



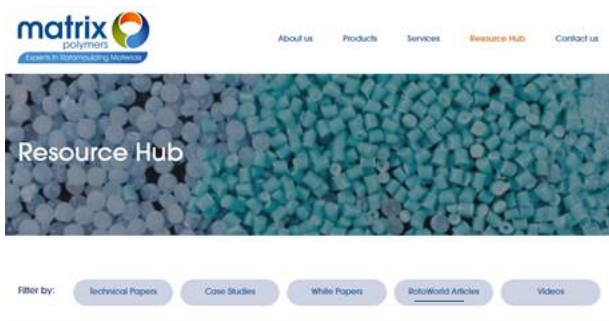
## Market Monitoring Newsletter

### THE ESSENTIAL NEWS OF ROTOMOULDED WORLDWIDE

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#### New Ressource Hub.

**Matric Polymers is thrilled to unveil its brand new Resource Hub on its company website! Dive into a treasure trove of knowledge with this latest addition featuring an array of technical papers, case studies, and white papers!**



Whether you're seeking in-depth analyses, real-world applications, or insights into cutting-edge technologies, this Resource Hub has you covered. From industry trends to innovative solutions, there's something for everyone eager to stay ahead in their field. Explore this curated collection and empower yourself with the expertise to drive success in your endeavors. Accessible, informative, and invaluable, this Resource Hub is designed to fuel your curiosity and inspire your journey toward excellence

[https://www.linkedin.com/posts/matrix-polymers\\_home-activity-7194685456800796673-bQ2V](https://www.linkedin.com/posts/matrix-polymers_home-activity-7194685456800796673-bQ2V)

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#### CP Cases goes green with solar PV installation.



**Last month 360m<sup>2</sup> of solar PV panels were installed on the roofing of all three of CP Cases' factory units. This includes maximum coverage on Units 6 and 11, and a strip of panels on Unit 10. Skylights on this roof made it unsuitable for complete coverage.**

The roofing on Units 6 and 11 are inclined at 20 degrees, and orientated in a north south strike, perfect for capturing

maximum sunlight at our latitude. CP Cases contracted **Ivy Solar** to oversee and manage this project - installing a Solar PV system to generate approximately 125kWh of renewable energy. In total this includes 350 Trina NEG9R.28 440W solar panels linked via two SMA X25 inverters. This captures and distributes green energy to high consumption machinery - situated in the rotomoulding production Unit 6 and manufacturing areas in Unit 11. All spare electricity is assigned to lighting and other electricity usage throughout the rest of the factory. For the majority of the year, CP Cases will achieve full electricity self-sufficiency and can even sell its excess electricity back to the grid. The main benefits of installing solar PV are : Energy security, Cost saving, and NetZero.

<https://cpcases.com/news/cp-cases-goes-green-with-solar-pv-installation>

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**Ameri-Kart, Elkhart Plastics Enter RV Aftermarket Arena.**



*Ameri-Kart and Elkhart Plastics, both Myers Industries, Inc. companies, are now expanding their product offerings into the RV aftermarket. Ameri-Kart and Elkhart Plastics are well-known plastic manufacturers for a variety of fresh water and holding tanks for RV OEM's.*

The footprint expansion is a natural fit for both brands as they have served the RV OEM segment for over 35 years. Keller Marine and RV, based out of Port Treverton, Pa., and Tampa, Fla., is the first distributor to participate in the program. Ameri-Kart and Elkhart

Plastics plan to expand their offerings through additional distributors to prioritize the RV user experience. Improving RV end users' direct access to original OEM replacement parts reflects Myers Industries' commitment to customer service.

