

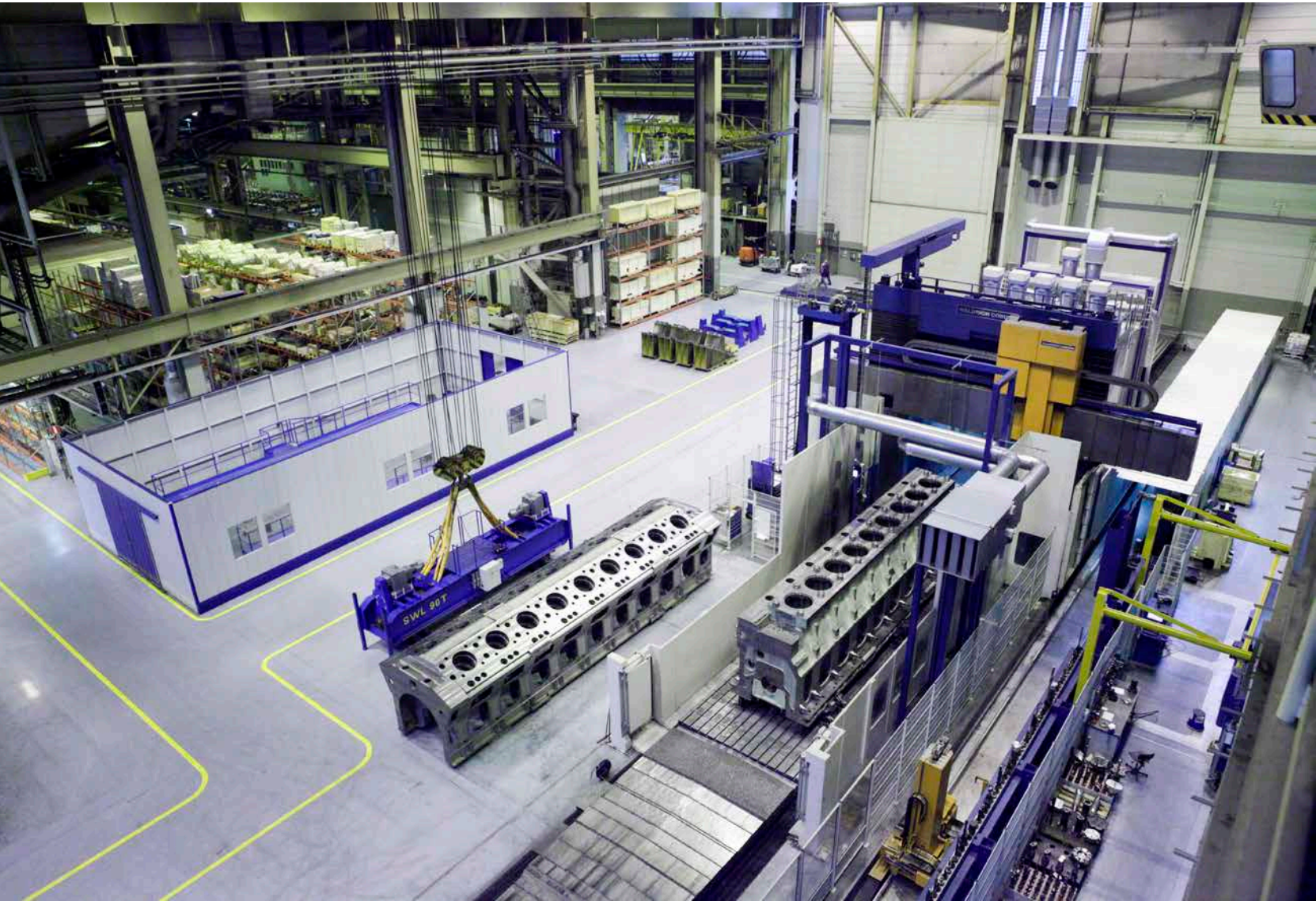


 **K O N E P A J A**
HÄKKINEN OY

Your trusted partner in machining



Worldwide capacity



Häkkinen Group is a Finnish-owned subcontracting group that was established in 1980. The company employs more than 300 professionals in four locations.

