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Machinery

*OREX ROTOMOULDING: **Key Word: Total Quality***

*Polivinil Rotomachinery: **Evolving To Grow***

*Persico Group: **SMART Evolution***

*AMS Robotics: **The Potential Of Robotic Moulding***

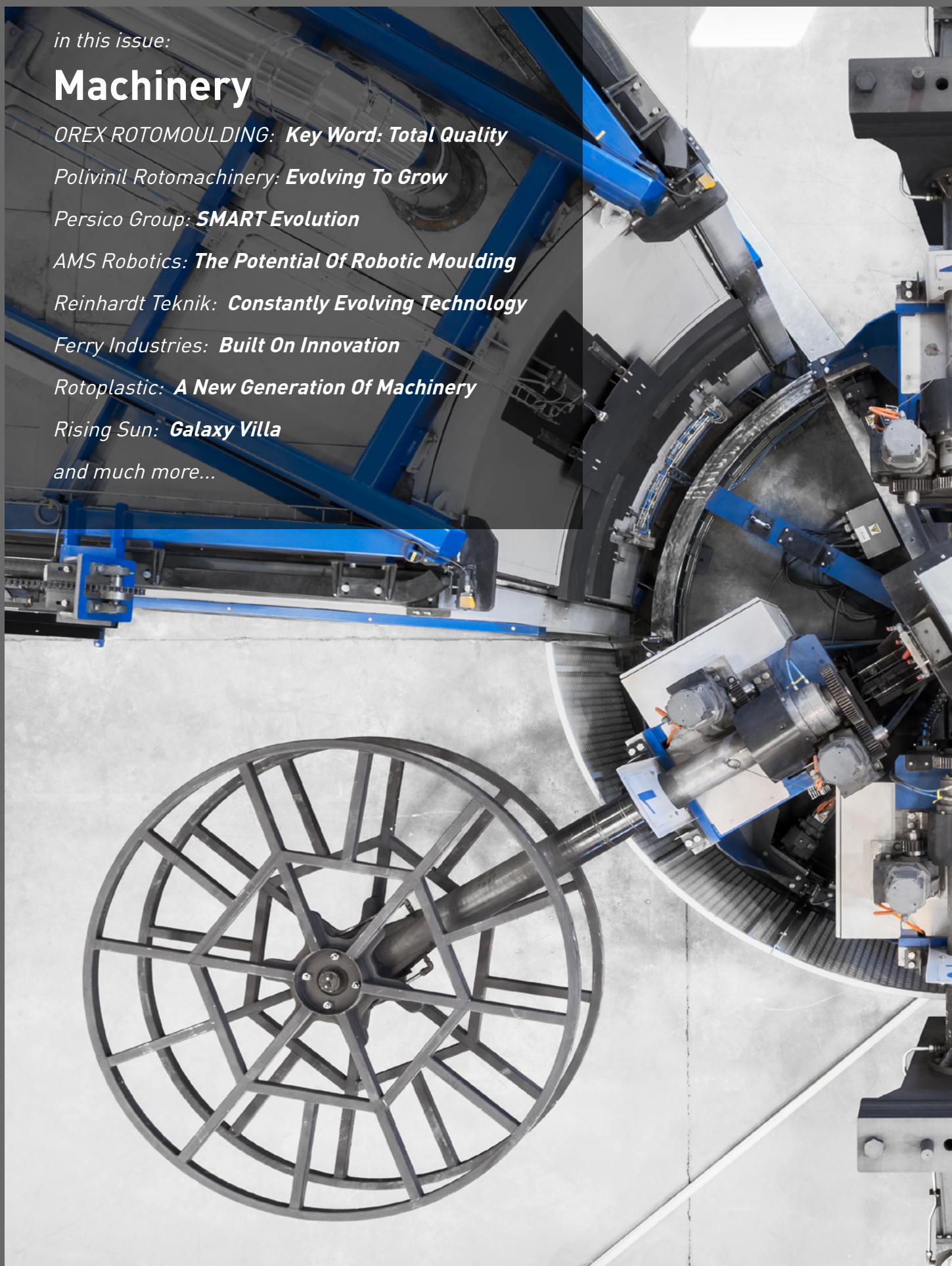
*Reinhardt Teknik: **Constantly Evolving Technology***

*Ferry Industries: **Built On Innovation***

*Rotoplastic: **A New Generation Of Machinery***

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and much more...





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Evolution As A Mission

by Francois Pascal - Material Connexion

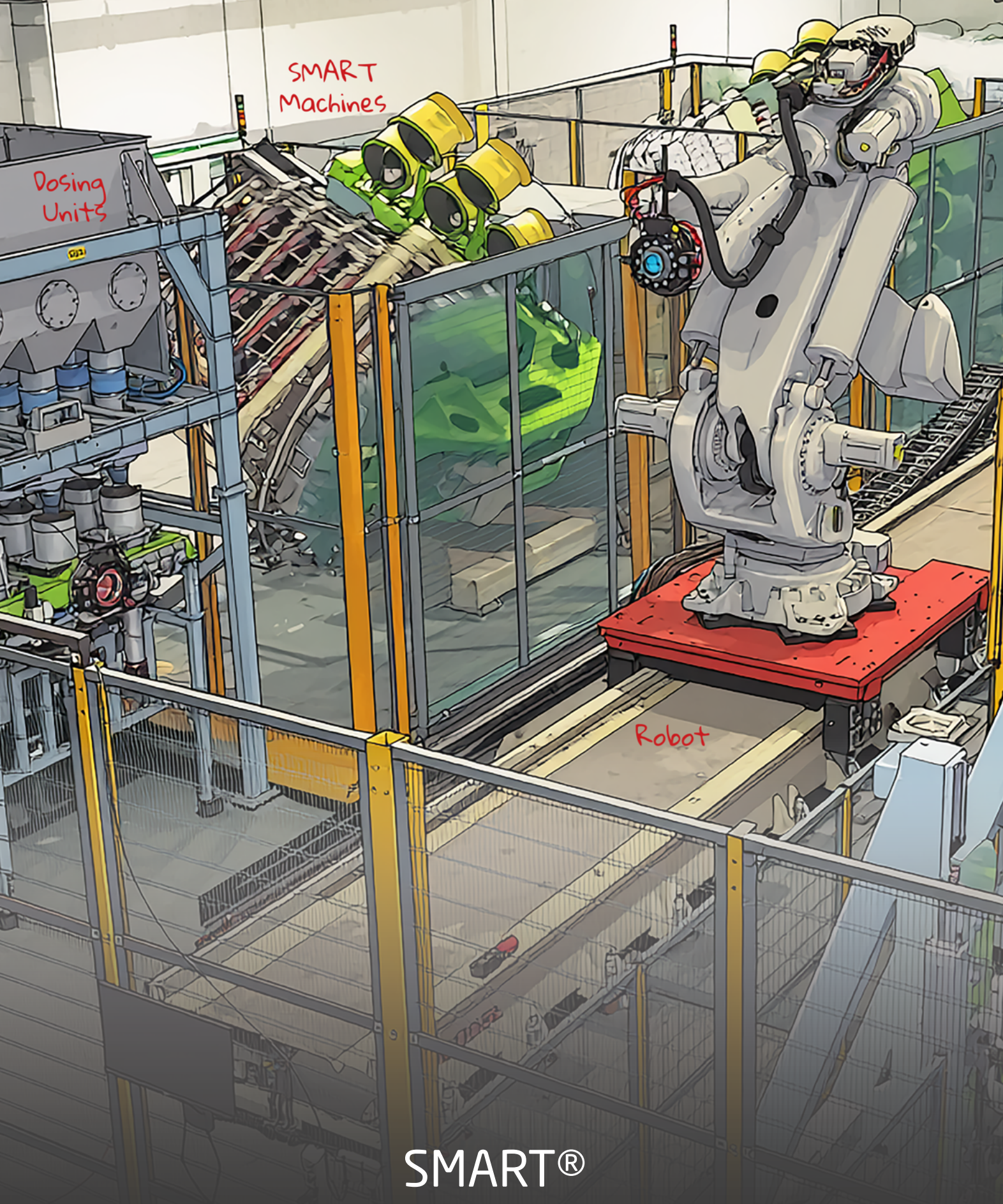


The evolution of rotomoulded products is a phenomenon closely linked to the technological innovations that characterise the new generation of moulding machines. New production systems are moving away from the heavy reliance on manual labour associated with mould handling operations in favour of automated production processes. The renewed focus on energy consumption, partly triggered by recent geopolitical events, is enabling new economies of scale where rotomoulded production can compete with other competing technologies and materials. The integration of control systems with the potential offered by AI lays the foundations for a new way of managing machines, more efficient than in the past, remotely controllable and capable of generating a wealth of real-time data and information that was previously unavailable.

Rotational moulding machines therefore represent one of the key factors enabling rotational moulding to continue its growth, positioning itself as a competitive technology for new applications, even in previously unexplored industrial sectors. In this context, robotics constitutes a new and important asset through which to implement rotational moulding machines, creating production systems that are increasingly efficient and capable of delivering high productivity.

This new special issue of WeRoll is entirely dedicated to exploring the many possibilities of this key sector through contributions from leading international companies. The common thread linking all machine manufacturers lies in their constant commitment to research, experimentation and the introduction of new innovations—both small and large—capable of improving production processes. This continuous progress demonstrates how dedicated this industrial sector is to constant improvement, capable of overcoming limitations to open up new horizons for progress.

Enjoy reading!



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1. Improving Performance

OREX ROTOMOULDING

Key Word: Total Quality



Text by Francois Pascal

For every industrial company, anniversaries represent a significant milestone but also a time for reflection, allowing for reflection and new beginnings. For OREX ROTOMOULDING thirty years of business not only represent a significant historical milestone but also mark a turning point towards new objectives and a renewed development strategy.

A Better Uniformity and Consistency

OREX's history has deep roots, beginning in a garage where the company established its first headquarters thirty years ago, and extending to its current headquarters in Chybie, a small Polish town where the company has established its operations, elegantly renovating a monumental historic building. And it is within its current headquarters that OREX has developed its own production chain, capable of covering all stages of production, transforming projects directly into reality. Indeed, having all the main departments under one roof enables efficient communication, faster decision-making, comprehensive production supervision, and flexible project customization. These considerations led to the creation of the machinery production and automation departments, the mold production area, the steel processing center, and the design department. All elements of a single production chain, organized to optimize communication and process productivity.

Speed Up the Process

At the heart of OREX's production are the CAROUSEL and SHUTTLE machines, the company's flagship products, the result of extensive development over time to deliver exceptional quality and operational efficiency. Their technical solutions guarantee exceptional precision and operational stability, even during the most demanding processes. Continuous investment in technology ensures





SIEMENS servomotors ensure precise positioning and smooth movement of the rotating arm, making it extremely functional for automated processes.





excellent energy efficiency and extraordinary reliability. This generation of machines features a series of key elements that ensure high performance and long-term reliability. SIEMENS servomotors ensure precise positioning and smooth movement of the rotating arm, making it extremely functional for automated processes. The dual thermocirculator, with two independent heating channels, allows for more effective mold heating, resulting in improved productivity. The SAFETY system, with advanced safety scanners positioned in front of the heating and cooling chambers, ensures constant machine monitoring. Another key aspect of rotational molding machines lies in the challenge of reducing heat loss and thus rationalizing energy consumption. To this end, the cooling chamber is designed with an automatic door closure that limits the time it remains open to the absolute minimum. Machine operation is managed through specific company software that operators can control via a large touchscreen interface: this allows them to constantly monitor machine performance and intervene promptly when necessary.

Fully Comprehensive Solutions

OREX ROTOMOULDING's role goes far beyond the production of rotational molding machines; it also includes a full range of customer support services, developed before, during, and after system installation. The OREX team assists users with conceptual analysis, cycle design, parameter selection, production start-up, and process optimization. This partnership-based model ensures customers receive customized solutions based on their specific needs, significantly improving production efficiency. OREX also provides comprehensive training, especially for operators who work closely with the machines. Once installed, each OREX machine is supported by constant and ongoing support, allowing for the resolution of any technical issues over time.





2. Inside Technology

Daniele Zorzan

Rotomachinery Group, Italy

Evolving To Grow



Text by Roberto Gonne

Corporate evolution is a fundamental strategic imperative for ensuring long-term survival, growth and competitiveness, particularly in a highly competitive sector such as rotational moulding. Evolution driven by technological development enables us to adapt to constantly changing markets and emerging demands. For Polivinil Rotomachinery, constant innovation is not merely a choice, but a necessity to stand out from the competition, expand its international presence and meet the needs of increasingly sophisticated moulders and manufacturers.

