go Virtual Nordic is a well-established HPC supplier in Europe, not least to the automotive industry, which is facing many new IT challenges. Self-driving cars and smart products are examples of areas that will require both AI technology and HPC solutions for storage capacity and for handling large data quantities. The research facilities are facing similar challenges.

“We monitor procurements from the facilities in Europe and see good opportunities for new business in the future,” concludes Adam Koc.

> “Winning the CERN contract demonstrated that our expertise and flexibility create real value in demanding research environments.”
>
> *Adam Koc, Go Virtual Nordic*



Photo: Copyright: SKAO

QAMCOM

Transforming signals from space into cutting-edge technology for the world's largest radio telescope

Qamcom, based in Gothenburg, is a deep-tech house, with signal processing at the core that turns research, concepts and ideas into industrialised real-world solutions.

In 2023, Qamcom was awarded the first Swedish industrial contract by SKAO – the Square Kilometre Array Observatory.

"This was a prestige order, not only for Qamcom but also for Sweden as a whole." says Harri Hellgren, senior system engineer at Qamcom. The contract acknowledges Swedish technology as an integral part of this massive international project.

Subsystem to transform signals from space

SKAO is building the two largest radio telescopes in the world, located in Australia and South Africa. Qamcom's contract concerns the SKA-Mid telescope in South Africa. The mission is to design and produce a complete subsystem that will transform analogue signals from space into amplified and clean digital signals.

The project draws upon the full capabilities of the company, from systems engineering and electronics development to project and production management, as well as verification, installation, and integration.

Qamcom delivers cutting-edge temporal synchronisation for SKA-Mid

Building on its established partnership with SKAO, Qamcom was selected to design and deliver a state-of-the-art temporal synchronisation system for the first phase of the SKA-Mid array. The team engineered, validated, and fully integrated a high-precision module capable of synchronising dishes to within a few picoseconds across tens of kilometres.

The solution integrates seamlessly with the existing receiver architecture and leverages the already-deployed White Rabbit network, ensuring minimal infrastructure overhead while maximising performance. From contract award to a field-ready unit, Qamcom delivered the complete system in under one year – on time and ready for site installation and testing.

Outcome

When fully operational, the SKA-Mid telescope will deliver unprecedented capabilities:

- Four times the resolution, enabling researchers to study the Universe in finer detail.
- Five times the sensitivity, capturing faint signals previously beyond detection.
- Sixty times the speed, accelerating data acquisition and analysis.

Collaboration with Onsala, Chalmers and Big Science Sweden

Qamcom's involvement in the SKAO project began through a collaboration with Onsala Space Observatory and Chalmers University of Technology, which lead Swedish interests in the construction of the SKAO telescopes. Big Science Sweden was also engaged throughout the journey, supporting the collaboration along the way.

"It is prestige order, not only for Qamcom but also for Sweden as a whole."

Harri Hellgren, Qamcom



QUALISYS

Brings advanced motion capture technology to CERN

Qualisys provides CERN with a high-precision optical motion capture system that enables accurate tracking of autonomous ground robots and flying devices operating in areas where radiation makes human access difficult or impossible.

The collaboration demonstrates how Swedish expertise in precision measurement technology can contribute to solving complex challenges at one of the world's leading research infrastructures.

Supporting robotics in challenging environments

As CERN expands the use of autonomous robots for inspection and maintenance in radiation environments, reliable positioning data becomes essential. To meet these requirements, CERN selected Qualisys' motion capture technology following an extensive technical evaluation.

"We had detailed technical discussions with CERN, and they concluded that our system met the technical specification," says Mathias Bankay, Key Account Manager for Qualisys in Switzerland.

The system provides highly accurate, real-time tracking of both the position and orientation of robots, enabling safe and efficient operation where direct human intervention is limited.

Delivering an integrated solution

The delivery comprises 16 high-precision motion capture cameras together with software, installation and training.

A key strength of Qualisys is that both hardware and software are developed entirely in-house. This enables the company to deliver a fully integrated solution offering sub-millimetre accuracy, very low latency and high reliability for demanding research applications.

The same technology is widely used in robotics, autonomous vehicles, biomechanics and advanced industrial research, making it well suited to the challenging environment at CERN.

The Big Science Sweden connection

Qualisys has been a member of Big Science Sweden since 2024 and has actively participated in networking activities and meetings with international research facilities. Through Big Science Sweden, the company has strengthened its understanding of the Big Science market, established valuable contacts and gained insights into procurement opportunities and future technology needs.

"The collaboration with CERN demonstrates how long-term engagement och technical excellence and strategic networking can create new business opportunities in the international Big Science market."

Mathias Bankay, Qualisys



Photo credit: SKAO/Max Alexander

RISE RESEARCH INSTITUTES OF SWEDEN

Meeting one of the world's strictest EMC requirements

The SKA Observatory, with facilities in South Africa (SKA-Mid) and Australia (SKA-Low), is designed to detect extremely weak radio signals from the universe. Even very low levels of electromagnetic interference from nearby equipment can compromise scientific observations.

To protect the telescope's performance, every component installed at the observatory must be carefully tested and verified to ensure that its emissions remain well below the specified limits.

Developing new methods for ultra-low emission measurements

RISE contributed its internationally recognised expertise in electromagnetic compatibility (EMC) and advanced measurement technology to address this challenge.

The project involved developing and validating specialised test methods capable of measuring emissions close to the background noise floor, where conventional standards are no longer sufficient. RISE optimised measurement setups, used state-of-the-art low-noise amplifiers and calibrated reference systems, and established robust testing procedures that deliver reproducible results across different laboratories and suppliers.

The methods were developed to evaluate both continuous emissions and weak pulsed signals, providing confidence that equipment can operate without interfering with the telescope's sensitive observations.

Enabling reliable operation of a global research infrastructure

By ensuring that equipment complies with SKAO's strict requirements, RISE helps reduce project risks, streamline the verification process and support the reliable operation of one of the world's most ambitious scientific facilities.

The collaboration has also strengthened RISE's expertise in advanced EMC measurements and low-noise testing, while creating new opportunities for collaboration with international research organisations and industrial partners.

"This project has been important for further developing our expertise in advanced measurements and strengthening our collaboration with both international research organisations and industry," says Fredrik Harrysson, Director, Safety and Transport, RISE.

"This project has strengthened our expertise in advanced measurements and our collaboration with research organisations and industry."

Fredrik Harrysson, RISE Research Institutes of Sweden



SAVANTIC

Defining a path to safer and more sustainable cooling

When CERN needed to explore new ways of monitoring and controlling Legionella growth in its evaporative cooling towers, Swedish AI company Savantic AB conducted a pre-study to assess feasibility and outline a model-based approach combining physics and machine learning.

The collaboration began at AIMday Big Science Technology 2025, an event dedicated to green tech solutions for large-scale research facilities. The cooling tower problem was raised there, and Savantic engaged directly with CERN stakeholders to find a solution.

From reactive testing to predictive control

Cooling towers are essential to CERN's infrastructure, dissipating the vast amounts of heat generated by particle accelerators, detectors, cryogenic systems and data centres. However, these environments also create favourable conditions for Legionella pneumophila, posing both health risks and regulatory challenges.

The screening method that is mandated by French regulation relies on culture-based laboratory analysis, which can take up to two weeks to deliver results. Operators therefore apply chemicals such as biocides and corrosion inhibitors on a precautionary basis rather than according to actual need.

Savantic's study identified a clear opportunity: shifting from calendar-based maintenance to predictive, risk-based control without compromising regulatory compliance.

Combining sensing, modelling and AI

Savantic conducted a comprehensive, vendor-neutral assessment of rapid detection technologies, including qPCR, antibody-based methods and nanopore sequencing. In parallel, the company reviewed the state of the art in modelling bacterial growth.

Following this, Savantic proposed a modelling approach built on interpretability rather than a black box:

- A bio-physical growth model, consisting of a logistic growth equation, driven wherever possible by process parameters the towers already measure.
- A neural-network alternative, benchmarked against time-series models, should the physical interpretation prove insufficient.
- An ancillary corrosion and scaling model, since pipe condition determines the habitat available to the bacteria, and since corrosion inhibitors are the largest driver of environmental impact.

The approach also includes a structured plan for data collection, calibration against mandatory culture testing, and a 15-month implementation roadmap.

A key insight is that rapid testing technologies are primarily needed during the initial calibration phase. Once validated, the model can run on continuous process data, complemented by the mandated regulatory sampling.

Reducing cost, risk and environmental impact

The proposed solution offers significant benefits for CERN and similar facilities:

- Environmental impact: reduced use of biocides and corrosion inhibitors by 10%, potentially more.
- Cost efficiency: estimated chemical cost savings of 10–50%.
- Work environment: reduced handling and exposure to hazardous chemicals.
- Operational reliability: early warnings lower the risk of costly downtime.
- Scalability: transferable to other cooling systems and suitable for federated learning across sites.

"What we develop for CERN's cooling towers can also benefit hospitals, industry and real estate, opening the door to a much larger market."

Mattias Åstrand, Savantic

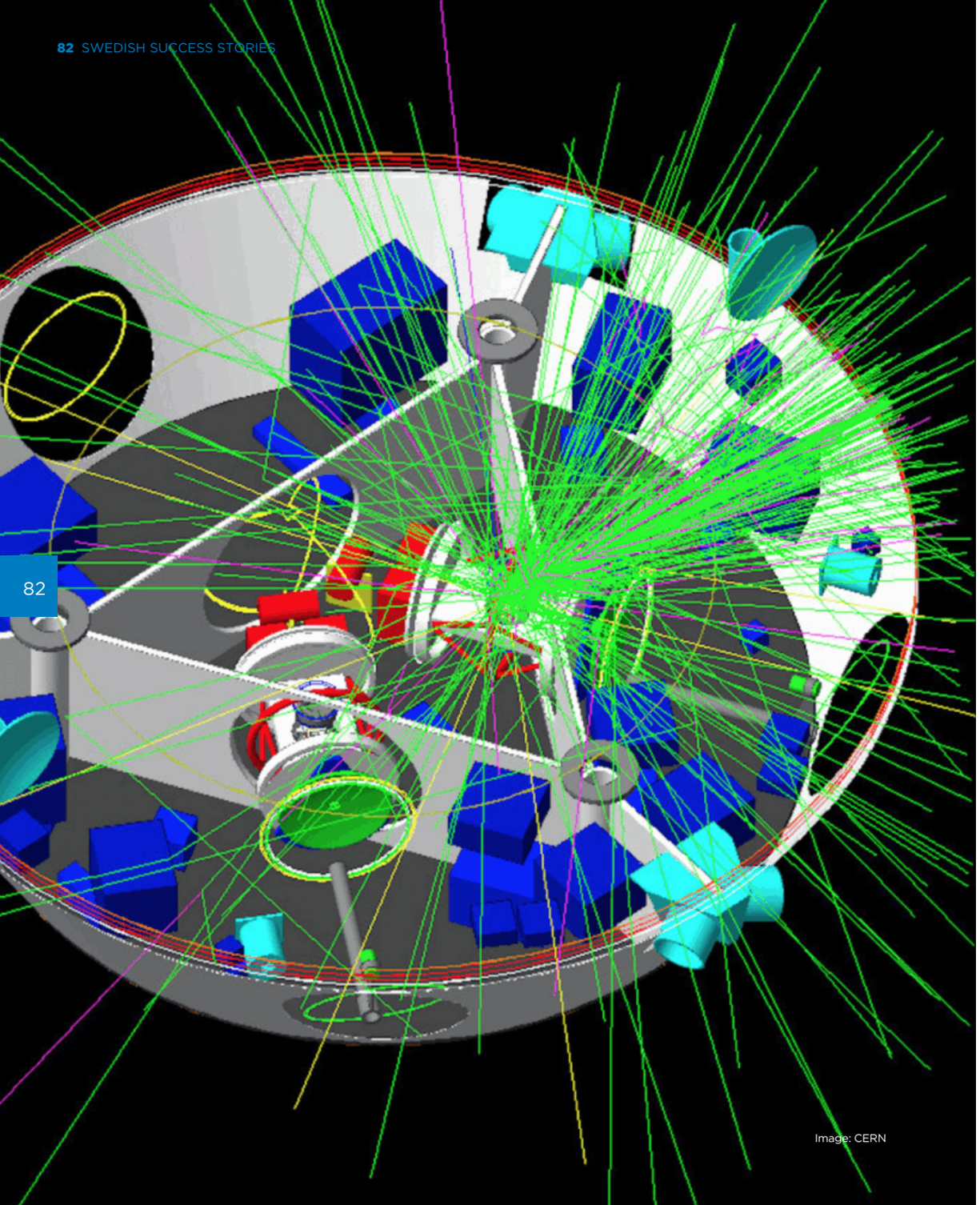


Image: CERN

TETRA PAK

What do particle physics and food packaging have in common? More than you might think.

Technology originally developed at CERN, the European Organization for Nuclear Research and home to some of the world's most advanced scientific experiments, is now helping Tetra Pak improve food packaging sterilisation processes, making them faster, more efficient and more sustainable.

At the centre of this collaboration is Geant4, an open-source simulation toolkit developed by CERN and the international Geant4 Collaboration to model how particles and radiation interact with matter. Originally designed to support fundamental physics research, Geant4 has since found applications in fields ranging from medical physics and space research to nuclear engineering and radiation protection.

Today, Tetra Pak is using this advanced technology to better understand and optimise sterilisation processes for food packaging.

Simulating sterilisation in the digital world

Ensuring packaging is sterile is critical for food safety. Traditionally, evaluating sterilisation performance has required extensive physical testing. By using Geant4, Tetra Pak engineers can complement this work with detailed digital simulations.

The technology enables engineers to simulate how electron beams (eBeam) and ultraviolet (UV) light interact with packaging materials and microorganisms during the sterilisation process. By modelling how radiation damages the DNA of bacteria and spores, teams can assess sterilisation effectiveness with a high degree of accuracy before conducting physical trials.

"Geant4 allows us to understand radiation interactions at a very detailed level and optimise our sterilisation processes with greater confidence," says Ulf Lindblad, Technology Specialist at Tetra Pak.

Faster, more efficient development

By providing deeper insights into how sterilisation technologies perform, the simulations help Tetra Pak reduce costly and time-consuming physical testing, optimise equipment and emitter design, and accelerate development through the use of advanced technologies such as GPU acceleration and system integration. They also help ensure the efficiency and reliability of sterilisation processes.

In addition, the simulations support broader equipment development efforts by helping engineers better understand temperature behaviour and overall system performance.

The result is a faster, more efficient development process that enables teams to innovate with greater confidence while supporting both product quality and operational performance.

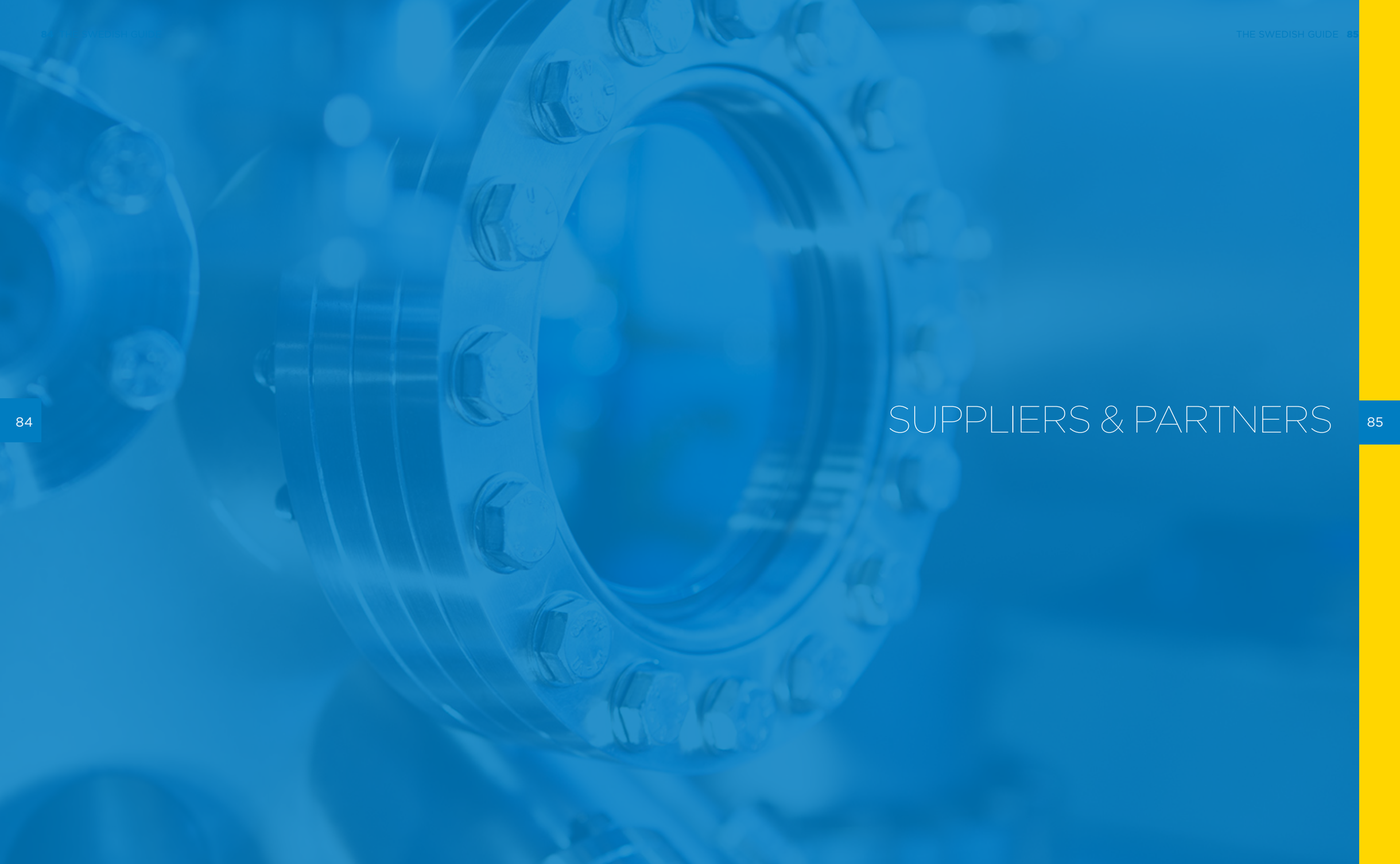
From research to industrial impact

The collaboration demonstrates how innovations created for fundamental scientific research can find powerful applications in industry. By transferring advanced simulation methods from CERN into food packaging development, Tetra Pak is applying cutting-edge science to solve practical challenges in food production and packaging.

It is also a strong example of how technology developed within Big Science ecosystems can create value far beyond the research laboratory, helping improve food safety, strengthen process sustainability and accelerate innovation.

"Geant4 allows us to understand radiation interactions at a very detailed level and optimise our sterilisation processes with greater confidence,"

Ulf Lindblad, TetraPak



SUPPLIERS & PARTNERS



INDEX

The Swedish Guide is a compendium of selected high-tech Swedish suppliers. All have the potential and capacity to supply Big Science facilities and are actively seeking new business opportunities and collaborations.

For a complete list of Big Science Sweden member companies, please visit our supplier database at www.bigsciencesweden.se

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AAC OMNISYS

Company profile

AAC Omnisys, part of Swedish company AAC Clyde Space AB, engineers and manufactures bespoke scientific instruments for advanced science applications. With over three decades of experience, we develop advanced payloads and high-performance electronics, including sensors, power systems, electrochemical instruments and optical instruments.

AAC Omnisys is building radio astronomy receivers for the SKA Observatory (SKAO), a publicly funded intergovernmental organisation constructing two of the world's largest radio telescopes: SKA-Mid in South Africa and SKA-Low in Australia.

For the European Space Agency's Arctic Weather Satellite (AWS), AAC Omnisys developed an innovative scientific weather payload. Its passive microwave radiometer will measure atmospheric temperature and humidity for Numerical Weather Prediction and Nowcasting.

We are long-term partners with leading space institutes, including the ALMA radio astronomy facility in Chile. The 16-year partnership followed a contract appointing us as the main supplier of 58 Water Vapour Radiometers—one for each antenna at ESO's ALMA telescope.

Our team developed the Sub-millimeter Wave Instrument (SWI) aboard ESA's Jupiter mission JUICE, launched in April 2023. JUICE is the first large-class mission in ESA's Cosmic Vision 2015–2025 programme.

AAC Omnisys AB

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Core competencies

- We are a world leader in advanced payload development for New Space with a particular focus on weather payloads, set to grow strongly as new technology supports dramatically improved forecasts.
- Our extensive heritage working alongside the scientific community developing and manufacturing complete instrument systems means we have a unique understanding of scientific instruments on a systems level.
- Omnisys has world leading experience in high frequency micro- and millimetre wave instruments, electronics design, instrument control, power electronics, optical measurement systems, measurement software and mechanical structures.

Industry sectors

- Space
- Big Science

References

- SKA-Mid Band 1 Single-Pixel Feed (customer: SKAO)
- Payload prime for the Arctic Weather Satellite (customer: OHB Sweden/ESA)
- Complete optical payload for the MATS satellite (customer: Swedish National Space Board)
- Front-end components and spectrometer for JUICE's Sub-millimetre Wave Instrument, SWI (customer: ESA)
- Front-end receivers for MetOp-SG weather satellites (customer: Airbus Defence and Space)
- Cryogenic front-end feeds for VLBI/VGOS radio telescopes (customers: Wettzell Telescope and Toyo Corporation)
- Water vapour radiometers for the ALMA telescope in Chile (customer: ESO)
- Phase-lock system for the Japanese SMILES mission (customer: JAXA)
- PCDUs for the SMART-1 Moon probe and PRISMA satellites (customers: ESA and Swedish Space Corporation)
- Microwave instruments for the Odin satellite (customer: Swedish Space Corporation)

Company size

Small

ABB

Company profile
The company's solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered and operated. Building on over 140 years of excellence, ABB's more than 105,000 employees are committed to driving innovations that accelerate industrial transformation. Global web page

Core competencies
ABB contributes to the transformation of society and industry with its electrification, automation, robotics and motion solutions. Our solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered, and operated.

Industry sectors
- Chemicals
- Oil & gas
- Metals
- Cement
- Food and beverage
- (Waste) Water
- Marine
- Power generation
- Pulp & paper
- Mining

References
CERN – ABB and CERN identify 17.4 percent energy-saving opportunity in cooling and ventilation motors

Company size
Large



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ADD NORTH 3D

Company profile
Add North is a world leading developer of materials and producer of 3D printing filaments, with a select portfolio of machines, hardware and accessories for FDM 3D printing. We offer a complete range of filaments, from basic polymers to advanced engineering composites, with some unique materials in the portfolio. We have extensive experience in development of custom materials, where we translate certain requested properties into a functional recipe that is both producible and works in a 3D printing application. We also offer expertise in materials, 3D printing services, and consultancy services.

Core competencies
- Custom 3D materials development
- D Filaments
- 3D Printers
- 3D printing accessories

Industry sectors
- Additive Manufacturing
- Polymer industry (3D Printing)

References
- Ongoing contract with European Spallation Source ERIC, where we supply 3D printers, materials and accessories
- We have developed materials for different shielding applications for high-tech industrial customers, such as neutron radiation shielding, EMI shielding, and RFI shielding
- ESD and flame-retardant materials

Company size
Small



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ADDIVA ELEKTRONIK

Company profile
Addiva develops electronics and embedded software. Our specialities are communication in industrial environments and embedded power design. We also have laboratory resources for conducting high-speed measurements, etc. The Addiva-EEPAB Group includes an electronics factory in Sweden. We have expertise in the field of ethernet communication. We build switches and routers for harsh environments, and software for network operating systems and time sync.

Industry sectors
- Industrial automation
- Railway
- Military
- Telecom (fiberoptic side)
- Medical
- Energy

Company size
Small

Core competencies
- HW development
- SW development (all layers)
- Time sync
- Networking
- Network protocols
- High-speed electronics
- Power electronics
- High-speed simulations



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ADVANCED INTEGRATION TECHNOLOGY UMEÅ

Company profile
AIT develops automated and custom-made mobile solutions for handling equipment in the aerospace sector and other industries with requirements for high precision and high load capacity. Our products are designed to transport and position precision tools, equipment used for assembly, assembly staff, and large aircraft structures during manufacturing.

We can also offer customised automation solutions such as robot cells, fixtures and welded constructions. With all the necessary skills under the same roof, we design, project manage, manufacture, and assemble the product, which we install and commission on the customer's site.

Industry sectors
- Aerospace
- Automotive

References
- Aerospace industry – AGVs (Automated Guided Vehicles), MGVs (Manually Guided Vehicles), equipment to move aircraft during manufacturing. We have delivered more than 200 machines.
- Automotive industry – Complete custom-made automation solutions, >50 supplied.

Company size
Small

Core competencies
- Mechanical engineering
- Electrical engineering
- Software development
- Project management
- Machining
- Welding
- Assembly





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AHLBERG CAMERAS AB

Company profile
Ahlberg Cameras was established 45 years ago, and provides high quality radiation tolerant visual inspection, CCTV, and lighting systems, and customized solutions with the latest technology for all types of nuclear reactors, research laboratories, and waste facilities.

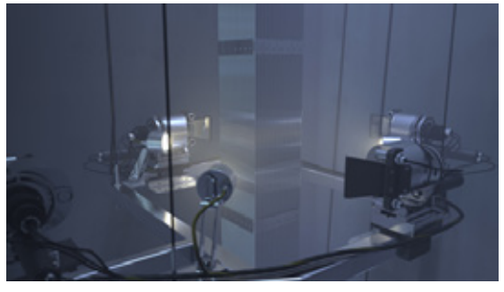
We have sold our products to more than 200 reactors in 35 countries. We provide a turn-key solution which includes training, installation, maintenance, and on-site support.

Core competencies
Radiation tolerant cameras, rad-hard cameras, lights, lamps, operator station, camera control unit (CCU), CCTV, customization, tailormade solutions, visual solutions, service, support, maintenance, and development services.

