



Engineering

TELATEK

Telatek Engineering is specialised in medium and heavy machine shop manufacturing. Telatek Engineering is part of the Telatek Group.



TELATEK

Telatek was founded in 1977 with the launch of a servicing and maintenance business in Raahе. These operations have subsequently grown and diversified to incorporate a wide range of expertise in various fields. From the very outset the guiding lights of Telatek have been innovation and the development and adaptation of new technologies. This is why Telatek is now a leading operator in such fields as servicing and maintenance technology services. We employ more than 200 people, sharing the values of openness, working for results and keeping our promises. Our goal is to grow so that we can serve our clientele in various ways both in Finland and abroad

Engineering

Telatek Engineering is an engineering workshop specialised in medium and heavy workshop engineering products and comprehensive solutions. Our area of expertise includes workshop manufacturing of large and demanding products, mechanical engineering work and large-scale industry assembly, maintenance and repair work. Our clientele comprises companies in large-scale industry in Finland and abroad.

Telatek Engineering has more than 20 years of experience in manufacturing fabricated products. We can offer our clientele highly refined products, thanks to our versatile machinery and high-standard expertise. Our proficient staff includes specialists in many fields. The engineers, welders, sheet metalworkers, component manufacturers, machinists, assemblers, finishers and inspectors at Telatek Engineering are all experts in their trade. We are very proud of our long-serving workers, who are committed to their work.

We are a part of the Telatek Group, and together with the other units in the Group we are able to execute and manage extensive projects quickly and efficiently. We continually work in close collaboration with our domestic and international partners.

Services And Technologies

- Heavy shop fabrication
- Machining
- Assembly work
- Comprehensive project packages

Telatek Engineering

- Locations: Taivalkoski, Nokia
- Founded in 1985
- 135 employees
- ISO 9001:2008 and 14001:2004 certified

Clients

- Metso Oyj: paper and mining industry
- ABB Oy Marine
- VR Oy (Finnish State Railways)
- Technip Offshore Finland Oy
- Rolls-Royce AB