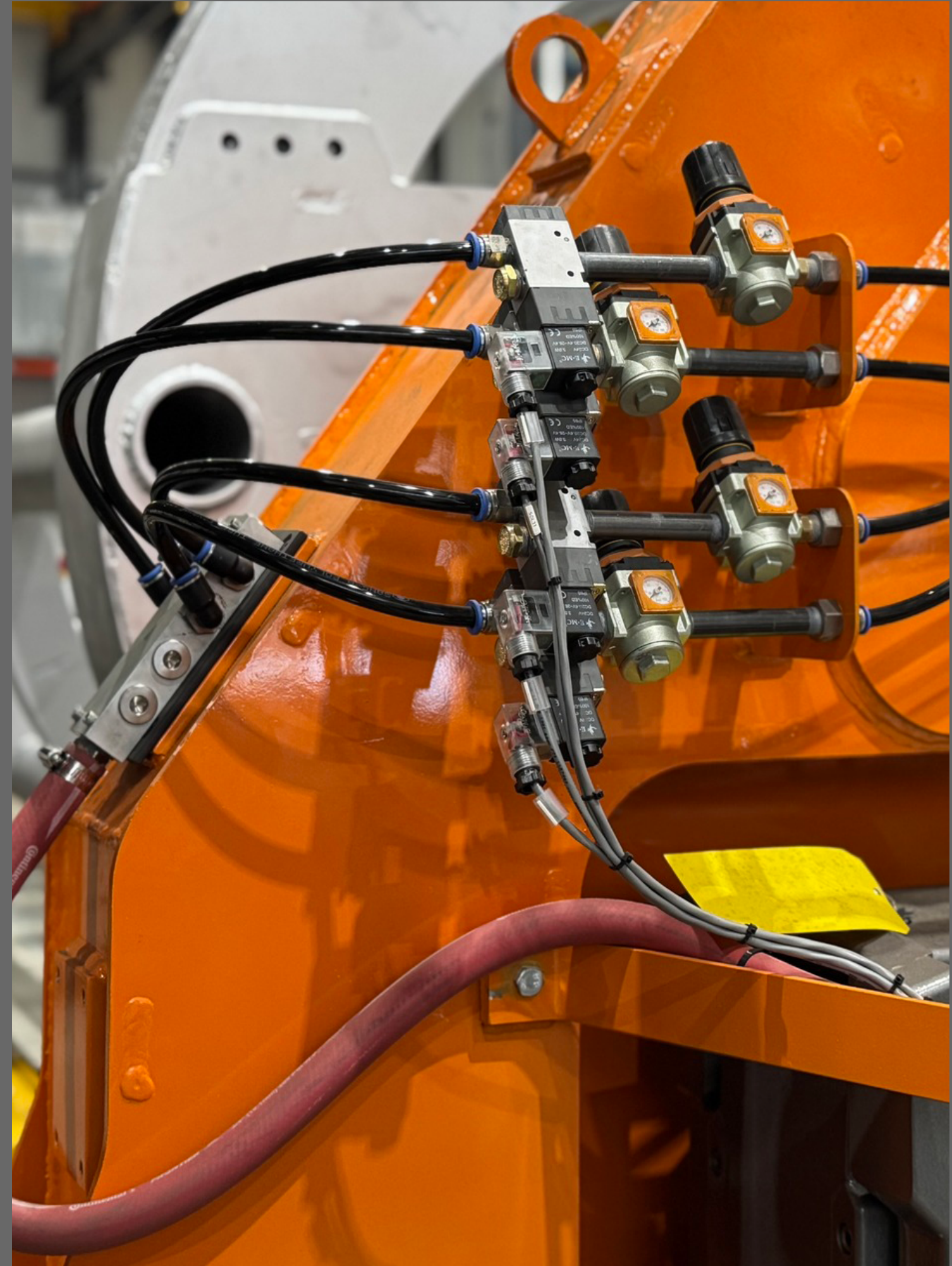
Daniele Zorzan, CFO of Polivinil Rotomachinery, how important is it in the rotomoulding world to remain constantly open to technological and system evolution?

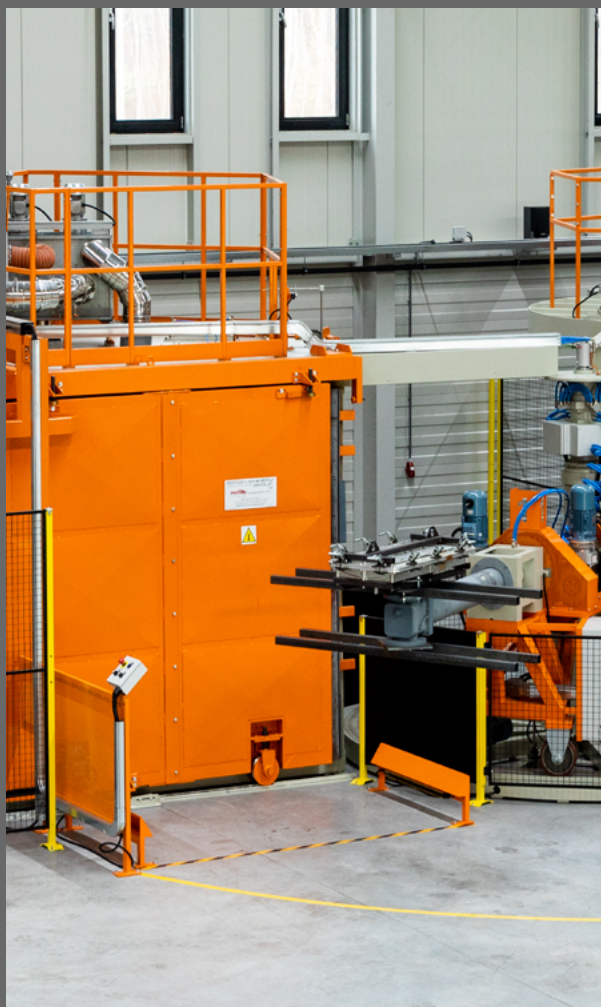
I believe that rotational moulding companies are particularly exposed to a specific challenge related to the need to constantly transform and improve: companies that fail to innovate risk rapid decline, while those who adopt cutting-edge technologies and renew their products and business models consolidate their market position. Innovation allows us to create lasting value and avoid being dominated by market dynamics. Polivinil Rotomachinery is currently engaged in two major, deeply interconnected challenges: on the one hand, the constant innovation of its machinery to make it increasingly high-performance and reliable, and on the other, the constant improvement of ancillary services, particularly related to the management and monitoring of our plants.

Rotational moulding machines are gradually evolving from standalone production systems to becoming part of a digital infrastructure that allows for networked monitoring and management: what is your approach in this regard?



“This new service provides our customers with updated production reports and detailed statistics that provide a snapshot of the machine’s status and enable them to decide how best to utilize it.”





We strongly believe in the need to develop a common platform that allows us and our partners to manage, control, and optimize the operation of our machinery. With this in mind, we have created an online service accessible from a dedicated portal that allows remote management of our systems, including a dashboard for machine operation that can be managed from multiple devices. This new service provides our customers with updated production reports and detailed statistics that provide a snapshot of the machine's status and enable them to decide how best to utilize it.

In this context, how important can AI be in supporting system control and identifying potential issues?

We have developed an AI model applied to our systems, designed to support operators by managing and processing a large set of parameters related to the operation of each machine. The great potential of using artificial intelligence lies in the ability to manage all the data from our machines installed in every country, acquiring their values and subsequently formulating case studies to resolve any operational issues. In other words, thanks to artificial intelligence, we are able to accumulate internationally widespread know-how from each of our individual customers and use it to solve concrete problems. internal cavity capable of replicating even micro details faithfully, precisely, and reliably.

What other services are associated with this remote "check-up" you provide for your systems?

This system has allowed us to offer a comprehensive and personalized archive that provides access to a whole range of essential content for in-depth knowledge of the systems, such as technical drawings of the system, operating manuals, a detailed list of available spare parts, and all the technical

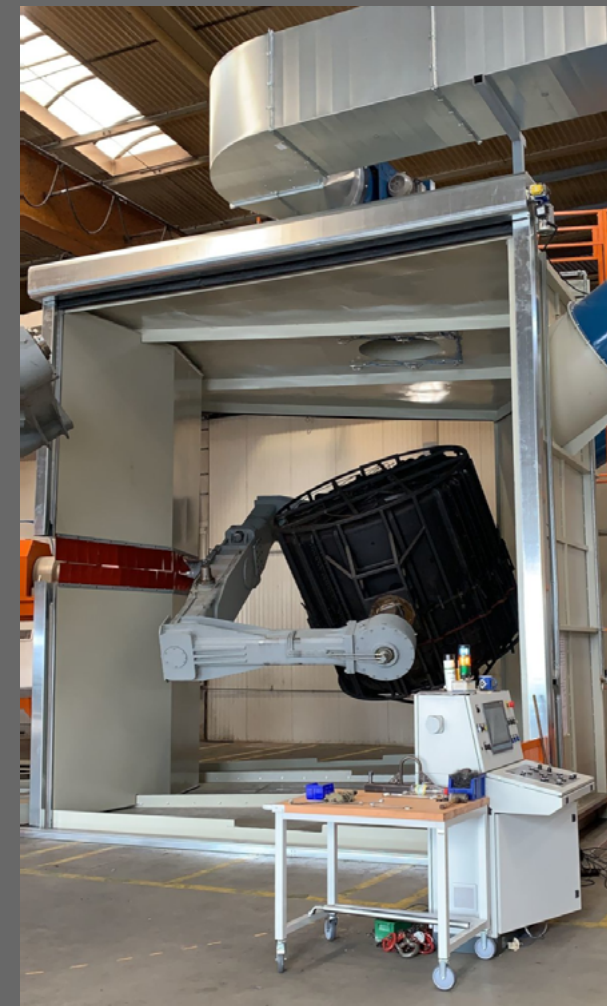
documentation accompanying each machine. In other words, the machine remains hardware, but its operational heart becomes entirely software, constantly and directly available to all connected users. Obviously, remote management of each system requires the machine to be equipped with sensors and equipment capable of recording every detail and performance.

These new procedures also mark a significant shift in the relationship between man and machine in rotational moulding: from the idea of an operator managing the plant, working directly and in close contact, we're moving to a more remote process...

Yes, of course, this is a trend that first developed in other plastic moulding sectors, such as blow moulding and injection moulding, but is now becoming increasingly popular for rotomoulding as well. This remote management of plants also significantly improves the production management process because, from the moment an order is received, the machine can be directly set to execute it, according to defined and codified procedures, times, and methods. In North America, where we have a company operating, this new management method for rotomoulding production is already a must, a necessary element that allows management to remotely monitor multiple production sites and closely monitor their performance.

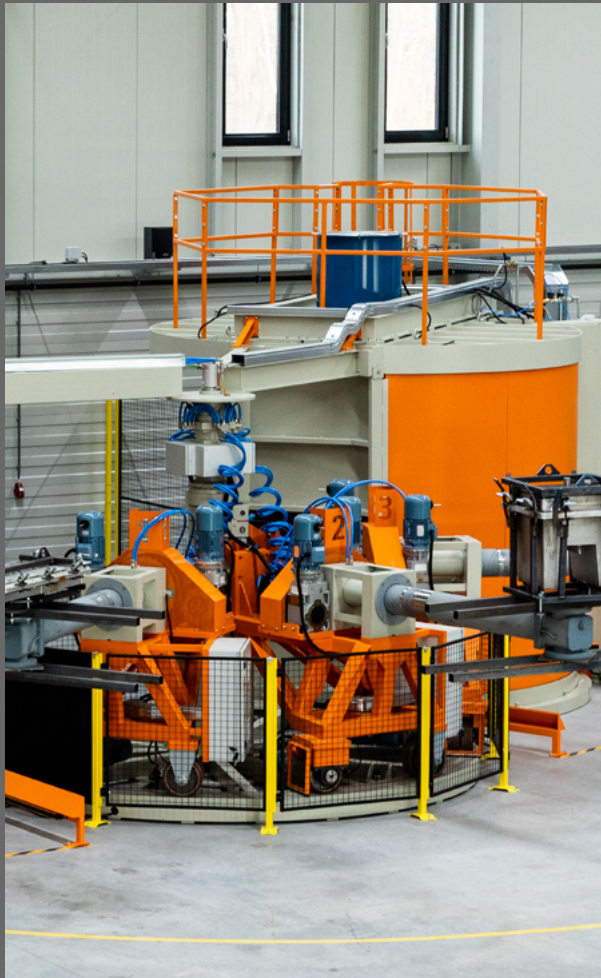
Does the introduction of this new digital infrastructure also impact your support for existing systems?

Exporting machinery worldwide means we interact daily with customers who speak different languages and operate in different time zones. In these cases, having a common platform where our experiences are catalogued and filtered



“The new operating platform certainly allows us to improve efficiency, including in terms of selecting replacement parts: by navigating on line the 3D views of its machine customers can precisely identify the component by sending us encoded data that prevents interpretation errors.”





allows us to remotely resolve a significant number of issues, reducing the need for travel and streamlining communication methods. The AI-powered troubleshooting chatbot available for registered users becomes increasingly reliable and efficient in resolving issues, providing quick and effective solutions. We have created an international network that allows us to view machines installed worldwide at any time of day, remotely analyze those that are operating and those that are not, and, last but not least, perform preventative maintenance. The highly sophisticated system allows us, for example, to monitor the presence of excessive vibrations on board the machine, suggesting the correct maintenance method to address this issue. All this translates into a substantial reduction in machine downtime and, consequently, increased plant productivity.

How are spare parts managed?

The new operating platform certainly allows us to improve efficiency, including in terms of selecting replacement parts by navigating on line the 3D rendering of the machine: customers can precisely identify the component by sending us encoded data that prevents interpretation errors. All these innovative elements now allow us to clearly differentiate ourselves from those machine manufacturers operating in emerging countries that are unable to offer this set of collateral services, limiting themselves to simply supplying hardware.

Are you gradually evolving from being a machine-only manufacturer to a service provider?