Industry sectors
- Research facilities
- National laboratories
- Nuclear Power Plants (NPP)
- Non-Destructive Testing (NDT) companies for inspections
- Decommission
- Nuclear fuel manufacturers
- Hot cells
- Nuclear waste storage and reprocessing facilities and plants

References
- CEA
- CERN
- CNL – Canadian Nuclear Laboratories
- INL – Idaho National Laboratories
- LLNL – Lawrence Livermore National Laboratories
- NRG PALLAS
- Sandia National Laboratories
- Savannah River National Laboratories
- Studsvik

Company size
Medium



AHLBERG CAMERAS
LATEST IN NUCLEAR VISUAL TECHNOLOGY

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AIM SWEDEN

Company profile
We have extensive experience of additive manufacturing in metal, primarily Ti-6Al-4V, using Electron Beam Melting (EBM). We also have capabilities in plastic (SLS). We are used to working with regulated industries, and our customer base includes clients in the medical, energy, and formed fibre sectors. We have expertise in advanced modelling and generative/computational design for additive manufacturing.

Core competencies
Electron beam melting (EBM), powder bed fusion (E-PBF, L-PBF), selective laser sintering (SLS), additive manufacturing (AM), 3D printing, generative design, computational design, advanced manufacturing, Ti64, Ti-6Al-4V, titanium, Grade 23, Grade 5

Industry sectors
- Energy
- Medical
- Molded fibre
- Aerospace

References
- https://assets.new.siemens.com/siemens/assets/api/uuid:a4659ee4-06f3-4089-91cb-399854611dbb/version:1588178306/wp-march2020-stackupthelayers-article.pdf
- Ramén valves - Ball sector valve https://www.ramenvalves.com/about-us/innovation/3d-additive-manufacturing/
- Molded fiber tooling
- (Advanced computational modeling and manufacturing) https://3dprint.com/276605/aim-sweden-creates-3d-printed-tooling-solution-for-molded-fiber-containers/

Company size
Small



aim

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AIR LIQUIDE GAS

Company profile
One of the leading companies world wide in more than 80 countries.

Core competencies
Gas-related products and services.

Industry sectors
- Pharma
- Food
- Welding
- Laboratories

References
- Oil & gas laboratories
- Manufacturing sites

Company size
Large



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AIRSON ENGINEERING AB

Company profile
AirSon Engineering AB provides contracting and consulting services in energy, building technology and controlled indoor climate. Our focus is mainly on installation- and energy-intensive projects with high demands and tight tolerances. In example Medicine & Pharma, Microelectronics, Food industry, and Research facilities. By promoting a creative engineering culture and to be in the forefront of technological development, the company has become a textbook example for good engineering and innovation. The company has over the years produced an impressive number of patents, new products and commercial ramifications alongside the primary business.

Core competencies
- Mechanical (HVAC) engineering and installation
- Cleanroom design and construction, aerosol and air movement
- Controlled indoor climate and microclimate applications
- Energy Efficiency, Digitalization and Energy optimization
- Project management and turn-key installations

Industry sectors
- Research and laboratory facilities
- Microelectronics
- Pharmaceutical and medicine
- Food industry
- Injection moulding and extruding

References
- AirSon developed the framework and specified the requirements for the HVAC installations at the ESS facility in Lund, Sweden.
- Validation of HVAC engineering at ESS facility and other research facilities.
- At our HQ in Ängelholm, we have two air laboratories where we develop tailor made applications and solutions for multiple renowned companies.

Company size
Small



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AISLE SYSTEMS SWEDEN

Company profile
Aisle Systems Sweden specialises in security-related and quality assuring systems. The company supplies and supports systems in a number of stages - investigation, development, delivery/ operation, training, and support.

The company's main product lines are:
- Identity governance and administration
- Identity access management
- Attribute-based central access management system
- Anti-tamper authoring system
- Attest issuer administration

Core competencies
- Systems development
- Problem solving
- Breaking down complex problems to simple user interfaces
- Integration with feeding and receiving systems

Industry sectors
- Healthcare
- Pharmaceutical
- Nuclear and process industry
- Sites with a large property stock

References
- Karolinska University Hospital
- Region Stockholm (one of Europe's largest healthcare providers)
- Malmö City
- RISE, Research Institutes of Sweden

Company size
Small

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AIXIA

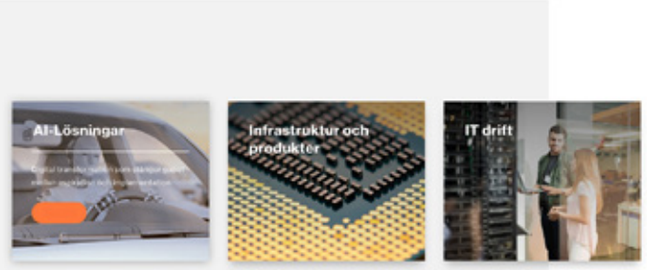
Company profile
Aixia specialises in design, delivery and support of AI infrastructure solutions. Customers choose Aixia because they want a partner who can deliver excellence while valuing flexibility.

Core competencies
- Deep learning
- Machine learning
- High-capacity storage
- HPC
- Data science
- GPU
- Networking
- Security
- Data centre

Industry sectors
All Industry sectors

References
- AI Innovation of Sweden
- Zenuity (Deep learning platform for self-driving cars).
- Lund University
- Several other companies that we are not able to disclose at this time

Company size
Small



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ALFA LAVAL TECHNOLOGIES

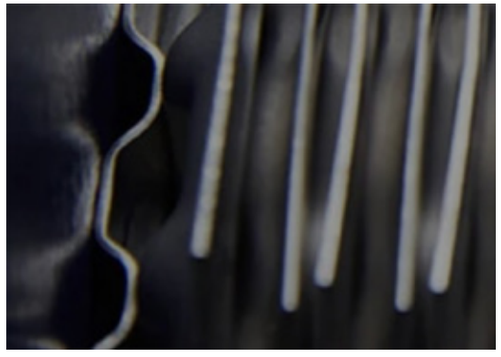
Company profile
Alfa Laval is a leading global supplier of products and solutions for heat transfer, separation and fluid handling through our key products – heat exchangers, separators, pumps and valves. We currently play a vital role in areas that are crucial for society, such as energy optimisation, environmental protection and food production. Alfa Laval works to optimise the use of natural resources in both our own and our customers' operations.

Core competencies
Alfa Laval has a large number of different products in their offering, including heat exchangers that are more efficient than alternative technologies. In most processes, heat transfer solutions are required for heating, cooling, ventilation, evaporation or condensation, which can all be achieved efficiently using Alfa Laval heat exchangers. Most industrial processes use water and generate waste that needs to be treated to meet tough legislation requirements and to maintain operational licences. Alfa Laval offers a complete spectrum of technologies for water and waste treatment.

Industry sectors
Alfa Laval products are used in:
- Process Industry
- Energy
- Marine
- Engineering
- Mining
- Refineries
- Wastewater treatment
- Indoor climate solutions

References
- Pressure breakers for tallest buildings in the world
- Cooling solutions to data centre hyperscalers
- Oil cooling and temperature control equipment to global OEMs
- Hydrocarbon condensers to global chemical producers
- Condensors and evaporators for chillers and heat pumps to global OEMs.
- Gas treatment and crude oil dehydration processes to LNG plants
- Steam turbine condensers to global end-users

Company size
Large



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ALGORYX SIMULATION

Company profile
Algoryx, a global leader in real-time physics simulations, develops advanced physics-based simulation software for complex machinery, vehicles, and robots, resulting in digital twins grounded in scientific principles. These digital twins serve as tools for training and validating AI-based control systems, a critical component in advancing machine autonomy. Our simulation technology has been instrumental in optimising operations and improving safety in sectors such as construction, mining, maritime, robotics, agriculture, forestry, and space.

Algoryx's solutions are perfectly suited to addressing the unique challenges faced in Big Science experiments and research. Algoryx offers a comprehensive suite of physics simulation solutions that can make a significant contribution to the efficiency and success of Big Science projects.

Our global experience in real-time simulations, coupled with our proven track record across various sectors, makes us a valuable partner for advancing scientific research and innovation in the Big Science market.

Core competencies
- Real-time physics simulation
- Digital twins AI integration
- Control system validation
- Safety enhancement industry
- Experience customisation
- Global reach performance optimisation
- Innovation
- Training
- Support

Industry sectors
- Agriculture
- Construction
- Factories (Material handling)
- Forestry
- Maritime
- Mining
- Robotics
- Space

References
- Fukushima - decommissioning and robotics test field
- VR system for robotic operation of the Joint European Torus (JET) (with Tree-C)



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ALLEIMA

Company profile
In addition to a comprehensive portfolio of premium products in advanced materials, developed for the most demanding industries, Alleima can now provide services and solutions in the following areas:
- Materials - consulting and testing
- New product and process development
- Supply chain, fabrication and customised products
- Sentusys™ intelligent tube system for monitoring materials

With more than 150 years of experience from developing and manufacturing products in steel, stainless steel, nickel, zirconium, and titanium-based materials, you can rely on us for support regarding all materials-related questions and problems. Contact us when your material fails or when you want a second opinion on what material to use in your applications.

Core competencies
- Metallurgy and metallography
- Material characterisation
- Process simulation
- Corrosion (wet and high temperature)
- Electrical resistance heating
- Powder technologies
- Surface coating technologies (CVD and PVD)
- Welding and production technology

Industry sectors
- Big Science
- Oil and gas
- Automotive
- Nuclear
- Process industry

References
- Big Science: CERN – Non-magnetic material for accelerators to run at 4K
- Big Science: ESS – Material consultancy during the construction of the facility
- Process industry: Stora Enso – Material consultancy and selection of material for corrosive environments
- Process industry: Analysis and recommendation of material for a ventilation system exposed to corrosion
- Nuclear: GE: Design and development of a production method for thin-walled APTM tubes in cladding dimensions

Company size
Large



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AMO KABEL

Company profile
We provide the world with cable innovations. Our company has high technical knowledge and strong determination to design cable solutions for challenging applications. Service with short lead time, flexibility and high accessibility reflects our entire organization. Environmental awareness for sustainable development and minimizing our imprint on the climate is our way of doing responsible business.

Core competencies
- Sustainable development
- High level of quality
- Flexibility in production and delivery
- Innovation
- High customer focus
- Corporate social responsibility

Industry sectors
- Airport
- Marine
- Offshore
- Mining
- Automotive
- Submarine
- ROV umbilicals
- Fishfarms renewable
- Shipping
- Machine
- High-tech

References
ABB

Company size
Medium



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APR TECHNOLOGIES

Company profile
APR Technologies is a high-tech hardware engineering company developing and selling new thermal management products for demanding applications. This includes liquid cooling using our pumps (developed in-house) with no moving parts, for dielectric liquids including liquid nitrogen. Typical customers are from sectors such as space, medtech, and electronics. APR Technologies has its own cleanroom facilities and designs/builds vacuum equipment, including chambers, thermal vacuum test chambers, and process chambers.

Core competencies
Vibration-free and silent liquid thermal management for equipment, sensors, computing, batteries, electronics and power electronics. This thermal management can involve heat removal, exact temperature control, or actively controlled thermal conductance/resistance between two areas. Regulation and switching of heat, cooling, temperature regulation. Dielectric immersion cooling of electronics, etc. Other applications are high voltage/low current power supplies, RF, LNA, and low noise applications. Other typical advantages of our systems are vibration-free, silent, long lifetime, radiation tolerance. APR has also developed "Fireworm" sensor cables for temperature monitoring over long distances, with wired as well as wireless sensor nodes.

Industry sectors
- Space
- Medtech
- Automotive
- Electronics
- Bioenergy
- Researchers and research organisations

References
- Currently validating our thermal regulation solution for large telecom satellites ARTES, with Airbus and ESA.
- Thermal management solution for an instrument to be used on the International Space Station (order from NASA).
- Consultancy services and custom-made products to other industries.

Company size
Small



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AQ ELAUTOMATIK

Company profile
AQ Elautomatik specialises in the design and production of electrical equipment, electric cabinets, control equipment, control desks, and control systems for demanding industrial applications. We have more than 30 years experience of collaborating with customers with the highest requirements in terms of quality and delivery reliability. Our products are delivered worldwide, which has given us comprehensive expertise on both local and global industry requirements regarding product design.
AQ Elautomatik aims to be the complete partner that develops our customers' electrical systems. With our commitment to total quality our customers become long-term partners. We have broad and extensive experience of the design and assembly of electrical cabinets and in helping customers develop a cost-effective product.

Core competencies
- Series-produced products/electrical cabinets
- Project-produced products/electrical cabinets
- Product development
- Design using E-plan P8 and Elprocad
- Prototype development, with a focus on cost & lead-time
- Assembly & design according to UL standard
- Product review, where we supply the customer with proposals for how we can lower the cost for material and processing.
- Global production: Sweden, Bulgaria, India and China
- Our own manufactured special enclosures, painted and stainless

Industry sectors
The AQ Group consists of about 20 operational subsidiaries divided into seven business areas. The business areas can deliver entire projects, from the initial idea to engineering, purchasing of materials and components, production, assembly and testing. Each subsidiary has an engineering department working on production in close co-operation with the customers. The AQ Group also has a number of sites dedicated to engineering services. Electric cabinets, wiring systems, injection molding, sheet metal processing, system products, inductive components, special tech. & engineering.

References
- Transportation
- Electric
- Telecom
- Automotive
- Power
- General industry & engineering
- Commercial vehicles
- Automation
- Defence
- Railway
- Food
- Pharmaceuticals

Company size
Medium



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www.aqgroup.com

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ASENSOR TECHNOLOGY

Company profile
Asensor Technology AB is a Swedish company specializing in the design and manufacture of advanced analog Hall effect sensors, with all development and production based in Sweden. The company provides high-performance sensing solutions for demanding scientific and industrial applications, with sensors operating from just above 0 K up to 500 K and covering magnetic field ranges from microtesla (QT) to approximately 20 tesla (T).

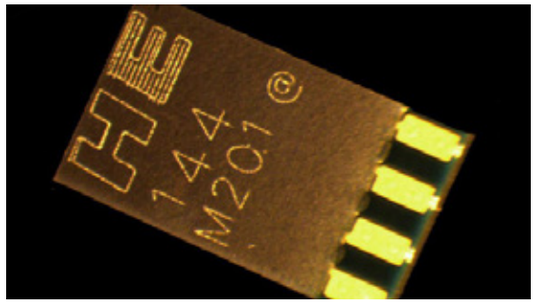
Asensor's technology is characterized by low noise and high linearity, enabling precise and reliable magnetic field measurements in extreme environments. Typical application areas include Big Science research infrastructures, space and aerospace, and advanced industrial and defence systems where accuracy and robustness are critical.

Core competencies
- Analog Hall Sensors
- Low/High temperature
- High T-fields

Industry sectors
- Space
- Avionics
- Military
- High end industrial

References
- Thales
- Gulfstream
- UTC (USA)
- L-3C (Europe and USA)
- DLR
- Airbus
- Bosch
- ASML
- SKF
- SRON, Netherlands

Company size
Small



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ASSEMBLIN VENTILATION

Company profile
Caverion is now part of Assemblin Ventilation AB, Company with in-house design department for refrigeration, factory for production of ref. units, design of control systems, own solutions for cloud service, etc. Ability to design, execute and commission large and complex installations. Market leader in solutions with natural refrigerants, preferably CO2 (R744). 24/7/365 service centre with skilled personnel for maintenance and support.

Core competencies
- New value-added technology
- Natural refrigerants
- Integrated system solutions
- Machine learning
- Cloud-based connectivity
- Project and design organisation for refrigeration, electrical, control, plumbing, ventilation, BMS, etc.

Industry sectors
- Industrial
- Commercial
- Heat pump
- Ice hockey arenas
- Geothermal systems
- Professional kitchens
- Hospitals
- Medical
- Warehouse
- Logistic centres
- Data centres
- Climate room for Universities

References
See Caverion webpage.

Company size
Medium



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www.assemblin.com

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ATLAS COPCO

Company profile
Atlas Copco is a global, industrial company based in Stockholm, Sweden, with approximately 39,000 employees and customers in more than 180 countries. We are pioneers and technology drivers, and industries all over the world rely on our expertise. Our market-leading compressors, and vacuum solutions systems can be found everywhere.

Core competencies
- Rough vacuum pumps
- Energy-efficient solutions for vacuum

Industry sectors
All Industry sectors using rough vacuum.

Company size
Large



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www.atlascopco.com/sv-se/vacuum-solutions

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Product and Sales Manager, Vacuum Solutions
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AZPECT PHOTONICS

Company profile
Azpect Photonics AB operates in the photonic market, i.e. in the field of lasers, optics and electro-optics, including motion control. We represent more than 20 specialist suppliers covering the full spectrum of photonic products. Our main suppliers include OptoSigma, LUNA, OzOptics, Excelitas PCO, LabSphere, Excelitas, Conoptics, G&H, Avantes, and Lightcomm.

We supply equipment to academic research facilities and science-based industries, from components to complete turnkey systems, all according to the customer's needs. Our customers are found in a variety of high-tech markets, including renewable energy and medical applications.

Azpect Photonics AB was founded in 1994 and is now the largest and leading supplier of photonics equipment to the Nordic market. Since January 2012, Azpect has been fully owned by the pan-European distributor AMS Technologies, with head office in Munich, Germany.

Core competencies
Azpect is a supplier of phototonics equipment. Our policy is to meet customer needs quickly and efficiently. Our sales engineers are highly experienced in their respective areas of responsibility. The service department has extensive experience in photonics for both scientific and industrial applications, and our service engineers are trained and certified by our suppliers.

References
Our customers include major Nordic universities and research facilities, such as MAX IV and ESS, as well as high-tech companies. For more detailed references, please contact us.

Company size
Small



Azpect Photonics AB
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www.amstechnologies-webshop.com/ams-technologies-nordics

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Sales Manager R&S
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BERGMANLABORA

Company profile

BergmanLabora AB is one of the leading suppliers to the Nordic laboratory market. We provide instruments from market-leading manufacturers of microscopes, analysis and measuring instruments. Relevant instrumentation to the Big Science market includes advanced microscopes and optical components (from, e.g., Nikon), spectroscopy equipment (from Teledyne Princeton Instruments), and a broad selection of cameras and advanced detectors for, e.g., X-ray applications (from, e.g., Teledyne Photometrics and Princeton Instruments).

Core competencies

Everything we do is built on knowledge and expertise regarding the products we sell and the solutions we provide. We provide consulting services on complex projects within our areas of expertise - microscopy and optics, spectroscopy, cameras and detectors, as well as material analysis (hardness, tensile, surface, etc.).

Industry sectors

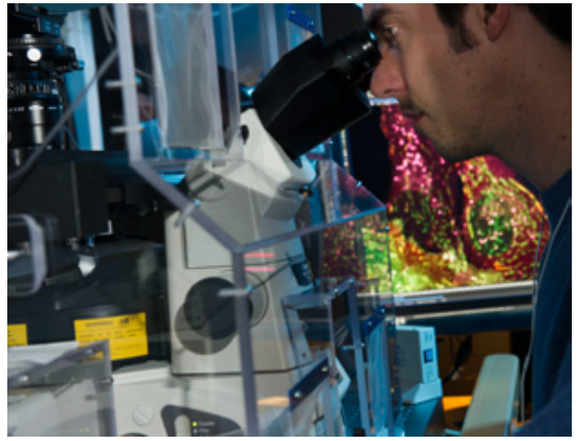
BergmanLabora works in all sectors where laboratory equipment is required for R&D and QC purposes. Our largest customer base comprises academic research at universities and research institutes (incl. Big Science). We have a major presence at manufacturers from steel to automotive where additive manufacturing is an area of focus. We also work with healthcare professionals in specific areas (IVF, microbiology, etc.).

References

We have delivered multiple microscopes and detectors to both MAX IV at Lund University and ESS and will continue. We look forward to contributing to other Big Science projects with our Nordic customers.

Company size

Small



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BEVION GROUP

Company profile

Bevion Group AB is an umbrella company, representing nine specialist consulting companies with largely complementary expertise. The main focus is the nuclear industry, both in Sweden and internationally. Bevion specialises in framework agreements, representing its members/owners in meetings with mutual clients, and working on tenders and agreements. The work also includes updating framework agreements and implementing revisions. Bevion participates in conferences, looking for new opportunities and new geographical areas. Bevion Group AB covers all technical consulting positions for consultants in the Swedish nuclear sector.

Core competencies

The nine companies in the Bevion Group with their core areas of expertise:

- Berdiz Consulting AB and Onsala Ingenjörsfirma AB have similar profiles, working with advanced calculations and analyses.
- Virtuell Design works with digital twins, virtual reality, and mechanical design, and shares many clients with Berdiz Consulting and Onsala Ingengörsfirma AB.
- Synective Labs focuses on electronic HW development like FPGA.
- Fagerström Industrikonsult specialises in design, manufacture, and delivery of small-scale process systems.
- Solvina focuses on operational performance and control of advanced energy and process systems.
- Vysus Group, former Lloyd´s Sweden, focuses on risk management and risk analyses relating to advanced energy and process systems.
- Bylero specialises in the management and design of civil engineering structures and water systems.
- Scanscot Technology specialises in structural verification of steel and concrete structures to withstand loads caused by, for example, tsunamis and earthquakes.

Almost 300 engineers are currently linked to the Bevion Group AB.

Industry sectors

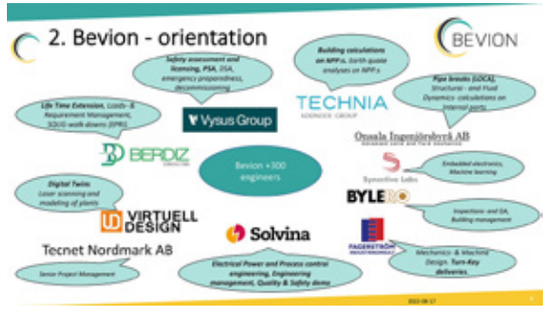
- Nuclear
- Energy
- Process
- Paper- and pulpmill
- Refineries
- Aerospace
- Automotive

References

- ESS (Vysus Group Sweden AB, Scancot (Technia), Solvina, Fagerström Industrikonsult, Berdiz Consulting)
- ESO (Fagerström Industrikonsult)
- Nuclear facilities in Sweden and Finland, as well as several in the US, France, Turkey and China.

Company size

Large



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Erik Bernesson
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BITSIM NOW

Company profile

BitSim is an electronics design house with a focus on imaging, edge computing with data acquisition, and high-speed data collection solutions for product-oriented customers. We have developed a number of solutions we offer our customers for use in other projects, to shorten the time to market.

Since 2000, we have designed FPGAs, boards and embedded SW for detectors, sensors, imaging systems and communication equipment, ending up in products such as industrial cameras, X-ray equipment, automotive and medical displays, alarm systems, seismic data acquisition, and telecom systems.

Core competencies

- Embedded HW/SW
- Mechanical engineering
- Industrial design
- Data conversion ADC
- DAC, Advanced electronics
- Camera development and imaging
- Printed circuit board design & layout
- FPGA development
- IP blocks
- Ethernet

Industry sectors

- Industrial
- Medical
- Scientific
- Automobile
- Defence

References

- Uppsala University Geophysical Institution: Ongoing seismic exploration project for deep borehole exploration
- Uppsala University Physics/IRF: Analog to Digital Conversion with FPGA
- Company: We have developed a high resolution digital seismic acquisition system with sensors collecting and storing geodata. The detector, which we have produced in high volumes, is used at great depths in oceans and seas.
- Startup - Photon Detector - 1 ns pulse single photon detector

Company size

Large



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BLUEWAVE

Company profile

BLUEWAVE Microsystems AB is an engineering design company. We have over 20 years of experience in controlling and commanding electrons and photons (and occasionally other particles) to do useful work or to reveal their secrets. We are experts in NIR, NMR and RF (dielectric) spectroscopic machines as well as pulse analyzers and high voltage electronics (switches). We have also good knowledge and a keen interest in QMR, XRF and SPR machines.

Core competencies

Our specific skills include RF, microwave, graphical (PC) software, embedded software, DSP, FPGA, MMIC and optoelectronics.

Industry sectors

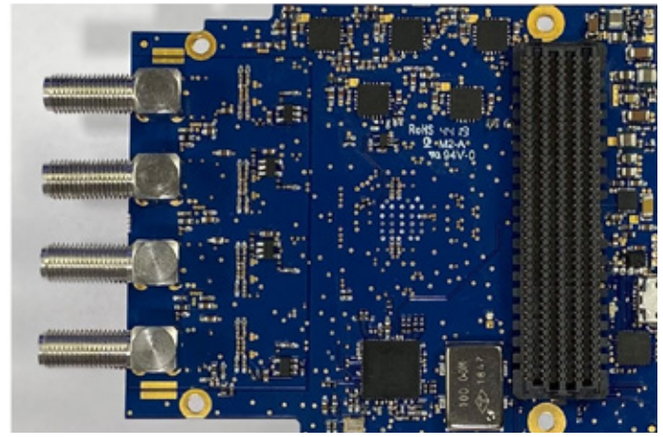
- Academic research facilities
- Telecom

References

- FMC 4xADC 14b/500MHz delivered to CERN as part of the new beam monitoring system
- Pulse height analyzer delivered to DESIREE facility at Stockholm University

Company size

Small



FPGA Mezzanine Cards 4xADC 14b/500MHz

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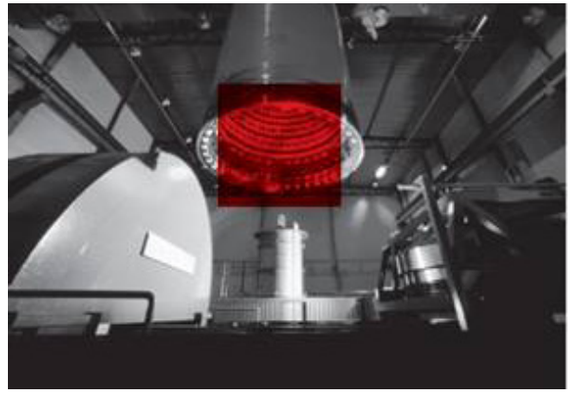
BODYCOTE HIP

Company profile
World leading provider of HIP service (densification of castings), and near-net-shape components based on powder metallurgy. Advantages included freedom in design, excellent material properties, wide range of material grades, and short production times.

