muovityö
HILTUNEN OY



Industrial Inspection and Maintenance Services



SEE OUR VIDEO

Decades of Experience in Industrial Composites

Founded in 1969, Muovityö Hiltunen Oy specializes in composite and plastic structures. We have extensive experience in industrial tanks, piping, gas scrubbers and other process equipment.

Over the years, we have expanded our manufacturing expertise to cover the entire life cycle of the product. In addition to design, manufacturing and installation, we handle product inspections, maintenance and modifications.

We manufacture our products in Finland. Through our customers, our products are widely exported around the world.



Products Built to Last

A plastic and composite product designed, manufactured and maintained according to its operating condition ensure reliable performance for decades.

Our product range includes:

- chemical tanks and basins
- industrial pipes and ducts
- industrial chimneys and gas scrubbers
- transportation tanks and containers
- equipment enclosures and radomes coatings
- inspection, maintenance, repair and installation







Inspections of Industrial Plastic and Reinforced Plastic Structures

We inspect plastic and reinforced plastic structures across a wide range of industries. The structures are typically equipment used in industrial processes, where specific operating conditions affect the condition of the structure.

Typical inspection targets include:

- chemical tanks, such as sulfuric acid, hydrochloric acid and hypochlorite tanks
- biogas reactors
- gas scrubbers
- process basins and surface treatment lines
- chemical piping





Based on the inspection, we assess the condition of the structure and report the required measures.





Inspection Process and Reporting

The inspection is primarily based on a thorough visual examination. The surfaces, seams and joints of the structure are inspected systematically.

The inspection takes the operating conditions into account and focuses on areas exposed to wear, stress or high temperatures.

If necessary, the hardness and thickness of the material can be measured. The strength of the material can be assessed by measuring strain under load.

A written report is prepared after the inspection. The report includes observations, measurement results, photographs and recommendations on the inspection interval and further measures.

We cooperate with Tukes-approved inspection bodies when an accredited inspection body is required.

MATRICOMP

Strength analyses of FRP tanks and ducts in accordance with SFS-EN 13121-3 and ASME RTP-1, with over 10 years of experience.
Calculations are performed using orthotropic material properties and failure criteria.
We also provide problem-solving and damage analysis services.



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A Maintenance Agreement Makes Everyday Operations Easier

We offer individual maintenance agreements for all reinforced plastic and thermoplastic products manufactured by us. The maintenance agreement includes product inspections and maintenance as well as a cost estimate for any necessary further measures. The maintenance programme is always designed to suit the product in question.

Product maintenance should be considered already at the design stage, and the maintenance agreement should be concluded when the product is acquired. A maintenance agreement helps anticipate maintenance needs, extend the product's service life and keep costs under control.

For new products, a maintenance agreement also makes it possible to extend the warranty period.



A maintenance agreement provides security for years to come.



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www.bjorn-thorsen.com/composite

Custom-Made Spare Parts

We manufacture a wide range of spare parts, both small and large. Based on experience gained in use, development work can be carried out in connection with the manufacture of the spare part, including optimization of materials, wall thicknesses and shapes.



Atolli
Osaaminen ratkaisee

Atolli on suomalainen teollisuutta ja rakentamista palveleva muovisiin putkistojärjestelmiin sekä niihin liittyviin tuotteisiin erikoistunut projektiyritys.

MATERIAALI JA TUOTEVALIKOIMAMME:

- PE
- PP & PP-S
- PVC & C-PVC
- Fluorimuovit
- Lujite-/kertamuovit (FRP)
- Erikoismuovit
- Somistusmuovit
- Rakennusmuovit
- Yhdistelmärakenteet

SEKÄ:

- Putket- ja putkenosat
- Venttiilit
- Kannakointijärjestelmät
- Paneelit
- Levyt & kudoslevyt
- Pyörötangot & profiilit
- Ainesputket
- Letkut
- Kalvot
- Pinnoitusmateriaalit
- Ritilät

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Sustainable and Efficient Production

Environmental responsibility is important to us, and we are committed to promoting sustainable development and minimizing the environmental impacts of all our operations. We continuously develop our products and production processes to ensure competitiveness and take the environment into account. We make efficient use of modern technology and automation.

We aim to minimize material loss in production, and our finished products are also recyclable. The products we manufacture are long-lasting, and their manufacturing has a small carbon footprint.

We are in the process of implementing the Ekokompassi environmental management system. Together with Finnish composite companies, the KiMuRa route was created to enable the efficient collection and utilization of composite waste.

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