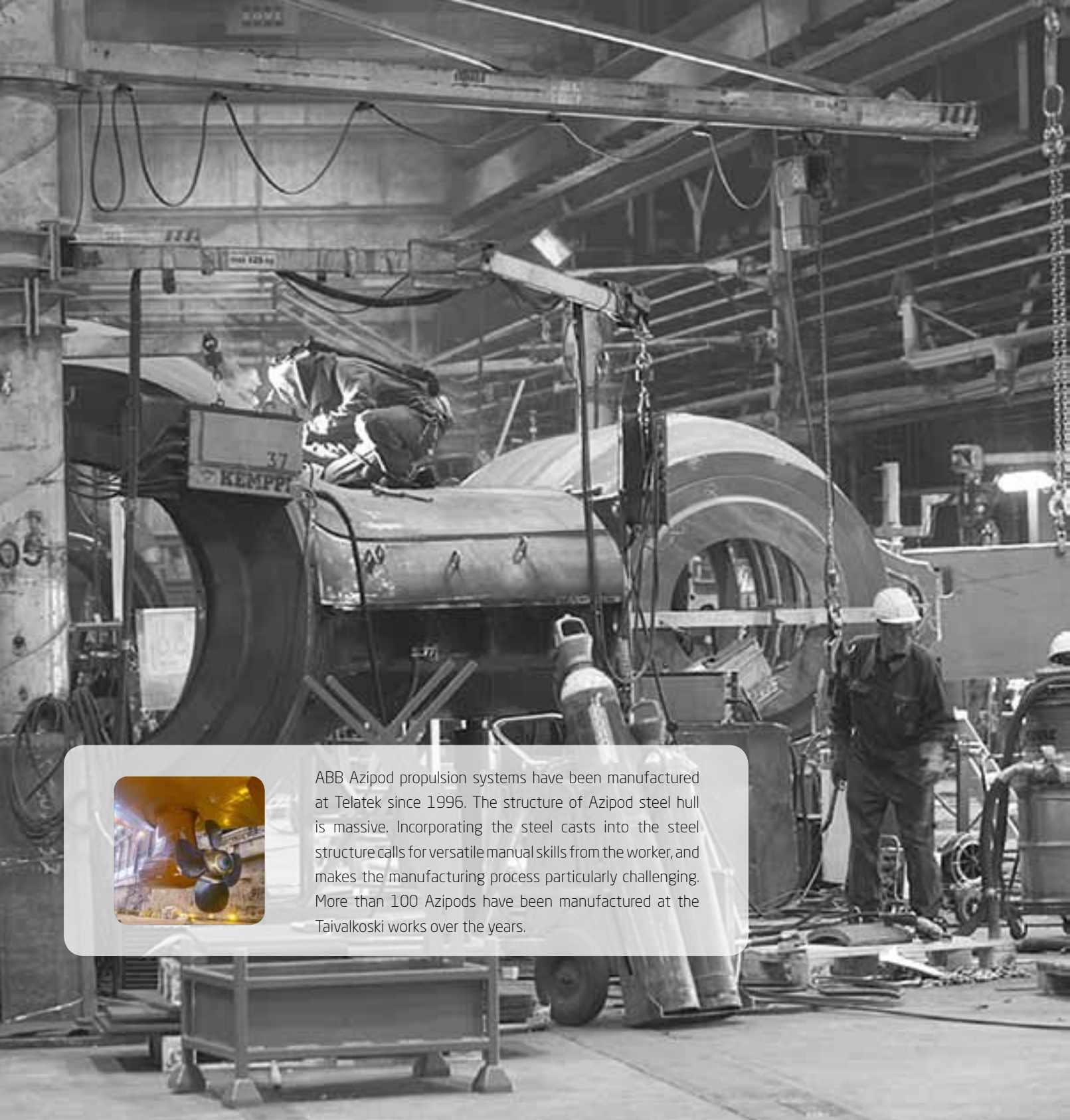


ABB Azipod propulsion systems have been manufactured at Telatek since 1996. The structure of Azipod steel hull is massive. Incorporating the steel casts into the steel structure calls for versatile manual skills from the worker, and makes the manufacturing process particularly challenging. More than 100 Azipods have been manufactured at the Taivalkoski works over the years.

Heavy Shop Fabrication

Telatek Engineering is specialised in heavy sheet metal works, welding and machining large and demanding steel structures. Both the expertise and the machinery of Telatek are well suited for challenging assignments. We can weld very thick components and handle extremely large work pieces. Our experienced and highly trained staff are real professionals who know how various materials behave and how to achieve a flawless outcome.

We use the following machine tools:

- Skoda HCW3 horizontal boring and milling machine
- 120 MIG-/MAG welding machines
- CNC-routed flame and plasma cutter: 3,100 mm x 9,000 mm
- 2 x C-presses: 350 t, 600 t
- Lifting capacity: 2 x 63 t, 3 x 20 t, max. weight per workpiece: 126 t
- 2 x press brake machine, max. 500 t, 4.2 m
- Press brake machine, Ø 610 / Ø 570, Bmax. = 3,250 mm / 35 mm
- Heat treatment furnace: 10,500 mm x 8,400 mm x 5,500 mm, Tmax 800C
- 3 submerged arc welding appliances
- For mechanisation of welding: turntables, turning rolls, conveyors

We are particularly proficient at the following operations:

- Manufacturing large and demanding steel structures
- Processing heavy steel structures
- Managing large subassemblies
- Quality control



When machining large work pieces, it is essential to attach and set the piece correctly on the work table. Machining demands flexibility and commitment from staff, as many jobs must be performed from start to finish in one go. This is why **Severi Pölojärvi** and his team are so important to Telatek. These are the men who get the job done!