Core competencies
- Hot isostatic pressing
- Powder metallurgy
- Material knowledge
- Design capabilities

Industry sectors
- Oil & Gas
- Nuclear
- Aerospace

Company size
Medium



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BROGREN INDUSTRIES

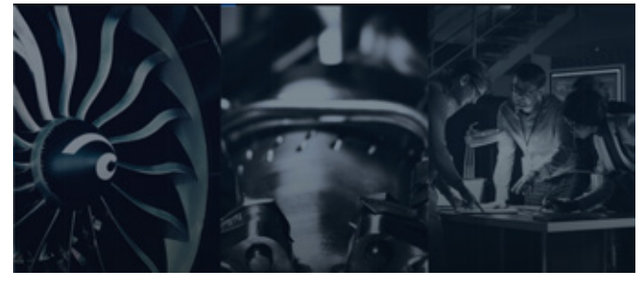
Company profile
Brogren Industries should be the obvious option in selecting partners to develop processes or produce high-tech products. We will work to have long-term relationships with our customers and be able to assist in an early stage. Our work is characterized by quality and continuous improvement. Carefully developed processes and competent personnel will lead and operate cost-effectively using modern equipment. We are certified according to the following: AS9100 Revision D, ISO9001:2015, ISO14001:2015, ISO3834-2:2005, ISO3834-2 Scope of Activity.

Core competencies
- A complete expert supplier in machining (turning and milling 5-axis machining), TIG and Laser welding
- AS 9100, ISO 9001, ISO 14001 and ISO 3834-2 certified
- NDT
- Assembling
- Marking
- PPAP/FMEA
- Construction
- CMM and Traceability

Industry sectors
- Aerospace
- Gas Turbine
- Parts / Environment

References
- GKN
- SAAB
- Siemens
- Azelio (Cleanergy)
- Emerson

Company size
Medium



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R&D Manager
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BROKK

Company profile
With nearly 50 years of experience and more than 13,000 machines in operation worldwide, Brokk is a global leader in remote-controlled demolition technology. Our machines are built to perform in the most demanding and hazardous environments, offering unmatched reliability and efficiency. Brokk provides a complete service offering—including consulting, mock-ups, operator training, maintenance, commissioning, and final testing—to ensure optimal performance and safety in every project. Our modular, adaptable design enables customized solutions tailored to specific operational needs.

For nuclear applications, Brokk systems are used for safe, precise demolition, decontamination, and waste handling tasks. In collaboration with Ahlberg Cameras, we integrate radiation-tolerant camera systems, allowing operators to conduct critical operations from a secure distance. This includes demolition, removal, sorting, and containerization of radioactive waste.

Brokk has supplied systems to nuclear facilities and decommissioning projects across the globe, including in the US, UK, France, Germany, Belgium, Sweden, Japan, and China.

Core competencies
- Hot cell operations
- Maintenance in hazardous environments
- Remote handling in radiation zones
- Infrastructure dismantling in confined spaces
- Custom engineering solutions
- Radiation-hardened equipment
- Modular robotic platforms
- Tool adaptability

Industry sectors
- Nuclear
- Construction
- Mining
- Tunneling
- Metal Processing
- Cement
- Security & Rescue

References
- Vattenfall
- Uniper
- Fagerström Industrikonsult

Company size
Medium



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BUMAX

Company profile
BUMAX is a world-leading specialist manufacturer of high-quality stainless-steel fasteners through hot and cold forming and machining. Our fasteners are manufactured at our plant in Åshammar, in the heart of Sweden's steel district.

Core competencies
We provide customers with the optimal fastener and material for their specific application, including unique fasteners not found anywhere else on the market. This may involve drawing on our extensive fastener expertise and materials science knowledge to develop innovative fastener solutions in collaboration with our customers.

Industry sectors
- Stainless steel
- Fastener manufacturing

References
- CERN
- MAX IV
- ESS
- Max Planck Institute

Company size
Medium



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C3C ENGINEERING

Company profile
Precast concrete solutions as design-build contracts or material deliveries for technical buildings, containment structures, safety, defence and/or radiation shielding.

In-situ concrete solutions as design-build contracts or material deliveries for technical buildings, containment structures, safety, defence and/or radiation shielding.

The above solutions are offered in various engineered combinations and can also be combined with steel structures where suitable.

Core competencies
- Design
- Manufacture
- Precast concrete
- In-situ concrete
- Circular economy
- Radiation shielding
- Building contracts
- Installation
- Containment structures

Industry sectors
- Recycling
- Water treatment
- Energy
- Mining
- Steel
- Forest
- Pulp & Paper
- Harbours
- Nuclear
- Agriculture

References
European Spallation Source ESS ERIC: Design-Build Contract, NMX Cave 2019

Company size
Small



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CALORMET

Company profile
CalorMet is a leading supplier of specialised equipment and machines for industrial heat treatment, serving companies throughout the Nordic and Baltic region.

CalorMet has extensive experience of furnace installation, offering innovative and customised solutions to meet specific needs and requirements. The company also carries out service, maintenance, renovation, and upgrades of furnaces, and can supply spare parts for heat treatment equipment.

Core competencies
- Heat treatment of metal
- Laboratory furnaces
- Industrial furnaces
- Electrical heating elements
- Gas burner systems
- Heat resistant steel details
- Spare parts for furnaces
- Furnace service
- Furnace modernisation

Industry sectors
- Science
- Automotive
- Steel secondary
- Manufacturing (steel)
- Manufacturing (aluminium)
- Engineering
- Heat

References
- Volvo
- Scania
- SKF
- Epiroc
- Ljunghall
- AGES

Company size
Small



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CAMFIL

Company profile

Camfil is a world-leading supplier of clean air solutions. We manufacture and sell high performance air filters for removal of both particles and gases. We are already a leading supplier of filter solutions to Industry sectors including nuclear, microelectronics, pharma, medical, optics, and BSL-sites. With the right contacts we believe we can find new undiscovered opportunities to be a solution provider to the Big Science market.

References

- Electronics & optics
- Nuclear applications
- Energy & power generation
- Any need for clean rooms or extremely clean air
- Molecular contamination of air
- Any need for air contamination control for reasons of health environment, or pure process stability.

Core competencies

- HEPA filtration
- Clean room
- Air purification
- Gas filtration
- Molecular filtration
- Particle removal
- Sterilisation
- Containment
- Air pollution control
- HVAC
- High temperature applications

Industry sectors

- Electronics & optics
- Energy & power systems
- Material processing
- Life science
- Food & beverage
- Commercial buildings
- Air contamination control
- Logistics
- Health care

Company size

Large



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CARLSSON & MÖLLER

Company profile

AB Carlsson & Möller is a leading knowledge-based company in Sweden within engineering plastic solutions. We offer expertise in manufacturing, assembly, and technical solutions to prioritised business areas.

Core competencies

Based in Helsingborg, Sweden we specialise in engineering plastics, thermosets and composites. Our team is committed to providing expert advice, manufacturing excellence, and unparalleled know-how to deliver the best solutions for our clients.

Industry sectors

- Research and science
- Defence
- Space and aviation
- Medtech
- Foodtech
- Our expertise extends to providing solutions for large and small science projects in areas such as nuclear, electrical and thermal insulation for accelerators.

References

- CERN
- ESS
- MAX IV
- Fagerström Industrikonsult AB

Company size

Medium





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CARPENTER POWDER PRODUCTS

Company profile
Carpenter Powder Products is a leading supplier of gas-atomised metal powder and associated products. Applications include additive manufacturing, welding & spraying, HIP-near net shape, metal injection moulding, tool steels, and brazing.

Carpenter Powder Products is fully owned by Carpenter Technologies Corporation, an American company operating in the field of specialty metals for niche applications.

Core competencies
- Specialty metals
- Gas-atomised metal powder
- Hot isostatic pressing
- Near net shape
- Metal injection moulding
- MIM, NNS, HIP
- Tool steel
- Additive manufacturing
- 3D-printing

Industry sectors
- Energy
- Nuclear
- Automotive
- Transportation
- Consumer
- Industrial
- Aerospace
- Medical

References
- CERN
- ITER
- Sub-sea applications
- Oil & gas applications

Company size
Small



Courtesy of Metso



CARPENTER
Powder Products

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CESIUM

Company profile
Cesium is an innovation company specializing in developing, manufacturing and marketing high-technological security systems and storage of explosive goods, weapons and theft-attractive goods, as well as secure buildings for data centres.

Core competencies
- Secure buildings
- Physical security
- Mobile security
- Vaults
- Security doors and gates
- Risk analysis

Industry sectors
- Governmental
- IT
- Defence

References
- Swedish Armed Forces
- Swedish National Police
- Saab AB
- Vattenfall
- LKAB

Company size
Small



CESIUM
CESIUM AB SWEDEN

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COMPOSITE SERVICE EUROPE

Company profile
Engineering and manufacturing company. Long experience of design and calculation in carbon fiber and other composite materials. Major business areas are the automotive, aerospace and power sectors. Close cooperation with Luleå University of Technology and RISE, and a member of SWECIC, the Swedish Composite Innovation Cluster.

Core competencies
- Own patent with unique design technology
- Strength and stiffness calculations
- Strong composite process knowledge
- Expertise in fish migration solutions

Industry sectors
- Automotive
- Aerospace
- Power

References
- AUDI, SEAT, VOLVO
- SAAB, GKN, MTC
- ABB

Company size
Small



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COORSTEK SWEDEN

Company profile
High-tech ceramic materials. Specialised in silicon nitride and boron carbide. Prototype and mass production capabilities. Densification techniques:
- Hot isostatic pressing
- Sinter/Hot isostatic pressing
- Gas pressure sintering

Core competencies
- Ceramic materials
- Silicon nitride
- Boron carbide
- Hot isostatic pressing
- Sinter/Hot isostatic pressing
- Gas pressure sintering

Industry sectors
- Energy
- Automotive
- Aerospace
- Machine building
- Chemical industry

References
- HIPed billets extruded for super conductor wire for CERN.
- Silicon nitride rolling elements for flight-critical aerospace applications.

Company size
Medium



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COROMATIC

Company profile
We guarantee reliable data communication and power supply 24/7 for mission-critical facilities by developing, servicing, and operating robust physical infrastructure for data centers and critical power solutions. Our work helps build a resilient and sustainable society.

Coromatic has 800 employees across the Nordics, with 20 offices and 2 factories. We are proud to be part of the E.ON Group.

Core competencies
- End-to-end offering for the mission critical facilities (Turnkey)
- Data Centers
  Design and construction, power infrastructure, cooling and climate infrastructure, physical interior solutions, automation (BMS), network/ cabling, energy and heat reuse, physical security, and fire extinguishing systems.
- Critical Power Solutions
  UPS/RUPS – uninterruptable power supply
- GENSET/DRUPS – back up power
  Battery energy storage and hybrid systems, stationary and mobile solutions, communication nodes, controls and automation (SCADA), and physical security.
- Services 24/7, reventive and corrective Maintenance, on-call 24/7 service across the Nordics, electrical installations, proactive improvements, risk management, analysis and expert advice, and operations and life-cycle management.
- Advisory
  Strategic advice for critical facilities, sustainability, organisational optimisation and data centre strategy, performance evaluation, benchmarking, SLA and energy optimisation, and risk management analysis and expert advice, including RSA, BIA, BCP, DR, compliance and electrical safety.

Industry sectors
- Colocation
- Government & public sector
- Industry
- Healthcare providers
- Energy
- Transport & infrastructure
- Telecom, media & city network
- Bank & finance
- Hyperscale, cloud providers HPC
- Retail

References
https://coromatic.com/download/case-studies

Company size
Large



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CRYSTOPT-X

Company profile
Main activity is the production of diffraction elements and reflective optics used in X-ray and neutron beams. The first diffraction element developed was the double-side-machined Johansson crystal in single crystal silicon (main orientations) up to 300 mm in length, and bendable down to a radius of 500 mm. Other diffraction elements, such as single blocks or channel cut, and many different geometries are also included in this group. With the same functionality, multilayers are another product.

A second range of products are very high precision surface shapes, starting with simple flat, for deflection, ending with ellipsoidal or toroidal for both vertical and horizontal simultaneous focusing. The materials used are mainly silicon, fused silica and zerodur® with a maximum length of 1.2 m, all of which can be coated with materials like gold, rhodium, palladium, and other high-density materials, on request. Surface quality is now down to 3 Å micro-roughness and improving, and the level of surface shape can be down to 0.1 micro-radian of slope error. Expected in May 2019 (work is in progress on a prototype), long effective life time of optical elements for neutron guides will become another product.

Being an R&D oriented facility, CrystOpt-X AB is looking forward to improving and innovating, undertaking challenges in the field of surface shape metrology and the fabrication technologies of new desired optical shapes or functionalities.



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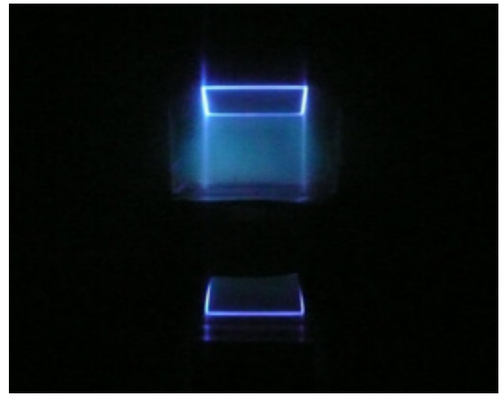
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Core competencies
- Manufacturing very precise surface shapes, super-polishing of shaped surfaces, ion beam figuring, coating and multilayer depositions.
- Surface shape characterisation by means of interferometry and deflectometry is the main expertise needed to manufacture our products.

Industry sectors
Facilities involved in research and characterisation by means of X-ray and neutron beams, including large observatories.

References
Facilities involved in research and characterisation by means of X-ray and neutron beams, including large observatories.

Company size
Small



DIGITAL MECHANICS

Company profile
Digital Mechanics is a leading innovator in smart additive 3D production. As experienced problem solvers we offer customers access to our digital factory for fast 3D printing of complex plastic and metal details, both as prototyping and as parts ready for production. We always strive to build long-term customer relationships to ensure the best possible quality and delivery precision. We have global delivery capacity.

Core competencies
- 3D printing in plastic
- 3D printing in metal
- Silicon tools
- Prototype tools
- Rotary casting
- Lost wax casting
- Sand casting
- Precision casting
- Machining

Industry sectors
- Automotive
- Aerospace
- Medical
- Manufacturing
- Construction
- Engineering
- Energy
- Mining

Company size
Small



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DPX TECHNOLOGIES

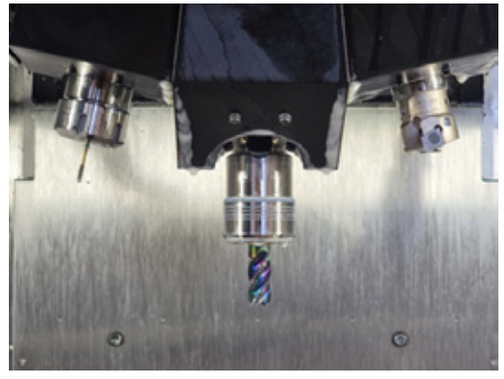
Company profile
DPX Technologies is a Swedish manufacturing company specialising in precision CNC machining, plastic injection moulding, additive manufacturing and mechanical assembly. From its headquarters in Stockholm, the company supports customers throughout the entire manufacturing process, from prototype development to low- and medium-volume production. Combining advanced production technologies with flexible project management, DPX Technologies delivers high-precision components in metals and engineering plastics for applications where quality, accuracy and reliability are critical. The company serves customers in research infrastructure, advanced engineering and other high-technology industries, providing responsive technical support, short lead times and complete manufacturing documentation.

Core competencies
- Precision CNC machining (3-, 4- and 5-axis)
- Plastic injection moulding
- Additive manufacturing (3D printing)
- Prototype development
- Low- and medium-volume production
- Mechanical assembly
- Laser marking
- Precision measurement and inspection
- Quality control and documentation
- Material certificates (EN 10204 3.1)
- Measurement reports
- Machining of aluminium and stainless steel
- Manufacturing of engineering plastic components
- Supply chain management
- Rapid manufacturing
- Technical support

Industry sectors
- Research infrastructure and Big Science
- Particle accelerators
- Scientific instruments
- Industrial automation
- Medical technology
- Semiconductor equipment

References
DPX Technologies supplies precision-machined metal and plastic components to customers in industrial automation, electronics, medical technology and advanced manufacturing. The company has extensive experience manufacturing complex components with tight tolerances, demanding quality requirements and full traceability. By combining Swedish engineering and project management with an established international manufacturing network, DPX Technologies offers flexible and cost-efficient production from prototypes to serial manufacturing.

Company size
Small



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ECLIPSE OPTICS

Company profile
Eclipse is a Scandinavian Optics Design House. We offer our customers expertise in optics and photonics. Typical applications are optics design, construction of optical instruments, and prototyping of products and systems where optics and photonics are a key component. We have also extensive expertise of components like lasers, LEDs, lenses, optical filters, sensors, etc.

Core competencies
- Optics design and tolerancing
- Optics construction
- Concept development
- Camera technology
- Image quality
- Tests and verification of optical systems
- Technical due diligence

Industry sectors
- Medical
- Technology
- Automotive
- Consumer electronics
- Safety and surveillance
- Green technology
- Space

References
- Leica Geosystems (Airborne Hydrography)
- Azelio
- Polaroid
- Veoneer
- FLIR
- Trimble

Company size
Small



ECLIPSE

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EITECH ELECTRO

Company profile
We are a team of specialists working with electrical installation and engineering, creating innovative solutions to our customers' challenges. Our team consists of nearly 1200 employees, from Gällivare in the north to Malmö in the south. We supply everything from complete projects and comprehensive solutions to ongoing services in the construction sector and the public sector, as well as within the industrial, infrastructure, and energy sectors.

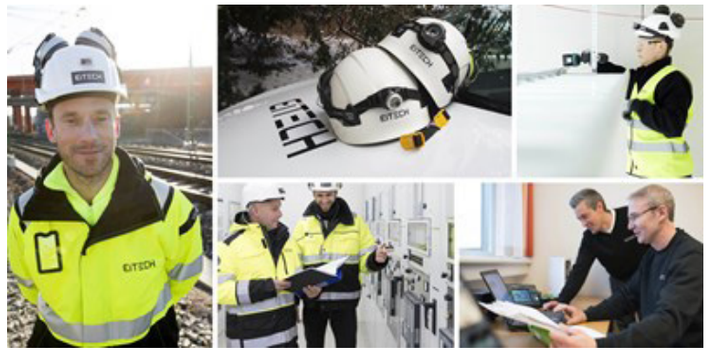
Since January 2018, Eitech has been a part of VINCI Energies, a technology group offering a wide range of services in industry, service and ICT with around 70,000 employees worldwide.

Core competencies
- Project management
- Turnkey projects
- Engineering
- Installation
- Service

Industry sectors
- Mining
- Steel
- Pulp & paper
- Oil & gas
- Safety
- Infrastructure
- Building
- Energy
- Data centers
- Service

References
- LKAB
- Boliden
- SSAB
- SCA
- Billerud
- Facebook
- Trafikverket
- Vattenfall
- EON
- Svenska kraftnät
- Regionen

Company size
Large



EITECH

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EKANALYS (EKA)

Company profile
Natural refrigeration, cooling, heating and energy handling solutions for facilities, as well as experimental equipment. We have relevant experience from Big Science projects in North America, and participated in large commercial projects in Asia. As neutral consultants we have a broad international network of suppliers, manufacturers and service providers.

Core competencies
- Refrigeration solutions
- Natural working fluids
- Energy recovery
- Combined Cooling and Heating, CCH
- Advanced cooling system design
- F-gas and PFAS-free cooling systems

Industry sectors
- Refrigeration/cooling
- Heating
- Air handling
- Dehumidification
- Energy conservation
- Advanced heat recovery solutions
- Precision cooling for component development/ testing

References
- GMTO (Giant Magellan Telescope) - development of mirror thermal systems
- NSSO (National Speed Skating Oval) - design of large refrigeration system for speed skating at the 2022 Winter Olympics in Beijing.
- KTH (Royal Institute of Technology) - design for procurement of laboratory refrigeration systems for thermal testing
- Backer - product development of heat pump for drying purposes
- Mycronic - combined cooling and heating system for industrial process of electronics production
- NERIS - production of guidelines for moisture handling in ice rinks, based on field measurements

Company size
Small



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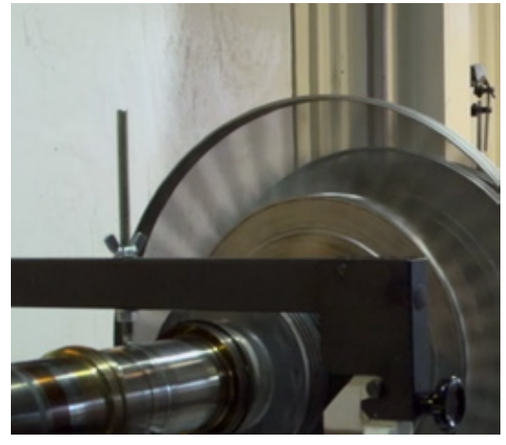
ELECTRIC DRIVE TECHNOLOGY EDT

Company profile
EDT is a complete supplier of high-performance electric motors, generators, control systems, and quality components for the process industry, engineering industry, and energy sector worldwide. With over 30 years of experience, we specialize in delivering robust and efficient solutions tailored to demanding industrial applications. Our expertise extends beyond products—we provide full-service support, from selection and installation to calibration and startup, ensuring seamless integration into your operations. Whether you need a single motor, comprehensive system support, or specialized services in measurement and testing, we offer flexible solutions to match your needs.

Core competencies
High power electrical engineering

Industry sectors
- High volt DC cables
- Electromechanical industry
- Rotating motor generators and transformers

References
- NKT High Voltage cables
- Korean Electrotechnical research institute and CESI in Milano
- Vattenfall
- Älvkarleby
- Hitachi Energy Sweden
- Norway
- ABB Västerås
- RISE



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ELECTRO HEAT SWEDEN

Company profile
Electro Heat Sweden AB is an innovative company based in Gothenburg with over 40 years experience of supplying heat treatment solutions to companies all over the world. As well as standard heating products, we are also equipped to provide industry and research facilities with innovative technical solutions.

Heat treatment of metals and alloys is a controlled process that extends the working life of components, for example by increasing strength, temperature resistance, ductility, and surface hardness.

We specialise in manufacturing and installing both standard and customised heating solutions and industrial ovens / furnaces.

Core competencies
- Standard industrial furnaces and ovens
- Heat treatment equipment
- Customised industrial ovens
- Customised industrial furnaces
- Annealing, tempering, hardening, drying
- De-gassing

Industry sectors
- Aerospace
- Aircraft
- Automotive
- Marine
- Energy
- Military
- Pharmaceutical

References
- CERN
- Industrial customers all over the world

Company size
Small



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ELAJO

Company profile
Since the dawn of the nuclear era in Sweden, Elajo has been the company that builds, modifies, upgrades and decommissions. We are deeply involved with ESS, and have a framework agreement for mechanical installations. We deliver projects from 3D-scanning, engineering, and manufacturing, to installations.

Core competencies
- Installations
- Manufacturing
- Piping
- EN 1090-3

Industry sectors
- Oil
- Pulp & Paper
- Nuclear
- Research Infrastructure

References
- ESS installations:
- MUTS (Mock Up and Test Stands)
- Drain tanks system
- HVAC for target building
- Primary cooling system
- TSS systems

Company size
Medium



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ELITKOMPOSIT

Company profile
Elitkomposit AB is a producer of goods in advanced composite materials. We develop material combinations to suit particular applications and particular requirements. Product sizes range from millimetres to several metres, and series lengths from prototypes to tens of thousands.

Typically, advanced composites are used wherever traditional materials have reached their limit and no longer function well. Composites can be tailored to provide multifunctional behaviour in various combinations, i.e stiffness combined with radio transparency, structures with integrated sensors, or conductive components with low radiation absorption.

Industry sectors
- Space
- Medical
- Telecom
- Defence
- Aerospace

References
- Ruag Space
- Elekta
- Panthera

Company size
Small

Core competencies
- Advanced composites
- Carbon fibre
- Radio transparency
- Integrated sensors radome



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Process developer
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ENTECH

Company profile
Entech designs and delivers furnaces of different temperatures to customers in numerous countries. Our extensive experience helps us make thorough and impartial analyses of customer requirements. We can present a solution that guarantees our customers a furnace designed to perform the specified tasks - anything from a standard furnace to a custom-designed furnace.
Proven technology and innovative thinking are combined and backed up by strong cooperation with leading suppliers of components. Entech furnaces are known to be built with carefully chosen materials and with a high degree of precision in manufacturing.

Core competencies
- Tube furnaces
- Chamber furnaces
- Elevator furnaces
- Thermal cycling furnaces
- Fire testing furnaces
- Horizontal split tube furnaces
- Vertical split tube furnaces
- Continuous sintering furnaces with rotary hearth
- Special furnaces

Industry sectors
- Universities of technology in Europe
- Research institutes in Europe

References
- VTT, Technical Research Centre of Finland
- Delft University of Technology, Netherlands
- DTU/Risö, Technical University of Denmark
- KTH Royal Institute of Technology, Sweden

Company size
Small



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EON

Company profile
E.ON in Sweden provides smart energy infrastructure and innovative solutions. Our business areas are Energy Networks, Energy Infrastructure Solutions, and Energy Retail. We are a part of the international E.ON SE group that operates in 17 countries, with head office in Essen, Germany. In Sweden we are 2 100 employees and our Nordic head office is situated in Malmö.

