

A yellow robotic arm, labeled 'M-10iA', is positioned in the upper right corner. The background is a blue-tinted image of numerous blue plastic injection-molded parts. A large blue triangle is overlaid on the left side, and a white triangle is at the bottom center.

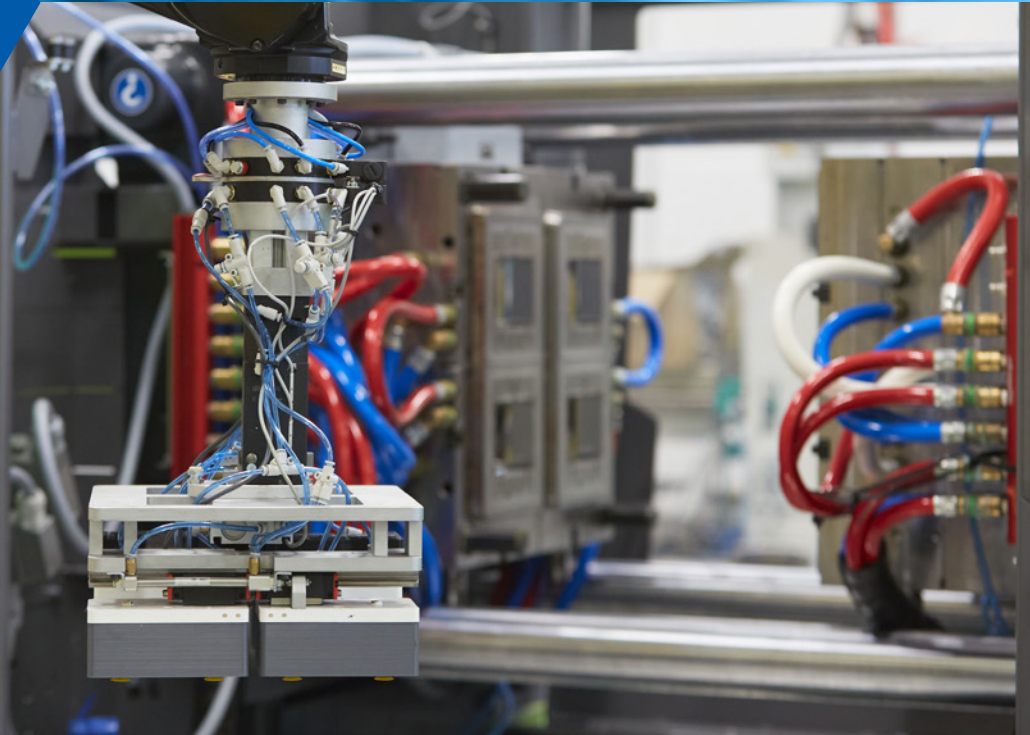
Strong in Plastic



MUOVISOLA

**We facilitate
the whole manu-
facturing process
under one roof.**

Mass production is our core competency, but we can also provide small batches and single prototype production.



High-quality plastic parts for all uses

Muovisola Oy, located in Polvijärvi, Finland, is a family business specialized in injection molding subcontracting. Starting out as a small subcontractor, we've grown into a high-tech expert with customers all around the world.

We offer flexible and agile service to a varied clientele, from the construction industry to electronics. The medical device sector and cleanroom products are our specialty. We support the whole product manufacture chain from design to finished product, including storage and shipping depending on the agreement.

The assembly lines we use for product manufacture have been designed and built by us. Automation improves the cost efficiency of our processes and guarantees consistent product quality.

In addition to quality, our operation is guided by environmental awareness. We strive for a high level of energy efficiency by maintaining a modern fleet of injection molding machines and by various investments, among other things. Any potential manufacturing surplus is utilized by us or recycled effectively.

Uncompromising quality is the foundation of our operations. Our certifications include ISO 9001 for quality management, ISO 14001 for environmental management, and ISO 13485 for quality management in medical devices.

Supporting you in production planning, mold procurement and storage.

We provide support for our clients starting from the planning phase and help avoid excess costs at the same time.

When needed, we'll step in for our customers to procure the molds and commission them from our domestic business collaborators. The molds are stored and maintained in our storage.

Our logistics and storage services guarantee uninterrupted production for all our clients.