It represents an extremely important and significant milestone: being a plant manufacturer means operating within a niche market where demand is by its very nature inconsistent, with periods of peaks alternating with periods of natural slowdown. Our

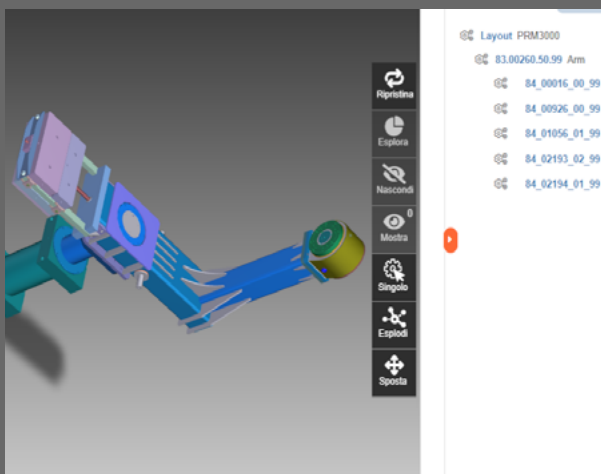
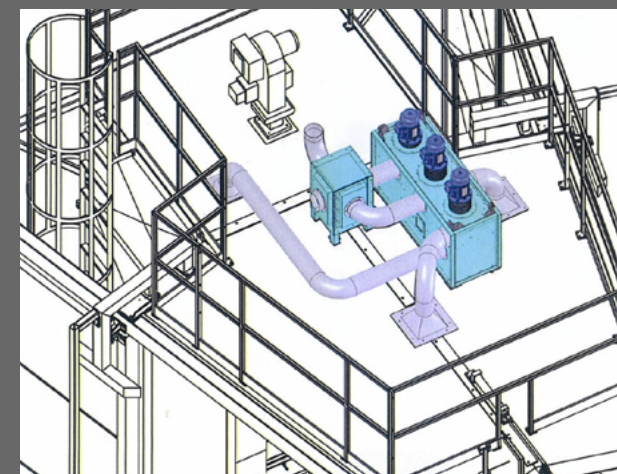
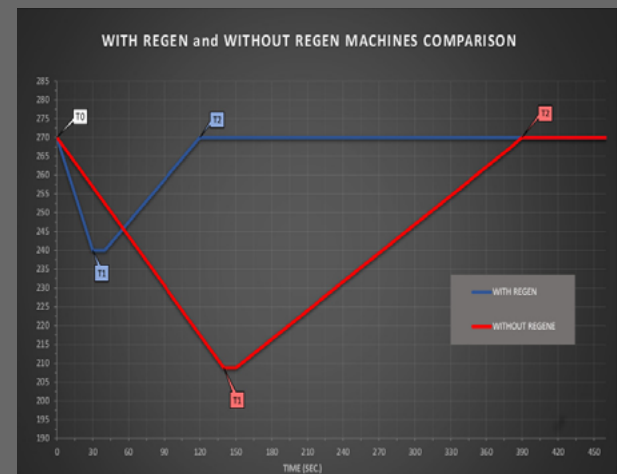
support services, on the other hand, allow us to enter a new, more consistent and continuous market, where our partners subscribe to our services in exchange for ongoing collaboration and support: an ideal combination for growing together.

One of the key areas in the production of rotational moulding machines is energy efficiency, specifically related to reducing consumption: how are you addressing this?

The progressive increase in gas costs and the current macroeconomic scenarios are driving us every day to develop innovative solutions to rationalize energy consumption. From this perspective, we have worked to develop technological solutions aimed at eliminating, in whole or in part, our dependence on gas. The first step in this journey is hybrid machines, which use gas only during the initial phase of the cycle to heat the oven to the required temperature. Once the required temperature is reached, electrical heating elements kick in, powering the cycle with clean energy instead of fossil fuels.

What are the most significant innovations in your systems regarding heat containment?

With the Regen system, in the presence of mechanical friction, our machines regenerate lost energy by converting it into electricity, which is then reused by the machine itself. The peak in energy regeneration occurs when the oven fan is stopped within seconds of the end of the cooking cycle. This minimizes the escape of hot air from the oven while simultaneously taking advantage of the accelerated movement of the doors. Ecomode allows the burner to be turned off when the oven is empty or the temperature drops below a certain set point. With the burner off, the oven extractor operates at minimum, reducing the amount of hot air expelled and therefore saving energy.



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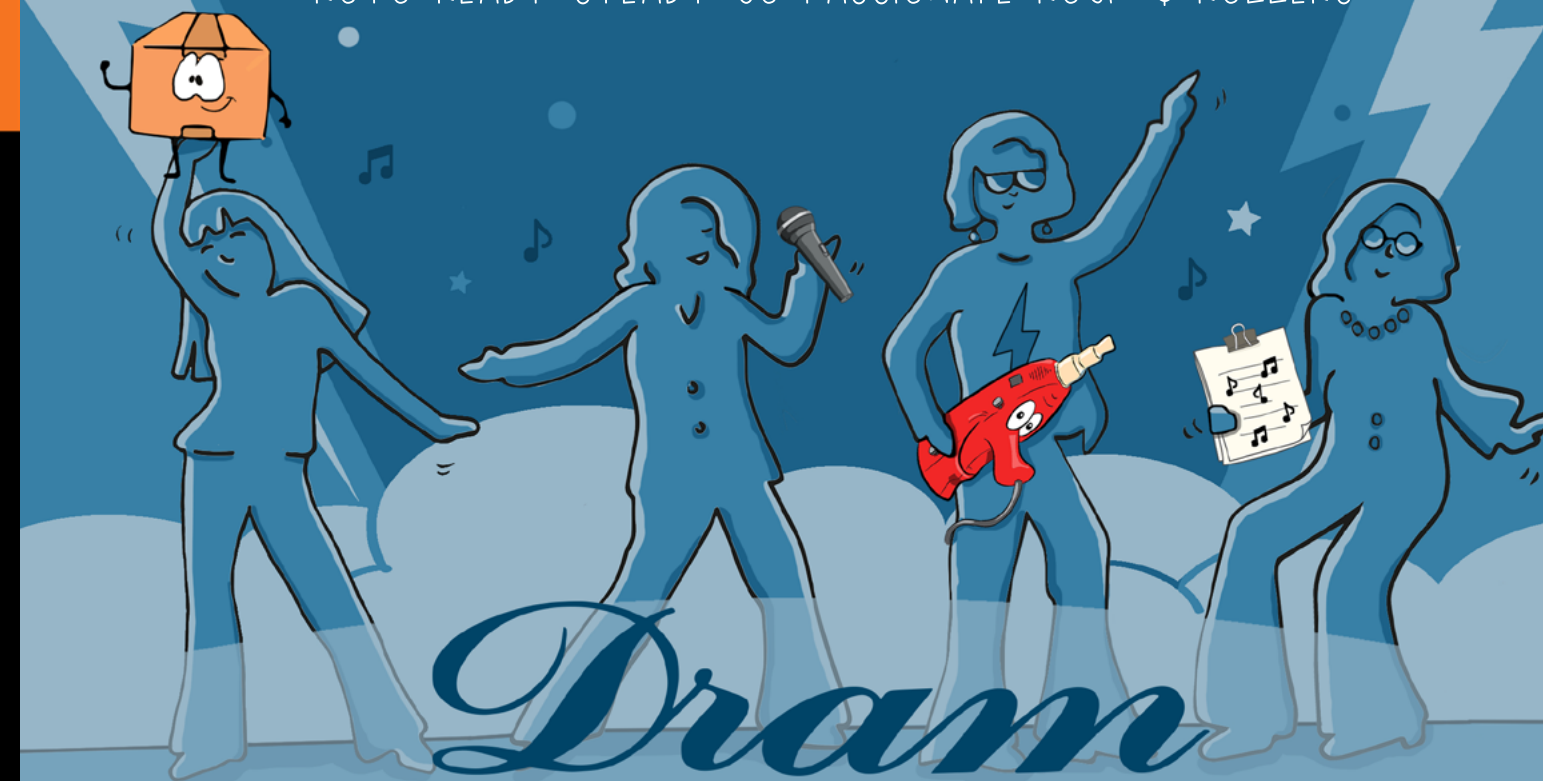
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3. Explore Automation

Persico Group

SMART Evolution



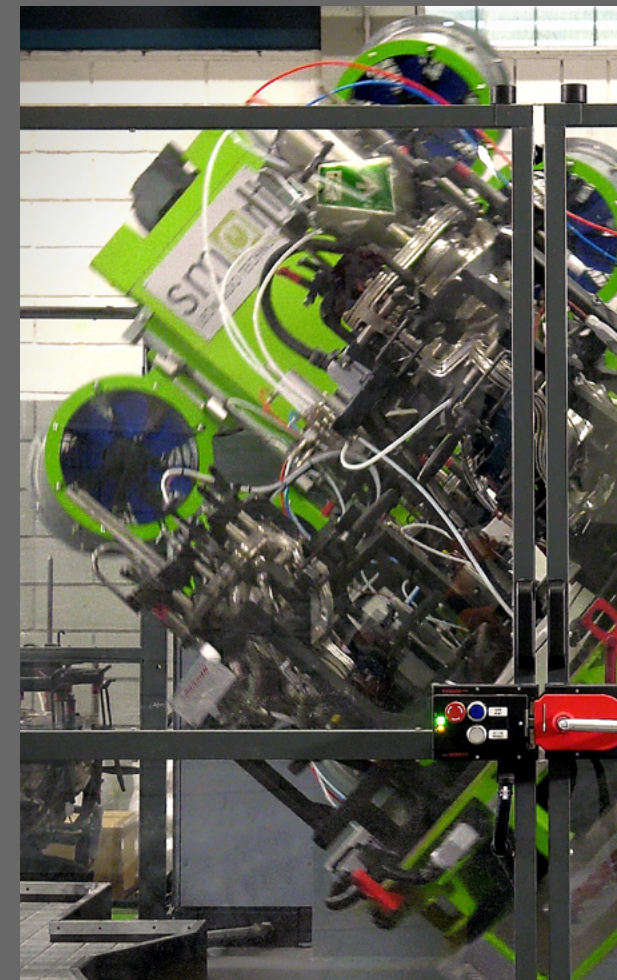
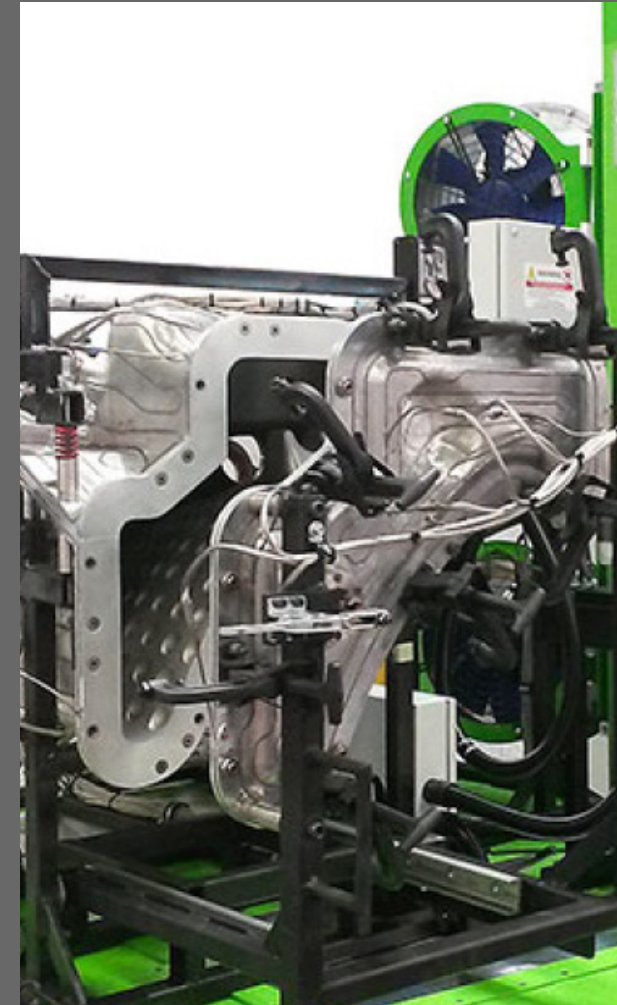
Text by Elena Chechet

New Technological Developments

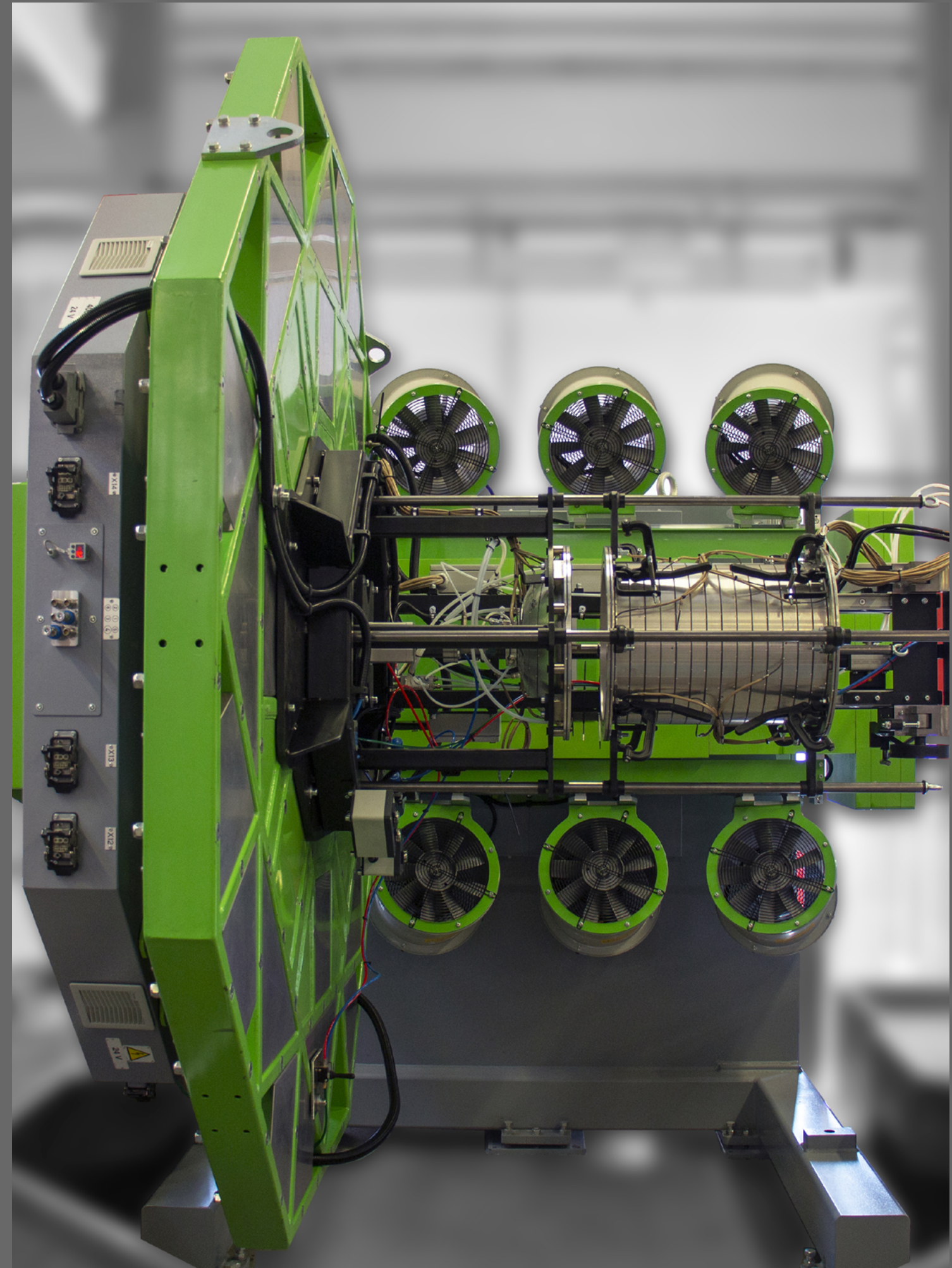
Rotational moulding is a constantly evolving technology, where new performance, materials, and production systems can significantly improve productivity and moulding capabilities. With this in mind, Persico Group's SMART technology enables the creation of advanced, fully or partially automated machines for the production of seamless hollow parts, using direct tool heating to ensure maximum efficiency. SMART technology guarantees significant energy savings compared to traditional processes and introduces significant new possibilities for the application of a wide range of polymers in rotational molding. The ability to control wall thickness allows for a reduction in the amount of material used, resulting in significant savings in raw material consumption. Furthermore, shorter and more repeatable cycles translate into reduced system energy consumption and shorter molding times.