Core competencies
We believe that the buildings of the future will be powered by integrated, efficient, and local energy solutions, featuring energy sharing in smart grids and minimal emissions. With our solutions, we help to tailor an integrated energy solution for our customers based on their needs and the unique characteristics of the buildings. An example of that is our innovation ectogrid™.

E.ON ectogrid™ is a heating and cooling solution for city districts and industries that reduces the supplied energy by up to 75%. Inspired by the nature of ectothermic animals, the energy solution adapts to the conditions of the local environment and makes the most of the energy available in its surroundings. New energy is only added into the system when all available energy has been fully shared between buildings or harnessed from available energy sources in the vicinity.

Industry sectors
- Automotive
- Chemicals
- Datacenter & telecom
- Healthcare
- Food and beverage
- Manufacturing
- Pulp & paper
- Retail
- Warehouse & logistics
- Critical facilities

References
- ESS (European Spallation Source), Lund
- Medicon Village, Lund
- Mind, Milano

Company size
Large



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ERIK A. OLSSONS MEKANISKA VERKSTAD

Company profile
Erik A. Olssons Mekaniska Verkstad AB is a specialised subcontractor focusing on welding and machining of large scale components. The company undertakes projects ranging from prototypes to short production series and offers complete solutions including painting and assembly when required. With particular expertise in milling long and large structures, Erik A. Olssons Mekaniska Verkstad AB supports customers with robust, high precision manufacturing for technically demanding applications.

Core competencies
- Welding of large structures
- Machining of large components
- Milling of long structures
- Prototypes
- Short series production
- Assembly
- Surface treatment
- High precision manufacturing
- Big Science subcontracting.

Industry sectors
Subcontractor of welded and machined structures for various international companies and research facilities.

References
- GE Healthcare
- MAX IV Laboratory
- Swiss Light Source
- DESY
- Diamond Light Source

Company size
Small



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EXAMEC

Company profile
Examec specialises in design and production of high-precision components and advanced machine engineering in smaller series. The company builds machines and modules that meet the most stringent requirements in terms of reliability.

Company processes are fully integrated, from raw materials and design, through automation and final testing, to production and delivery of operational instruments and machines. Most of the work is done in-house.

Examec has a highly skilled team with a high level of ambition and service, and experienced project managers and designers control the process from start to delivery. Machinery and equipment are all state-of-the-art, and programs such as Solid Works, Creo Elements, Auto Cad, and Vector Works are used for design.

Core competencies
- Turnkey responsibility, with project management
- Lean Manufacturing principles
- Expertise in cutting, welding, machine tooling, surface treatment, metrology, electrics, automation, assembly, and final testing
- Design and building of complete instruments/ machines
- Machine tooling of larger components, assembly, and testing

Industry sectors
- Big Science
- Research
- Medical technology
- Packaging
- Manufacturing

References
- Elekta
- CERN
- ESS
- MAX IV
- Cox Analytical Systems
- Scanditronix Magnet
- TetraPak

Company size
Small



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EXIR BROADCASTING

Company profile
Exir Broadcasting serves the coaxial and RF industry in the broadcasting and science sectors, including Big Science. The company develops and manufactures innovative, dependable and long-lasting passive RF components with a comprehensive 10-year guarantee.

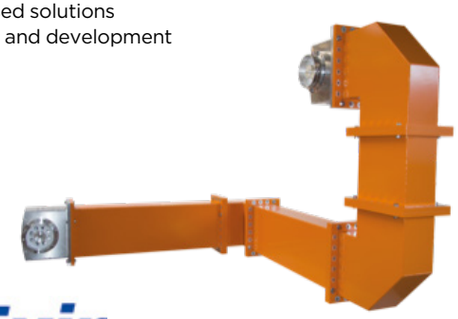
At Exir Broadcasting we specialise in customised solutions to meet the customer's specific needs and product requirements. We develop products that simplify installation, improve performance, and enhance overall system reliability. We have a proven track record in designing complex system solutions, which we have installed around the world, often integrated with existing equipment.

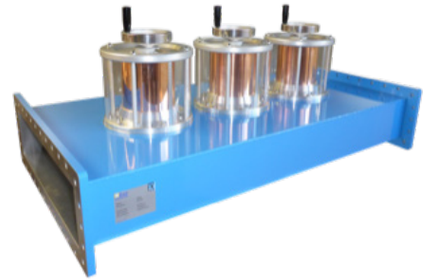
Core competencies
- Design and production of passive RF components
- On-site support
- Transmission lines and wave guides
- Customised solutions
- Research and development

Industry sectors
- Broadcasting
- Science

References
- Transmission lines to MaxLab, Solaris, ESS, and the FREIA Laboratory, including installation support and supervision (Big Science).
- Custom-designed passive components, such as adapters and directional couplers, for CERN, MaxLab, Solaris, ESS, and the FREIA Laboratory (Big Science).
- Delivery of other components to various Big Science facilities around the world.

Company size
Small





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FAGERSTRÖM INDUSTRIKONSULT

Company profile

Founded in 1994, Fagerström Industrikonsult is a Swedish engineering and technology company specialising in advanced mechanical engineering, project management, remote handling and turnkey technical solutions. The company provides engineering and technical services as well as complete systems and equipment, from concept development and design through manufacturing, installation and commissioning.

Fagerström has extensive experience from the Big Science sector, working with major international research organisations including ESS, CERN, ITER and ESO. The company has delivered solutions for demanding applications involving remote handling, mechanical design, instrumentation, radioactive and activated materials, technical analysis and complex system integration.

Fagerström combines engineering expertise with practical project execution and a flexible partner network, enabling the delivery of customised solutions for technically demanding and highly regulated environments.

Core Competencies

- Advanced mechanical engineering and design
- Project management and technical leadership
- Remote handling systems and equipment
- Turnkey technical solutions
- FEA and CFD analysis
- Instrumentation and measurement systems
- Handling of radioactive and activated materials
- System integration and interface management
- Manufacturing, installation and commissioning
- Technical documentation and quality assurance (ISO 9001, ISO 14001)

Industry sectors

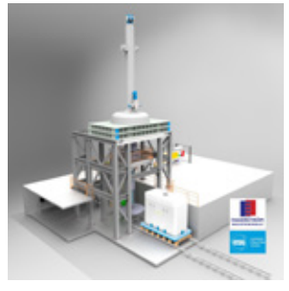
- Big Science and research infrastructures
- Fusion energy
- Nuclear technology
- Astronomy
- Advanced industry

References

- CERN – Turnkey delivery of equipment for handling heavy in-beam components.
- ITER – Technical leadership and project management within fusion energy projects. Mechanical engineering, FEA and CFD analyses. Design and development of instrumentation systems for neutron measurements. Interface management, documentation and quality assurance in nuclear-classified environments.
- ESO – European Southern ObservatoryTurnkey delivery of a Washing and Stripping Plant for the ELT programme.
- ESS – European Spallation SourceHot Cell facilities for handling radioactive waste and activated components. Proton Beam Window development and engineering. Chopper systems, including mechanical design and installation tooling. Casks and associated handling equipment for radioactive materials. Transport equipment for activated and contaminated components. More than 200 engineering assignments within ESS.

Company size

Small



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FINELINE NORDIC

Company profile

Fineline has been supplying printed circuit boards (PCB) since 2006. We also offer support and access to technical expertise from world class suppliers. We help our customers with decisions on materials, PCB design, stack up and DFM. We can supply both rapid prototypes and high-volume orders. Our warehouse is in Stockholm, and our global freight agreements facilitate logistics. For all your PCB needs, we are your partner.

Core competencies

- Printed circuit boards, from prototypes to high volume
- Multilayer boards
- Heavy copper
- Impedance control
- HDI incl blind and microvias
- Aluminium base
- Large antennas
- RF-material
- Flex and Flexrigid

Industry sectors

- Automotive
- Medical
- Telecom
- Military
- Commercial

References

- ABB
- Mydata
- Saab
- Volvo
- Leab
- Inission

Company size

Small



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FINEPART SWEDEN

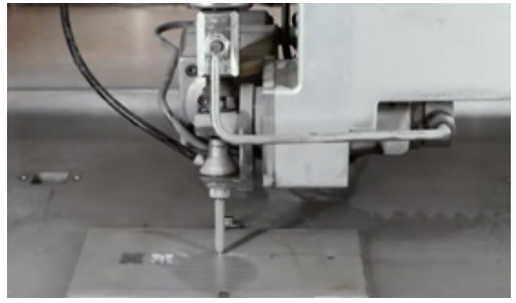
Company profile
Finepart Sweden AB provides its customers with state-of-the-art micro abrasive waterjet solutions for precise machining of advanced geometries. We have experience of non-thermal cutting of virtually all materials including superalloys, engineering ceramics (green or sintered state), composite- and sandwich materials. Cutting parts at tolerances down to +/- 10Qm depending on size and material. We supply both cutting systems and advanced cutting services. Our product portfolio includes machine systems with 3-, 4- and 5-axis configurations.

Core competencies
Precision cutting of advanced materials, including high-strength alloys, shape memory alloys, amorphous metals, ceramics, and CFRP (carbon fibre reinforced polymers)
Design and development of machine tools and automation solutions
More than 35 years of experience in waterjet technology, built on extensive research and development.

Industry sectors
- Aerospace
- Fine mechanics
- Toolmaking
- Food industry
- Medical devices
- Watch industry/luxury
- Greentech

References
- Brogren Industries
- Wasatch
- Hublot
- Dohner AG

Company size
Small



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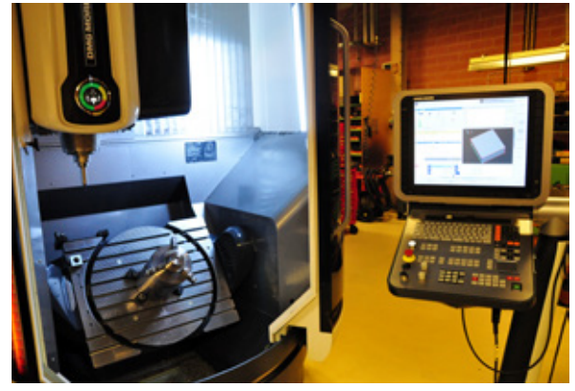
FINVERKO

Company profile
Finverko designs and manufactures mechanical products according to client request or under its own initiative. Single-part manufacturing or small series of products in various materials, e.g. tooling steel, stainless steel, aluminium, copper, and plastic. Finverko performs experiments and manufactures models and prototypes, with complete confidentiality guaranteed. We also manufacture advanced spare parts to all commonly used machines. Finverko is certified for quality (ISO 9001) and environment (ISO 14001).

Core competencies
- Mechanical design
- 5-axis milling
- 3-axis milling
- Turning
- Sparking
- Tools
- Moulds
- Fixtures
- Prototype
- Wire machining
- EDM
- Advanced spare parts
- Workshop
- Quality certification ISO 9001
- Environment certification ISO 14001

References
- ESS: Products for vacuum equipment
- Höganäs: Powder steel prototypes and test equipment
- Trelleborg: Moulds for rubber parts
- Airec: Tools for heat changes
- Solvoltaics: Products for reactors for manufacturing of nano particles.
- Ripasso: Parts for Sterling motor
- Lindab: Form and punch tools

Company size
Small



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FREEMELT

Company profile

Freemelt AB is a Swedish technology company specialising in metal additive manufacturing, materials development and the production of components in tungsten and other refractory metals. The company combines advanced metal 3D printing technology with in-house manufacturing capabilities to support demanding applications in Big Science and high-tech industries.

Freemelt develops and manufactures metal 3D printers for both materials research and industrial production. Freemelt® ONE is dedicated to materials research and development, while eMELT® is an industrial metal 3D printing platform targeting demanding applications in tungsten, titanium and copper. In parallel, Freemelt manufactures advanced components in tungsten and other refractory metals for high-end customers, with a particular focus on applications within Big Science.

Core competencies

- Manufacturing of components in tungsten and other refractory metals
- Metal 3D printing and additive manufacturing
- Materials development
- Process development
- Tungsten, titanium and copper

Industry sectors

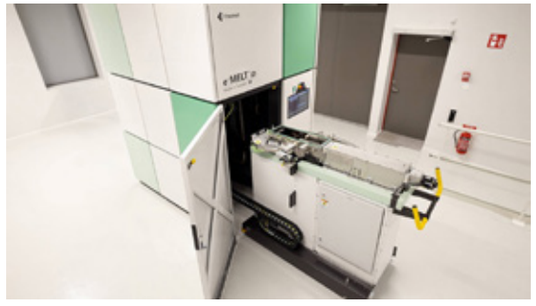
- Energy, including fusion
- Defence
- Medical technology
- Big Science and research infrastructures

References

Freemelt works with Fusion for Energy (F4E) and UKAEA on the development of tungsten materials and additive manufacturing solutions for fusion applications.

Company size

Small



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FUREHO

Company profile

Fureho AB, a deep-tech advanced materials start-up incubated at the European Space Agency's Business Incubation Centre in Sweden, specialises in the development and commercialisation of Noobed 3D pre-form reinforcements. These reinforcements are produced using Fureho's advanced Noobing Technology Platform, a proprietary technology that enables the creation of engineered near net shape non-crimp 3D pre-form reinforcements from various continuous fibres. This includes not only PAN carbon fibres but also uniquely brittle fibres such as pitch carbon (e.g., DIALEAD), silicon carbide (e.g., Hi-Nicalon Type S), and alumina (e.g., Nextel), which cannot be processed into 3D reinforcements using traditional methods.

The near net shape Noobed 3D Pre-Form reinforcements feature continuous fibres oriented in X-Y-Z directions. Noobed 3D Pre-Form reinforced composite materials are highly resistant to delamination, and exhibit high in-plane and out-of-plane performance compared to state-of-the-art 2D laminated composite materials. Mechanically, Noobed 3D Pre-Form reinforced composites demonstrate high specific stiffness and strength in-plane and out-of-plane, making them highly applicable for complex load scenarios. They also exhibit a much more ductile failure response, with a high fracture toughness, compared to traditional laminated composites, making them more resistant to impact.

In terms of thermal conductivity, the material enables tailored solutions for efficient heat dissipation, including in thickness direction. Strategically incorporating pitch carbon in one, two, or all X-Y-Z directions makes engineered thermal management possible. These attributes render Noobed 3D Pre-Forms highly valuable for a wide range of applications, including polymer matrix composites (PMCs), ceramic matrix composites (CMCs), and ultra-high temperature CMCs (UHTCMCs).

Core competencies

- Composite materials
- 3D reinforcements
- Near-net shape 3D pre-forms
- Delamination-resistant polymer matrix composites, ceramic matrix composites, ultra-high temperature ceramic matrix composites
- Thermal conductivity
- Thermal protection
- PAN carbon fibres, pitch carbon fibres, silicon carbide, aluminum oxide fibres

Industry sectors

- Aerospace
- Aeronautics
- Engineering
- Academia
- Medical

Company size

Small



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GIBON

Company profile
We help enterprise customers by providing expert design for infrastructure, solutions with hardware for automation systems, and client needs. We also offer deep license expertise. Simply put, we're a trusted advisor.

Gibon is a nationwide IT partner in Sweden, acting as an external IT department for small and medium-sized businesses, as well as larger industrial clients. With 17 locations across the country, Gibon combines local presence with national expertise.

Core competencies
- Technical skills
- Sales skills
- Advisory in market
- Designing
- Contact with vendors

Industry sectors
- IoT
- IT
- OT
- Networking
- Security (HW/SW, IoT, IT, OT)
- Industrial
- Energy

Company size
Small



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GKN AEROSPACE SWEDEN

Company profile
At its Trollhattan facility, GKN Aerospace develops and manufactures components for aircraft engines and space rockets. We also offer engine maintenance services.

We have specialised in around ten highly advanced engine components for civil and military aircraft. This specialisation has been successful, and our components are found today in over 90% of all new large passenger aircraft all over the world.

We have been involved in the European space collaboration since the 1970s, and have developed advanced welding technologies used in the nozzles of the Ariane 5 rocket.

We have a testing and laboratory facility, and an extensive network of suppliers and specialised GKN companies.

Core competencies
- Lightweight design and manufacturing to reduce engine weight
- Long experience of working with titanium alloys, superalloys, and composites
- Advanced computational capacity
- Mechanical computation and fluid dynamics, such as aerodynamics and noise
- Advanced manufacturing, for example welding of high-temperature materials
- Maintenance, assessment, and monitoring services

Industry sectors
- Aerospace
- Aero engines and aero structures
- Commercial
- Military
- Space

References
- Demonstrator aero engine
- Hardware within the European Programme
- Clean Sky, e.g. Open Rotor

Company size
Large



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GOALART

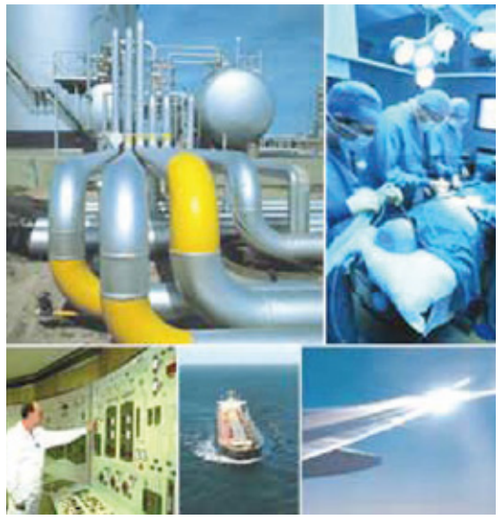
Company profile
GoalArt provides software systems that help operators and service technicians understand fault situations and handle these quickly and correctly. This increases both productivity and safety, and speeds up fault diagnosis and repair. We drastically reduce the number of alarms in a control system, through alarm cleanup, state-based alarm priority, and root cause analysis.

Core competencies
- Alarm management
- Artificial intelligence
- Availability
- Control systems
- Fault diagnosis
- Reliability
- Safety

Industry sectors
- Airport ground systems
- Aviation and aircraft
- Blood components
- Dialysis, ventilators, and heart-lung machines
- Cars, buses, trucks, and vehicles
- Power grids
- Internet communication
- Nuclear power plants
- Power plants
- Chemical and petrochemical
- Pulp and paper
- Food processing
- Metallurgy
- Mining
- Steel

References
- Swedish National Grid (Svenska kraftnät)
- Croatian National Grid (HOPS)
- ESS

Company size
Small



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GO VIRTUAL NORDIC

Company profile
GoVirtual designs and integrates supercomputers streamlined to accelerate your virtual development.

Go Virtual Nordic AB was founded in 2002 with the vision to support customers with simulation technology to reduce development costs or create a platform for the research community. Go Virtual Nordic AB offer customised supercomputer solutions based on technology from HPE, Huawei or Gigabyte. Our HPC solutions are chilled with air cooling or liquid cooling. The interconnect between compute nodes is based on Mellanox technology.

We offer different kinds of cluster management utilities, from open source products to licensed technology. We also offer NICE Desktop Cloud Visualization (DCV), which is a high-performance remote 3D technology giving technical computing users seamless remote access to 2D/3D interactive VDI desktops on-site and in the cloud. Application areas include CAE/CAD, oil & gas, life sciences, and research.

Core competencies
- HPC
- Supercomputers
- CPU
- GPU
- Network
- Infiniband
- Linux
- Cluster management
- Job scheduler
- Job portal
- File storage
- Object storage
- AI compute

Industry sectors
- Automotive
- Research institutes
- Universities
- Life science

References
- Volvo AB
- Volvo Cars
- NSC
- DTU Denmark
- CERN

Company size
Small



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GRAPHENSIC

Company profile

Graphensic, founded in 2011, was the first European supplier of epitaxial graphene on silicon carbide. The founding partner, Rositsa Yakimova, and her colleagues in the research group at Linköping University has continued to develop the manufacturing process and, together, have a total of more 50 years of experience specifically related to epitaxial graphene.

The unique properties of graphene are down to its crystal structure. Graphene on silicon carbide has potential as a viable candidate for electronic applications and sensors. Examples of products that Graphensic has been involved in developing include:

- State-of-the-art graphene-based hall effect sensors (magnetic field sensors) for use in extreme environments, such as very low (mK) or very high (>200 degrees C) temperatures https://research.chalmers.se/publication/517744/file/517744_Fulltext.pdf
- Highly efficient graphene-based UV detectors: https://research.chalmers.se/publication/530548/file/530548_Fulltext.pdf

Core competencies

- 2D material growth on SiC substrates
- Micro/nano-fabrication of electronic devices

Industry sectors

Semiconducting materials and devices

References

NPL and RISE are partners of Graphensic, using state-of-the-art graphene-based devices for metrology standards.

Company size

Small



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GREPIT

Company profile

Grepit specialises in high-tech design of embedded systems. Founded in 2014 as a spin-off from LTU, and is rapidly expanding, currently 20 employees. We specialise in R & D projects, and develop systems for automotive applications, industrial measurement systems, IoT, and advanced high speed sensors. Experienced in FPGA development for signal processing applications (certified Xilinx member).

In-house lab with capabilities for prototype manufacturing of electronics, EMI/RF measurement/certification, high-speed analog measurements.

Core competencies

- Embedded systems
- FPGA
- High-speed sensors
- High-speed analog measurements
- IoT devices
- Rust
- Vacuum & cryogenic systems

Industry sectors

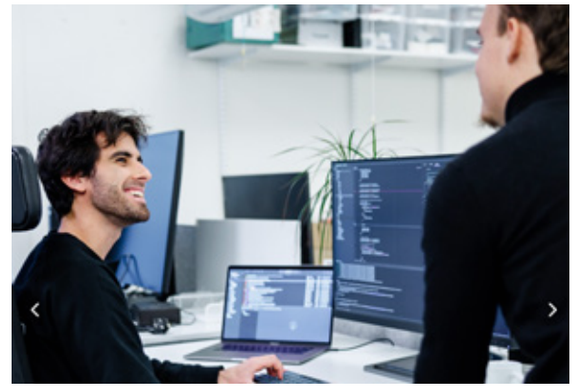
- Industrial measurement systems
- Mineral surveying
- Embedded systems
- Automotive

References

- Mikael Bergqvist, PhD, Orexplore AB
- Jonny Johansson, PhD, Luleå University of Technology
- Daniel Ask, Prof, FracSinus AB

Company size

Small



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HABIA CABLE

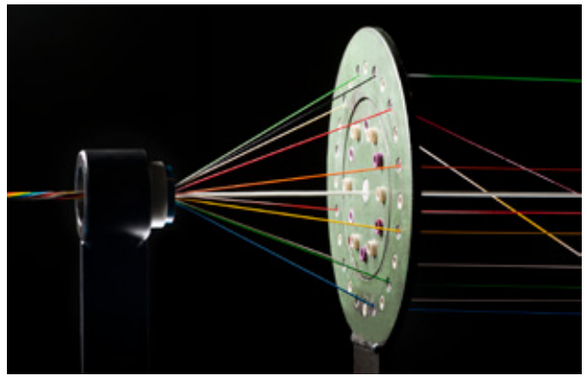
Company profile
Habia specialises in customised connectivity solutions for the most challenging applications. With deep roots in Germany and Scandinavia and a global presence, the company delivers cable and interconnection solutions to a broad range of industry segments. Today, the company employs close to 1000 people in factories in Sweden, Germany, Poland, and China, has customers in 60 countries, and has an annual turnover of EUR 200 million.

Core competencies
- Custom design cables and harnesses
- Cables for harsh environments
- High-temperature cables
- 35 years' experience of safety-classified cables

Industry sectors
- Defence & aerospace
- Nuclear power
- Industrial
- Marine
- Telecom
- Automotive
- Medical
- Wind energy
- Robotics

References
- CERN
- RISE

Company size
Large



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HAGEMA

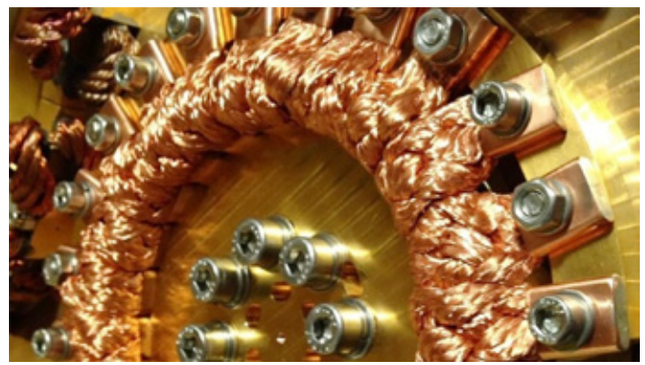
Company profile
Hagema is a contract manufacturing company with a focus on CNC machining for high-tech customers. We can manufacture prototypes and small series.

Core competencies
High-precision machining in 3- and 5-axis milling machines in various materials, such as aluminium, copper, brass, titanium, stainless steel, and plastics. For extreme precision we also have a 5-axis ultraprecision milling machine in a temperature-stable environment with tolerances down to +/- 0.5 Qm. Customers for this type of product are often found in the space industry and universities of technology.

Industry sectors
- High-tech
- Space
- Telecom
- Medical
- Research and development labs
- Universities of technology

References
- Parts for ALMA Telescope, Chile
- Parts for various space projects, in both Sweden and Europe.
- Parts for microwave instruments, radiometer systems and GHz products

Company size
Small



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HALMSTADS GUMMIFABRIK

Company profile
HGF is a manufacturer of advanced moulded products in rubber and TPE, often combining different components or sub-assemblies. We specialise in running more complex product development projects together with our customers to find the optimum solution. Examples of such products are three-component membranes for hydrogen electrolysers used for fuelling hydrogen fuel cell trucks, fireproof rubber sealings used in nuclear plants and marine vessels, and silicon cooling plates for intensive care situations in hospitals.

