



Inside Rosti

September | 2023



A positive outlook on the global **Plastic Injection Moulding** market.

Jonas Persson, **Rosti Group CEO**

Despite the challenging economic conditions around the world, from high energy costs, a possible recession and rising inflation, I am proud that our solid foundation, combined with cutting-edge technologies and plastic injection moulding capabilities, provide a safe and reliable pair of hands for everyone.

Our commitment to our customers, our team and our plan, ensures we maintain a forward-thinking approach to investment, enabling us to continuously evolve, whilst also demonstrating the strength of our business.

As we forge ahead with our Investment Strategy, we look forward to opening an Innovation Centre in the US and our first European Clean Room at Rosti Poland. This further enhances our

global footprint and the localisation of production for customers. I recently shared my thoughts and observations on our focus for the coming months and how this benefits our customers. I am pleased to report the successful integration of Rosti North America with the wider group, with customers already realising the benefits of the Rosti Way and the capabilities we provide both in the United States and across the wider group.

We are seeing a growing trend in customers wanting to diversify their supply chains, which Rosti is able to support, through our global footprint. A range of factors are contributing to the relocation of production, from political uncertainty, tariffs, and supply chain disruption, as well as sustainability goals.

Read more:
<https://www.rosti.com/2023/03/plastic-injection-moulding-jonas-persson/>



Discover **Multi-K Injection Moulding** with Rosti

“...we have expertise and experience built up over 75 years that we use to identify the processes that best meet your needs”

Multi-k or multi-material moulding is known by many names. It is also referred to as overinjection and includes the multi-shot injection process under its umbrella.

It is one of the most widespread and beneficial techniques used in plastic injection moulding today. It creates a single part out of two materials or more, in the same mould and the same process. As you would expect, this presents significant advantages for production, personalization, and efficiency.

All of Rosti's manufacturing sites have cutting-edge facilities capable of meeting the technical requirements of the most complex

multi-material projects. We know your needs and we understand how to apply techniques to meet them. More importantly, we have expertise and experience built up over 75 years that we use to identify the processes that best meet your needs, taking into account the total cost of ownership throughout the project, the time to market, and the likely volume of units to be produced.

Discover how you can benefit from Multi-K injection moulding:
<https://www.rosti.com/capability/multi-k-injection-moulding/>

Innovative Technology for Tomorrow



For many years our Global Technology Roadmap has seen us continuously invest time, money and engineering expertise to identify, analyse and develop innovative injection moulding technologies.

Mark Wrigley, Senior Vice President Sales and Marketing, explains our commitment to research and development of new capabilities ensures we remain at the forefront of the global plastic injection moulding market, as a close strategic contract manufacturing partner for our customers.

What is the Global Technology Roadmap?

From our three Digital Innovation Centres in China, Poland and the US, the heads of each department form the Global Technology Group test and prepare new injection moulding capabilities to bring to market.

Our Engineers have been analysing and testing new technologies for many years, with many examples of bringing new ways of manufacturing to the market, which are currently being used by our customers today.

Our investment into additive manufacturing shows both the versatile capability to produce complex parts, not possible with a single tool and a cost-effective process to create complementary lower-volume parts without investing in expensive mould tools. We are the first in China to have the latest technology, having acquired the machine and technology. We have an established process that rigorously scrutinises each developmental stage of a new capability to ensure only the best-fit and commercially viable reach a 'technology readiness' stage. This means a particular capability can be offered to a customer and is ready to be put into production.

How do customers benefit?

Rosti is able to lead on technological innovations and capabilities, providing customers with solutions which aren't available in the market.

We provide production-ready technologies, allowing customers to benefit from the speed to market, confident that a particular technological capability is appropriate for their requirements. This provides our customers with a competitive edge in their respective markets.

Read more: <https://www.rosti.com/2023/06/global-technology-roadmap/>

An insight into Medical Solutions growth

with **Mateusz Surmacz**

Mateusz Surmacz, **Rosti European Business Development Manager**, discusses the key areas of growth in the global medical solutions sector and how Rosti's Clean Room capabilities support customers' plastic injection moulding requirements.



With the planned opening of Rosti's first Clean Room in Europe, our medical production capabilities are strategically located across the globe to support the contract manufacturing needs of both current and new customers.

In what areas of the medical solutions sector are Rosti Group seeing most growth?

We are seeing significant growth in a number of areas across the medical sector including telemedicine and digital health.