Expand the Usable Materials

The introduction of new polymeric materials in the rotational moulding process enables the development of new applications, capable of meeting specific performance and aesthetic requirements that are not always achievable with traditional polyethylene. This gives designers and manufacturers a wider range of options, allowing them to choose from different types of polymers to identify the one that best meets their performance requirements. Regarding the plastic materials that can be used, the reduction in product deformation allows the use of a wide range of polymers beyond PE, such as PA6, which can be used in both liquid and powder form, polyethylene, XLPE, polypropylene, EVA, PLA, polycarbonate, PEEK, polystyrene, polyester, water-soluble polymers, PVA, ABS, EVOH, and PVDF.



Rotomoulding with SMART technology also becomes compatible with recycled and bio-based polymers, eliminating direct CO₂ emissions from fossil fuel combustion, supporting sustainable material choices for new applications.





Each polymer offers a set of opportunities that can solve specific needs for each type of product, thus increasing the potential of using rotational moulding as an alternative to other materials and technologies. Rotomoulding with SMART technology also becomes compatible with recycled and bio-based polymers, eliminating direct CO2 emissions from fossil fuel combustion, supporting sustainable material choices for new applications. Furthermore, electric heating enables the introduction of a multilayer moulding system, with the integration of foam cores and advanced material combinations to meet diverse performance requirements.

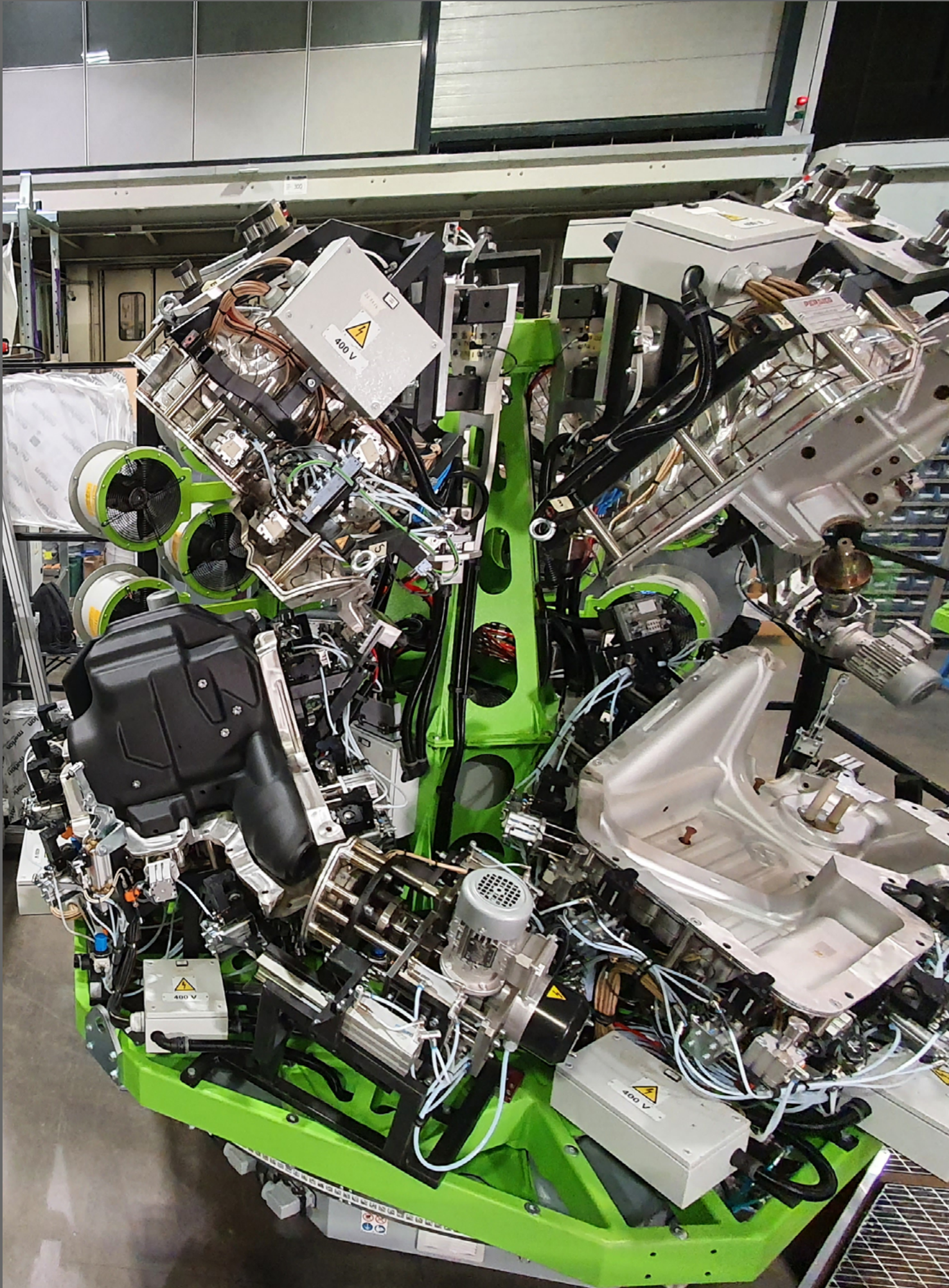
More Efficiency With Less Energy

Reducing energy consumption represents a key challenge for the entire rotational moulding industry and from this point of view, SMART technology offers important new opportunities to combine lower consumption with zero emissions. Direct mould heating reduces energy consumption while ensuring exceptional accuracy and control over the structural integrity of the final product. SMART technology also enables real-time data feedback for mid-cycle quality monitoring and immediate adjustments, ensuring product consistency and minimizing material waste. Heating and cooling cycles are independent, using controlled heating zones to optimize polymer utilization, reducing raw material costs and waste.

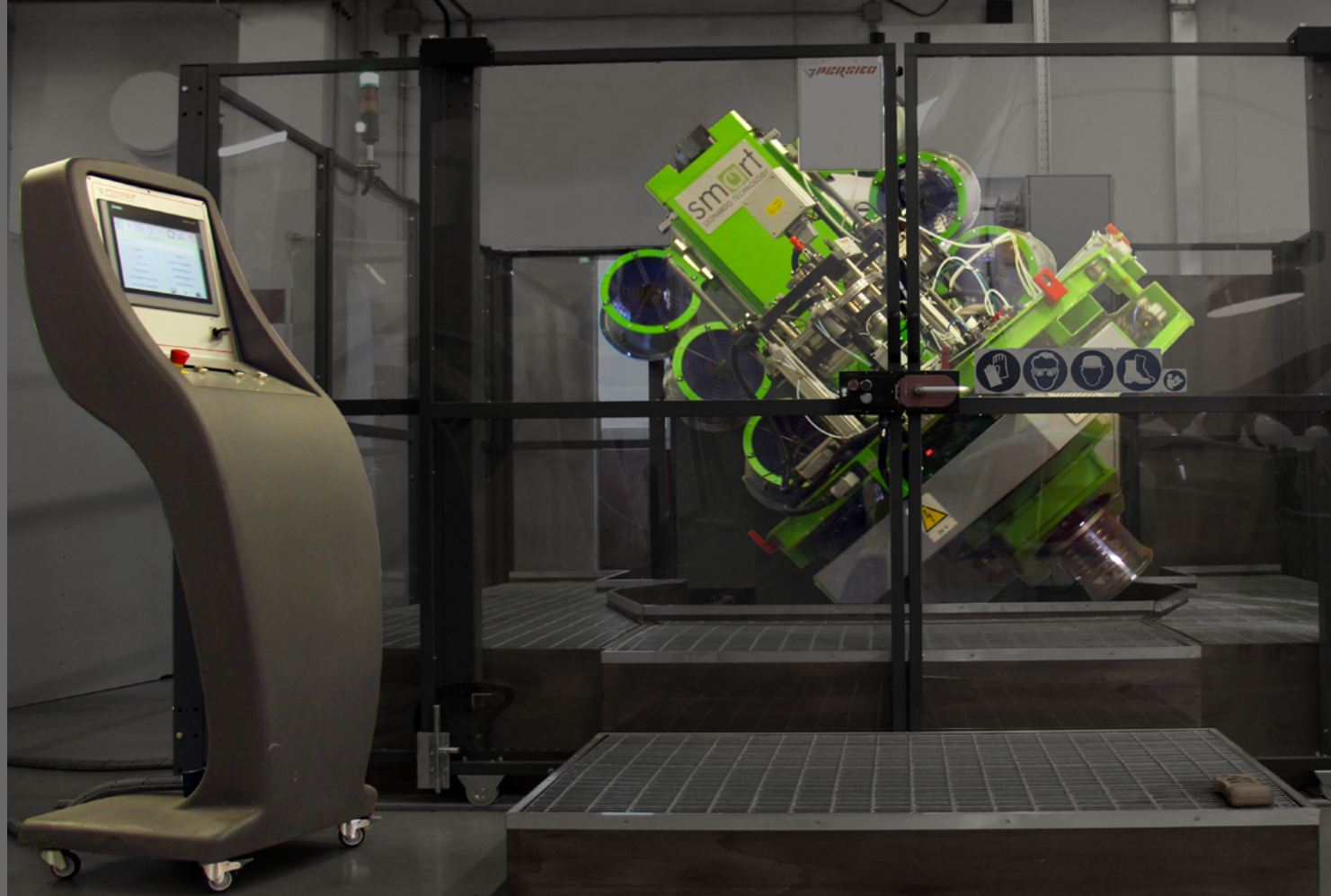
DTH (Direct Tool Heating) technology

One of the most impactful innovations in roto moulding is the use of Direct Tool Heating (DTH) technology. Traditionally, manufacturers heated molds externally using large ovens, which caused uneven heat distribution and longer cycle times. DTH technology solves these issues by applying





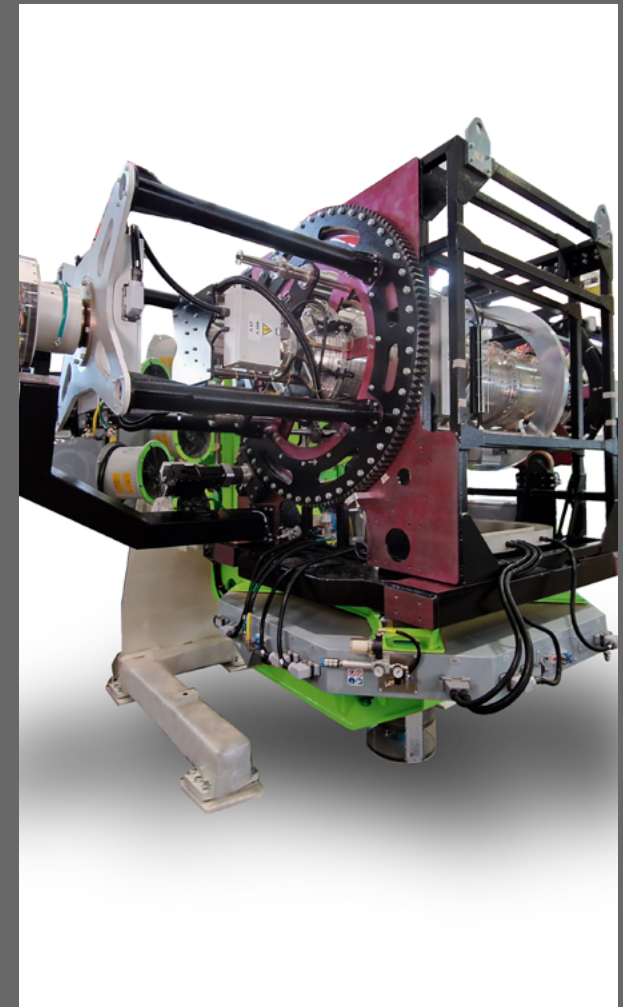
DTH shortens cycle times, which enhances overall production efficiency and enables manufacturers to work with a broader range of materials. This includes advanced polymers and recycled materials, further expanding the versatility and sustainability of the manufacturing process.