<https://rvbusiness.com/ameri-kart-elkhart-plastics-enter-rv-aftermarket-arena/>

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**Rotovia is using a modified RotoRocket.**

*The RotoRocket from 493K is an amazing tool and an absolute must for any rotomoulder, allowing you to visually watch and monitor the process of rotational moulding. It is ideal for staff training and induction sessions, customer demonstrations, problem solving, powder flow testing, experimentation and much more.*



According to the Rotovia's CEO, this piece of equipment is a great asset for testing new materials and additives, offering significant savings in both time and cost. It also serves as an excellent educational tool for demonstrating the process to employees. At Rotovia, it has even been slightly modified, with the creation of the Roto Rock&Roll Rocket. It is shown in a short video taken when the Saeplast team was validating the foamability of post-consumer recycled materials from end-of-life products taken back from our customers. Conducting such tests with less than 0.5 kg of materials without interrupting the busy schedule of a roto-molding machine is revolutionary. This innovation exemplifies

waste reduction at its finest.

[https://www.linkedin.com/posts/dadi-valdimarsson\\_therotorocketis-anamazing-tooland-an-activity-7201210101699870721-8C4b](https://www.linkedin.com/posts/dadi-valdimarsson_therotorocketis-anamazing-tooland-an-activity-7201210101699870721-8C4b)

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## ARMA CEO in Queensland.



*Michelle Rose, CEO at the Association of Rotational Moulders Australasia (ARMA), has been busy in Queensland recently, visiting association members Ozzi Kleen - Suncoast Waste Water Management, National Poly Industries, Rain Again Tanks and TRI Underground Australia Pty Ltd.*

She also enjoyed a coffee and chat with Daniel from Polyworld and new member Graham who produces small machines locally. These visits provided valuable insights into this local rotomoulding community in this beautiful region. Michelle also squeezed in some time to prepare

for Rotomould24, happening on 17-19 June.

[https://www.linkedin.com/posts/association-of-rotational-moulders-australasia-ltd\\_rotomoulding-rotomould24-rotationalmoulding-activity-7201770916718993408-ljMl](https://www.linkedin.com/posts/association-of-rotational-moulders-australasia-ltd_rotomoulding-rotomould24-rotationalmoulding-activity-7201770916718993408-ljMl)

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## The JEC Board met at Persico Group.



*Persico Group is pleased to share that the JEC Board Meeting occurred at the group headquarters in Nembro, Italy! It was a fantastic opportunity to connect, explore the factory, and engage in fruitful discussions regarding the future of composite materials.*

Persico Group would like to thank all those who joined the meeting in person, and those who attended online, and looks forward to continuing this collaboration and organising many more successful meetings in the future!

[https://www.linkedin.com/posts/persico-spa\\_board-composite-future-activity-7202334510795939841-5Z4C](https://www.linkedin.com/posts/persico-spa_board-composite-future-activity-7202334510795939841-5Z4C)

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## OHS Day for Pelican International.



*On May 23, four members of Pelican International's Human Resources team had the chance to participate in a conference day as part of the OHS (occupational health and safety) day organized by Prox-Industriel, at Systemex Automation.*

During this day, which is being held for a third consecutive year, participants were able to attend several conferences from Louisound who present different protective measures that can be put in place in factories to reduce the sounds of machinery. The association ASFETM was able to push participants' thoughts on well-being and health in the workplace. And Grimard were able to led a discussion on the means and procedures to prevent health and safety risks at work. Pelican International would like to thank you to the organizers of the day Prox-Industriel as well as the host of the day Systemex Automation.

[https://www.linkedin.com/posts/pelican-international\\_sst-formation-lifeatpelican-activity-7202373328076947456-clGD](https://www.linkedin.com/posts/pelican-international_sst-formation-lifeatpelican-activity-7202373328076947456-clGD)



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## Innovation and quality in the automotive sector.



*Spanish company Prodescom Rotomoldeo is proud to present its latest project in the automotive sector: a mudguard manufactured using the rotational moulding technique. This process not only guarantees high durability and resistance, but also produces products of exceptional precision and finish.*

The main features of the mudguard are: superior durability (high-quality materials that resist impact, corrosion and adverse weather conditions), customised design, impeccable finish (smooth, even surfaces with no visible joints or weak spots), and sustainability (manufacturing process that minimises waste and uses recyclable materials). Prodescom

Rotomoldeo is committed to providing innovative, high-quality solutions for the automotive industry. Its team of experts works tirelessly to ensure that each product meets the highest standards of quality and performance.