SCALAR

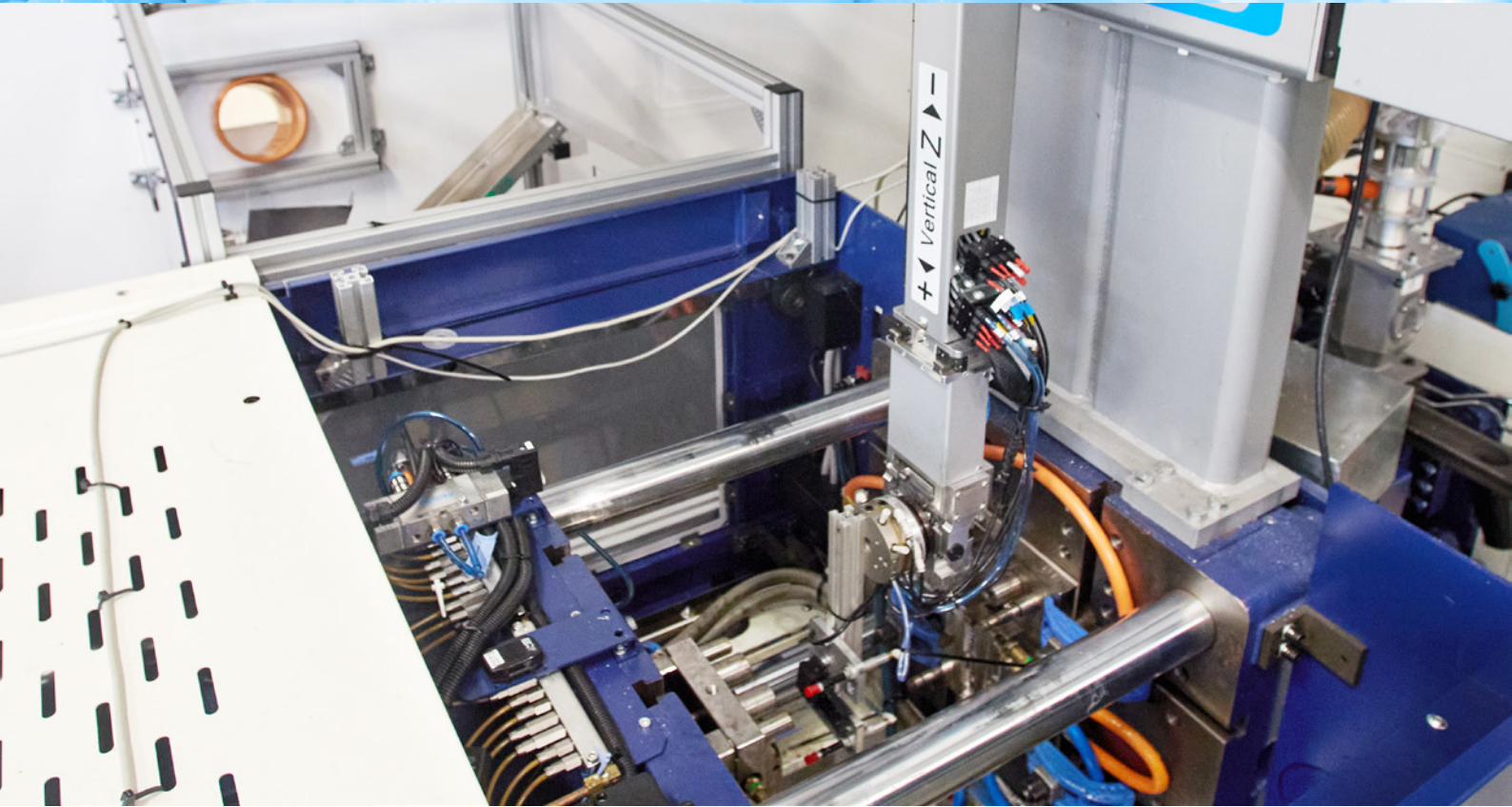
Kestävän tulevaisuuden mahdollistaja.



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Ota yhteyttä!
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Solid expertise in injection molding

We have around 30 injection molding machines at our disposal, with clamping force tonnage ranging from 1 to 450 tons and we're able to manufacture products up to 1.3 kg of weight. Our injection molding production operates uninterrupted all year round. We've mastered not only typical raw materials but engineering and recycled plastics, too.

Aesthetically especially pleasing products can be made with our IMD and IML equipment. IMD (In Mold Decoration) technique runs thin carrier foil through the mold,

and the image is transferred onto the product from the foil. In IML (In Mold Labeling) a piece of foil is brought straight into position inside the mold before the injection molding cycle. Usually this is done by a robot when it retrieves the previous cycle's output.

Insert molding enables the placement of, for instance, metal inserts within the mold, which is then injected with molten plastic to form a molded part. This way the insert, such as a metal nut, can be made into a permanent part of the finished plastic product.

Find out more about our production and the possibilities it provides at: muovisola.fi

Post-Processing

Laser Marking

Laser marking is a fast, efficient, and precise way to apply logos, instructions, and other required markings on a product's surface. It can only be removed by abrasion.

Pad Printing

Even curved surfaces can be marked with pad printing, and it enables the use of multiple colors. Muovisola has automated tampo printing in two production cells and four manually operated pad printing machines.

Assembly Operations

At Muovisola assemblies are done both manually and robotically. The modern ERP we use helps us to purchase components and perform multi-part assemblies efficiently.

Ultrasonic Welding

We have four ultrasonic welding machines for welding injection molded parts, as well as plastic film.



Cleanroom Manufacturing

Our cleanrooms fulfill the ISO 8 requirements. Various hospital and laboratory products that necessitate a high level of hygiene are made in our cleanrooms, and our processes comply with the ISO 13485 standard.

 **KARJALAN DATAHUOLTO**

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Founded in 1993, Muovisola Oy has grown during its time from a two-person family business into a high technology company employing 20 people and several subcontractors of our own. The old village school has been completely transformed into a production facility that meets specially designed hygiene requirements and uses modern technology. The cornerstones of our success are an uncompromising quality policy and flexible customer service.

Get in touch with us when you need uncompromising quality in plastic manufacturing.



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