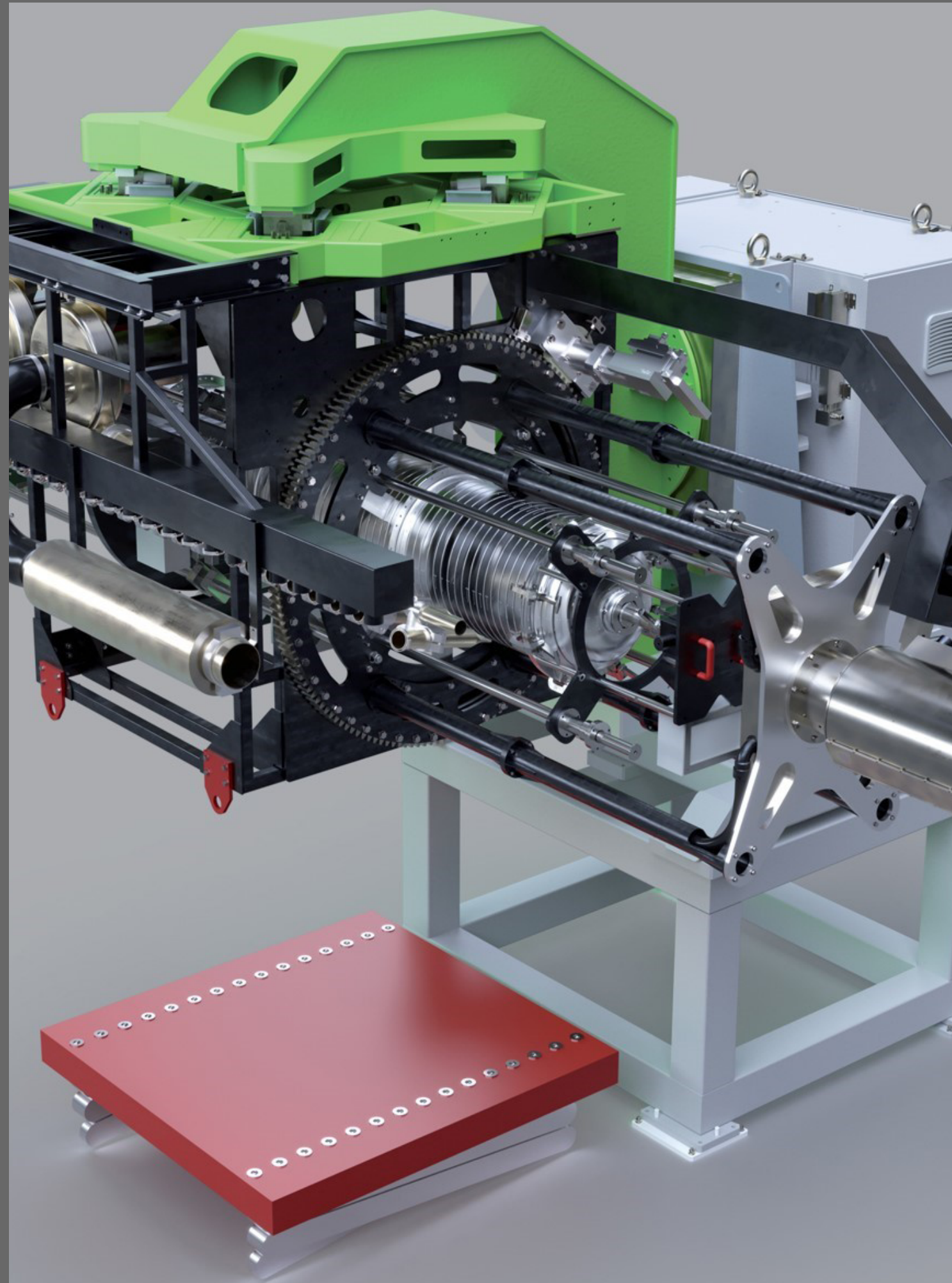


heat directly to the mould, ensuring precise temperature control inside and outside. As a result, it improves material distribution, leading to higher-quality products and significantly reducing energy consumption. Moreover, DTH shortens cycle times, which enhances overall production efficiency and enables manufacturers to work with a broader range of materials. This includes advanced polymers and recycled materials, further expanding the versatility and sustainability of the manufacturing process. The inner atmosphere can also be controlled with pressure, vacuum, nitrogen and internal cooling. All this translates into a series of advantages in terms of production efficiency: a significant reduction in material consumption is achieved thanks to the DTH system's ability to vary the thickness based on the project. The manufacturing process is optimized thanks to the monitoring and control of the temperature inside and outside the mould, while cycle times are also reduced thanks to the mould pressurization. Furthermore, the internal vacuum allows for the removal of air bubbles, while the presence of inert nitrogen in the internal atmosphere significantly reduces the polymer oxidation process. Cycle times are shortened thanks to the mould pressurization, and mould cooling times are reduced thanks to the automatic venting and internal cooling.

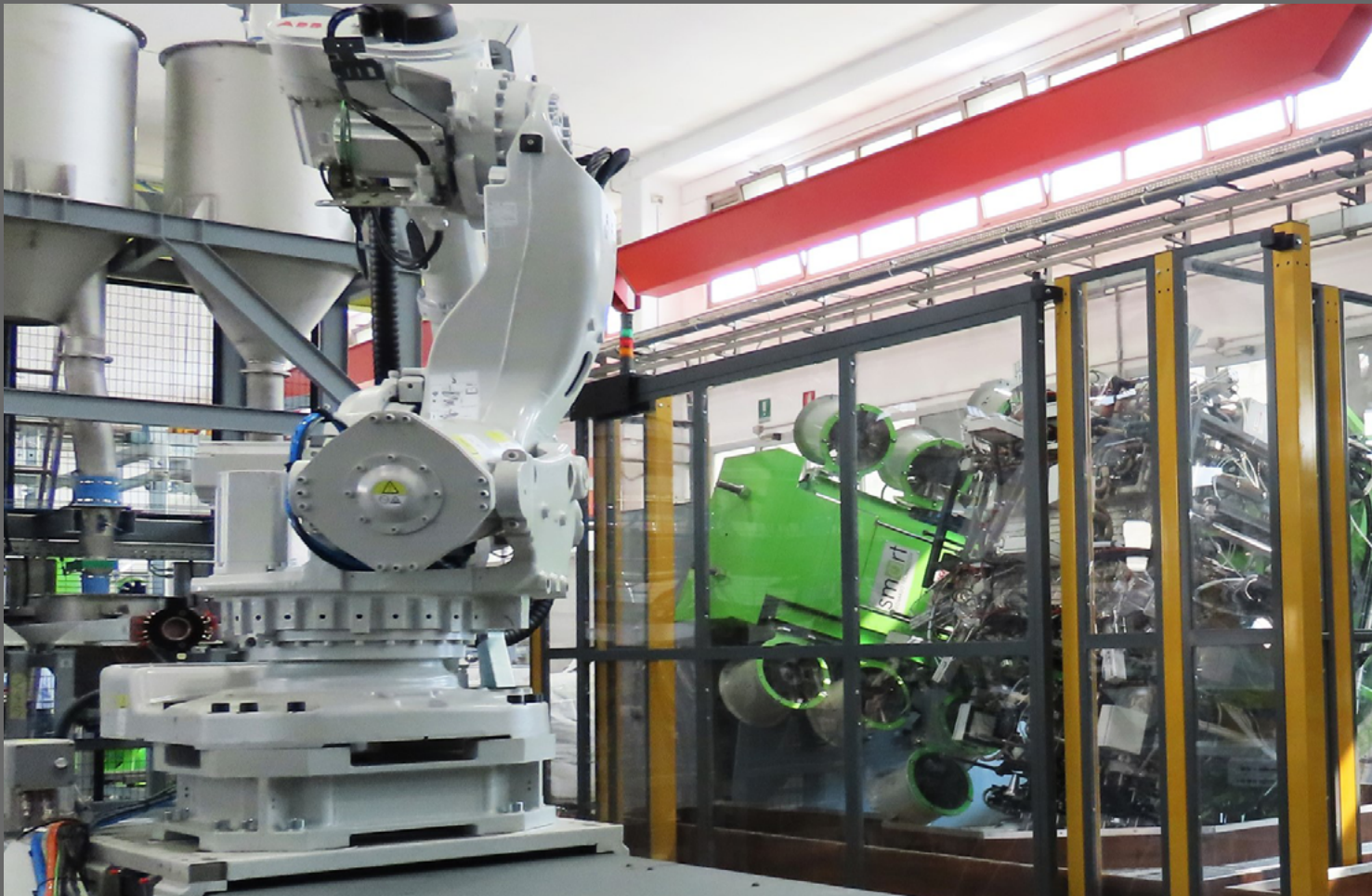
Hollow Seamless Liners

Having been asked over recent years by customers to provide production systems for manufacturing liners for H₂ and CNG tanks, a specific new generation machine has been developed. This SMART H₂ machine provides state of the art production of hollow seamless liners in a variety of polymers using highly developed rotomoulding technology. Persico can provide design assistance, full product development, toolmaking, prototyping and pre production.





SMART is a flexible machine, available in a wide range of configurations to suit every specific requirement and production model.



Three Different Alternatives

SMART is a flexible machine, available in a wide range of configurations to suit every specific requirement and production model.

The manual configuration is suitable for situations where the operator or production process requires significant operator intervention. In this case, the process remains programmed and automatic, but all loading and unloading operations are carried out manually.

In the semi-automatic configuration, operation is similar to the manual version but with the automation of all or some of the key operations, such as: opening and closing the mould via a pneumatic system, weighing and dosing the powder, releasing and ejecting the moulded parts from the mould, and inserting and removing loose parts and threaded components into and from the mould.

Finally, in the fully automated configuration, one or more SMART machines can be combined with one or more robots to create a fully automated production cell. This cell can be supplied fully tested and delivered as a turnkey solution, ready for mass production



4. Constant Innovation

AMS Robotics

The Potential Of Robotic Moulding



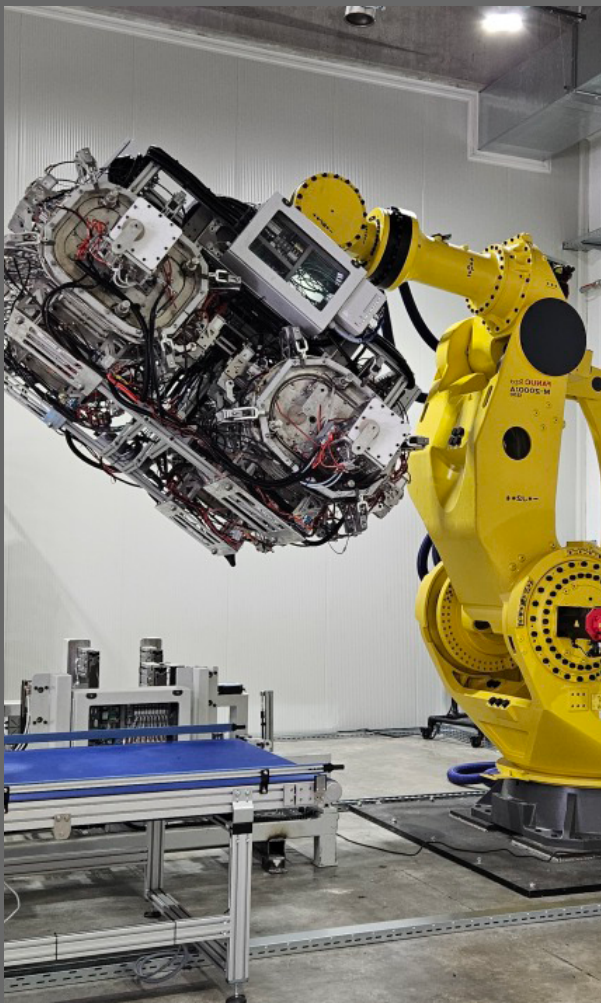
Text by Sarah Morrison

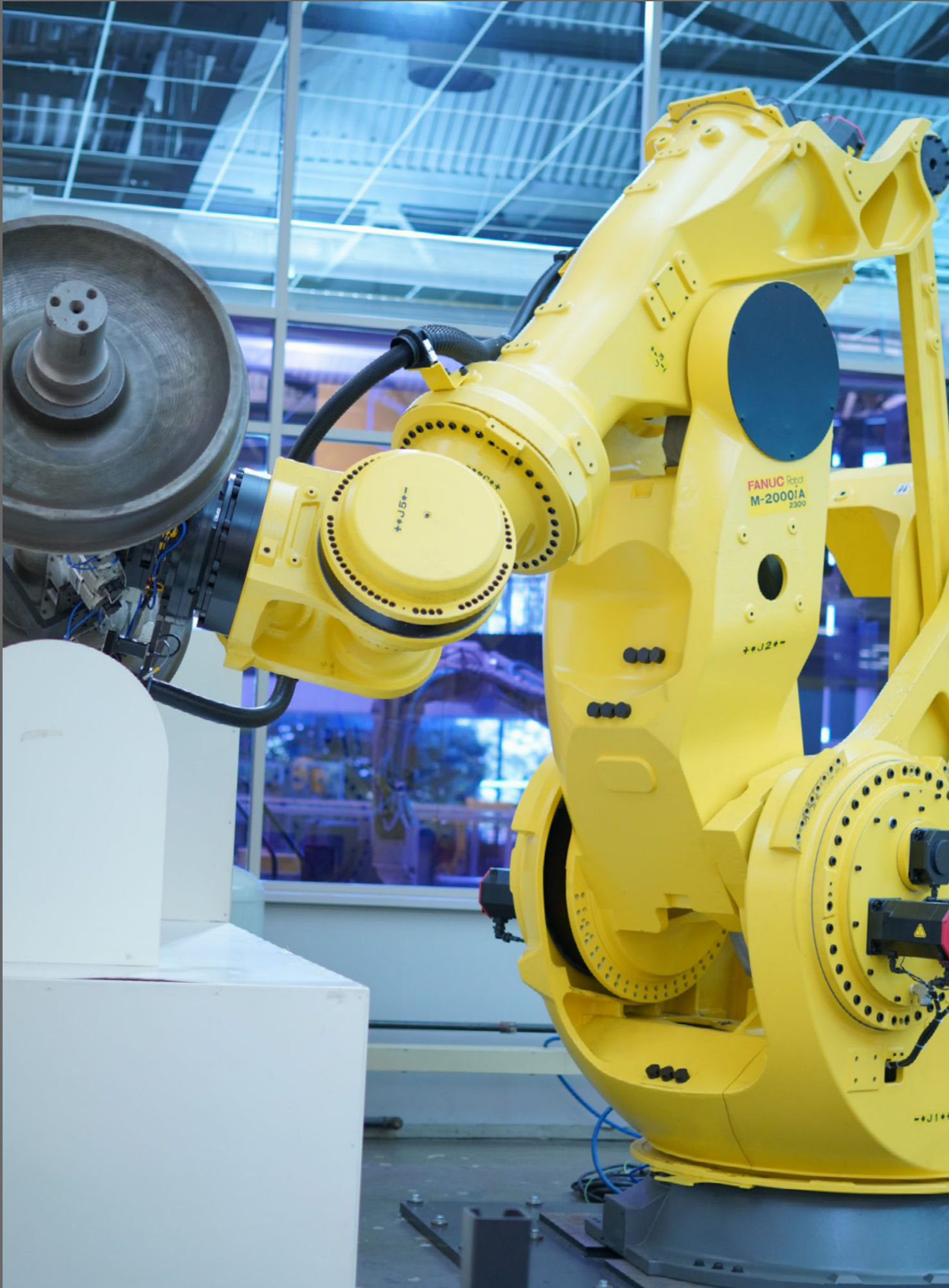
AMS Robotics was not only the first company to introduce robotic rotational moulding but also created the conditions for a series of evolutions that profoundly impact moulders. A new development model is emerging as a result of robotic production and produces a series of key advantages that can propel the company towards results that until recently seemed unrealistic. Exploring the implications of Robomould technology therefore represents a journey filled with interesting insights for achieving a new level of efficiency and productivity through rotational moulding.