[https://www.linkedin.com/posts/prodescom-rotomoldeo\\_automociaejn-rotomoldeo-innovaciaejn-activity-7202617380991057920-LySc](https://www.linkedin.com/posts/prodescom-rotomoldeo_automociaejn-rotomoldeo-innovaciaejn-activity-7202617380991057920-LySc)

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## New BIOROCK installation in South Africa.

*This post explains how BIOROCK enabled the construction of a community health centre in an area with no sewage system in South Africa. These health centres are often located in rural areas where there is no access to electricity or water and where sanitation facilities are random and rudimentary.*



Since the availability of water, sanitation and electricity is a minimum condition for the proper functioning of a health facility, engineers have come up with innovative solutions to reliably remedy these infrastructural shortcomings. After various studies, BIOROCK Africa presented the MULTIROCK system as a suitable wastewater treatment system for the Flagstaff health centre. No other treatment system on the market could meet these specific project requirements in a single solution and at the same price. Wastewater from showers, washbasins, toilets, urinals and kitchen sinks flows by gravity from the health centre to an all-water tank (or septic tank). Solids and liquids are separated there. Biodegradable

solids undergo partial digestion, while non-biodegradable solids are retained for final disposal by tanker. The installation of the system was carefully planned and expertly carried out by BIOROCK Africa's designated partner, Metsitec Water Recycling Systems, based in Gauteng. Installation took place over a period of less than a week, with the assistance of the main contractor, Motheo Construction.

[https://www.linkedin.com/posts/biorock-france\\_biorock-permet-la-construction-dun-centre-activity-7203684585451208704-R2rA](https://www.linkedin.com/posts/biorock-france_biorock-permet-la-construction-dun-centre-activity-7203684585451208704-R2rA)

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## New installation for Rotomachinery Group.



*Rotomachinery Group is thrilled to announce that its new full electric machine has been successfully installed at a customer's facility in Northern Europe!*

[https://www.linkedin.com/posts/rotomachinery-group\\_rotomachinery-rotationalmolding-rotomolding-activity-7203697003195699200-QSnW](https://www.linkedin.com/posts/rotomachinery-group_rotomachinery-rotationalmolding-rotomolding-activity-7203697003195699200-QSnW)

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## Another successful audit by the team at BR Plastics.

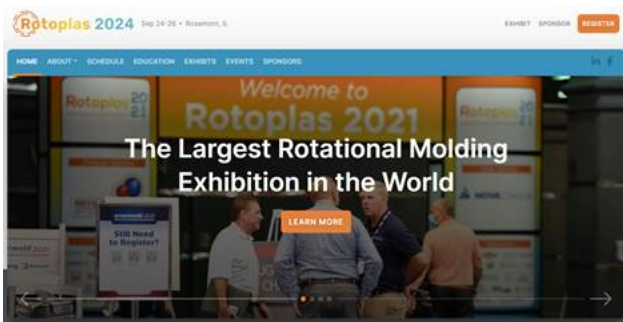


*By complying to the requirements outlined in AS/NZS 4766:2020, suppliers, installers, and users of above-ground storage tanks from Australia's BR Plastics can have the confidence that their tank is designed, constructed, and operated in a safe reliable manner.*

[https://www.linkedin.com/posts/barron-rawson-pty-ltd\\_another-successful-audit-by-the-team-at-br-activity-7204243479437152258-dbA7](https://www.linkedin.com/posts/barron-rawson-pty-ltd_another-successful-audit-by-the-team-at-br-activity-7204243479437152258-dbA7)

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## New website for the Rotoplas show.