Core competencies
- Rubber
- Polymer development project
- Sealing
- Gasket
- Membrane
- Polymer material
- High-performance rubber

Industry sectors
- Rubber
- Polymer development project
- Sealing gaskets
- Membrane
- Polymer material
- High-performance rubber

References
- NEL
- Hydrogen
- Sandvik
- Volvo Cars
- Braincool
- Eleiko
- Roxtec

Company size
Medium



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HAMEK

Company profile
HAMEK AB is a well-established mechanical workshop specialising in the series production of aluminium and steel components with tight tolerances and high precision. The company is located in Stockholm and currently comprises 20 employees. We work in accordance with ISO/ TS 16949, with control plans and screening processes for many of our components. This ensures optimal production and enables us to maintain high quality in our production.

Core competencies
We distinguish ourselves by delivering consistently high-quality, precision pieces. We have developed an inspection process to control production and that helps us maintain stable quality. We often use computer-based measurement systems, both for measuring and for later analysis. This gives us a strong basis for further quality development of individual articles and their control plans. We apply Statistical Process Control as an active tool. We usually measure our PPK and CPK values against a 12 sigma requirement.

References
Hamek has been a supplier to CERN since 2007

Company size
Small





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HEFTYTEC

Company profile

Heftytec designs and manufactures high-quality micropositioning systems for both industrial and research applications. Our product portfolio covers a wide range of positioners, including hexapods equipped with our proprietary control system and software.

With our state-of-the-art CNC workshop, we specialize in low to medium volume production, combining advanced machinery with highly skilled staff to ensure exceptional quality and cost efficiency. Our in-house production capabilities allow us to customize products to specific customer requirements—without extending lead times or increasing costs.

Core competencies

- Micropositioning stages and systems
- Hexapods
- Ultra High Vacuum
- FEM analyses
- Optical systems
- Collimators and Autocollimators
- PLC automation
- CNC workshop

Industry sectors

- Mechanical design
- PLC and automation systems design
- Motion Systems for component alignment
- Optics production
- CNC manufacturing

References

MAX IV



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HEMI HEATING

Company profile

The company possesses all the necessary knowledge and experience required to achieve the most efficient heating, from simple solutions to meeting our customers' most complex needs. Today, we are a leading actor in the market for UHV bakeout and flexible surface heating systems.

Core competencies

- Bakeout equipment
- Heater tents
- Heater jackets
- Heater tapes
- Temperature controllers
- Cleanroom
- Heating fans
- Semiconductor/FPD/Solar cell
- ALD process industry

Industry sectors

- Automotive
- Particle research (UHV) and laboratory equipment
- High voltage (straightening and relaxation of HV cables, heating of oil barrels)
- ATEX, EX-classed areas
- Gas distribution
- Process industry

References

- CERN
- MAX IV
- ITER
- ESRF
- DESY
- ESS

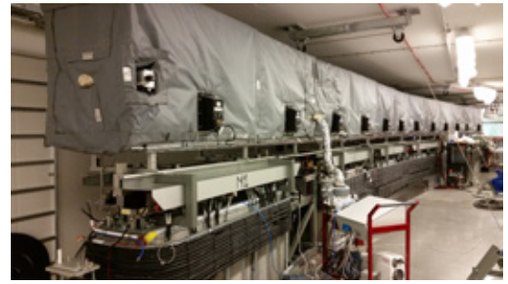
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- NXP
- ST Microelectronics
- AMD
- IMEC
- 3SUN
- Picosun
- HSR
- ABB
- NIST
- Oxford Instruments
- DCA Instruments
- Silex
- Excillum
- Microsoft Quantum Materials
- Astra Zeneca
- Oerlikon
- VOLVO

Company size

Small



Bakeout tent, 23m long at MAX IV



Heater jackets, photoelectron analyser

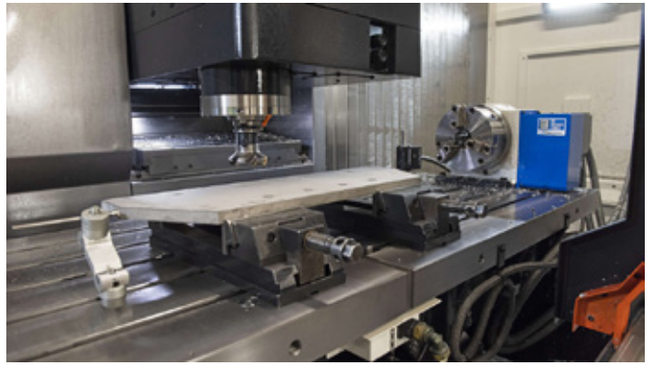
HERMAN ANDERSSONS PLÅT

Company profile
Contract manufacturer specialising in short-series production. Our manufacturing processes include laser cutting, waterjet cutting, turning/milling, welding, laser welding, edge pressing, rolling, blasting, powder coating, and laser engraving. We have extensive experience of working with stainless steel, aluminium, and titanium. We can help you find and develop the best manufacturing method for the product you want.

Industry sectors
- Telecom
- Broadcasting
- Process

Company size
Small

Core competencies
- Laser cutting
- Waterjet cutting
- Turning/milling, welding
- Laser welding
- Edge pressing
- Rolling
- Blasting
- Powder coating
- Laser engraving



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HERRSTRÖMS MEKANISKA

Company profile
Family-owned company in Trelleborg, started 1972. Premises comprises 4500 sq m, fully equipped. Company has 40 employees, and extensive experience of work at the MAX Laboratory since 1980.

Core competencies
Mechanical workshop with turning, milling, and grinding machines, service, assembly, cutting, and construction.

References
- ESS Lund
- SKB (Nuclear fuel handling)
- SAAB Kockums
- Trelleborg Industries
- Tetra Pak

Company size
Small



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HOPSWORKS

Company profile
Hopsworks AB develops an open, Kubernetes-native AI Lakehouse platform that integrates feature engineering, model training, real-time inference and vector search within a single stack. The platform can be deployed on-premises, in air-gapped environments or in any cloud, supporting requirements for data sovereignty and security.

Originating from research at KTH Royal Institute of Technology, Hopsworks builds on more than a decade of experience in translating peer-reviewed systems, including RonDB and HopsFS, into production-ready infrastructure used by research organisations and regulated industries across Europe.

The platform is designed to meet the needs of large-scale scientific environments, offering support for petabyte-scale data management, reproducibility, data lineage and governance, as well as GPU-aware workloads. It supports widely used frameworks such as Python, Spark and Flink, along with emerging AI and large language model applications.

Core competencies
- Platform & Architecture: AI Lakehouse, Feature Store, MLOps Platform, Kubernetes-native, Sovereign AI, On-premises Deployment, Air-gapped Environments, Hybrid Cloud, Open Source
- Data Infrastructure: RonDB, HopsFS, Delta Lake, Petabyte-scale Storage, Data Lineage, Data Governance, Time-travel, Reproducibility
- Compute & Orchestration: GPU Scheduling, Ray, Apache Spark, Apache Flink, Apache Kafka
- Distributed Training & AI Workloads: Real-time Inference, Online and Offline Feature Serving, Vector Database, Retrieval-Augmented Generation (RAG), LLM Fine-tuning, Agentic AI, Model Registry, Model Monitoring

Industry sectors
- Big Science & Research Infrastructure
- High-Performance Computing (HPC)
- Artificial Intelligence & Machine Learning
- Financial Services
- Telecommunications
- Automotive
- E-commerce & Retail
- Healthcare & Life Sciences
- Public Sector & Sovereign AI
- Energy

References
- Karolinska Institutet: One of the world's leading medical research universities. Hopsworks supports large-scale data and machine learning workflows for academic research, with strong relevance to Big Science requirements for reproducibility and data governance.
- Human Exposome Assessment Platform (HEAP): EU-funded open research platform studying the impact of the exposome on human health. Selected Hopsworks for its ability to manage large volumes of heterogeneous scientific data in a reproducible manner.
- Saab: Uses Hopsworks for mission-critical machine learning in regulated and sovereignty-sensitive environments, relevant to air-gapped and on-premises deployments in Big Science.
- Ericsson: large-scale machine learning infrastructure supporting network optimisation and predictive maintenance in production environments.

Company size
Small

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HPG

Company profile
Casting and machining of aluminium parts with requirements for close tolerances and high-quality finish.

Core competencies
- Casting
- Machining
- Welding
- Mounting

Industry sectors
- Aerospace
- Energy
- Maritime
- Vehicles
- Communications
- Defence
- Medtech

References
- SKA
- Chalmers
- Onsala: The "Space Funnel"

Company size
Small



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INCOIL INDUKTION

Company profile
Incoil Induktion AB, founded in 1988, is based in Västerås, Sweden. We manufacture and repair induction equipment, and have a large machine park with both manual and CNC-controlled machines. We can help clients with special projects. Since 2000, we have been developing our own induction machines, which currently have a range of up to 86kVA and <50KHz. In 2008-2009, we came into contact with our first dealer outside Sweden, in Austria, and we are now represented in several places around the world.

Core competencies
- Induction heater
- Welding
- CNC machining
- Precise heating
- Shrink fitting
- Hardening
- Bolt heating

Industry sectors
- Power plants

Industry sectors
- Automotive
- Moulding & Die Casting
- Brazing

References
- CERN
- ABB
- Volvo
- Sandvik
- Svedbro smide
- Ockelbo

Company size
Small



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ISEC MONITORING SYSTEMS

Company profile
ISEC was founded in 2003 in Helsingborg, southern Sweden. Since then, ISEC has gained experience and a unique understanding of the nuclear industry. Our radiation-hardened monitoring systems were developed in collaboration with nuclear power plants in Sweden and France. We have supplied visual information for plant operators, nuclear research facilities, and nuclear back-end facilities. Our concept involves collecting essential data, analysing it, and presenting it in a way that shows how operations could be improved. Examples are increased production time and safety at the facilities, support for the facilities's ALARA focus, and monitoring radiation levels during operation. Our sole focus is on developing and delivering ISEC's nuclear monitoring systems fully adapted to each facility's specific needs.

Core competencies
- Radiation-tolerant cameras able to operate in areas exposed to radiation
- Radiation-tolerant monitoring CCTV systems, including cameras, network equipment and operator work stations
- Video and audio data for surveillance of equipment and processes

Industry sectors
- Monitoring systems for surveillance of components and processes in any radiation-exposed facility or area, including:
- Nuclear power plants
- Nuclear research reactors
- Nuclear backend facilities handling waste, fuel storage, etc
- Space equipment

References
- ESS, Lund, Sweden
- Long-term nuclear waste storage facility for Posiva, Finland
- Equipment for space satellite
- Numerous nuclear power plants in Europe and North America, including Forsmark, Ringhals, Oskarshamn in Sweden and recent new builds in Europe at Hinkley Point C (UK) and Flamanville (France).
- Sellafield, UK's back-end nuclear decommissioning and waste management facility
- Further details on the above and additional references can be provided on request.

Company size
Small



ISEC Monitoring Systems AB
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JOBSAB

Company profile
Since 1981, JOBSAB has been delivering and installing pipes in gas, hydraulics and industrial applications. We have a workshop where we can perform prefabrications. Our main installations are for customers with special gas requirements, hydraulics, and traditional industry. We take responsibility for the entire installation cycle, from the purchased products to documentation. JOBSAB is certificated ISO 3834-2

Core competencies
- High-quality installations
- Clean installations
- Installations delivered on time
- Open, clear and direct communication
- Personnel with certificates
- Accurate documentation

Industry sectors
- Big Science
- Oil and gas
- Nuclear
- Automotive
- Process industry

References
- Big Science: ESS – Installation of cryogenics and process water
- Gas industry: Air Liquide – Industry – gas installation for new production and plant upgrade
- Process/Gas industry: SSAB – installation of pipes, pumps and valves
- Automotive: Volvo – Industry – hydraulic installation for new production and plant upgrade
- Nuclear: Ringhals – Industry – gas installation for new production and plant upgrade
- Oil industry: Rolls Royce – hydraulic installation, plant upgrade

Company size
Small



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KOMPRESSORTEKNIK

Company profile
Cryo-circuit cooler compressors and systems. Helium compressor repair & maintenance. CO2 unit repair and new build. Compressor overhaul. Engineering and prototype manufacturing.

Core competencies
- Helium compressors
- Machining
- Welding
- Design
- Refrigeration technology

Industry sectors
- Industry
- Marine
- Big Science

References
- CERN: overhaul programme of cryo-circuit cooler compressors and parts
- CERN: CO2 refrigeration unit components and accumulators

Company size
Small



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KISAB

Company profile
KISAB constructs, builds and produces single units or small series of equipment and parts in steel and aluminium, such as heat exchangers, pressure vessels and vacuum chambers, to order. We also offer installation on site and turnkey solutions.

Core competencies
- Welding
- Turning
- Milling
- Assembly
- Project management
- ISO3834 and EN1090 certified

Industry sectors
- Pulp and paper
- Food industry
- Water and sewage
- Infrastructure
- Energy

References
- NKT – underwater joints in stainless steel for high-voltage cables
- Öresund Bridge Consortium – evacuation doors (emergency exits) in the tunnel
- MAX IV Laboratory – various equipment support
- Stora Enso – heat exchangers
- Purac – stainless steel pipes for waterworks and pumping stations

Company size
Small





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LABRUM

Company profile
LabRum markets, projects, sells, delivers, assembles laboratory furniture and safety ventilated products as well as certain equipment for the laboratory sector. Parts of the range we own the product rights to and manufacture with selected sub-suppliers. Typical products for us are fume cupboard, down flow benches, ventilated storage cabinets, laboratory tables, sinks, cabinets, etc. complete furnishings for labs. Our equipment side is mainly different types of cold storage, incubators, heating cabinets, climate chambers, test chambers, ovens and some products for IVF clinics. We also supply complete clean rooms (in collaboration with our sister company MRC) and different types of climate rooms

Core competencies
LabRum AB is today a company that consists of 3 companies, Labrum, KEBO Inredningar and ADDvise. We have extensive experience and high competence when it comes to designing / consult interior layouts for laboratories in close collaboration with our customers. We have big experience in how safety ventilated workplaces act and how we can adapt these to suit our customers' working conditions. Understanding of the characteristics of different materials and what is suitable for them.

Industry sectors
Our customers are in the laboratory sector, everything from simple school labs, colleges/ universities, municipalities, hospitals, private company, industry, pharmaceutical research everywhere where you have some type of laboratory activity.

References
- Astra Zeneca
- Volvo
- Tetra Pak
- Eurofins
- NSC Sweden
- Forsmark Nuclear Plant
- Cambrex Karlskoga
- CellcoLabs
- Olink Proteomics
- Fuchs Lubricants

Company size
Small



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LARSSON & KJELLBERG

Company profile
The production flow is particularly suitable for larger and heavier designs. Larsson & Kjellberg is a complete partner and can supply complete solutions, from drawing to installation. Our customers are always in focus and can expect us to meet certified quality and environmental requirements. We can produce welded and machined parts and structures from 1 kg to 100 tonnes. We also have our own painting facility.

Core competencies
- Licensed welders (EN 1090-2, ISO 3834-2, ISO 9001)
- Wide production possibilities
- Production of heavy machinery
- Painting and blasting work

Industry sectors
- Ports
- Shipping
- Swedish Maritime Administration
- Mining
- Steelworks
- Foundry
- Defence materials

References
- The Port of Oxelösund
- Swedish Maritime Administration
- SSAB
- Metso
- Union Electric Åkers
- Scama
- AP & T
- Scania
- ABB

Company size
Small



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LASER NOVA

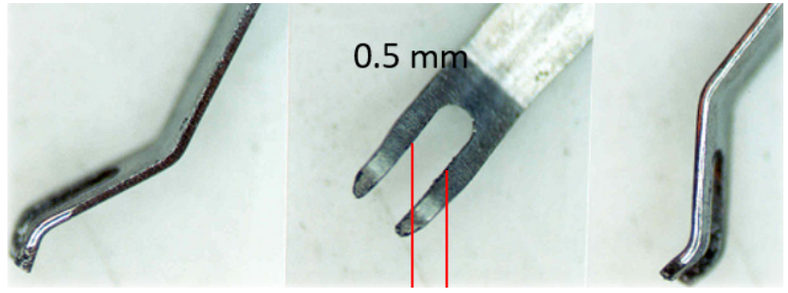
Company profile
Expertise in micromachining, using low to medium power lasers. Precise cutting in thicknesses from 15 um to 3 mm. Precise welding 20 um foils, up to 3 mm in thickness. Stainless, titanium, copper, covar, inconel. Basic material analysis, internal Zeiss SEM.

Core competencies
- Laser processes
- Microwelding
- Microcutting
- Surface structuring
- Pre-studies using NdYAG and fibre lasers
- Several systems available for production

Industry sectors
Laser processes, microwelding, microcutting, surface structuring, pre-studies using NdYAG and fibre lasers. Several systems available for production.

References
- CERN
- Alcatel Subsea Networks
- DOVER
- Integrum
- MAX IV

Company size
Small



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LK PRECISION PARTS

Company profile
LK Precision Parts is a supplier of complex-geometry parts with high requirements regarding tolerance and form. The company has developed its own unique quality assurance process that enables us to support our customers in the manufacturing industry in general, and especially world-leading pharmaceutical companies, the aerospace industry and high-tech niche enterprises. We mill and turn all materials, and closely monitor the latest developments in materials and methods in our ambition to be a technology leader in our segment. Our goal is to be involved from concept stage to full production, and to build up long-term, mutually satisfying cooperation with our customers.

Core competencies
- Unique quality system designed to deliver to the highest requirements regarding tolerance and form
- Ability to support your engineers with manufacturing knowledge through every step of your development process
- Extensive expertise in machining different types of advanced materials
- Cutting-edge 5-axis machining with pinpoint precision
- High service grade and timely deliveries

Industry sectors
- Medtech
- Aerospace
- General industry
- Optics

References
- Cytiva
- Saab
- Trimble
- Maquet
- Implantica
- Parker Hannifin
- Bradford Ecaps

Company size
Medium



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LOAD SYSTEM

Company profile
We offer scalable and high performing IT infrastructure for Big Science. Server, storage & backup solutions for AI, machine learning, and big data.

Core competencies
- Artificial Intelligence (AI)
- Infrastructure
- Machine learning
- Deep learning
- Big data
- Enterprise file system
- Reliable scale up servers
- Containerized application workload

Industry sectors
- Life sciences & pharma
- Public media & entertainment
- Retail

References
- MAX IV Laboratory
- European Spallation Source
- Lund University Diabetes Centre, LUDC

Company size
Small



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LOW NOISE FACTORY

Company profile
Low Noise Factory (LNF) offers the lowest noise, highest performance low-noise amplifiers (LNAs) in the world. Our cryogenic models have become the de-facto standard in physics-related research throughout the world thanks to their unprecedented sensitivity. Our lowest noise model offers a noise figure of less than 0.03 dB. LNF provides its customers with state-of-the-art LNAs for radio astronomy, physics research, and telecom applications.

Core competencies
When Low Noise Factory was founded it was the first commercial company offering true state-of-the-art LNAs. Today, more than a decade later, LNF is still the only company in the world offering these products commercially. Our engineers have more than 35 years of experience in designing LNAs from California Institute of Technology, Jet Propulsion Laboratory and Chalmers University of Technology.

Industry sectors
LNF manufactures, tests and delivers about 1000 cryogenic Low Noise Amplifiers annually. The big markets are quantum computer-related research and radio astronomy.

References
- Physics research
- Quantum computers
- Radio astronomy
- Telecom

Company size
Small



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LOW2HIGH VACUUM

Company profile
As the name suggests, Low2High Vacuum operates with everything from low vacuum to ultra-high vacuum. Low2High vacuum specialises in vacuum technology, and our core business concerns the sale of products and the provision of services related to vacuum technology and its peripheral areas. Our employees have extensive experience and have supplied vacuum technology to the Swedish market for over 50 years.

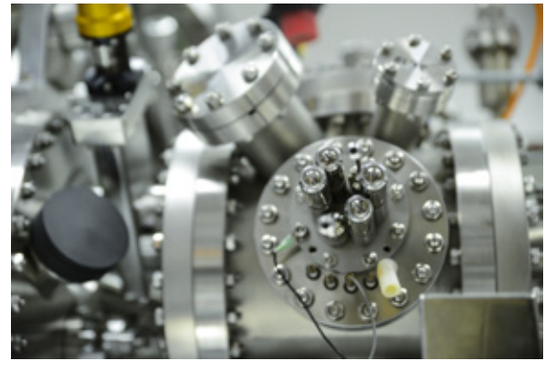
In addition to supplying products such as vacuum pumps, gauges, and instrumentation, and aftermarket solutions, we can also test (leak detection) products with helium on our customer's behalf. We can do this either in our own premises or at the customer's location. We have long experience and knowledge of this type of testing, and we are flexible and can meet customer needs. We also offer courses to companies and students in vacuum technology/theory at both basic and advanced levels.

Core competencies
- Helium leak detection
- Provision of vacuum chambers
- Provision of vacuum equipment

Industry sectors
- Automotive
- Pharmacy
- R&D
- Food and packaging
- Science

References
Our list of references is long and contains, in addition to all major industrial manufacturing companies in Sweden, all universities and colleges of technology in Scandinavia. Some examples: Lund University (and MAX IV), European Spallation Source and DESY.

Company size
Small



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LUE ENGINEERING

Company profile
We build advanced special machines for the research and manufacturing industries. We have supplied, for example, a thermal vacuum chamber that tests systems before they are launched into space, battery fixtures for the truck and car industry, a robot-handled end of line test system for the antenna industry, and laser-weld systems for the manufacturing industry.
All our CAD data is handled in a PDM system to ensure design quality and future spare parts.

Core competencies
- Engineering
- Assembly
- Volume manufacturing
- Automation
- Robot handling

Industry sectors
- Light and heavy vehicle industry (battery fixtures)
- Industries that use automation
- Simulator industry (design and assembly)

References
- NorthVolt
- Scania
- Subsupplier to the car industry

Company size
Small



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LUMA METALL

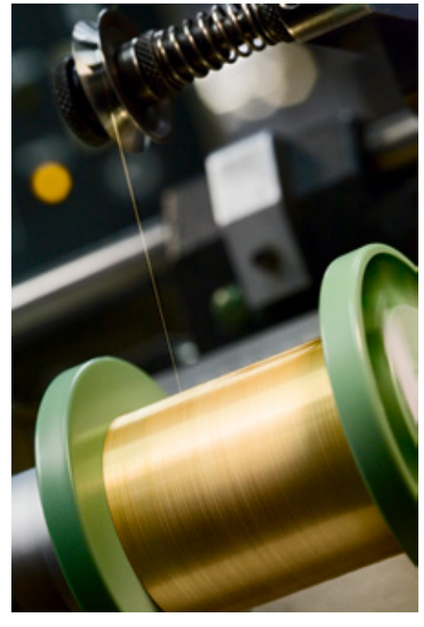
Company profile
Luma Metall AB, based in Kalmar, Sweden, has 23 employees and a net turnover of SEK 41 million. Luma manufactures fine and ultra-fine wire (0.004-0.3 mm) of tungsten, tungsten-rhenium and molybdenum for various applications in industry all over the world. All our products are exported. Plating technology has become important in recent years. Luma wires are often plated with gold, silver, or nickel or combinations of these materials. Luma is one of the leading companies worldwide in plating technology, and also offers plating services.
The main application areas are reflector wire for satellite antennas in space, detectors and scanners, musical strings, digital printing, medical applications such as guide wires, lighting, automotive, and research (e.g. particle accelerators).

Core competencies
- Fine-wire drawing
- Ultra-fine wire
- Plating
- Tungsten
- Molybdenum
- Tungsten-rhenium
- Gold plating

Industry sectors
The main application areas are: reflector wire for satellite antennas in space, detectors and scanners, musical strings, digital printing, medical applications such as guide wires, lighting, automotive, and research (e.g. particle accelerators).

References
- CERN, Switzerland
- ESA (European Space Agency)
- Various US producers of wire mesh and satellite antennas, working mainly for the US government.
- Hewlett-Packard, Printing Division, Israel
- Thomastik, Austria

Company size
Small



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LÄTTMETALLVERKET

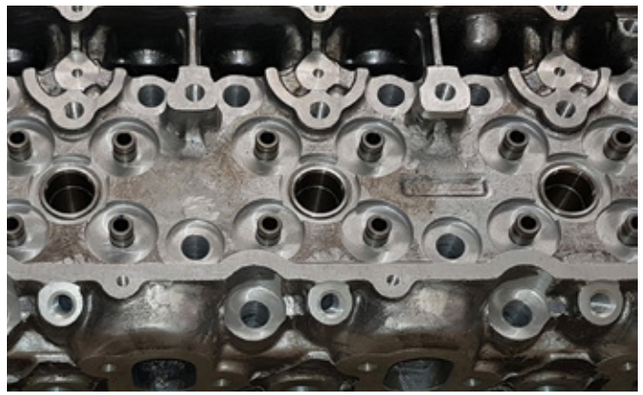
Company profile
Lättmetallverket i Roslagen has extensive experience in aluminum casting and post-processing in a modern CNC machine park. We can offer customers help with both small and large casting series, as well as simple machining in "all" materials. We help our customers all the way from the drawing board to the final detail, so that everyone involved is satisfied with the result. Examples of our assignments are casting, finishing, heat treatment, anodizing, and painting. Our standard Alu alloys are EN-AB 42000, EN-AB 43100 and EN-AB 46200, but we can produce other alloys on customer request.

Core competencies
- Aluminum casting
- Post-processing
- Turning
- Prototypes
- Milling
- Multiple operation processing

Industry sectors
- Medical technology
- Transmission
- Marine

References
- ScandiNova Systems AB
- Hitachi Energy Sweden AB
- Valmet AB -Roslagsgjuteriet
- Berg Propulsion
- Dustcontrol AB
- CERN

Company size
Small



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MCT BRATTBERG

Company profile
MCT Brattberg develops and manufactures high-performance modular sealing systems for cable and pipe penetrations in mission-critical environments. Our solutions protect people, equipment and operations against fire, pressure, gas and water ingress, ensuring long-term integrity where safety and uptime are essential.