Improving Work Conditions And Efficiency

For many decades, rotational moulding developed as a technology that required the constant presence of operators near production facilities. Loading, moving, and unloading moulds is a very physically demanding activity, requiring operators to work alongside machines that generate high levels of heat while lifting and moving significant weights. The direct consequence of these environmental conditions is that there is generally a high and constant turnover of machine operators. In other words, it is often difficult to find personnel willing to work in such difficult and extreme environmental conditions, especially during the hottest periods of the year. Improving the environmental conditions in which rotational moulding operators operate is now more than ever a key challenge for the entire industry, a necessary step towards making rotational moulding technology increasingly efficient and manageable.

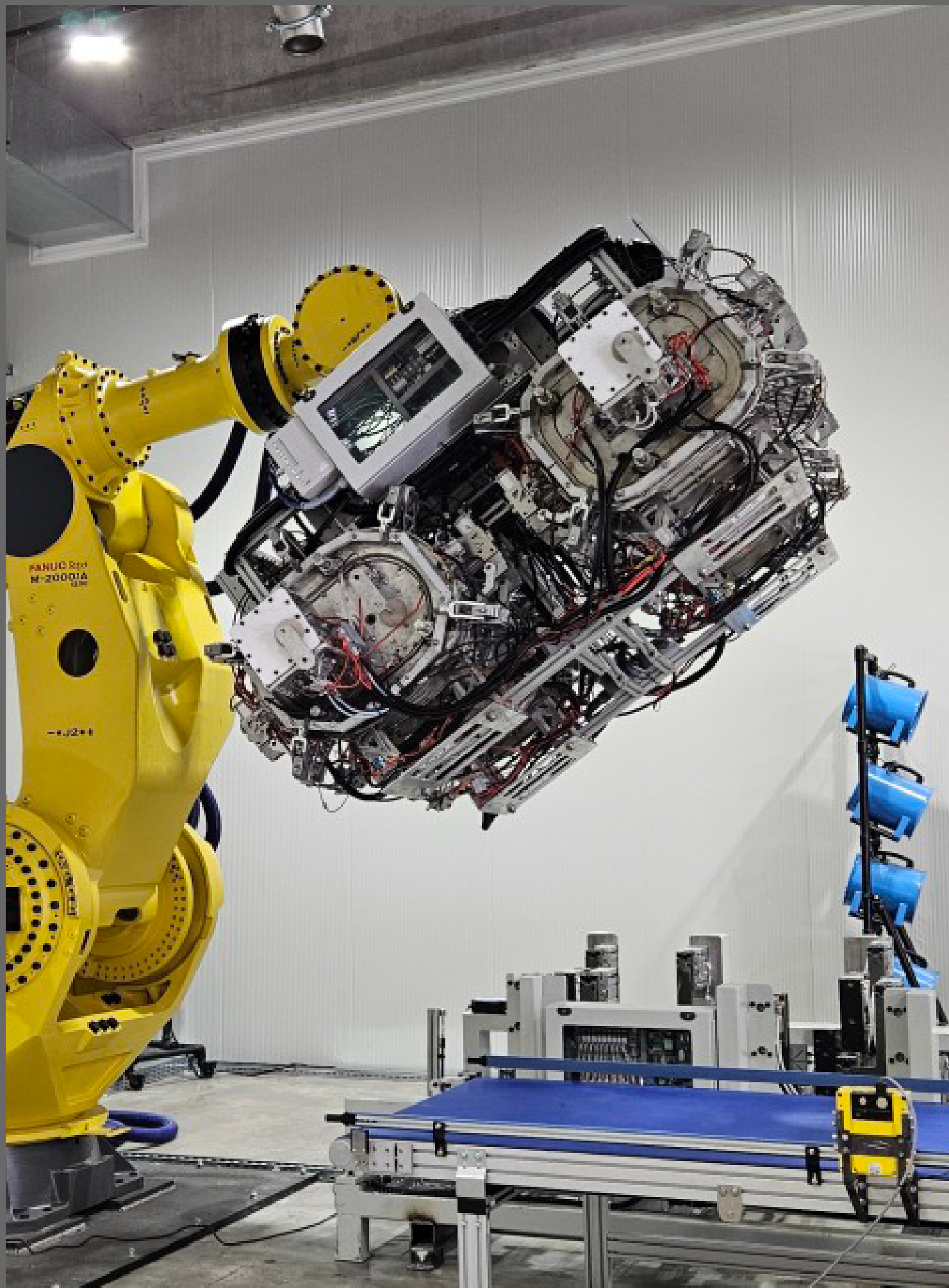
From this perspective, AMS Robotics' robotic systems revolutionize the approach to plant management, abandoning the idea of hot and dirty environments to develop automated production in clean environments where the presence of operators is completely different from traditional systems. The area in front of the machines is no longer subjected to high temperatures reaching +40°





Key features of AMS Robomould's production technology are:

- . Less manpower and less energy results in products 20 to 30% cheaper**
- . 50% higher production and better quality thanks to automation**
- . Less material and less scrap rate**
- . Eco-friendly and sustainable technology**
- . Turnkey full automated process and delivery of machines and moulds as one package**



Celsius, but thanks to the electrically heated moulds, the workspace is more livable.

But it's not just the environment surrounding the plant that improves, but also the role of operators: in robotic systems, personnel are no longer required to open and close the mould; this operation is fully automated. All of this also affects the condition of the moulds, which are not at risk of structural damage due to manual force applied by operators when opening with keys or metal pins. In this case, the mould has an automated opening that guarantees precision and repeatability over time, ensuring long-lasting molds and reduced maintenance.

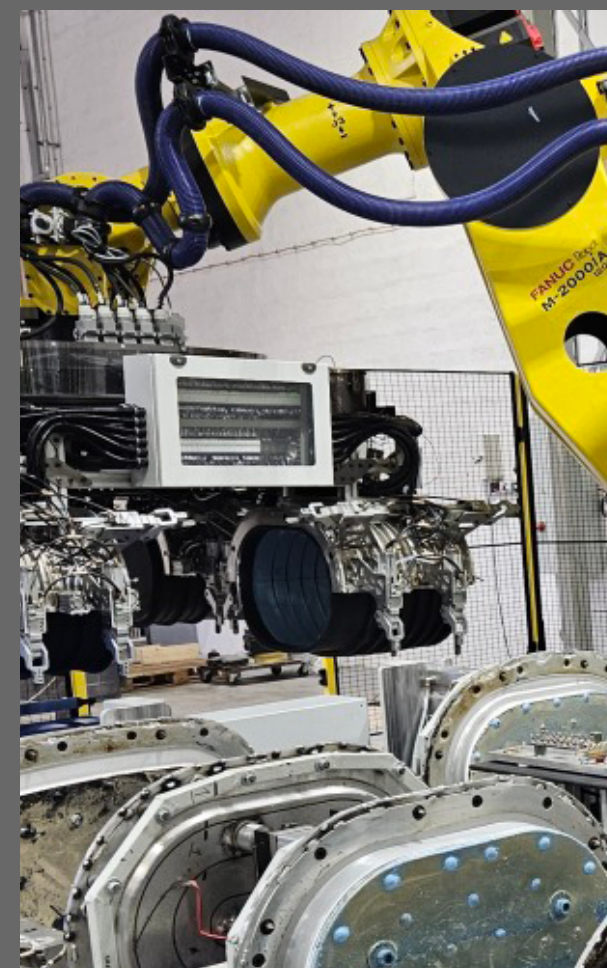
Integrated Production Management

The introduction of AMS robotic systems within rotational moulding companies represents a turning point in many ways, even when addressing a single area of the production plant. However, robotic systems unleash their full potential when adopted extensively and in a coordinated manner within the production unit. In these cases, AMS Robotics plays a key role, enabling every part of the production plant to communicate with each other to achieve maximum productivity while reducing production costs.

It's no coincidence that extensive automation has become popular in recent years in the broader automotive sector and is increasingly evident in the food industry. In both cases, these are global and financially strong sectors, which have also managed to achieve significant economies of scale thanks to the massive deployment of robots. This great potential has now gradually spread to SMEs as well, who are increasingly embracing rotational moulding, offering a new production model that reduces costs and significantly increases production quantities.

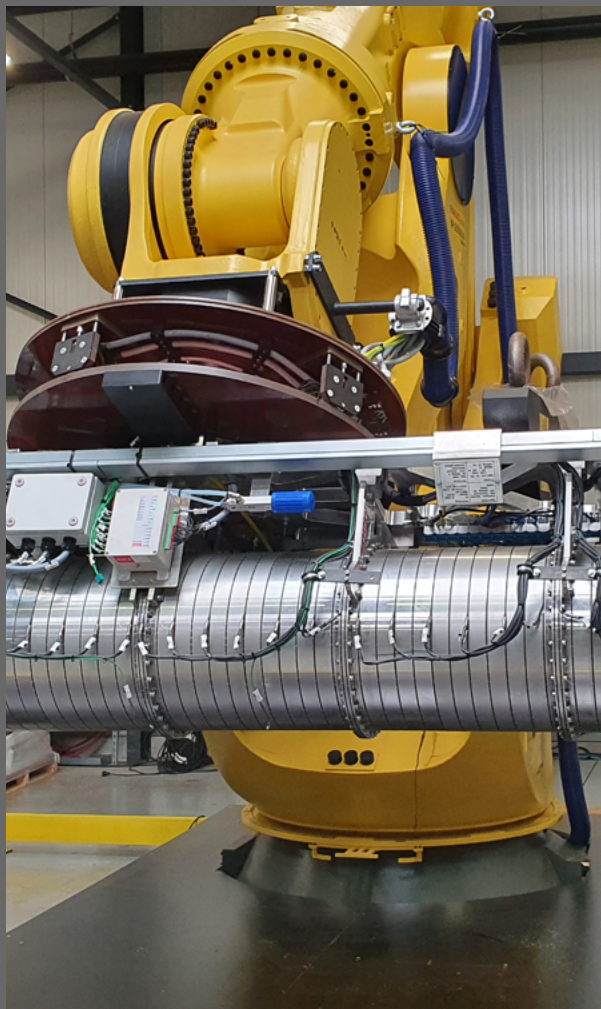
Redesigning the Factory To Make It More Competitive

The introduction of robotics in rotational moulding does not





Robots represent a strategic opportunity for the rotational moulding industry to offer efficient production in highly competitive international markets: it's not just a question of costs but also of high productivity compared to other competing technologies with which rotational moulding must compete to carve out new market spaces.



necessarily mean a reduction in jobs, but rather represents a significant opportunity to reorganize the production model by deploying personnel more efficiently and effectively. The major transition currently underway in the rotational moulding industry is based on the conversion of manual labor into more coordination and managerial work, that is, the progressive reduction of physical labor alongside machines, which is being shifted to other tasks upstream and downstream in the production chain. Robots represent a strategic opportunity for the rotational moulding industry to offer efficient production in highly competitive international markets: it's not just a question of costs but also of high productivity compared to other competing technologies with which rotational moulding must compete to carve out new market spaces. Robotizing production lines potentially reduces the production gap between rotational moulding and other moulding technologies such as blow moulding and thermoforming, thanks to the potential for increasing plant production efficiency in terms of both hours worked and volume of work produced.