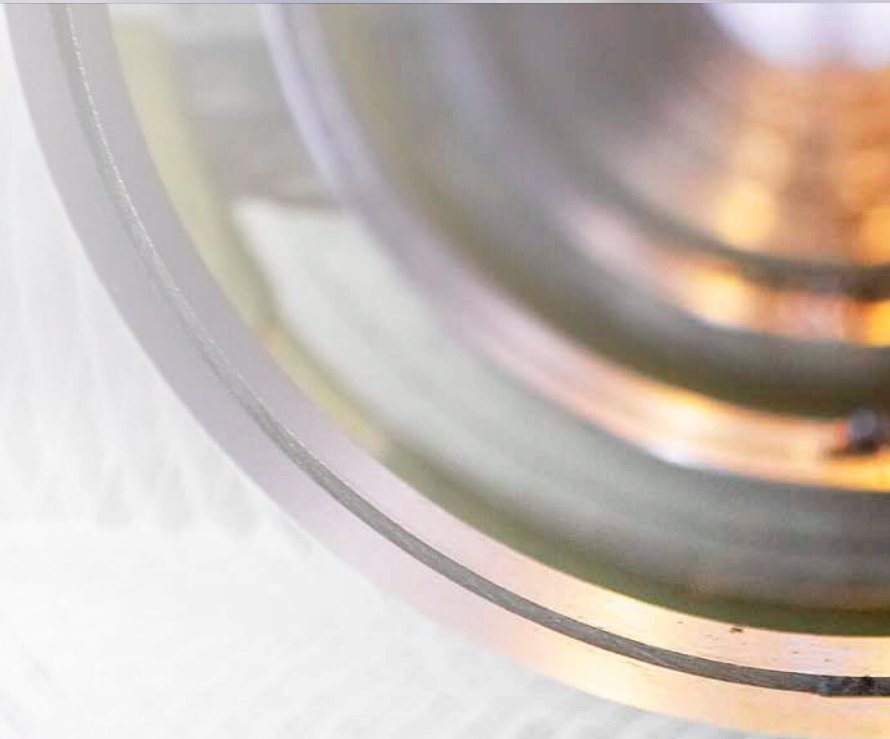
We are a modern, highly specialised professional in heavy and mid-weight machining and fabrication of steel structures. Our skilled team continuously develop innovative products in close cooperation with our customers to meet the diverse and complex challenges facing manufacturing industries today. Our particular areas of expertise are the boring and milling of large, dimensionally accurate components and turning of large symmetrically rotating components, deep-hole drilling and honing.

Our group structure makes it possible for us to serve our customers comprehensively, from structural steel fabricated in Rautpohja to complex machined components used in demanding applications.

■ ■ ■ We invite you to take a closer look at our operations!



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Best quality



We improve our customers' competitiveness by converting their engineered designs into high-quality components.

Our continuous investments in advanced production technologies, quality assurance and expertise of our employees help us to develop long-term cooperation with our customers.

Safety first



Our staff is committed to the development of safety, quality and environmentally friendly production according to the principles of the continuous improvement in compliance with all applicable laws and regulations.

Our strength lies in flexible operations and high level of technical capabilities. Our long-term customer relationships prove that we are a trustworthy business partner.

Modern measurement methods



We ensure the geometry and dimensional tolerances of our components within a precision of thousandths of a millimetre. We have a comprehensive range of conventional and geometrical measurement devices in house.