Machining

The capacity of the Taivalkoski workshop is ideal for machining large work pieces. The unique properties of the Skoda horizontal boring and milling machine enable us to machine pieces using a large range of tools and from various directions. The fixed machine table allows machining of long products, and the turntable enables use of the machine in various ways for machining axially symmetric parts. The bearing capacity of the turntable is 120 tons, enabling a wide range of uses.

The extensive, high standard services of Telatek Engineering clearly benefit the client, for instance by shortening the logistics chain. We can call upon the expertise of other Telatek units to complement our services where necessary.

Machine tools

- A large Skoda HCW3 horizontal boring and milling machine
 - Axis movement X: 20,500 mm, Y: 6,000 mm, Z: 8,000 mm
 - Spindle power: 120 kW, spindle diameter: 225 mm
 - Turntable (4 m x 4 m / 120 t)
 - Magazine for 60 tools
 - Versatile broaching cutters and milling tools
 - Design/operation: SolidWorks – EdgeCAM – Siemens
- Small manual machine tooling shop: Turning machines, milling machines etc.

Our machining work includes:

- Steel components for the offshore-industry
- Steel components for the process and mining industry



Asko Jokinen is a professional assembler who has worked in the Nokia assembly hall for several years. Roll bearing and other demanding assembly jobs are all tackled with a confidence born of experience. This picture shows final testing of dampening units before delivery to the client.

Assembly Work

Mechanical assembly jobs are a vital part of the operations of Telatek Engineering. These jobs often involve products manufactured at our workshop, enabling us to offer the client comprehensive product solutions. We can also call on our extensive subcontractor network for supplies of small engineering products and components as necessary. In addition to engineering work, assembly job contracts often include associated testing and installation work.

We also provide individual assembly services to our clients. Our expertise encompasses both new assemblies and modernisations of existing products. The products may include mechanical assemblies, and various actuator assemblies (electricity, compressed air or hydraulic). We are specialised in assembling equipment for the paper industry and have extensive experience in this field.

Capacity

- Lifting capacity:
 - Nokia: 10 t
 - Taivalkoski: 126 t
- Production area
 - Nokia: 550 m²
 - Taivalkoski: 12500 m², of which some 1,600 m² is reserved for assembly work
 - Electrical, hydraulic and pneumatic tools

Clients

- Metso Oyj
- M-real Corporation
- Vaahto Group Plc Oyj
- Finbow Oy
- TTS Liftec Oy



Jukka Haataja is a welding specialist at the Taivalkoski factory, where he also supervises and improves our processes. His expertise has proved useful, for example, when manufacturing Sr2 locomotives for Finnish State Railways. Combining aluminium and steel structures and managing deformations is a highly skilled job. A single locomotive required the manufacturing of some 1,700 parts and the purchase and installation of about 2,700 components.

Comprehensive Project Packages

The versatile engineering workshop, assembly and installation operations, advanced coating and maintenance technologies, and professional quality control provided by the Telatek Group enable the execution of extremely extensive projects. We can manage the entire production process from planning to installation and maintenance of the completed product. We also call on a wide-ranging international subcontractor network for additional resources and special expertise.

We are always pleased to develop and create new, useful solutions with our clients, and our best work involves deliveries of demanding, large-scale structures.

Our expertise and capacity enable projects for:

- The marine industry
- The paper industry
- The oil industry
- The mining industry
- The processing industry
- The engineering industry

Benefits to the client

- Cost-savings
- Good quality control
- Swifter execution of projects
- Clearer project management



TELATEK

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Posiontie 30
FI-93400 Taivalkoski

Tel: +358 8 8297 700
Fax: +358 8 8297 701
www.telatek.fi

Öljytie 8
FI-37150 Nokia

Tel: +358 3 342 6500
Fax: +358 3 342 1506
www.telatek.fi

Telatek Group
Hatanpään valtatie 13
FI-33100 Tampere

Tel: +358 3 270 270
Fax: +358 3 270 2888
www.telatek.fi