Originating from the Brattberg system developed in Sweden in the 1950s, our technology has become a proven standard in demanding industries such as maritime, offshore and nuclear power. Today, we support advanced research facilities with certified solutions designed to meet stringent safety, regulatory and performance requirements.

With extensive experience from highly regulated environments, including radiation-exposed applications, we contribute to the safe and reliable operation of complex infrastructure throughout its full lifecycle.

Core competencies
- Modular sealing systems (MCT) for cable and pipe penetrations
- Fire, pressure, gas and water-tight solutions for critical infrastructure
- Proven performance in harsh and radiation-exposed environments
- Certified systems in accordance with international standards (e.g. marine, hazardous areas and nuclear applications)
- Engineering and technical support from early design phase to installation and lifecycle management

Industry sectors
- Energy
- Nuclear & SMR
- Maritime & offshore
- Pharmaceutical & science
- Infrastructure & construction
- Datacenters
- Heating & Cooling
- Oil & Gas

References
- ESS (European Spallation Source) – applications in radiation-exposed areas
- ITER – fire protection in large-scale research infrastructure
- Nuclear power plants – long-term safety-critical installations
- Offshore and marine applications – high-pressure and hazardous environments
- Energy and infrastructure projects – ensuring operational continuity

Company size
Medium



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MEDICAST

Company profile

Medicast aims to optimise customer satisfaction by offering broad and extensive expertise in all product areas involving casting and forging.

We provide Scandinavian and European engineering companies with technical services relating to design, production, metallurgy and materials, and process technology, and also offer customised logistics and technical advisory services.

We supply cast products in various materials, forged products, and cut and welded metal panels.

Core competencies

- Highly qualified engineers in a number of related fields, with practical experience in casting and forging, and working with cast iron, steel, copper and aluminium alloys
- Experienced and creative logistics personnel
- Cutting and welding
- Reprocessing
- Supplier auditing
- Redesign of components
- 3D model printing

Industry sectors

Machinery sectors in general, with a focus on pumps, mining, off-shore, aero and space, etc.

References

- Sandvik
- Atlas Copco
- IMO
- Sesab
- Quintus
- Atlet

Company size

Medium



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MICROBAS PRECISION

Company profile

Microbas provides precision components and customised solutions in granite, glass ceramics, glass, aluminum, steel or other bespoke materials for global high-tech industry and research institutions.

Core competencies

- Precision granite
- Optical glass grinding and machining
- Invar machining
- Precision lapping
- Zerodur machining
- Clearceram machining
- Fused silica machining
- Precision metals machining

Industry sectors

- Electronics manufacturing equipment
- Advanced machines
- Thin film technology
- Astronomy
- Space optics
- Research institutions and projects
- Metrology and calibration

References

- ESO: precision machining of glass ceramics
- MAX IV: precision granite
- ESS: mirror assembly
- Mycronic: machine bases, stages, beams and other ultra-precision components
- Carl Zeiss Jena: light weighting and precision grinding of mirrors
- Safran REOSC: light weighting and precision grinding of mirrors. Lens grinding
- University of Leiden (Astron/Nova): precision grinding of mirrors and lenses
- Eldim SA: lens grinding
- Coherent: precision granite

Company size

Small



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MICROPOL FIBEROPTIC

Company profile
Micropol is a Swedish manufacturer of communication solutions based on fiber optics. Serving defense organizations and solution providers, Micropol meets the highest standards for quality and performance. Established in 1988, Micropol is internationally renowned as a technology leader and innovator in secure tactical communication and critical infrastructure solutions.

Micropol has production and headquarter in Sweden with sales offices in Germany, the U.K and USA. Micropol is part of Pamica Group.

Core competencies
- Outstanding optical performance
- Large number of customer references with challenging demands
- Product development and manufacturing in Sweden
- 35 years experience of passive fiber optics

Industry sectors
- Critical Communication
- Defence and security
- Medical technology
- Industry

References
- Swedish Armed Forces - Long range field tactical fiber optic communication systems and cables
- Netherland Armed Forces - Fiber optic connectors for mobile communication units
- Saab AB - Customised high specification fiber optic solutions to defence and security application
- BAE Systems - Optical converter components for use in combat vehicles
- Biotage - Micro polished glass rods for liquid detection in laboratory equipment
- ABB - Plastic fiber optics for use in industry robots
- SSAB - Fiber optic cable systems for emergency use in harsh environments

Company size
Medium



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MIKROPONENT

Company profile
Mikroponent was founded in 1973, a well-known supplier, principally to the Scandinavian telecom, electronic and fine mechanical industries.

Together we have a high level of expertise within product adaptation and manufacture of outline-cut thin metal products made from materials ranging from hardened steel to soft copper alloys with or without flexible supporting materials.

Core competencies
We manufacture high precision customer designed parts of thin metal foils or laminated flex films. The technique is well developed after more than 45 years of experience.

We are partners to and deliver to electronics and fine mechanical industries.

Our products are found in mobile phones and systems, cameras, flexible circuits, Blue Tooth, antenna elements for wireless communication, EMC-shieldings on PCB, instrumentation, sensors and camera video technology, medical equipment and aviation – space and defence industry.

Industry sectors
- Electronics
- Design
- Telecom
- Precision-engineering
- Optics
- Food
- Medicine
- Space
- Aviation
- Defence
- Dental
- Home care
- Automotive
- Maritime
- Nuclear

References
- SAAB AB, high precision metal parts
- Kongsberg AS, high precision metal parts
- CERN, high precision metal parts
- GE Healthcare, high precision metal parts
- RUAG Space, high precision metal parts
- Hasselblad, high precision metal parts
- 3M, high precision metal parts
- Ericsson, high precision metal parts

Company size
Small



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MIKROVERKTYG

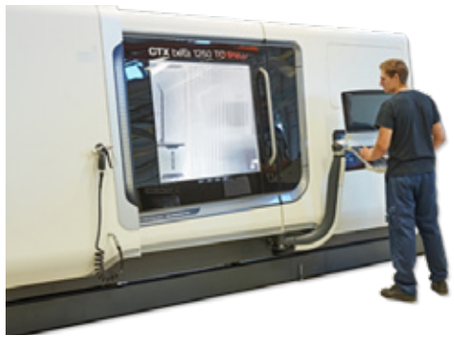
Company profile
Mikroverktyg is a leading supplier of tools, high-quality transmission components, and advanced mechanical components incorporating "micro-quality".

Core competencies
- Gears & transmissions
- High-precision mechanics tools
- Power skiving

Industry sectors
Technology company with manufacturing/ development services for industrial products and automation equipment.

References
We work on assignments from customers in the aerospace, defence, energy, industry, automotive and medical engineering sectors, all of which impose stringent demands and have high expectations.

Company size
Medium





MIKROVERKTYG

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MLT MASKIN & LASERTEKNIK AB

Company profile
MLT Maskin & Laserteknik AB is a specialised service and product provider within advanced measurement technologies. The company delivers high-precision solutions in 3D scanning, alignment, balancing and condition monitoring, supporting customers in optimising performance, reliability and lifecycle management of critical assets.

With a strong focus on accuracy and efficiency, MLT combines technical expertise with state-of-the-art equipment to meet the demanding requirements of industry and research environments.

Core competencies
3D scanning, measurement, alignment, condition monitoring and balancing.
By combining technical expertise with modern measurement systems, MLT delivers accurate, efficient and reliable results tailored to demanding environments.

Industry sectors
- Process industry
- Manufacturing industry
- Engineering

References
- MAX IV
- ESS

Company size
Medium



MLT

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MTC POWDER SOLUTIONS

Company profile

We are a world-leading supplier of near-net-shape components manufactured through powder metallurgy and advanced Hot Isostatic Pressing (HIP). Our solutions deliver exceptional mechanical and microstructural performance, surpassing the capabilities of conventional casting and forging technologies. HIP enables the production of highly complex geometries with integrated flow channels, while minimizing machining and consolidating multiple parts into single, fully dense components—eliminating the need for welding.

We further extend these capabilities through diffusion bonding via HIP, enabling the reliable integration of dissimilar materials with superior interfacial integrity. In addition, we provide advanced HIP densification services for additively manufactured components and castings, ensuring defect-free microstructures and enhanced structural reliability for the most demanding applications.

Core competencies

- Powder Metallurgy (PM)
- Near-Net-Shape Hot Isostatic Pressing (NNS HIP) materials and components
- Advanced materials expertise, including: Austenitic stainless steels Duplex stainless steels Martensitic steels Metal Matrix Composites (MMC) Nickel-based alloys
- Diffusion bonding via HIP for high-integrity joining of dissimilar materials
- HIP densification services for additive manufacturing (AM) components and castings
- Research and development of advanced alloys and next-generation materials

Industry sectors

- Nuclear
- Big Science
- Defence
- Energy
- Aerospace
- Fusion
- Chemical

References

To be provided on case by case basis

Company size

Medium



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MULTICOMPONENT NORDEN

Company profile

Multicomponent Norden is your supplier of electronic components. We represent leading manufacturers in five different product areas: Opto/Display, Power Supply, High Voltage, Electromechanics and Sensors. We are located in Mölndal, part of the city of Gothenburg. With our many years of experience, we help and guide you to the optimal choice of components for your application. Together with our suppliers we can customise solutions to meet your requirements, and can also offer logistics solutions.

Core competencies

- Displays & Opto
- TFT
- Oled
- Camera modules
- Touch panels
- Embedded
- Power supply
- Electromechanics
- Sensors
- Programmable DC power up to 10 000 VDC and +200 kW
- Bidirectional power supplies
- DC & AC loads
- DC/DC converters
- High-voltage components
- High-voltage AC/DC and DC/DC
- High-voltage diode-embedded sensors
- High-voltage capacitors
- High-voltage multipliers
- High-voltage reed relay
- Hall sensors
- Magnets
- Reed relay

Industry sectors

- Industry
- Automotive
- Military
- Space
- Medical
- Science

References

- IRF
- Heart
- Aerospace
- RISE

Company size

Small

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MVUS

Company profile
We are a complete manufacturer that can offer machining, welding and assembly services for large and heavy components used in a broad range of industries. We have a long heritage, more than 150 years, in the Swedish engineering industry and a highly skilled workforce, which enable us to offer high-quality complex products developed in collaboration with our customers.

Core competencies
- Extensive expertise
- High-quality products
- Large, heavy and specialised machines
- Worldwide deliveries
- Sector-leading customers

Industry sectors
- Energy
- Mining
- Civil
- Forestry
- Nuclear

References
- Machining and welding parts for gas turbines (serial production)
- Manufacture and assembly of lock gates for hydropower plants
- Welding of larger assemblies for power transformers
- Manufacture of heat exchangers and pressure vessels

Company size
Medium



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Sales Director
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NANOVAC

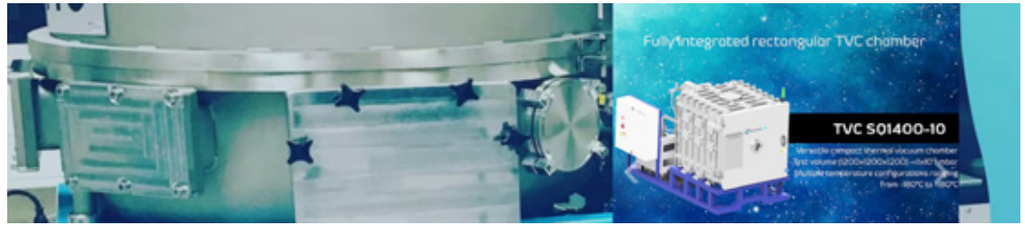
Company profile
We are specialized in vacuum technology solutions, providing equipment and know-how for various vacuum system solutions. We have extensive experience in providing automation and mechanical solutions for advanced vacuum systems, ranging from small test systems to large complex vacuum chamber/system solutions.

Core competencies
- Vacuum technology
- Vacuum system engineering
- Vacuum system design
- Vacuum system automation
- Automation
- Risk analysis

Industry sectors
- Research & Development
- Solar Industry
- Medical Industry
- Electrical Industry
- Aerospace
- Aeronautics

References
- Thermal vacuum chambers
- Physical vapor deposition systems
- Vacuum brazing ovens
- Vacuum components
- Vacuum vessels
- Vacuum system automation

Company size
Small



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NORDIC AIRCRAFT

Company profile
Your partner in advanced composites. With an innovative mindset, extensive experience, and a long history of working with challenging projects, Nordic Aircraft can rightly be called experts in the field of advanced composites.

We take full responsibility, all the way from concept, design and analysis to a finished product, including tooling, assembly and testing.

We can handle everything from prototyping to series production. Nordic Aircraft is known to be a high-end partner, characterised by high-quality products and timely delivery with all necessary documentation.

Core competencies
- Composite
- High-end
- Advanced autoclave
- Prepreg
- Aerospace

Industry sectors
- Aerospace
- Aircraft
- Space
- Industry

References
- Saab
- Beyond Gravity
- OHB
- GKN
- Aerospace Swedish Space Corporation
- Swedish Defence Research Agency

Company size
Small



NORDIC AIRCRAFT

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CEO
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NOTE

Company profile
NOTE is a global leader within the EMS industry. We manufacture electronics for various customers with high demands. NOTE has factories in Sweden, Estonia, Finland, UK, and China. Our customers come mainly from high-end industrial and medical segments, research, and high-end consumer segments. NOTE is a publicly traded company listed on the First North list at Nasdaq Stockholm exchange.

Core competencies
NOTE's core expertise is development of viable manufacturing methods for PCBAs or full products with various partners. We have factories with different skills and specialisations that can solve almost any problem related to product manufacturing/development.

Industry sectors
- Medical
- High-level industry
- High-level consumer
- Defence

References
- SPECT: Swedish research programme for development of a portable GammaRay dosimeter. NOTE manufactures prototypes for the project with various counterparts. The project is supported by Vinnova Sweden.
- Big Science. COGNA: Swedish research programme for development of intelligent PCBs with built-in sensors. NOTE manufactures prototypes for the project with various counterparts. The project is supported by Vinnova Sweden and Swerea Sweden.
- Cross-discipline project. CERN: NOTE has manufactured PCBAs for CERN through Uppsala University.

Company size
Large



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YOUR MANUFACTURING PARTNER

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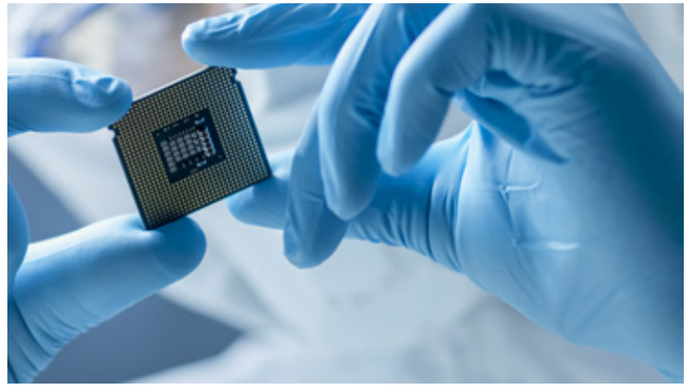
NSS WATER

Company profile
NSS Water offers the world's first nanopure water, a water free of nano contamination above 10nm. Our product WNO (Wet nano one) can be used in R&D, life science and semiconductor industry. Nanopure water is to be used in every application when extreme-purity water is needed.

Core competencies
NSS Water has semiconductor background and experience from yield enhancement. We strive to improve water quality in the most demanding applications.

Industry sectors
- Semiconductor industry
- Life science bio-chemistry

References
Kent Rundgren, Chalmers Industriteknik, kent.rundgren@chalmersindustriteknik.se



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NUVIA NORDIC

Company profile
Nuvia offers highly specialised services and products for demanding environments, with a focus on nuclear and science applications. Our services cover all parts of a facility's lifecycle, from new-build to maintenance and decommissioning.

We deliver highly specialised capabilities in engineering, technical maintenance and installation, as well as radiation protection services. We also develop our own radiation protection products, which are sold worldwide to nuclear facilities.

Core competencies
- Radiation protection
- Engineering
- Major projects
- New-builds
- Decommissioning
- Waste management
- Radiation monitoring equipment
- Fire protection

References
ESS

Company size
Medium



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NVENT NORDIC

Company profile
At nVent, formerly Pentair, we believe that safer systems ensure a more secure world. We connect and protect our customers with inventive electrical and electronic solutions. nVent is a $2.1 billion global company that provides enclosures, electric heat tracing solutions, complete heat management systems, and electrical and fastening solutions. nVent employs 9,000 people worldwide.

Core competencies
The nVent SCHROFF brand contains a broad product portfolio from printed circuit board (PCB) accessories, such as card retainers and extractors, front panels and handles to subracks, cases, backplanes, power supplies, cabinets and pre-assembled chassis for embedded computing systems. As a pioneer and trendsetter, the SCHROFF name is synonymous with expertise in the areas of mechanics, electronics, climate control and system management, and has been for over 50 years.

Industry sectors
SCHROFF provides a comprehensive range of standard, modified, and custom-engineered solutions for the energy, industrial, infrastructure, commercial, communications, medical, security, and defence markets. For the test and measurement market, SCHROFF systems are ideal in a 19” control cabinet or as a scalable and flexible system that can be adapted to specific aesthetic concepts.

References
nVent provides support to several research facilities, such as the European XFEL X-ray laser from the DESY research center (Deutsches Elektronen-Synchrotron) and ESS (European Spallation Source). The area of application for the SCHROFF MTCA system is the “beam control”. In addition, there are systems located in the experiment chamber where researchers carry out their measurements.

Company size
Large



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NYFORS

Company profile
Nyfors is your innovative supplier of advanced glass processing and preparation equipment for specialty optical fiber splicing operations. We supply reliable and precise solutions tailored to the individual challenges of our customers. Our highly automated systems lead to consistent, high yield production for both high and low volume.

Our portfolio currently includes: CO2 laser splicing and glass shaping equipment, automatic systems for fiber preparation, fiber-end and window stripping, high precision cleavers, and optical fiber recoaters, as well as proof testers and cleave check interferometers.

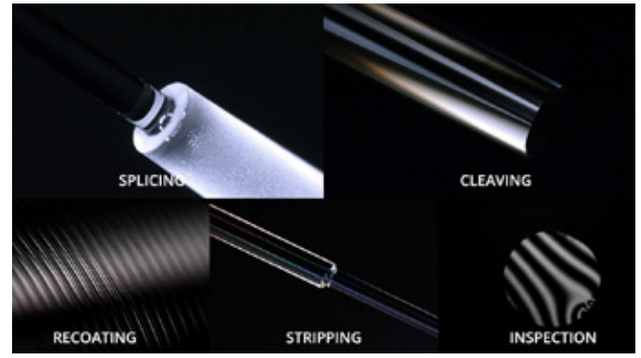
NYFORS also offers customised workcell automation solutions, including sub-micron alignment and optical component manufacturing systems.

Core competencies
Speciality fiber processing
CO2 glass processing
CO2 laser fiber splicing and glass shaping
Laser processing
Interferometry
Fiber or ferrule end face inspection
Optical fiber
Optical fiber splicing
Fiber cleaving
Fiber stripping
Fiber recoating
Prooftesting
Fiber optics
- Inspection
- Tapering
- Fiber bundles
- Customised workcell automation solutions
- Sub-micron alignment systems
- Optical component manufacturing
- Consulting, service, and products relating to the above.

Industry sectors
- Photonics
- High power lasers and fibers
- Telecom and fiber networks
- Medical and microscopy
- Energy and harsh environments
- Aerospace and defence
- Academia and innovation

References
ELT telescope. Please contact Erik Böttcher if further info is needed.

Company size
Small



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OPTRONIC

Company profile
Optronics' offering includes development and manufacturing services with a focus on optical measurement technology. Our comprehensive services extend from early design phases, through industrialisation, all the way to series production.

We improve our customers products throughout their life cycle through cost savings, process optimisations, quality and design improvements. We believe that by creating added value for our customers throughout the product life cycle, we will earn the trust to be involved in the next product generation.

We are proud to have established many long-term partnerships, and we are known for our constant technical curiosity, stable supplier network, and high process quality. We have been helping our customers improve their competitiveness and achieve success in their markets for more than 40 years.

Core competencies
- Optical expertise (triangulation, stereo cameras, projected patterns, interferometry, digital holography, photometry and radiometry, photometric stereo, spectroscopy, plenoptic cameras, etc.)
- Industrialisation and development of products for advanced metrology
- Prototype manufacturing
- Serial production

Industry sectors
- Industrial
- Life science & Medtech
- Food and agriculture
- Security
- Logistics
- Defence

References
Optical solutions and sensor-based systems such as:
- Contamination and particle measuring
- Raman spectroscopy
- Digital holographic microscopy
- NIR spectrometers
- TOF cameras

Company size
Medium



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POWER&D

Company profile
POWER&D is the Nordic region's leading design house for power electronics and PCB layouts. Our specialty is custom design development and delivery of power supply, motor drives, battery charging, and PCB layout. We have been supplying design services since 1978.

Our premises include a 300 sqare metre modern and well-equipped electronics lab, including EMC and environmental measurement capabilities.

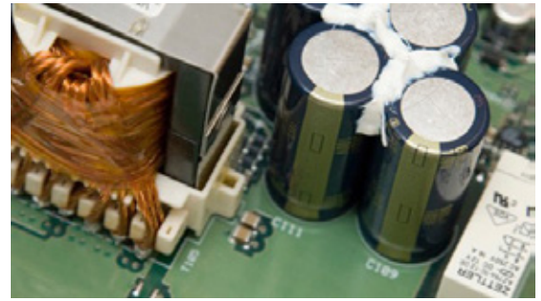
We have also expert skills in the design of printed circuit boards and on how PCB layouts must be designed to comply with both electrical safety and EMC requirements. We work through every stage of development – from idea to finished product. POWER&D also delivers series-production units.

Core competencies
- Power electronics
- Power supplies
- Motor drives
- Battery charging
- EMC investigations
- PCB layout

Industry sectors
POWER&D has customers in many Industry sectors where requirements are demanding. Our clients include some of the world's most technology-intensive companies in automation, power generation, telecommunications, railway, automotive, marine, and defence.

References
- Atlas Copco
- ABB
- Scania
- Husqvarna

Company size
Small



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POWER HEAT PIPING SOUTH

Company profile

Power Heat delivers advanced industrial piping and mechanical installations as major installation contracts and as service and maintenance on a daily basis. We work with all kind of process systems in all kind of materials, everything from stainless small-bore piping and large stainless water systems to high-grade steel piping for high pressure steam.

Power Heat is specialised in highly regulated industrial sectors with high documentation standards. We are certified according to ISO 9001:2015 for quality, ISO 1090-1:2009 regarding steel construction, and ISO 3834-2:2005 regarding welding. We also comply with ISO 14001:2015 for environment and ISO 45001:2018 for work environment.

Power Heat also has a well-equipped workshop for manufacturing of almost all kind of specialised process equipment, including pressure vessels.

Core competencies

- Industrial piping installations
- Mechanical installations
- Manufacturing
- Welding
- PED

Industry sectors

- Process
- Pharmaceutical
- Food & dairy
- Chemical
- Research
- Heat & power
- Distributed heating & cooling

POWER HEAT
WELDING • CONSTRUCTION • MAINTENANCE

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Alexandra Gedda
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References

- ESS (European Spallation Source): framework agreement for mechanical and piping installations, including a number of installation projects and advanced manufacturing
- MAX IV Laboratory: framework agreement for mechanical manufacturing
- ON: framework agreement for mechanical and piping installations and maintenance including a large number of installation projects
- Nordic Sugar: framework agreement for mechanical and piping installations and maintenance including a large number of installation projects
- Norcarb Engineered Carbons AB: framework agreement for mechanical and piping installations and maintenance including a number of installation projects
- Tetra Pak: various piping installation projects
- Skånemejerier: mechanical and piping installations and maintenance work on Malmö dairy site
- Oatly: mechanical and piping installations and maintenance work on Landskrona dairy site
- Kraftringen Lund: a large number of different piping installation projects
- Magle Chemoswed: mechanical and piping installations and maintenance work on the local Malmö site
- Gambro / Baxter + MarCor: serial delivery of prefabricated piping systems for dialysis water purification units
- Stora Enso AB: mechanical and piping installations and maintenance work on Swedish paper mill sites
- A large number of projects on smaller local process sites and heat & power units in southern Sweden

Company size

Small



PREVAS TEST & MEASUREMENT

Company profile

We specialise in providing expertise and building systems within test, measurement, and control. Our highly skilled experts take you from prototypes, through requirements definition, development of measurement techniques and definition of processes to implementation, delivery and education. From our office in Lund, we deliver systems for the most challenging measurement tasks, and provide on-site consulting services to various industries. One of our focus areas is Big Science, as this lies very close to our hearts.

Core competencies

- Our engineers combine theoretical knowledge and the ability to quickly grasp technical challenges with the know-how of creating scalable and stable systems. We combine science, computer science, and extensive experience from test development to bridge the gaps commonly found in most organisations.
- About half of our consultants hold PhDs in laser-based measurement techniques, electrical measurement techniques, materials science, nuclear physics and similar areas, whereas the rest have MSc qualifications in fields ranging from physics through electrical engineering to mechanics.
- Contact us if you need help with National Instruments software or hardware. We are an Alliance Partner of National Instruments and have gathered the largest set of LabVIEW and NI hardware expertise in the Öresund region.

Industry sectors

Big Science
Medical technology
Industrial
Production
Power
IoT

References

- Control system for an ion accelerator
- Control system for a DC/DC converter
- Measurement system for nuclear fuel rods
- Verification of radio ASICs
- Test rig for hydronic actuators
- Hardware and software development for the biogas industry
- Development of test departments and test activities.