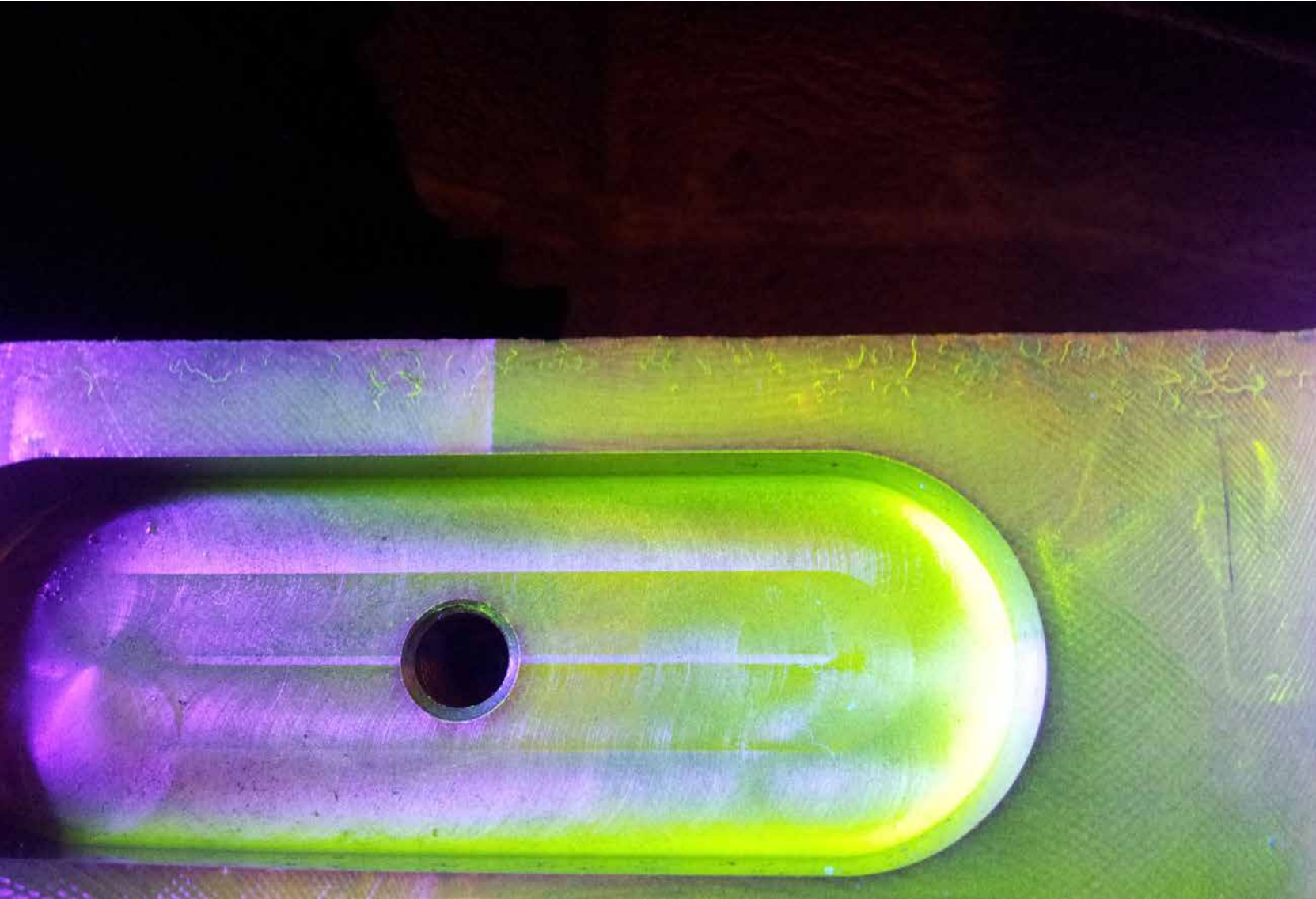
LEITZ PMM-G 604030 | standard: EN ISO 10360

■ 6000 mm x 4000 mm x 3000 mm

SIP | standard: EN ISO 10360

■ 3000 mm x 1500 mm x 1500 mm

NDT-Testing (Non-Destructive testing)



Available testing methods

- Visual testing
- Magnetic particle testing
- Liquid penetrant testing
- Hardness testing
- Ultrasonic testing
- Radiographic testing
- Positive material identification
- Coating thickness measurement



Offshore oil and gas



It is an absolute requirement that offshore components used in extremely challenging conditions are safe, of the highest quality and reliable. We have invested significantly in our production capacity in this sector and developed production methods in close cooperation with our customers.