Evolving the technology that is used by both medical professionals and patients in their own homes, has driven the need for integrated technology and

electronics within injection moulded products which house the electronics.

As well as the rise in innovative medical solutions, Rosti Group has also seen demand for diagnostic imaging equipment, monitoring devices and therapeutic equipment.

Why do medical customers choose to partner with Rosti?

With a diverse portfolio of customers across all major sectors across the globe, combined with our cutting-edge Digital Innovation Centre and injection moulding capabilities, our global team brings unique knowledge and expertise to the medical sector. This is complemented by the detailed development of our medical culture and mindset.

Our customers in the medical sector have been drawn to our well-established NPI process. We have a great deal of experience and expertise across our global team handling complex and large scale NPI projects in all major sectors.

Spotlight on

Rosti Germany



From our injection moulding facility in Dresden, Germany, we provide a comprehensive range of contract manufacturing services and automated moulding capabilities, in the high-volume multi-cavity production process utilising state of the art automation, producing billions of components annually serving many markets.

In our 8,700m2 plant, we have 1k and 2k moulding capabilities with high cavitation up to 72, combined with rapid cycle times of up to 2.6 seconds. Our high production standards coupled with a focus on customer orientation ensure the consistent quality and reliability of production, allowing our customers to realise the cost efficiencies of our automated production.

Sustainable Injection Moulding

At Rosti Germany, we pride ourselves on the success and continuous improvement of our sustainability measures, reducing the impact of the plant on the environment and supporting customers to produce greener

products and components that are less harmful to the environment whilst also meeting the end users' environmental expectations. This commitment is demonstrated through the certifications the site holds including Sedex, Ecrovadis Gold Award and ISO 14001.

Our team in Dresden have a wealth of experience in using sustainable resins, helping customers transition to using environmentally friendly produced and fully recyclable materials.

Continuously developing operations

One of Dresden's key objectives is to continue to analyse, test and implement processes to reduce the CO2 footprint, by combining our engineering expertise in Germany and investing in new production methods.



To support our existing customers and grow the site, we aim to improve efficiencies through investment in the digitalisation of our production capabilities.

Watch the video:
<https://youtu.be/40X14BWIEoY>

“Sustainability is an important aspect of our ‘Concept to Reality’ value proposition”

Rosti Group's Sustainability Strategy

the right thing to do

Sustainability is no longer simply a topic that is only talked about in an aspirational way. Implementing measures that make a significant difference to the environment is now at the **top of the global agenda**.



As a plastic injection moulding business, Rosti is responsible for ensuring our operations, behaviours and what we produce have little to no harmful impact on the environment. Sustainability is an important aspect of our 'Concept to Reality' value proposition, with a broad range of sustainable solutions built in from the concept stage, to ensure every aspect is as environmentally friendly as possible.

We are delighted for Ian Farquhar, Head of Sustainability & European Operations Director, to join the Rosti team and lead our Sustainability Strategy both internally with our people and externally supporting customers to achieve their green objectives. As Ian looks to evolve and drive forward the Rosti Sustainability Strategy, there are four core themes that Rosti are concentrating on -

1 Lighter products = less material

Through intelligent engineering and design, we support customers to lightweight their products to reduce the volume of material required, without altering performance or product lifespan. Lighter products save the raw material needed and energy required in the processes to manufacture them. Thus reducing the energy required in the injection moulding process as well as being more easily recyclable when needed to be disposed of. A further benefit is that it will reduce the associated emissions generated when being transported.

2 Making solutions for the circular economy

There is a need to look further than the sustainability credentials of just the products we produce and our injection moulding processes. Utilising our global engineering expertise, we partner with customers to review all facets of a product to ensure it contributes to a circular economy, from inception and design to recycling and reusability.

3 Recyclable products

We are collaborating with customers to design and manufacture products which are 100% recyclable. This concentrates on replacing materials with bio-based resins which Rosti have tested, analysed and validated to be used in production.

4 Increasing adoption of recycled material

Replacing virgin material with recycled alternatives doesn't compromise quality or performance. Our aim is to encourage customers to adopt bio-based materials from their own recycled products to create a truly circular economy.

Re-using your own recycled material provides confidence that the required properties and tolerances are included. This is documented through end-to-end transparency and supply of data. Not only is this a transformational change with regard to sustainability targets, but it also provides significant opportunities to reduce costs too.



Rosti Group. Big enough to **cope**. Small enough to **care**.

We would **love** to hear from **you**:  www.rosti.com  Rosti Group