New Applications Through The Robotic System

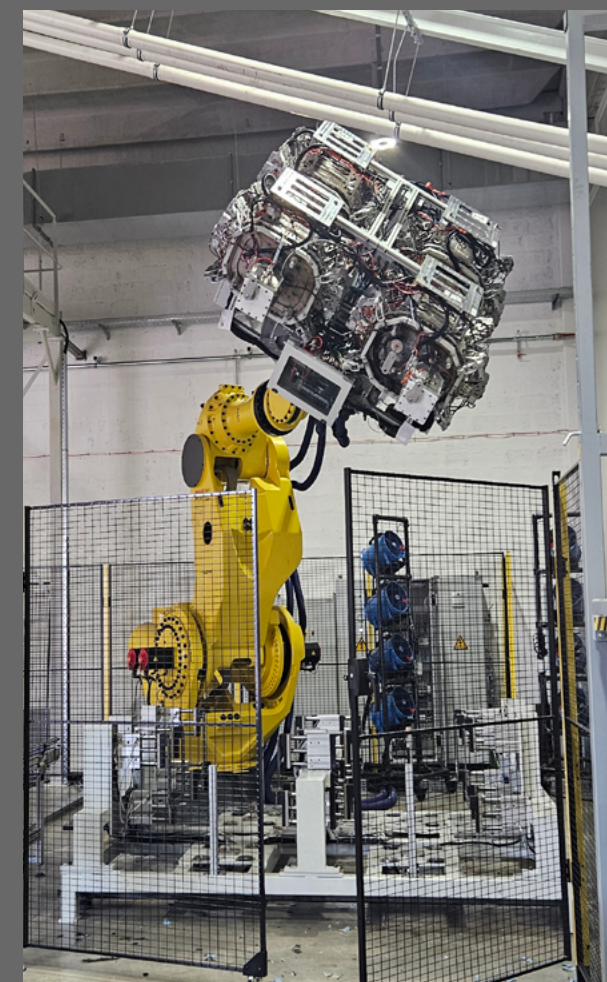
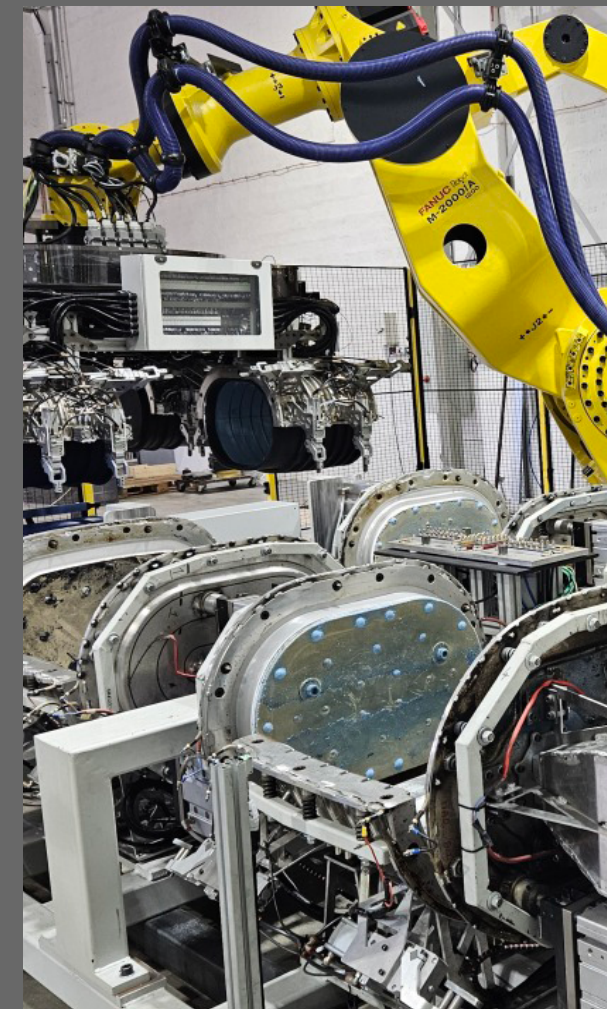
Robomould technology opens up important new possibilities for rotational moulding applications, both within and outside of established sectors. Through robotic moulding, it is possible to create high-volume products that until now have been largely the prerogative of other technologies: for example, in the automotive industry, the production of vehicle body components is now also possible through rotational moulding. In other words, while until now the production of rotomoulded parts in the transport vehicle sector has focused primarily on tanks and containers, new opportunities are now opening up that also affect the vehicle's external aesthetics. The same can be said for other product types, such as components for the aeronautical industry, agricultural machinery, boats, or military components: in all these



cases, rotational moulding offers a concrete opportunity to offer a valid and efficient alternative to existing technologies, leveraging its intrinsic flexibility. The other development driven by robotization is that of applications in new product sectors, i.e., market niches that have so far been little or not explored by rotational technology. From this perspective, turning our attention to the public transportation sector, there are numerous potential uses for rotationally moulded products for public vehicles, from buses to trains, from ships to new types of vehicles for urban mobility. Ultimately, AMS Robotics' robotic systems not only offer manufacturers the opportunity to achieve greater efficiency at a lower cost, but also open the door to new opportunities that every company is called upon to consider and seize through a visionary medium- to long-term approach.

The Coming Development: From Robot To Cobot

The constant evolution of robotic systems is progressively expanding their potential within rotomoulding factories: the robot is transforming into a new cobot, a collaborative machine capable of working side by side with other human operators in complete safety. To this end, it features, for example, adjustable safety limits, such as robotic arms that can be stopped manually. Industrial robots are typically fixed to the worksite and surrounded by fences to protect other workers from large, heavy robotic arms. A cobot, on the other hand, is designed to automatically turn at a slower speed when people appear nearby. If you get too close, it will warn you. Over time, cobots will bridge the gap between humans and robots: they will ensure that humans and robots truly work together to produce top-quality rotomoulded products, as a team where each entity creates synergies. Furthermore, these cobots can benefit from advances in artificial intelligence by directly processing a wealth of highly detailed data with the aim of constantly improving the entire production process.





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5. Produce Efficiency

Reinhardt Teknik, India

Vadodara, India

Constantly Evolving Technology



Continuously Advancing Technology

Sustainability remains a fundamental focus in Reinhardt's manufacturing philosophy and a driving force behind its evolution. Reinhardt Teknik has been at the forefront of innovation, introducing advanced hybrid and fully electric rotomoulding machines to the global market. These systems are engineered to significantly reduce carbon emissions by leveraging cleaner electric energy. Hybrid machines offer substantial gas savings—around 20%—while also lowering air emissions, creating a more environmentally responsible and efficient production environment. The fully electric models, with higher connected loads, consume approximately 1.1 kW per kilogram of processed polymer, making them particularly advantageous in regions with competitive electricity costs.



A Comprehensive Service Ecosystem

Reinhardt is committed to supporting customers throughout their entire growth journey, applying its expertise to maximise operational efficiency and profitability. The company provides a complete range of services designed to ensure seamless installation and optimal machine performance. Its in-house team of industrial engineers and rotomoulding specialists delivers hands-on training and process support during commissioning, ensuring machines perform in line with evolving production demands. Structured training programmes for operators further ensure a thorough understanding of machine operations. Ongoing collaboration forms a key part of this support system, with customers having access to prompt technical assistance whenever needed. Reinhardt offers





Today, Reinhardt Teknik's presence spans over 52 countries across all major continents, supporting consistent global growth while effectively addressing the diverse needs of rotomoulders and their applications.



comprehensive support both remotely and on-site, along with 24/7 global service coverage—from Iceland to South America and Australia.

German Reliability And Indian Efficiency

Rotational moulding machines manufactured by Reinhardt India are built in close collaboration with Reinhardt GmbH. Critical components are sourced from Europe and assembled in India, ensuring exceptional quality and dependability. This partnership has resulted in highly reliable systems, with many machines installed decades ago still operating efficiently and delivering consistent productivity.

Bespoke Machines For Every Requirement

A defining strength of Reinhardt machines lies in their ability to be tailored to specific customer needs. Each system can be designed and configured to suit different applications, ensuring optimal performance for the intended rotomoulded products. Every customised solution is treated as a unique challenge—carefully aligning Reinhardt's technological capabilities with the productivity objectives of the customer. Reinhardt also manages installation and commissioning, conducting detailed test runs to ensure every component performs flawlessly.

A Global Network

To ensure the timely delivery of high-quality products and services, Reinhardt Teknik has built a continuously expanding international network that connects rotomoulders across the globe. This network enables seamless supply of accessories, auxiliary equipment, and support services worldwide.

Today, Reinhardt Teknik's presence spans over 52 countries across all major continents, supporting consistent global growth while effectively addressing the diverse needs of rotomoulders and their applications. Each customised solution is approached as a unique challenge—carefully aligning Reinhardt's technological capabilities with the productivity objectives of every customer.



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**IN LINE SHUTTLE
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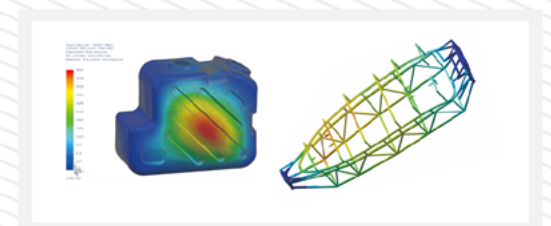
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6. High Productivity

Ferry Industries

Stow, Ohio, USA

Built On Innovation, Engineered For Performance



For nearly a century, Ferry Industries has built its reputation on innovation, durability, and a deep understanding of what rotomoulders need to compete and grow. What began as a machine shop in 1927 evolved into one of the most globally recognized names in rotational moulding equipment, with Ferry RotoSpeed machines operating around the world, in more than 60 countries, and supporting manufacturers across a wide range of industries.

A Flexible and Efficient Product Line

At the heart of the Ferry offering is the RotoSpeed® line, a versatile family of rotational molding machines designed to meet the needs of both emerging companies and high-volume global manufacturers. From independent-arm carousel systems and fixed-arm turret machines to inline shuttle machines, from rocking ovens to lab machines, RotoSpeed® offers manufacturers the flexibility to choose a solution that fits their production goals, plant layout, and product mix. Whether producing large hollow parts, specialty components, or conducting development trials, Ferry offers equipment designed to ensure consistency, efficiency, and long-term reliability.

An Integrated System for High Performance

What makes RotoSpeed® especially compelling is that it is more than a machine platform, it is a complete performance system. RotoSpeed® machines include energy-smart ovens and high-efficiency cooling capabilities, providing high-performance production at reduced costs. Ferry pairs its machines with advanced technologies that help moulders improve cycle control, product quality, and operational visibility. Building on decades of knowledge and experience, RotoSpeed® has become the standard for high-performance rotational moulding worldwide thanks to improved production efficiency and significantly reduced energy costs.





For manufacturers looking for more than equipment, Ferry Industries delivers a proven partnership. With decades of engineering expertise, a global footprint, and a commitment to advancing rotomoulding technology,



An Innovative System for Machine Monitoring

RotoCure® System Manager provides intuitive machine control, recipe management, trending, and production data. InfraRed Thermometry (IRT) helps optimize heating and cooling by adapting cycle with real-time mould surface temperatures. RotoLog® 5.0 Wi-Fi gives moulders critical in-mould diagnostic data, helping them fine-tune cycles, reduce scrap, and improve repeatability. With RotoCycle simulation software, processors can also evaluate throughput and utilization to make smarter production decisions before changes hit the floor.



Proven Expertise in Rotational Moulding

Ferry also supports the full moulding environment with accessories and auxiliary equipment designed to enhance safety, material handling, and operator efficiency. From work platforms and wireless remotes to powder dispensing systems, mixers, and barcode labeling tools, Ferry's solutions are built to strengthen the entire manufacturing process.

For manufacturers looking for more than equipment, Ferry Industries delivers a proven partnership. With decades of engineering expertise, a global footprint, and a commitment to advancing rotomoulding technology, Ferry continues to help processors move faster, mould smarter, and build with confidence. Ferry Industries, when performance counts...



7. Energy Efficiency

Rotoplastic

Samarate, Italy

A New Generation Of Machinery



Since 2019, Rotoplastic has developed a new generation of rotational moulding machines, born from extensive engineering experience in the sector and with the specific aim of introducing substantial technological innovations. Today, Rotoplastic's machinery offers customers substantial benefits, such as the optimisation of production processes – thereby reducing costs and lead times – lower energy consumption, and reduced pollutant emissions, all of which help to significantly reduce the environmental impact.

Towards Complex Systems

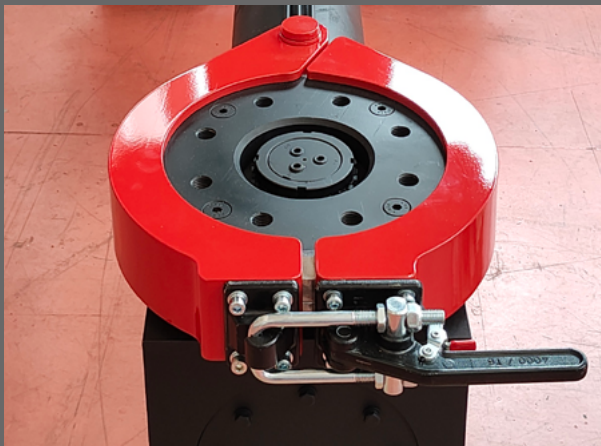
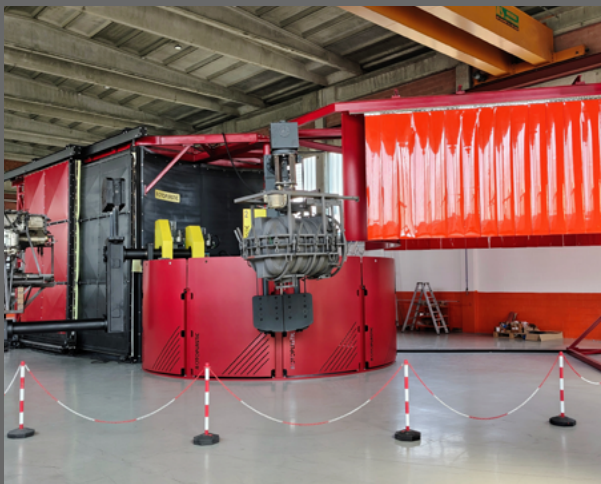
Rotoplastic's main mission is to advance rotational moulding machines – moving from the mechanical engineering market to the development of complex systems, where electronics, software and engineering work together to optimise production processes, simplifying the use of the systems and enabling increasingly effective remote support. The company's strength lies in technical, mechanical and electronic design, as well as in software development.