Offshore components include diverse components for the oil and gas industry, such as massive valve bodies used in deep-sea oil and gas production. In addition to machining them, we also carry out quality control, overlay welding and heat treatments.



Components of the offshore industry

- XMT-valve bodies
- TIE IN -components
- Components of the Subsea-pumps
- WOS-components
- Well Head-components
- Components of drilling systems
- FPSO Turret-components

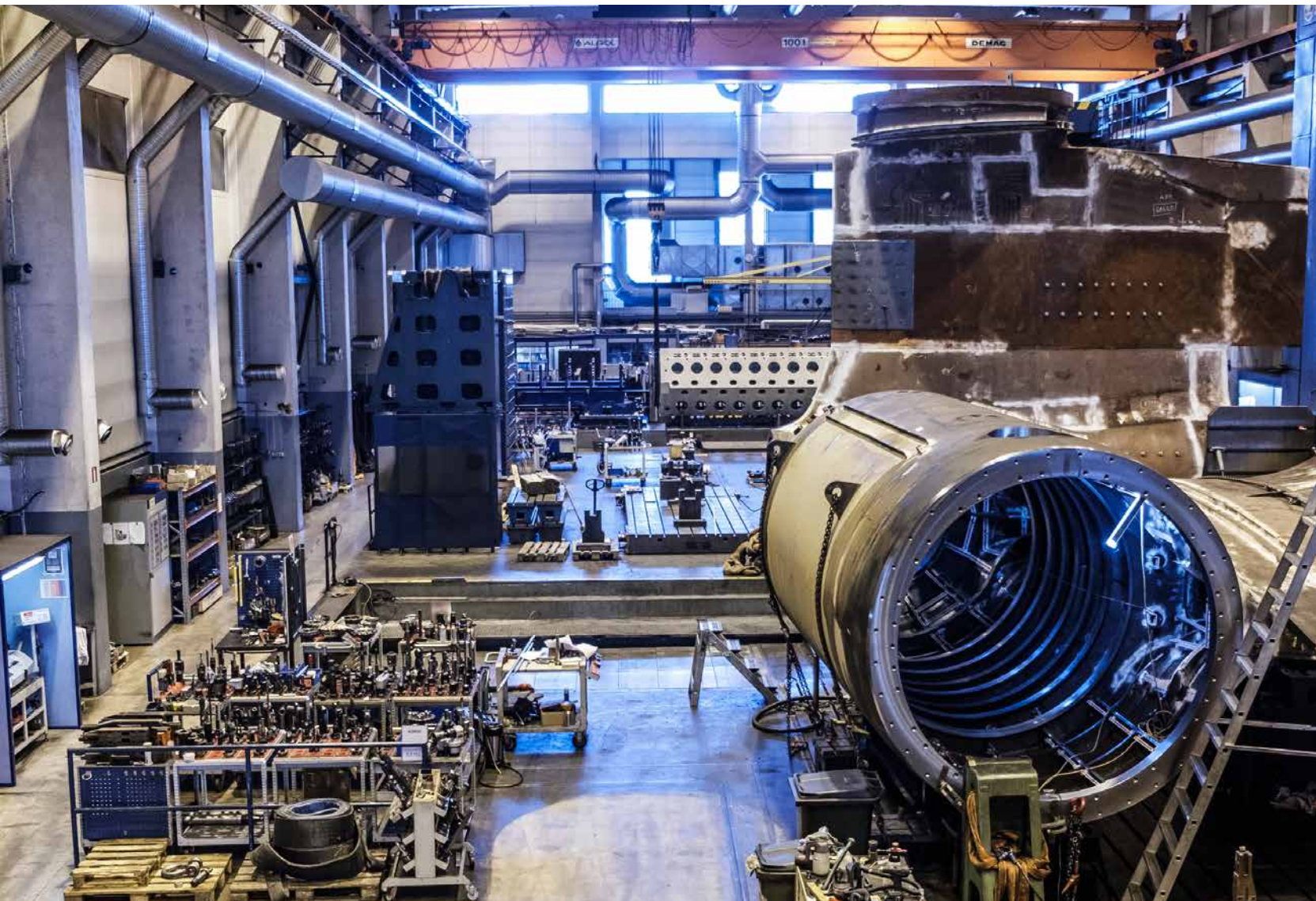


Marine industry



The significance of safety at sea cannot be overemphasized. High standards have to be set for the quality of products as the components are used in extreme conditions and must be durable for decades.