Company size

Small



Prevas

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PRODUKTIONSTEKNIK I LUND

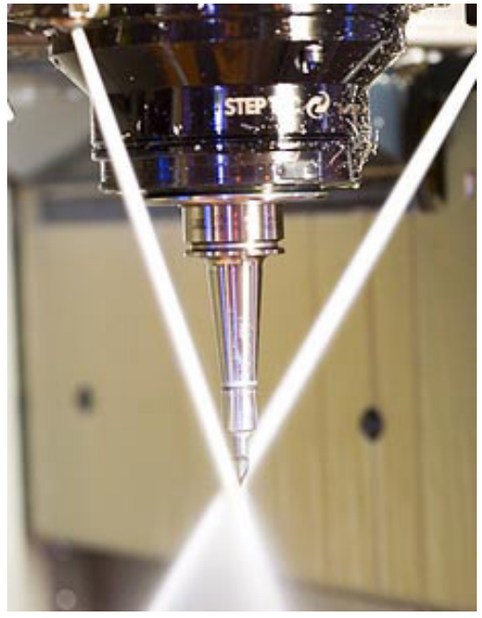
Company profile
Produktionsteknik i Lund has two different facilities with a total of ten 5-axis high-precision Swiss milling machines. We have two well-equipped measuring labs. Manufacturing is our main business, but we also perform the whole chain from designing, manufacturing, assembling, and testing.

Core competencies
High-precision manufacturing in different materials, e.g. stainless steel, copper, aluminium, ceramics.

Industry sectors
- Particle accelerators
- Vehicle
- Medical
- Packaging and processing

References
CERN

Company size
Small



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PROVEXA SURFACE TECHNOLOGY

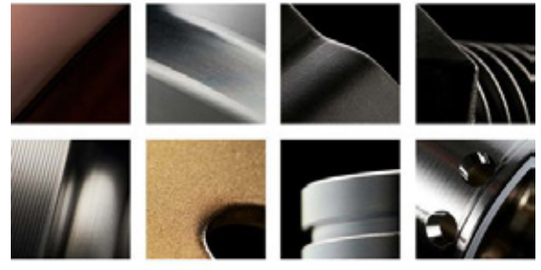
Company profile
We offer surface treatment and surface technology! We have adapted our production after the demands of the modern era, in order to provide surface technology that adds form, function and sustainability to the product. We also provide special production, corrosion testing and process development at our laboratory.

Core competencies
- Plating
- Surface treatment
- Surface technology
- Powder coating
- E-coating
- Corrosion testing
- Consultation
- R&D
- Analysis
- Cycle corrosion testing
- Salt spray testing

Industry sectors
- Automotive
- Construction
- Energy
- Electronics
- Hydraulics & HVAC
- Aerospace & Defence
- Interior & Design
- Medtech

References
- Gapwaves
- RUAG
- Saab

Company size
Medium



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QAMCOM RESEARCH AND TECHNOLOGY

Company profile

We are a knowledge-based technology company within hardware, software and system development. We offer value-driven technology solutions, products and services in the fields of advanced signal processing, artificial intelligence, wireless communications systems, industrial IoT, and system safety. Qamcom's mission is quite simply to turn technology into value for society, industry and people. Based on insights and the needs of end users, Qamcom bridges the gap between technology and application to enable high ambitions together with our partners.

Core competencies

- Advanced signal processing and algorithms
- Embedded systems
- ASIC and FPGA design
- Electronic design and PCB layout
- Microwave and radar systems
- Wireless communication systems
- Frequency and time synchronisation
- Object detection, classification and tracking
- Functional and systems safety
- AI and machine learning
- Computer vision and image processing
- Optics and optical filtering

Industry sectors

- Telecom/ICT
- Automotive
- Space
- Defence
- Medical devices

References

- Telecom systems to world leading companies
- Developed radar systems for obstacle detection
- Developed sensor systems and full camera for leading high-end camera company
- Conducted research in advanced 5G and 6G algorithm development and standardisation
- Developed signal processing algorithms for world-leading car manufacturer

Company size

Medium



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QMT SCIENCE

Company profile

Qmt Science is a Swedish and Danish supplier of DK-Lok, (www.dklok.com) instrumentation fittings and valves. With a large stock-in-trade of DK-Lok components in our new warehouse and workshop in Kalmar, we can provide quick deliveries within Sweden and Denmark. DK-Lok provides high-purity fittings designed to minimise particle generation and entrapment and high-strength fittings designed to hold high pressure. DK-Lok products deliver dependable, leak-tight performance. DK-Lok offers instrumentation and process ball valves, check, diaphragm-sealed, metering, shutoff and regulating needle, process instrumentation, quarter-turn plugs and relief valves, and manifolds. Whether you need fittings for corrosive environments or extreme temperatures, fittings to maintain vacuum or withstand high pressure, DK-Lok's wide product portfolio will offer a solution.

Core competencies

Qmt Science has more than 30 years' experience of collaborating with customers. Our in-house R&D organisation, with a design & assembly service, enables us to create gas panels for monitoring & safety control, such as gas panels for controlling & monitoring helium cooling. Our field of expertise includes TIG and orbital welding in stainless steel with exceptional requirements for cleanliness, surface plane and density levels.

Industry sectors

- Manufacturing
- Process and semiconductor
- Oil & gas
- High-tech universities / labs
- Renewable energy

References

- ABB
- Alfa Laval
- Alstom
- Arcam
- Astra Zeneca
- Breatheus Regional
- Eon Biofor
- ESS
- Gambro/Baxter
- Gas Products
- Getinge
- Hydroscand
- Höganäs
- Linde
- MAX IV
- Metso
- Powercell
- Purac Puregas
- Sweep International
- Valutec

Company size

Small

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QTECH GROUP

Company profile
Qtech Group, a central coordinator, simplifies our customers' purchases of mechanical components through our outstanding project model with dedicated technical personnel. Around 67% of our suppliers are local, within a 100-km radius, and 100% of production is sourced in Sweden.

We supply components in both small quantities, such as pre-series orders (prototypes), and higher volumes, although small and medium-sized series are our core business. We offer the customer services within the following areas for mechanical products: design, construction, project management, prototyping, production, warehousing, assembled products, high quality check and documentation, pick and pack.

We are ISO certified according to 9001 as well as 14001, and quality has always been our focus. Since 2023 we have been a partner of EcoVadis, where we gained a gold medal and also implemented ISO26000 for sustainability.

Core competencies
- Complex projects with complex mechanical components
- Competitive solutions
- Broad network with Swedish sub-suppliers for all kinds of operations
- Prototyping workshop in-house for quick production and fixtures
- Quality, measurement, and documentation expertise

Industry sectors
- Robotics
- Defence
- Food
- Train
- Medical
- Spare parts
- General industry

References
- ABB
- Saab
- Tetra Pak
- Göteborgs Spårvägar

Company size
Small





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QUALISYS

Company profile
Qualisys optical tracking systems deliver high-precision 3D and 6DOF ground truth data, enabling the control and development of unmanned aerial vehicles and other autonomous machines. Our motion capture systems are scalable, portable, and weather-resistant, performing just as well outdoors as in controlled environments.

With active marker technology, they support long-distance tracking in large volumes while maintaining low latency and exceptional accuracy. Backed by decades of close collaboration with engineers and researchers in demanding applications, Qualisys provides reliable solutions for the most challenging tracking needs.

Core competencies
Ground truth system for the development, validation, and deployment of autonomous machines and robotics. Features include 6-degree-of-freedom object tracking, sub-millimeter accuracy, and real-time streaming with latency under 5 ms. Designed for use in indoor, outdoor, above-water, and underwater environments.

Industry sectors
- Robotics
- Drone
- Autonomous drivning
- Marine vessel

References
- ABB
- MARINTEK
- Toyota
- Ericsson
- Michigan M-Air
- Fraunhofer
- Purdue University

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RECAB

Company profile
Recab is a Scandinavian specialist company and part of Addtech, a 7.5 billion SEK technology group, listed on the Swedish stock exchange. Recab's expertise and experience provides embedded computer and sensor hardware solutions for demanding applications.

Core competencies
Recab focuses on "Embedded Computers Systems", "Industrial Communication" and "Vision & Sensors" for demanding applications, and supplies hardware products and customised solutions. Recab provides customers with tailor-made solutions through in-house development combined with standard embedded products from major companies.

Industry sectors
Recab has customers in many different Industry sectors where requirements are demanding. Some customers require rugged, robust or redundant solutions, others require an extended product life cycle or ultra-high performance compatible with existing technology. Recab enables high-quality solutions for demanding applications.

References
To our customers in the science sector, Recab provides high-end standard embedded computers and communication products and custom off-the-shelf solutions. We enhance existing platforms and building blocks to perfectly match the customers' applications and requirements. This reduces risk and time-to-market, and saves our customers development and consultancy costs.

Company size
Medium



Recab
For demanding applications

Recab AB
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Frederik Klakk Jeppesen
Sales Manager
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RELITOR ENGINEERING

Company profile
Relitor Engineering is your partner for plant engineering, with specialist areas that include piping design, tank and pressure vessels, machine design, and technical calculations.

We are located in Luleå, a major industrial centre in northern Sweden, one of the world's most interesting regions for green energy development.

With 30 years' experience of serving influential clients in various industrial sectors, we are a natural partner when you are looking for engineering excellence.

Core competencies
- Tank and pressure vessel
- Piping

Industry sectors
- Steel and metal
- Engineering
- Energy and recycling
- Mining

References
- SSAB
- LKAB
- Swerim

Company size
Small



RELITOR ENGINEERING

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RESINIT

Company profile

Resinit AB offers precision-machined components and assembled products made of polymeric materials and thermosettings. The company specialises in high-tech plastic materials that are difficult to process, and meets stringent requirements regarding quality and delivery reliability. Together with post-processing options, including washing, glueing, testing and assembly, Resinit offers complete solutions to meet customer needs.

The products are used in different environments, including cleanroom facilities (ISO 8 level).

Resinit closely monitors the latest developments in plastic materials and manufacturing methods, and continuously invests in upgrading production processes and employee skills.

Resinit's goal is long-term collaboration with customers, by developing and delivering solutions that are sustainable, competitive, and create added value.

Core competencies

- Long experience of machining plastics
- Extensive expertise regarding plastic materials
- Meet stringent requirements regarding sustainability, quality, and delivery on time
- Experience of cleanroom production (ISO 8 level)
- Certified according to ISO 9001, ISO 14001 and ISO 13485
- Production management according to RESINIT LEAN and GMP principles ensures punctual and high-quality deliveries

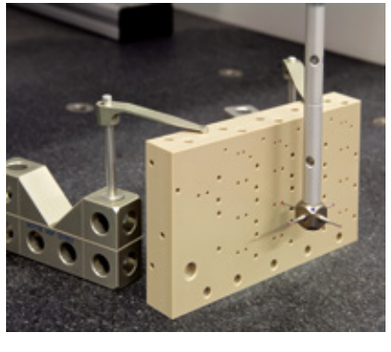
Industry sectors

- Medtech
- Foodtech
- Security & protection
- Infrastructure
- Aerospace
- Industry & OEM

Company size

Medium





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RFR SOLUTIONS

Company profile

We help you develop and manufacture solutions in stainless steel. We offer full support throughout the process, from design and development of prototypes to production, assembly, quality controls, and installation. Our engineers are often a part of our customers' project teams from an early stage, and assist with materials expertise, design and product optimisation. RFR Solutions is one of few suppliers who offer a complete production facility free from carbon steel.

Core competencies

We have a strong focus on technical expertise, quality and continuous improvement. Our Big Science projects are a key part of advancing our competencies. Here we work at the absolute forefront of technology and contribute to the development of new designs, materials (e.g. 316 LN) and production methods. We cooperate with scientists from several universities and help them develop equipment for some of the world's leading research facilities, such as CERN, MAX IV and ESS. The knowledge we gain from our Big Science projects benefits all our customers, regardless of industry, and enables us to ensure high quality and technical standards.

Industry sectors

Our expertise is well known and proven in many different applications in the fields of med tech, energy, food, Big Science, and green tech.

References

- Due to confidentiality agreements with all our customers and with our key suppliers we are not allowed to publish any information concerning our customers and reference objects.
- When it comes to Big Science we are currently working actively with CERN, ESS and MAX IV.
- For several years, we have also enjoyed close cooperation with universities in Luleå, Lund and Uppsala in various areas of expertise.

Company size

Small



RFR Solutions AB
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RISE, RESEARCH INSTITUTES OF SWEDEN

Company profile

RISE Research Institutes of Sweden, with more than 3 200 employees, develops and transfers technology for improving competitiveness and quality in society and industry. RISE works actively for the advancement of safety, conservation of resources, and production of a sustainable environment, using Sweden's broadest and most sophisticated range of laboratory resources.

RISE performs applied research and innovation in close liaison with industry, universities, and international partners. RISE also hosts the Swedish National Metrology Institute (NMI) with responsibility for national primary measurement references.

We perform research within metrological areas, developing new measurement standards and measurement techniques combining emerging scientific or industrial needs with RISE's highest metrology expertise. Activities include development of measuring methods and instruments on behalf of customers.

Core competencies

RISE has interest and skills in several technology fields and extensive experience and laboratory resources at room temperature as well as at high and cryogenic temperatures under various conditions.

- Vast experience and laboratory resources for electrical metrology. Both low and high voltage at DC, AC and pulses. At high voltage unique capabilities for onsite measurements.
- Optical metrology including refraction and spectroscopy with application in e.g. measurements of low pressure and vacuum.
- Developing equipment and methods for dissemination and synchronisation of time and frequency.
- Sensor development and methods for Positioning, Navigation and Time (PNT) including GNSS.
- Extensive experience and laboratory resources within high-frequency and microwaves. This includes both wired and radiated microwaves, including world-leading resources for antenna measurements and testing.
- Mechanical testing laboratories with sophisticated equipment for digital image correlation and acoustic emission and dimensional metrology ranging from nano- to global scales.
- Fire safety, including large laboratories with activities for prevention, limiting and extinguishing as well as investigations.
- Excellent experience in signal processing with applications in remote sensing and sensor fusion including modelling and simulation with applications.

References

- High voltage reference divider to CERN
- Various measurement systems to more than fifteen metrology institutes around the world
- National system for robust and correct time for the Swedish Internet infrastructure.

Company size

Large

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RYDVERKEN

Company profile

Rydverken is a family owned company that has manufactured machine parts since the start in 1970. Focus have been on highly complex single or low volume parts towards vehicle-/ and aerospace industry. We are certified according to: AS9100 and ISO9001.

Core competencies

- A complete supplier in machining (turning, milling and EDM)
- Marking
- CMM

Industry sectors

- Vehicle
- Aerospace
- Coil and yoke manufacturing

References

- GKN Aerospace
- SAAB
- Scanditronix Magnets

Company size

Small



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www.rydverken.se

Christofer Karlsson
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SALA BLY

Company profile
Sala Bly specialises in crafting lead products, including wire and ingots, tailored to customer specifications, complemented by on-site services and construction support. Our customers are found in a range of industrial sectors.

With a rich legacy in lead product manufacturing in Sala Sweden, Sala Bly stands out as a leader in quality. Our extensive product range, shaped by 130 years of industrial expertise, includes a wide selection of standard lead products, but we can also tailor solutions to meet our customers' unique preferences and specifications.

Core competencies
- Manufacture of lead products, including wire, bricks, counterweights, ballast, sheets, tubes and ingots
- Extensive experience of lead-related assignments
- Eco-friendly manufacturing processes with recycled lead
- Workforce with long experience of handling lead

Industry sectors
- Nuclear
- Research
- Building
- Medical
- Wholesalers and workshops

References
- Westinghouse nuclear fuel factory
- Gems pet cyclotron facility
- Gammadata
- Forsmark, Ringhals, Oskarshamn nuclear power plants
- Nutronic

Company size
Small



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SAVANTIC AB

Company profile
Savantic AI Lab specializes in providing tailor-made, AI-driven solutions to tackle complex business challenges.

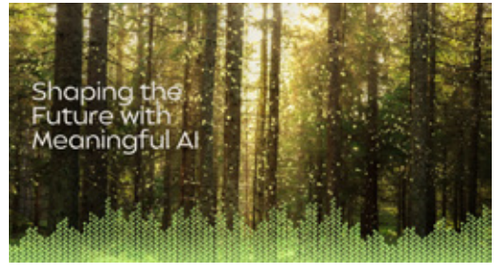
The company focuses on leveraging AI to drive complete industry transformation, utilizing machine learning, natural language processing, computer vision, and predictive analytics. Savantic's solutions are built on existing system bases and integrated with sensor technology, robotics, and data pipelines. With a strong emphasis on delivering measurable ROI, Savantic helps clients optimize operations, enhance decision-making, and achieve sustainable growth. The company's expertise is backed by a team of AI scientists with PhDs, ensuring deep understanding and effective implementation of AI technologies.

Core competencies
- Artificial Intelligence (AI)
- Machine Learning (ML)
- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision
- Predictive Analytics
- Explainable AI (XAI)
- Generative AI

Industry sectors
All

References
- NCC
- Westinghouse
- PostNord
- Boule
- Ahlsell
- Vattenfall
- Telia Company
- Tobii
- Xylem

Company size
Small



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SCANDINOVA SYSTEMS

Company profile
ScandiNova's groundbreaking technology makes the company a world leader in development and production of pulsed power systems with high power levels. The product range covers pulse modulators, generators, turnkey radio frequency (RF) systems, and e-gun modulators, all using solid-state technology. Our modular design enables us to offer systems that handle a wide range of loads and needs all the way up to RF peak power of 100 MW.

As one of the few players in the market ScandiNova has the capability to take care of everything, including integrating the magnetron/klystron, cooling system and low-level RF. Reliable and high-precision pulses lead to improved control, performance, significantly decreased power consumption, and lower maintenance costs.

ScandiNova has clients in 40 countries, mainly in Europe, Asia and North America. The company was founded in 2001, has its head office in Uppsala, Sweden with 65 employees, and has sales representatives all over the world.

Core competencies
- Pulsed power systems
- Pulse modulators
- Pulse generators
- E-gun modulators
- RF-units

Industry sectors
- Science: Free electron lasers, synchrotron light sources, compact light sources, collidors proton booster research, isotop production research, gamma sources
- Medtech: Radiotherapy, proton therapy
- Industry: Cargo scanning, radar, industrial X-ray, sterilisation, electroporation

References
- CERN: Pulse modulators for CLIC test stand
- PSI/SwissFEL: Pulse modulators for the accelerator and for the injector
- MAX IV: Turnkey RF Systems, including pulse modulators, klystrons and other RF parts
- DESY/European XFEL: Pulse modulators for use in diagnostics
- ELI-NP: Pulse modulators for the gamma source
- ENEA: Pulse modulators
- Eindhoven University of Technology: RF system for a compact and portable X-ray source

Company size
Medium



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SCANDITRONIX MAGNET

Company profile
Scanditronix is focused on production of magnets for accelerators. Our extensive experience enables us to find the best possible ways of realising customer needs. Scanditronix Magnet uses its long experience and professional engineering know-how to design and manufacture magnets for accelerators and other applications. We work closely with our customers in order to tailor magnets to suit each specific application.

Core competencies
- Magnetic field simulations
- Magnet design
- Coil and yoke manufacturing
- Magnetic field measurements
- Project management

Industry sectors
Manufacturing of electromagnets

References
- Major accelerator laboratories: CERN, Rutherford, FERMI, SLAC, MAX IV, DESY, PSI, GANIL, and more,
- Major medical companies in the field of cancer treatment

Company size
Medium



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SCANFIL MALMÖ

Company profile
For over 45 years, Scanfil has been the trusted manufacturing partner and system supplier for clients with challenging needs in the international electronics sector. Driven by design and fueled by passion for our customer's success, Scanfil is leading the industrial transformation by focusing on sustainability and human-centric management

Core competencies
- EM
- Turn-key solutions
- SMT
- FCT
- MES
- ISO13485
- Supply chain
- Logistics
- ICT
- Value analysis
- Contract manufacturing
- Connectivity
- IoT

Industry sectors
- Industry
- MedTech
- Automation
- Energy
- Connectivity
- Cleantech

References
- KONE
- Thermo Fischer
- GE
- ABB
- Alfa Laval
- Toyota

Company size
Large



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SCIENTA OMICRON

Company profile
Scienta Omicron is the leading innovator in surface science. The company provides top capabilities for the research community through its technology leadership in electron spectroscopy, scanning probe microscopy and thin film deposition. These capabilities are available in customised solutions from one source, with worldwide sales and service groups.

Core competencies
Scienta Omicron provides high service levels. Our aim is to be a partner for customer success in research and analysis. We have extensive knowledge and experience. We offer support for more than 30 different experimental techniques, and for each one you will find a number of specialists who can support project planning, assessment of technique suitability, system design, equipment training, applications support and system upgrades.

Our main operation is based in Uppsala, Sweden and Taunusstein, Germany, with sales and service representation in all major markets around the globe.

Industry sectors
- Materials Innovation
- Electron Spectroscopy
- Scanning Probe Microscopy
- Thin Film Deposition

References
MAX IV laboratory

Company size
Medium



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SKULTUNA INDUFLEX

Company profile
Skultuna Induflex innovates and delivers technical flexible laminate applications for products that make everyday life easier. We do this by applying our expertise and tech competence from our three locations in Sweden, Belgium and China. Our flexible laminates are found in a wide variety of products, from cables, antennas and rear-view mirrors to greenhouse curtains and luxury packaging. We are continuously developing new applications to meet, and raise, the standards in our fields.

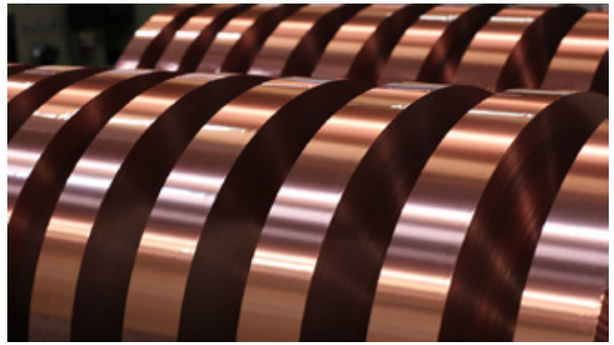
Core competencies
By combining and laminating materials such as plastic films, metal foils, paper and cardboard, we create an almost infinite number of flexible laminates. These feature properties that make it possible to solve problems in new ways, regardless of whether the laminates are used for shielding, barrier, conduction, reflection, appearance, or other purposes. Our company dates back to 1607.

With our innovative, reliable, flexible and quality-driven approach we look forward to the coming centuries. Skultuna Induflex – innovating flexible laminate perfection.

Industry sectors
- Energy & climate control
- Insulation
- Barriers & shielding for electrical and electronics
- Flexible circuits
- Antennas
- RFID & heating elements
- Packaging and engineered laminates for advance applications
- Food-approved paper-based laminates

References
ABB Hitachi Energy

Company size
Medium



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SOUTH POLE

Company profile
South Pole is a system integrator with over 20 years experience in Linux and high-performance computing (HPC). We do everything from building our own servers in our ISO certified production in Stockholm, to implementing the HPC or Storage solutions onsite at our customers.

Core competencies
- HPC
- Linux
- Storage
- GPU/AI
- Virtualisation

Industry sectors
- Universities
- Research institutes
- Military/defence
- Media and entertainment
- xSP

References
- Chalmers University of Technology
- Uppsala University
- Scania
- Net Insight

Company size
Small



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STAVANGER STEEL

Company profile
Steel foundry producing complex high alloyed steel in combination with advanced geometries. We also take care of subsequent machining and finishing operations. We can contribute with a flexible product, using the correct material for the application. We take a natural seat early in development projects to reap the benefits of using castings. Forged stainless/high alloyed material can be supplied through our sister company.

Core competencies
- Expertise in materials
- Steel
- Stainless steel
- High-alloyed steel
- Metallurgy
- Heat treatment

Industry sectors
- Marine
- Process
- Defence
- Oil & Gas
- Hydropower

References
- Rolls Royce
- Somas
- National Oilwell Varco
- Andritz

Company size
Small



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STREAM ANALYZE SWEDEN

Company profile
Stream Analyze provides a platform for scalable and interactive analytics of data streams on edge devices. This software, sa.engine, is capable of running transparently on various devices, ranging from supercomputers, through servers, and all the way down to electronic control units and embedded devices. Stream Analyze has extensive experience in integrating sa.engine in various environments and edge devices, catering to a wide variety of analytics and machine learning use cases.

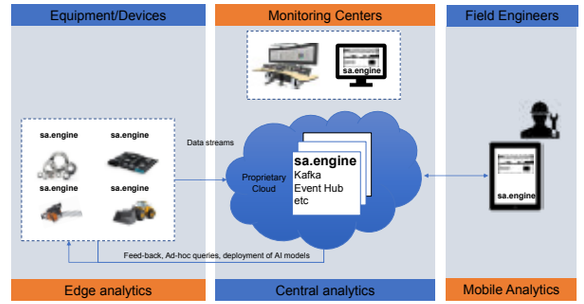
Core competencies
- Interactive edge analytics engine
- Query processing and optimisation engine
- Scalable data stream processing
- Database technology
- Scalable and parallel data processing, and machine learning
- Data integration and mediation
- Scientific data management

Industry sectors
- Automotive
- Manufacturing
- Utilities
- Science

References
Stream Analyze is based on the scientific work performed at Uppsala Database Lab (UDBL). Over the years, UDBL has applied its software in Big Science, including:
- ASTRON 2004-2006: Data stream analytics for the LOFAR antenna array
- CERN 2002-2007: Query optimisers for software searching Higgs Smart Vortex
- Data stream analytics for industrial applications
- Consortium member and co-founder of eSSENce, a research network for scalable data stream processing for e-science

Company size
Small

sa.engine:
Platform for data stream analytics in real-time on edge devices



STREAM ANALYZE

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STUDSVIK

Company profile
Studsvik offers a range of innovative technical solutions to its customers, creating superior value by improving reactor performance, and reducing risks and costs across the nuclear and radioactive material lifecycle. Studsvik offers advanced engineering and consultancy, fuel and materials testing, fuel and reactor management software, as well as lifecycle management of nuclear and radioactive hazards, decommissioning of nuclear facilities, and designing radioactive waste management processes.

Studsvik Fuel and Materials Technology leads innovation by thinking differently in the nuclear life cycle, and provides solutions to customers by combining expertise, unique facilities, and external networks.