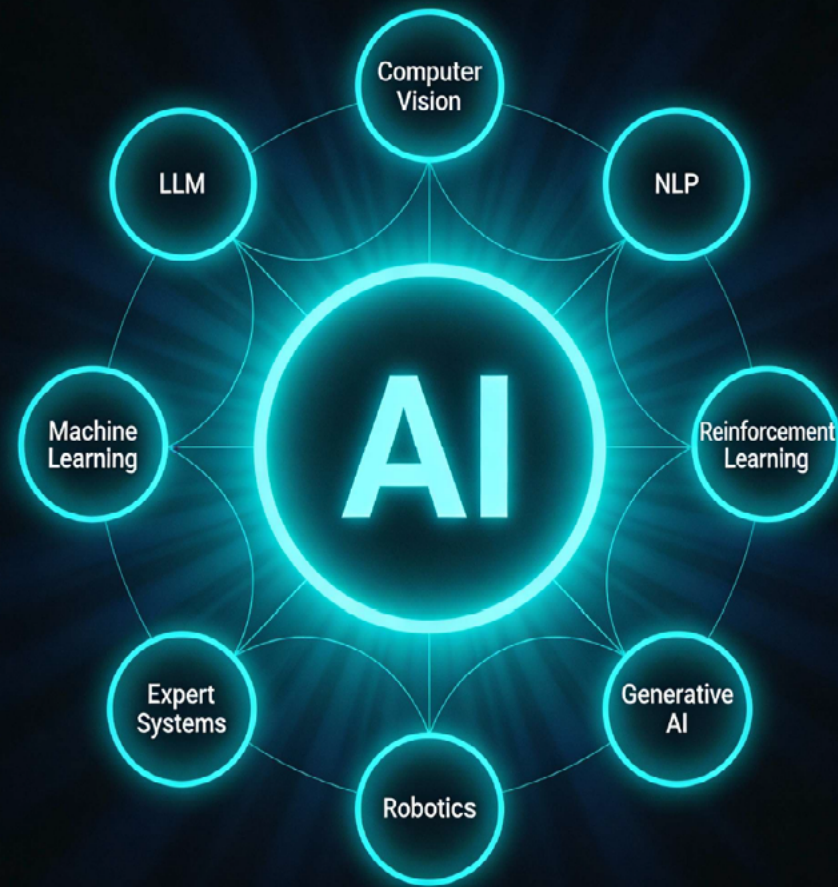
Lower Energy for Better Performance

Rotoplastic manufactures rotational moulding machines fitted with low-emission Weishaupt PLN burners, air-flow burners and the Dual-Power (Beex) system for hybrid operation. All machine frames are constructed from metal profiles and high-efficiency insulation panels.

More Efficient Heating

The oven, constructed from steel sheet panels, mineral fibre and ceramic fibre, allows an internal temperature of 350–370 °C to be reached whilst keeping the external wall temperature at around 40 °C. Thanks to the open heat exchanger, the combustion chamber can reach 600 °C, thereby creating energy storage. Furthermore, CO emissions are less than 25 mg/m³ of air, whilst NOx emissions are less than 40 mg/m³ of air.





The integration of AI into Rotoplastic technology enables us to expand and enhance our understanding of the correct technological processes applicable to rotational moulding systems. AI provides instant expert-level answers, 24/7 availability, and optimised parameters for any season or environmental condition.

Our AI Brain



Better Control of the Hot Air Flow

The speed control algorithm, linked to the air temperature, enables air ventilation within the moulding chamber using significantly lower electrical power compared to older-generation machines. This makes it possible to use a parallel-shaft gear motor, thereby completely eliminating the power losses in the transmission associated with traditional belt drives. Furthermore, high-efficiency inverters and IE3 motors also ensure that energy consumption is kept to a minimum. This system results in up to 50% lower power consumption in the moulding chamber.

Greater Cooling Efficiency

The cooling station is equipped with cooling fans with a flow rate of 40,000 m³/h. Furthermore, thanks to the SUPERMIX system, which uses only compressed air and tap water, the machines are able to significantly reduce cooling times without any liquid spilling onto the floor, whilst also achieving considerable water savings.

Optimising Machinery Management Through AI

A Large Language Model (LLM) is a specialized AI trained to understand and respond to human language in natural, intelligent ways. When trained on domain-specific knowledge it becomes an expert conversationalist that can answer your technical questions with precision and depth. The integration of AI into Rotoplastic technology enables to expand and enhance our understanding of the correct technological processes applicable to rotational moulding systems. Through AI, users have continuous access to constantly updated data and parameters, enabling them to manage their production facilities as efficiently as possible. This significant innovation provides operators with timely and detailed information, offering guidance and solutions to help them optimise their machinery settings in order to achieve high-efficiency, high-quality rotational moulding. AI provide instant expert-level answers, 24/7 availability, Optimized parameters for any season or environmental condition.



8. Special Projects

Rising Sun

Wenling City, China

Galaxy Villa Architecture Integrated With Nature



Text by Elena Chechet

As urban life narrows the gap between humans and nature, people increasingly yearn for a dwelling that returns to wilderness and embraces nature. BST Tech and Rising Sun Rotomolding share a core philosophy: exceptional architecture should extend nature, not intrude on it. Guided by this, they jointly developed the Galaxy Villa, Spaceship, boats and other series.

Rooted in Nature, Living in Harmony

Traditional buildings, limited by land policies, construction conditions and ecological protection, can hardly blend into pristine landscapes like mountains, lakeshores and woodlands. Modern vacation demand has evolved from mere accommodation to immersive nature experiences — waking up to views and lying under starry skies. To resolve this conflict, BST Tech and Rising Sun Rotomolding adhere to “minimal intervention, maximum integration”. They abandon rigid construction thinking to create movable, low-energy, lightweight dwellings that preserve original landforms, allowing people to enjoy modern comfort while reconnecting with nature.

Galaxy Villa: A Blend of Aesthetics & Practical Technology

As the flagship product, its shell is integrally rotomoulded from food-grade polyethylene by Rising Sun — safe, durable, corrosion-resistant and recyclable, in line with sustainable concepts. The internal composite insulation structure optimizes heat and sound insulation, maintaining a constant indoor temperature. With modular production, it is easy to assemble, disassemble and transport, enabling rapid on-site installation. Equipped with an intelligent control system and full-view skylights, it maximizes viewing horizons. Top-mounted solar panels harvest clean energy for daily use, reducing energy consumption.





We insist on developing these products because we believe the best architecture lets nature take center stage. Unlike buildings designed to conquer nature, BST Tech and Rising Sun Rotomolding use rotomoulding technology to break traditional boundaries — no permanent land occupation, no ecological damage.



Extended Lineup: Diverse Forms, Unified Harmony

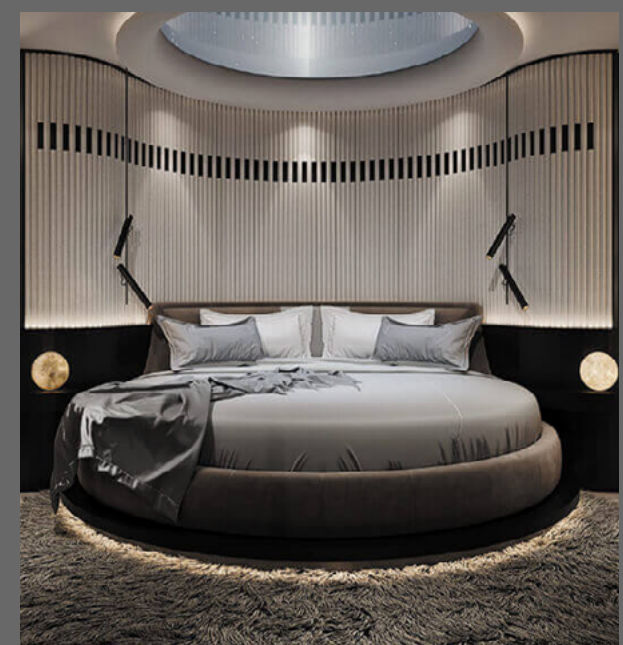
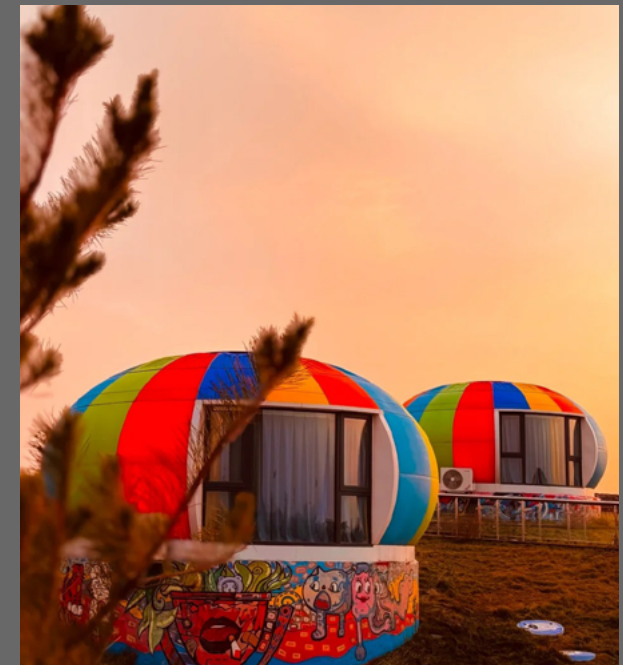
Beyond the Galaxy Villa, the series includes Spaceship (streamlined for waterscapes), boats (lightweight for waterfront leisure), space capsules, tents (ultralight for convenience) and expandable houses (for space expansion). All follow themcore coexistence logic, tailored to different natural terrains to blend seamlessly into the environment.

Leave Space Blank, Let Nature Lead

We insist on developing these products because we believe the best architecture lets nature take center stage. Unlike buildings designed to conquer nature, BST Tech and Rising Sun Rotomolding use rotomoulding technology to break traditional boundaries — no permanent land occupation, no ecological damage. The Galaxy Villa is more than a vacation lodge; it's a lifestyle to slow down, listen to the wind, gaze at stars and get close to nature. It's also a philosophy: humans are not masters of nature, but equal cohabitants with stars, mountains and all living things.

Core Design Highlights of Galaxy Villa Series

- Food-grade polyethylene rotomoulded material: sturdy, weatherproof and recyclable
- Multi-layer heat & sound insulation: constant comfortable indoor temperature
- No construction land restrictions; modular, suitable for complex terrains
- Panoramic views + solar power: immersive experience & eco-friendliness



9. Key Companies

Polivinil Rotomachinery

Cerano, Italy

Reliability In Rotomoulding



Rotomachinery Group is fully focused in the production of machines and accessories for rotational moulding and it is considered one of the major and most reliable manufacturers, having more than 1500 systems working all over the world with over than 55 years experience in the specific area of rotomoulding.

Two Production Facilities Serving The World

The group has two production sites: the long-established Italian factory Polivinil Rotomachinery Spa, founded in 1970, and the North American factory STP Rotomachinery Inc., founded in 2005, which offer their customers the design and manufacture of a complete range of rotational moulding machinery and accessories.

From Manufacturing To Related Services

Rotomoulding machines starting from lab and small single arm with 900 mm swing, up to the larger shuttle, independent multiple arms machines up to 7.500 mm swing diameter; automatic rock'n roll machines, machines for rotolining as well as specific custom design plants. The machines are manufactured using high-quality materials that ensure durability and long-term performance, and are available in various sizes and configurations. Furthermore, the company offers a comprehensive after-sales service with spare parts available, enabling it to support its customers with every specific requirement.

Components To Improve Rotomoulding

Accessories such as Powder Dosing Units (Dispensers) to load the moulds automatically, movable platforms for the operators, Regen System to reduce the consumption, Temperature Systems, Three Ways Box System, etc. The Rotomachinery team continues to innovate its machines by using the most advanced components available on the market, significantly reducing energy consumption and cycle times.



10. International Events

ARMO

Affiliation of Rotational Moulding Organisations

Calendar



Rotomould 26

Melbourne, Australia June 22 – June 24, 2026

Rotomould26 is the premier gathering of the Australasian rotational moulding community, where ideas and industry connect to share knowledge, spark innovation, and celebrate progress. ARMA has re-imagined how the event runs to make it more flexible, engaging, and accessible for everyone.
www.rotationalmoulding.com



Forum and Manufacturing Tour

Belfast, Ireland 9 June 2026 - 12 June 2026

The ARM 2026 Executive Forum in Belfast will combine high-level discussion with on-the-ground insight into global manufacturing and rotomolding innovation. Conference and general sessions will also be held at Queen's University, offering valuable perspectives on emerging technologies.
www.rotomolding.org



ARMO General Conference

Baveno, Italy Sep 26 - Sep 28, 2027

ARMO is pleased to announce that its next general conference will be held in Baveno, northern Italy, from September 26 to 28, 2027. More details and information on this major event dedicated to the world of rotational molding will be available soon.
www.armo-global.org



11. Affiliates

	AFR - Association Francophone du Rotomoulage	www.rotomoulage.org
	ARM - Association of Rotational Molders	www.rotomolding.org
	ARMA - Association of Rotational Molders Australasia	www.rotationalmoulding.com
	ANIPAC - The Mexican Plastic Association	www.anipac.org.mx
	ARMSA - Association of Rotational Molders Southern Africa	www.armsa.co.za
	ARM-CE - Association of Rotational Molders Central Europe	www.rotational-moulding.de
	StAR - Society of Asian Rotomoulders	www.starasia.org
	Nordic ARM - Nordic Association of Rotational Molders	www.nordicarm.org
	BPF - Rotational Molders Group	www.bpf.co.uk
	IT-RO - Italia Rotazionale	www.it-ro.it
	RPC-CPPIA	www.crotomolding.com
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