We are well aware of these challenging conditions in the marine industry and the requirements businesses set for their components. Decades of experience, superior know-how and the capability to handle large and demanding projects have given us an excellent reputation as a well-known and trustworthy partner in the marine business.

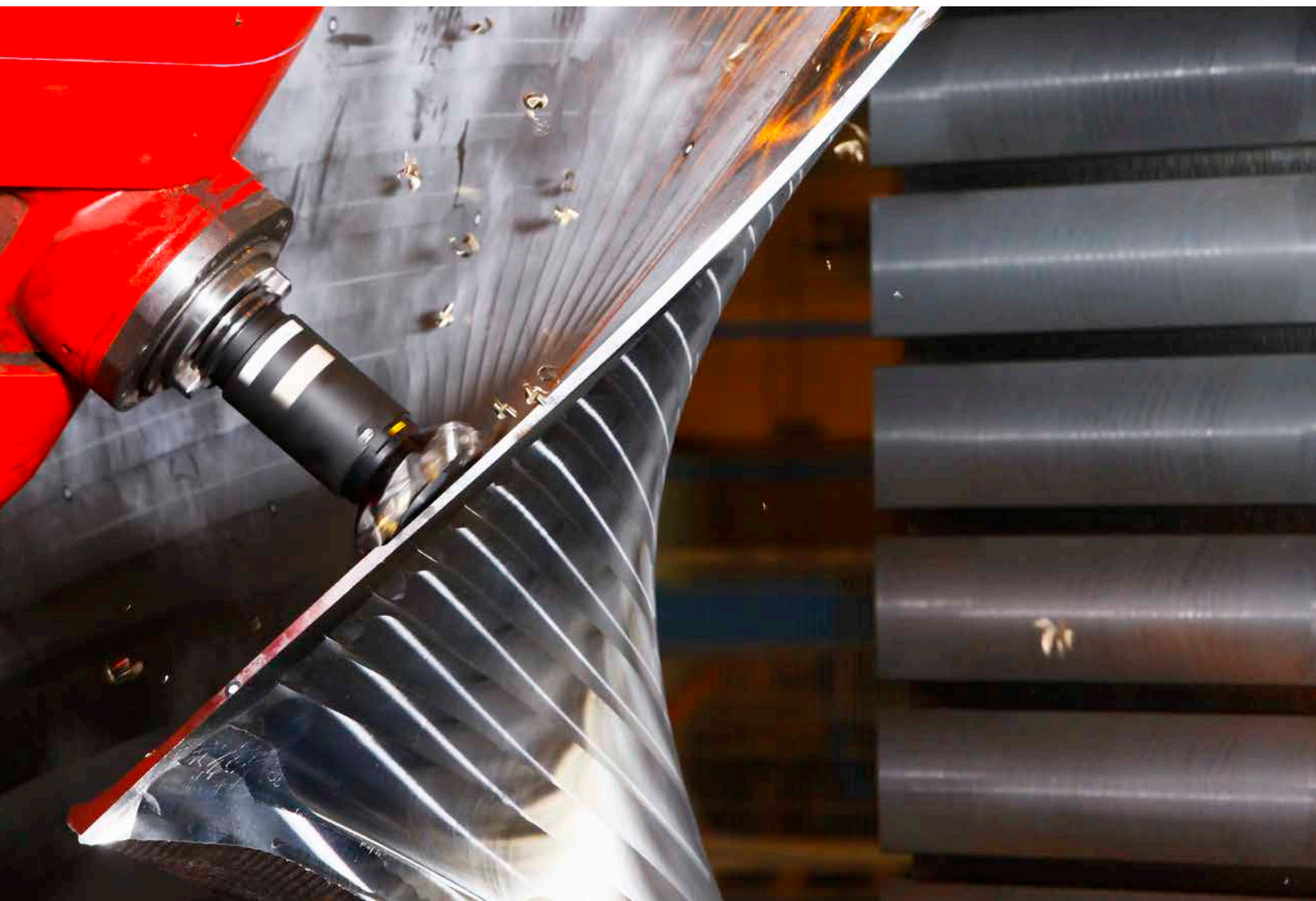


Components of the marine industry

- Propeller and intermediate shafts
- Hubs and hub components
- Reduction gearbox components
- Secondary shafts
- Coupling flanges
- Sleeves
- Thruster bodies and thruster components
- POD-frames and -installation blocks
- POD-installation flanges



Renewable energy



Components for renewable energy applications are expected to have a long life cycle and low maintenance. The components we manufacture are used in the challenging conditions found in wind, hydro and wave power plants.

The use of renewable energy is steadily growing and the industry is constantly in need of new innovations. We cooperate with our customers in taking new products into production and developing their manufacturability. Our versatile and comprehensive machinery enables the flexible use of capacity, this may prove invaluable in urgent maintenance and modernisation projects at hydropower plants.



Components of the renewable energy industry

- Generator shafts and frames
- Turbine shafts and frames
- Bearing houses
- Parts of beds
- Frame structures, shafts and other parts for the wind power industry
- Thrust bearings
- Head covers



Energy



We manufacture gas turbine, diesel and gas engine components for the energy industry. Most of the components we manufacture are installed in power plants or used as power systems in large ships.

We complete the final machining for engine blocks and carry out the pressure tests and pre-assemblies for customers final assembly line.

Components in contact with oil and gas are made of materials that are extremely demanding to machine. The high quality of the production methods, fasteners and tooling are essential to meet customers requirements.



Components of the energy industry

- Engine blocks
- Gearbox components
- Hubs for gas turbines
- Compressor shafts
- Gas turbine shafts
- Gas turbine housings
- Sealing rings