Studsvik Scandpower is the nuclear industry's experts in nuclear fuel and reactor physics, trusted and relied upon by more than half of the world's nuclear power plants to guide management of the nuclear fuel cycle.

Studsvik Waste Management Technology offers licence transfer of innovative patented waste treatment technologies.

Studsvik Decommissioning and Radiation Protection Services is a leading service provider for the nuclear industry, in the areas of radiation protection, engineering, decommissioning, dismantling and decontamination.

Studsvik Isotopes supplies high quality sealed source isotopes for medical and industrial applications from its dynamic nuclear licensed manufacturing facility in Sweden.

Core competencies
Fuel testing, fuel qualification, accident-tolerant fuel, materials testing, plant life management, hot cell technology, final storage research, transport of radioactive materials, nuclear transportation, sample irradiation, testing equipment, laboratory equipment, bespoke test rigs, development, research, reactor components, high dose environments, radioactive waste management technology, radioisotopes, medical isotopes, industrial isotopes, reactor analysis software, spent fuel analysis, storage optimisation, radiation protection, engineering, decommissioning, dismantling, decontamination.

Industry sectors
- Nuclear
- Energy
- Research
- Engineering
- Medicine
- Space

References
For references please visit www.studvik.com

Company size
Medium



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SVEDALA MEKANISKA

Company profile
Svedala Mekaniska offers machining services, such as turning and milling, in both large and small diameters in different materials. Through partners, we can also help clients with welding, laser and waterjet cutting, and various surface treatments.

Core competencies
We can offer high-quality turned and milled parts in different materials. As a business partner, we are flexible and deliver on time. We have our own measuring equipment.

Industry sectors
- Research and development
- Marine companies
- Packaging
- Mining

References
Scanditronix Magnet

Company size
Small



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SVEN JINERT

Company profile
Jinert began operations in 1988. The head office is in Hässleholm, and the company has facilities in 20 locations around Sweden. We offer modern equipment for all lifting assignments, special transports, and handling of heavy goods.

We are constantly upgrading our large fleet of vehicles and other equipment to ensure we hold our position as a leader in our sector. No assignment is too large or small, and we offer complete solutions in which our skilled employees perform all kinds of lifting and transport services.

Core competencies
- Lifting
- Transport
- Launch systems

Industry sectors
- Construction
- Transport
- Manufacturing
- Energy
- Industrial

References
- Lifting, transporting and launching assignments all over Scandinavia.
- ESS

Company size
Large



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SWEDISH MICROWAVE

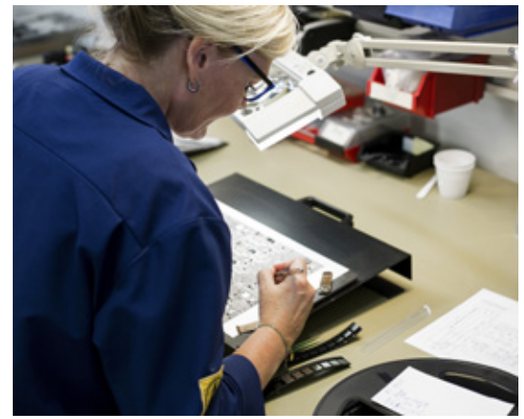
Company profile
Since 1986, Swedish Microwave (SMW) has been a leading manufacturer of professional low-noise block downconverters (LNB) for the ground segments in the satellite market. All work is in-house, which enables us to provide custom-design products, short delivery times, high flexibility, and quick service and support. Swedish Microwave designs and manufactures its products in Motala, and has shipped products to more than 134 countries. Today we are Europe's oldest manufacturer of LNBs, serving a global market.

Core competencies
- RF design for in-/outdoor use.
- RF production
- Satellite communications
- Telecommunications
- Lab & tests up to 43 GHz
- Production of custom protypes
- RF over fiber

Industry sectors
- Satellite communications
- Electronics and radio frequency
- Telecommunications
- Research facilities

References
World leading telecommunication customers in 134 countries.

Company size
Small



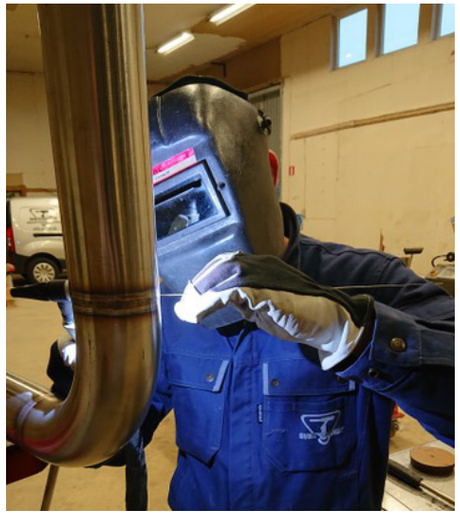
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SVETSTJÄNST

Company profile
Installation in stainless steel pipes. Installation takes place, for example, in nuclear power plants and food companies and biogas, which means that the work is carried out with high levels of accuracy and quality. We work according to the various ISO criteria, e.g. 5817 and 3834.

We own our WPQR, which includes IWS training. Welding staff in our team have licences EN 287-1 141 T BW FM5 S s1-2 D10, wall thickness 1.0-4.0 mm H-L045 ss gb. We also hire out staff with different skills to industry.



Core competencies
- Quality
- Expertise
- Cost relevant

Industry sectors
- Process
- Food & pharmaceutical
- Biochemistry
- Nuclear power

References
- Tetra Pak
- Alfa Laval

Company size
Small

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TDV CONSULTING

Company profile
We offer highest-quality technical design visualisation of products, systems or facilities, using the latest VR/AR and WebGL technologies. Based on customer needs we can create interactive games, presentations, or even create fast 3D digital prototypes of any ideas. The end solutions/product can be viewed and examined in VR together with other users across the world. We also provide senior consultants for PLM, EAM and ERP systems, supporting our customers with requirement management, business case development, business system analyses, project management, technical implementation, and roll out.

Core competencies
- VR
- AR
- WebGL
- PLM
- ERP
- EAM
- Business System Analyst
- Project Management
- Graphical 3D Design
- Interactive Design

Industry sectors
- Science
- Mining
- Telecom
- Engineering
- Packaging

References
ESS

Company size
Small

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TECHNIA

Company profile
Technia offers expert consultancy within the fields of structural engineering, numerical simulation and technical support. Our expertise covers mainly industrial sectors, including energy, infrastructure & buildings, industry and Big Science. Technia provides structural design and simulation in advanced projects, such as Big Science facilities and nuclear power plants, for national and international stakeholders such as plant operators, suppliers, and safety authorities.

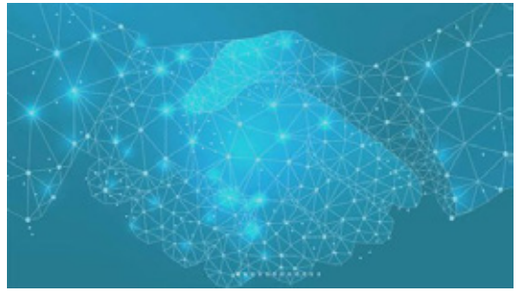
Technia assists in establishing design requirements and design provisions at all levels, ranging from general codes and standards to detailed design specifications at plant/building level. Working closely with contractors, utilities, suppliers and regulatory bodies, we provide assistance as expert reviewers in projects to enable accurate decisions, and to minimise project risks.

Core competencies
Structural engineering, structural design, numerical simulation, finite element, design requirements, design criteria, third party review, radiation safety, physical protection, power plant, nuclear facilities, reactor containment, safety-related buildings, extreme loading, earthquake, airplane crash, dropped objects, explosions, missile, high pressure, high temperature, dynamic analysis, non-linear analysis, impact, regulations, codes, standards, eurocodes, asme, aci, etc-c, rcc-cw, rcc-m.

Industry sectors
- Energy
- Infrastructure & buildings
- Industry
- Big Science

References
For references, please visit: https://scanscot.com/corporate/reference-projects/

Company size
Small



TECHNIA
PART OF ADDNODE GROUP

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TELEDYNE SP DEVICES

Company profile
Teledyne SP Devices designs and manufactures world-leading modular data acquisition and signal generation instruments. Our products use patented calibration logic, the latest data converters, and state-of-the-art FPGA technology, resulting in an unrivalled combination of high sampling rate and resolution.

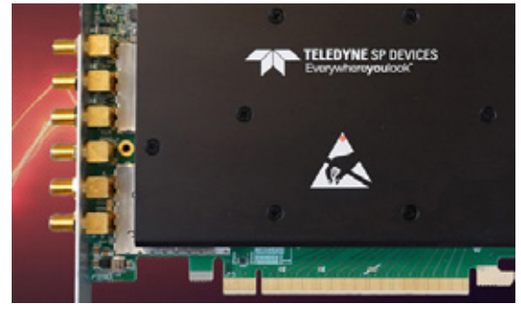
Products are available with a range of application-specific features and embedded, real-time signal processing. This helps our customers overcome production bottlenecks, shortens time-to-market, and provides system-level advantages within a wide range of application areas. SP Devices' products are employed across a wide variety of industries, including analytical instruments, remote sensing, scientific instrumentation, and medical imaging.

Core competencies
- Test and measurement
- Data acquisition and signal generation
- Hardware, firmware, and software design and implementation
- System-level design and implementation

Industry sectors
- Particle physics
- Radio astronomy
- Free-electron lasers
- Medical fusion

References
Teledyne SP Devices is a trusted supplier to a wide range of industries and applications. Our data acquisition and signal generation products are deployed in industrial and research facilities across the world, with examples including the neutron time-of-flight (nTOF) facility at CERN, multiple synchrotron, free-electron laser, and fusion facilities world-wide as well as airborne radar systems for Saab and the German Aerospace Center (DLR). Our products are also integrated in system-level solutions by major original equipment manufacturers (OEMs) from multiple Industry sectors.

Company size
Large



TELEDYNE SP DEVICES
Everywhereyoulook™

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Pierre Vicomte
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TESSELLA

Company profile
AI + Data Science. Our AI work enables research teams to extract meaning from raw experimental data, free up experts and shrink the backlog of experimental results that need to be analyzed.

Cloud + HPC. We work with research organizations to maximize the potential of cloud-based platforms to provide distributed access and the shared high-power computing resources scientists need.

Robust Systems + Software. In addition to handling large volumes of data and complex calculations, systems must be robust and efficient, able to harness new instruments that support more complex experiments and respond to the multiple needs of a sophisticated scientific user base. Over the last 40 years, we have worked with our clients to meet these challenges.

Core competencies
- AI + Data Science.
- Cloud + HPC
- Robust Systems + Software

Industry sectors
- Big Science
- Life Science
- Aerospace
- Energy
- Automotive
- Oil&Gas
- Retail
- Finance
- Consumer

References
- www.tessella.com/case-studies/isis-and-tessella-boost-output-at-world-leading-neutron-source
- www.tessella.com/ai-cloud-computing-future-for-scientific-research
- www.tessella.com/news/data-analytics-consultancy-tessella-secures-software-agreements-support-global-scientific-breakthroughs
- www.tessella.com/case-studies/ceda-tessella-collaboration

Company size
Large

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TEXOR

Company profile
Texor is a subcontractor of mainly machines and sub-assemblies for the life science and food sectors. Our customers and end users are mainly global biotech and biopharma companies. We offer the best experience of machining, welding and surface treatment of stainless steel materials, such as 316L, 904L and Hastelloy. We are often involved in our customers' R&D projects with our +50 years of experience of production and assembly of stainless steel components. Texor has a worldwide supplier base in terms of elastomers, plastic and stainless steel components, and they all meet the highest quality demanded by the biopharma industry.

Core competencies
- Traceability
- Documentation
- Narrow tolerances
- Stainless steel
- CNC
- Welding (TIG, MIG, MAG, orbital)
- Grinding/polishing
- Electro-polishing
- Certification (PED, ASME, FDA, USP)
- 3rd party inspections (Inspecta, ASME, Force, etc)
- Projects and customisation with very short lead times

Industry sectors
- Pharmaceutical
- Food

References
- GE Healthcare
- Merck Millipore
- Tetra Pak
- Alfa Laval

Company size
Medium



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THECA SYSTEMS

Company profile
Theca helps organisations unlock the full value of their data by transforming enterprise information into actionable reports, insights, and forecasts using advanced AI. With a senior, compact team combining engineering, product, and business expertise, we focus on delivering practical solutions that address real operational needs.

We build where AI removes friction. Our capabilities include enterprise search, retrieval-augmented generation (RAG), and decision-support solutions developed securely on top of each organisation's own data. Theca enables faster access to knowledge, improved decision-making, and AI systems that meaningfully support everyday work.

Core competencies
AI-driven search and recommendations, industry-focused knowledge management, retrieval-augmented generation (RAG), and decision-support solutions built on enterprise data. Theca enables organisations to access information faster, improve operational decisions, and turn data into actionable insights.

Industry sectors
- Real estate
- Property management
- Sustainability (risk reduction and operational optimizations)

References
- Professor Bengt Nilsson - Malmö University
- Professor Per Runesson - Lund University

Company size
Small

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TSE – THERMAL SPRAYING & ENGINEERING

Company profile
We supply coating solutions, including machining, to all sectors. We extend lifetime and increase durability/sustainability and add performance/ properties to all types of applications. We focus on new applications for OEMS and repairs of applications to extend their lifetime.

Core competencies
- Thermal spraying
- HVOF
- HVAF
- Plasma
- Flame spraying
- Grinding, milling, turning, polishing, all on-site

Industry sectors
- Steel
- Pulp & paper
- Energy
- Process
- Chemical
- On/off-shore
- Oil & gas
- Defence
- Plastic

References
- University West
- ABB: force measurement
- Catator
- Metalock/Midrock

Company size
Small



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UDDCOMB INTERNATIONAL

Company profile

Uddcomb is a global leader in the development and execution of advanced welding solutions. We specialize in remote-controlled welding equipment and onsite execution of advanced welding repair projects for critical components and equipment.

With a strong focus on precision, innovation, and quality, we serve industries with the highest technical demands, ensuring reliability and operational excellence for our customers worldwide.

Core competencies

- Mechanical design
- Structural analysis
- Welding engineering
- Metallurgy
- Advanced welding
- Equipment engineering
- Tooling engineering
- Project management
- Execution crew for advanced onsite welding repair and life time extension projects
- Material laboratory for urgent analysis of material samples

Industry sectors

- Nuclear
- Oil & Gas
- Process
- Offshore
- Pulp & Paper
- Steel
- Mining

References

Manufacturing of advanced testblocks for NDT to the nuclear market in Europe

Company size

Small



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VISITEK

Company profile

VISITEK offers products for radiation protection. We have a large portfolio of different products for radiation shielding, such as doors, windows, tool protection, and clothing.

Core competencies

- Radiation protection
- Radiation

Industry sectors

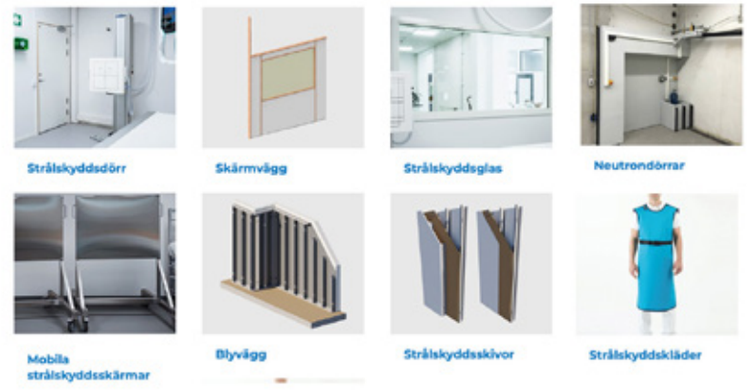
- Hospital
- Pet hospitals
- Dentists
- Industrial production

References

All major hospitals in Sweden.

Company size

Small



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VTT

Company profile
VTT are experts at manufacturing high-quality components, tools, and prototypes, and machining of all kinds of materials. Our clients turn to us to develop ideas and produce a single or a small number of units. VTT has extensive human resources and leading-edge expertise in contract manufacturing, machine building, and positioners.

Core competencies
- Construction
- Toolmakers
- Processing
- High-quality components
- Series manufacturing

Industry sectors
- Mining
- Automotive
- Space

References
- Atlas Copco
- Epiroc
- Boliden
- Esrange

Company size
Small



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VYSUS SWEDEN

Company profile
Vysus Sweden is part of the global Vysus Group. The Vysus Group is a leading, independent provider of digitally enabled, engineering and technical consultancy expertise, supporting owners and developers of energy, power and complex industrial assets and infrastructure. The Swedish entity is predominately focused on supporting the nuclear and railway industries with different services related to safety and licensing. We also provide expertise in areas such as Business Continuity Management (BCM), Crisis Management, and Risk and Vulnerability Analysis to clients outside the nuclear and railway domains.

Core competencies
- Safety
- Risk management
- Risk analysis, probabilistic
- Safety case
- Business continuity
- Crisis management
- Emergency preparedness
- Decommissioning
- Radiological waste management
- Sustainability
- Vulnerability analysis
- Nuclear safety
- Railway safety
- Technical engineering
- Training

Industry sectors
- Railway
- Nuclear

References
- European Spallation Source (ESS)
  We are supporting ESS in their licensing process in relation to the Swedish Radiation Safety Authority (SSM). Our support to ESS includes services related to hazards and risk analysis, deterministic and probabilistic safety assessment, fire safety, radiation safety, and radiological waste management.
- OKG AB
  We have been supporting OKG for over 25 years with services relating to probabilistic safety assessment, technical specification, and keeping their safety analysis report documentation up-to-date according to relevant national and international guides and requirements.
- SJ AB
  We provide support to SJ in handling safety management, risk management and authority approval for new trains by use of Common Safety Method for Risk Evaluation and Assessment CSM-RA, regulation (EU) 402/2013 and EN50126, during the tender and project phase.
- Swedish Transport Administration (Trafikverket)
  We support the Swedish Transport Administration in applying the Common Safety Method for Risk Evaluation and Assessment.



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WESTINGHOUSE ELECTRIC SWEDEN

Company profile
Customised NDE inspections with extensive experience in both the nuclear and non-nuclear market. Manufacture of ultrasonic and eddy current probes/transducers. Engineering solutions. Manufacture of nuclear fuel/control rods.

We carry out inspections and supply equipment to nuclear power plants around the world.

Core competencies
- NDE inspections
- High-radioactive tolerance equipment/ instruments
- Fuel manufacturing

Industry sectors
- Nuclear
- Energy

References
N/A

Company size
Large



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WS MEKANISKA

Company profile
WS Mekaniska is a subcontractor with the expertise to take care of the entire chain, from design, welding, machining, surface treatment, and assembly to final testing of machine equipment and advanced components. Our production is characterised by short lead times, flexibility and skilled staff.

Core competencies
Advanced 5-axis milling and CNC turning with rotating tools in various materials, e.g. copper, stainless steel, alloy steel, aluminum, and carbides. Project management of the entire value chain.

Industry sectors
- Packaging
- Automotive
- Mining
- Accelerators
- Research
- Manufacturing

References
- Norden Machinery
- MAX IV
- Tetra Pak
- Metso
- Sandvik
- Koenigsegg
- GPI systems

Company size
Small



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X-OFFICIO

Company profile

X-officio provides legal, governance, procurement and management support to inter-governmental and national research infrastructures, ERICs, research facilities and laboratories used by the science community to conduct research and foster innovation.

X-officio supports departments of administration, COOs, DG/CEOs and national ministries in all matters pertaining to legal, governance, procurement and management in the process of establishing, constructing and operating a research infrastructure. We also support business and contractual partners in legal and procurement matters.

Core competencies

- Legal / Law
- Procurement
- Governance

References

- ESS
- ESRF
- European X-Ray Free-Electron Laser
- European Solar Telescope
- Cherenkov Telescope Array Observatory
- European Plate Observing System
- EMSO ERIC
- LifeWatch ERIC
- CESSDA ERIC
- DiSSCo
- E-RIHS
- eLTER RI
- OPERAS
- CLARIN ERIC
- ECRIN ERIC
- DANUBIUS-RI
- CERIC-ERIC
- EMPHASIS
- OPERAS PP

Company size

Small



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YSDS

Company profile

YSDS offers special worldwide logistics solutions for transport of one of a kind, high-value, temperature-sensitive, or dangerous goods with complex destinations. A "one stop shop" combining pickup, packaging, documentation, and last-mile delivery with a high level of service, risk mitigation, and flexibility.

Core competencies

Quality global shipping solutions, extensive experience of handling complex goods, proactive and direct action regarding potential deviations to mitigate risk.

Industry sectors

- Life sciences
- Mechanical engineering
- Art and IT

References

- Priority door-to-door transport of GMS-T satellite in 2020 from Kista, Stockholm to Rocket Lab, Mahia, New Zealand. Help with documentation and ATA-Carnet. All goods had to be on site in Mahia, New Zealand 1 month before launch. Specialist transport of sensitive and valuable equipment with minimal impact and turbulence.
- Transport of MATS satellite in 2022 from Kista, Stockholm to Rocket Lab, Mahia, New Zealand. Identical door-to-door transport as previous assignment in 2020. Assistance with documentation, control and review of documents, priority flight, customs clearance, warehousing, and dedicated delivery on specialist truck.
- Logistics solutions involving shipment of Swedish satellite-related modules to and from Japan in 2021 and 2022 for IRF Uppsala, Airbus, and ESA. Other transports between Sweden and France.

Company size

Medium



YSDS
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ÖRNALP UNOZON

Company profile
Örnalp Unozon AB specializes in application based thermal and mechanical design, manufacturing and installation of tube heat exchangers, pressure vessels, piping systems and other process equipment to several industry sectors. Our manufacturing facilities are in Örnsköldsvik with around 50 employees and 5 000 m2 manufacturing area we are staffed to take on almost any project.

Core Competencies
Örnalp Unozon AB specializes in application based thermal and mechanical design, manufacturing and installation of tube heat exchangers, pressure vessels, piping systems and other process equipment to several industry sectors.

Industry Sectors
- Nuclear
- Oil & Gas
- Power plants
- Marine Chemical
- Pulp & Paper
- Mining
- Life Science

References
Heat exchangers, reactors, columns and pressure vessels to all industry sectors. Please feel free to ask for detailed references.

Company size
Medium



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ÖSTERBY GJUTERI

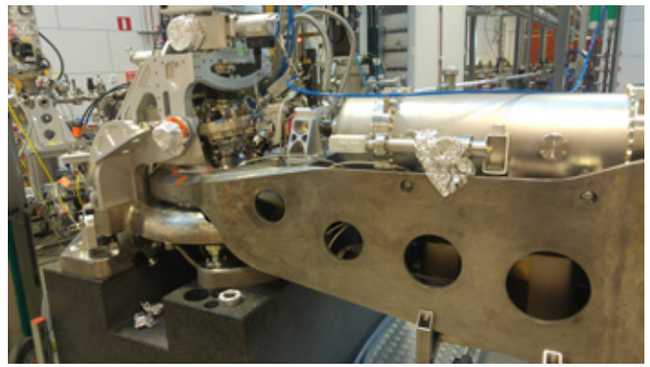
Company profile
Österby Gjuteri produces steel casting in short and medium batch sizes. The materials cast are everything from non-alloyed steel up to stainless steel and super alloys such as cobalt- and nickel-based alloys. Österby Gjuteri specialises in manufacturing finished products, so the operation consists of a foundry with a modern machining workshop, with the possibility to assemble components to deliver a complete product. Normal casting weights are from 50 kg up to 7000 kg.

Core competencies
- Steel castings
- Stainless steel castings
- Machining
- Heat treatment
- 3D-scanning

Industry sectors
- Energy
- Maritime
- Pulp & paper
- Offshore
- Mining
- Heavy industry
- Chemical

References
- Wendelstein 7-X
- Max IV
- Valmet
- Marine Jet Power
- Vattenfall
- Alfa Laval
- Kemira

Company size
Medium



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2B BEST BUSINESS

Company profile
2B was founded in 2005, since when it has grown organically and now has a turnover of SEK 180 million. 2B offers a wide range of production methods, such as high-tech machining for the medical industry and casting parts in all materials, along with methods with stringent demands on tightness, complete assembled units, etc.
We have experience of handling many types of material, such as tungsten, molybdenum, titanium, magnesium, Mu-metal, and lanthanum hexaboride (Lab6).

We can usually meet your requirements – the more challenging the better! Sizes range from a diameter of 0.1 mm up to parts weighing several tonnes.

Core competencies
- Mechanical components for vacuum environments
- High-demand casting
- Production methods
- Finding the best method for each part

Industry sectors
- Medical
- High power
- Low power
- Automotive
- General industry

References
- ABB
- NKT
- Parker

Company size
Small



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4PL CENTRAL STATION NORDIC

Company profile
We customise supply solutions to reduce costs and improve efficiency. We are founding members of RI Logistica, a Danish non-profit organisation, aiming to help other RIs outside ESS, for which we have been an outsourced logistics department since 2015. Our common experiences with ESS have become the model for RI Logistica.

Core competencies
- Supply chain
- Procurement
- Tenders
- Transport management systems

Industry sectors
All

References
- ESS European Spallation Source ERIC
- RISE Research Institutes of Sweden
- RI Logistica

Company size
Medium



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HOW TO REGISTER AND SUBMIT BIDS (BISS LATHUND)

BiSS Lathund is a useful guide for both suppliers who regularly submit tenders and those taking their first steps into the Big Science market.

Written in Swedish, the guide explains how research facilities process submitted tenders and includes links to more detailed information for each facility.

Find the Big Science Procurement Guide (BiSS Lathund) at www.bigsciencesweden.se.



big science sweden

Industrial Liaison Office (ILO) • Knowledge Transfer • Careers

CHALMERS

LUND UNIVERSITY

LULEÅ UNIVERSITY OF TECHNOLOGY

UPPSALA UNIVERSITET

RI.SE

Teknikföretagen

REGION SKÅNE

IUC SYD