Power conversion

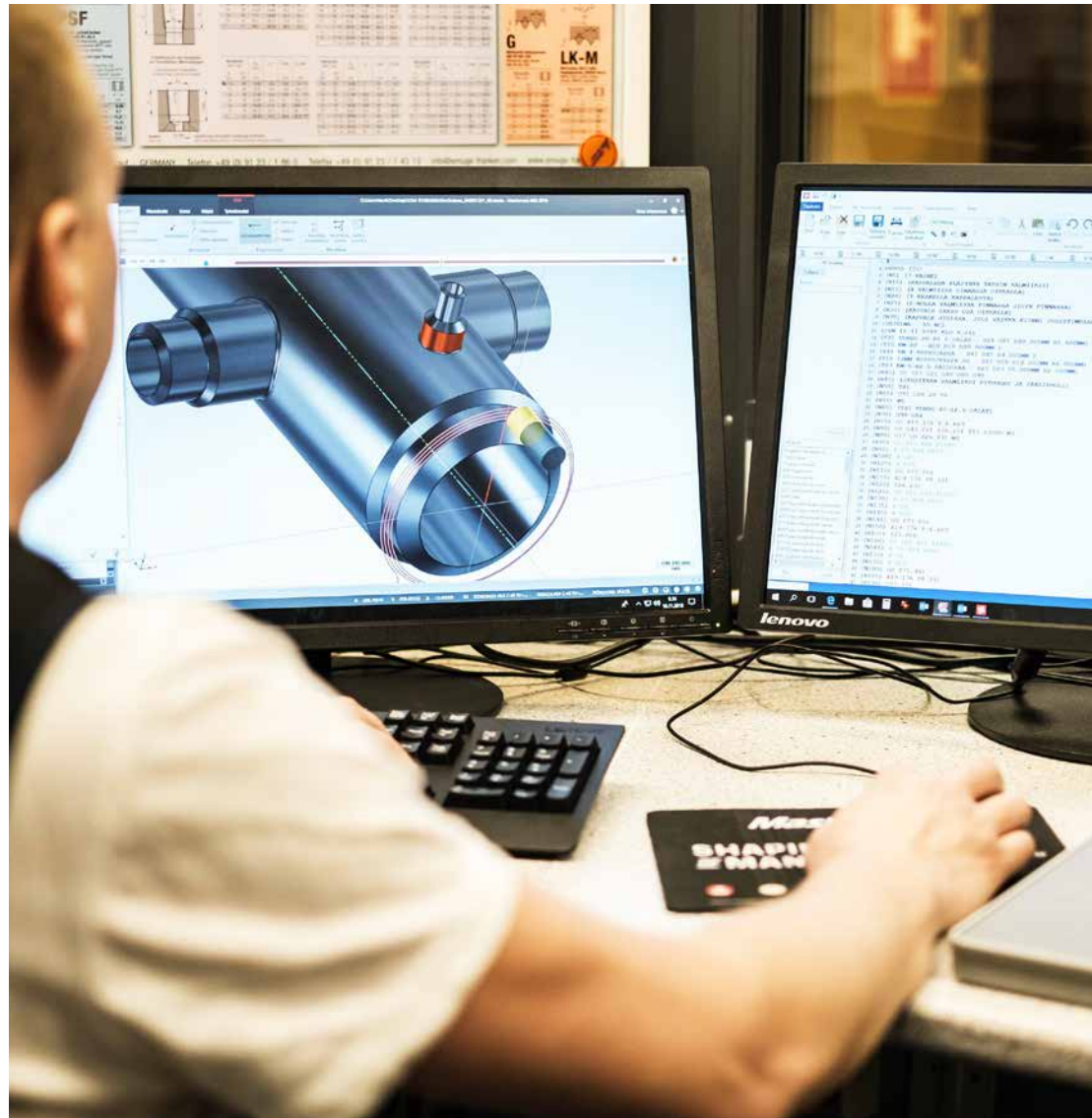


We have solid expertise in the manufacture of components for electric motors and generators. Among other products, we manufacture poles, stators and rotation pieces that require casing for induction and synchronous motors.

Components of the energy industry

- Generator frames and shafts
- Rotor poles
- Rotor shafts
- Bearing houses

Modernisation and maintenance



We carry out maintenance, modernization and repair machining operations for every sector we work with. If required, we can model an existing part and manufacture a completely new one based on the model.

When providing turnkey solutions, flexibility and technical knowledge go hand in hand. For example, the flexibility of our production benefits the manufacture of prototypes as the components can be quickly tested and brought to a stage ready for production.

Pulp and paper industry



We have long and comprehensive experience with component manufacturing in the different applications and solutions of the pulp and paper industry.

Over the years, our workshops have developed first-class production methods. These have helped our customers to strengthen their businesses and increase their productivity. This has increased their trust in us as a competent partner for the pulp and paper industry.



Components of the paper industry

- Rear box components
- Compressor and wire section components
- Reels and reel components
- Coating station components
- Cutting and calender components
- Rollers and roller components
- Bearing components
- Frames for fibre grinders
- Debarker components



Welding



We provide steel fabrication work for the pulp and paper, marine, the offshore and subsea as well as the energy industries. In addition, we have decades of experience in very demanding applications in the paper and pulp industry. Our materials include stainless steels, abrasion and heat resistant steels and structural steel.

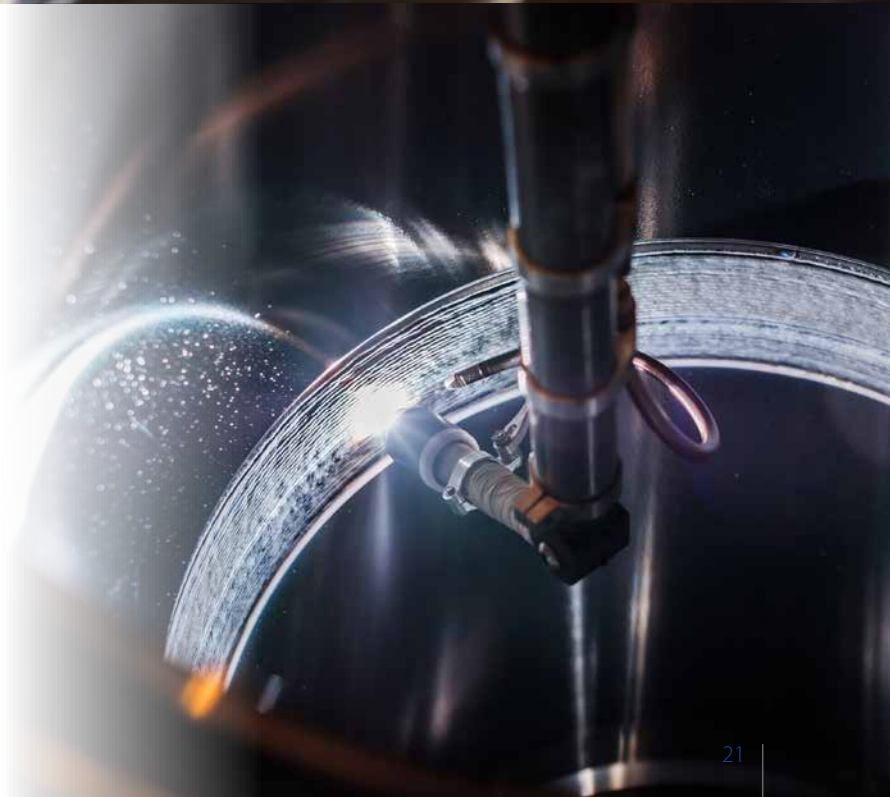
At our Rautpohja unit, we have the best professionals in the industry working for us: welding engineers and technicians and other welding specialists with decades of experience in demanding steel fabrication and welding. The welding quality and speed of submerged arc welding stations provide benefits that are difficult to achieve using other methods.

Our Raisio unit is specialised and has superior knowledge and experience in the overlay welding of various types of components and materials for the offshore oil and gas and subsea industry. Typical overlay filler materials that we use are different abrasion and corrosion resistant materials like Inconel 625 and 718.



Our welding methods

- MIG/MAG
- TIG
- Rod
- Submerged arc welding
- Band welding
- Mechanised hot-wire TIG



Production capacity



The total management of the delivery chain is ensured throughout our operations. A strong knowledge of production and the use of modern technologies enable us to offer our customers tailored solutions for the manufacture of single components as well as serial production.

Depending on our customers' diverse needs, our company can offer the capacity of more than 70 CNC-controlled machines. Our versatile machine and tooling stock facilitates production of large rotary symmetric components, prismatic components, cylindrical components and conical components.

- Production area in excess of 55,000 m²
- CNC-machines more than 70
- Lifting capacity more than 200 t

See the video



Our services

- Milling: X 45 000 mm, Y 6 000 mm, V 8 000 mm, 100 000 kg
- Portal milling: Gate size 4 550 mm x 4 750 mm, movement of the desk 30 250 mm, 250 000 kg
- Turning: Turning Ø 2 600 mm, Z 25 000 mm, 80 000 kg
- Turning carousel: Turning Ø 4 400 mm, Z 3 000 mm, 40 000 kg
- Deep-hole drilling: Drilling diameter 65 mm–450 mm, length 25 000 mm, 80 000 kg
- Honing: honing diameter 60 mm–450 mm, stroke 15 000 mm, 35 000 kg
- Coordinate measurement: X 6 000 mm, Y 4 000 mm, Z 3 000 mm, 70 000 kg
- Coating welding
- Mangling S 150 mm, Ø 900 mm–8 000 mm, width 3 650 mm
- Edging press S 100 mm, work width 12 000 mm, edging power 3 000 t
- Heat treatment
- NDT-testing (critical thickness)



In addition to excellent capacity, technical knowledge and flexibility are a requirement in the production and supply of demanding components. We are at your service!



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