*The Association of Rotational Molders is thrilled to unveil the brand new website for Rotoplas, the premier rotomolding tradeshow. Join the world of roto from September 24-26 to explore the industry's latest innovations. This interactive website allows you to click through each exhibitor and education session for detailed information, and to register.*

[https://www.linkedin.com/posts/association-of-rotational-molders\\_how-can-we-help-activity-7204461396183445504-MQbO](https://www.linkedin.com/posts/association-of-rotational-molders_how-can-we-help-activity-7204461396183445504-MQbO)

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## Solar Panels at Pentas: Four Years Later.

*In this post, Pentas Moulding reflect on the impact of four years of solar energy at Pentas. Pentas took a significant step towards sustainability with the installation of 1,660 solar panels on the roof of its factory. These solar panels have the capacity to generate 0.5 megawatts of energy annually. Over the past four years, this has resulted in a total generation of 2 megawatts.*



Of this produced energy, Pentas can use approximately 70% itself. During sunny days in the spring, or on week-ends, the company sometimes produce more energy than she need, resulting in a portion being fed back into the grid. The energy used by Pentas is primarily employed for rotating the molds, operating the machines, and making dies. These processes consume a significant portion of the generated energy and contribute to the efficient operation of our factory. For the future, Pentas has ambitious plans to further optimize its energy consumption and enhance its sustainability. The company wants the heating process of the raw materials to partly proceed via electricity, and plans to use the generated solar energy for this purpose. This requires an expansion of the number of solar panels. Last year, Penta expanded its production hall by 1,200 m<sup>2</sup>, providing sufficient space for additional panels. In addition, Pentas is exploring the possibilities for energy storage.

[https://www.linkedin.com/posts/pentasrotomoulding\\_solar-panels-at-pentas-four-years-later-activity-7204482187117613057-fZJi](https://www.linkedin.com/posts/pentasrotomoulding_solar-panels-at-pentas-four-years-later-activity-7204482187117613057-fZJi)

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### Exciting News from Rototech!



*Rototech is proud to lead the way in the energetic transition by pioneering the production of hydrogen tanks. Its innovative solutions are driving the future of clean energy and sustainability. Rototech is committed to supporting the global shift towards hydrogen as a key energy source. Its advanced hydrogen tanks are designed to meet the*

*highest standards of safety, efficiency, and reliability.*

[https://www.linkedin.com/posts/paologiordano\\_hydrogen-cleanenergy-sustainability-activity-7204822350444376064-XUvq](https://www.linkedin.com/posts/paologiordano_hydrogen-cleanenergy-sustainability-activity-7204822350444376064-XUvq)

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### Stevenage Bioscience Catalyst launch new recycling schemes.



*Stevenage Bioscience Catalyst, a world-leading not-for-profit science park located in Hertfordshire has significantly improved their waste management practices using recycling bins by Leaffield Environmental. Stevenage Bioscience Catalyst was formed through the collaboration between the Department for Business, Energy and Industrial Strategy (BEIS), GlaxoSmithKline, Wellcome and Innovate UK. Stevenage Bioscience Catalyst has used a variety of Leaffield's recycling bins when selecting the litre capacity and apertures depending on their setting.*

They used Leaffield's best-selling multi-waste Meridian recycling bins to start collecting food waste separately to mixed recycling and general waste, to keep recyclable items dry. In smaller areas, they used Leaffield's Envirobin 100 recycling bins to collect mixed recycling and general waste. Leaffield's battery bins were placed by the Meridian and Envirobin 100 recycling bins to provide multiple recycling options in one place. All Leaffield's recycling bins come with signage and labels as standard, so the user can identify the waste material to be collected clearly to reduce confusion and contamination.

[https://www.linkedin.com/posts/leaffield-environmental-ltd\\_recycling-litter-netzero-activity-7205856222980272128-wrFM](https://www.linkedin.com/posts/leaffield-environmental-ltd_recycling-litter-netzero-activity-7205856222980272128-wrFM)

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## Research & Patents

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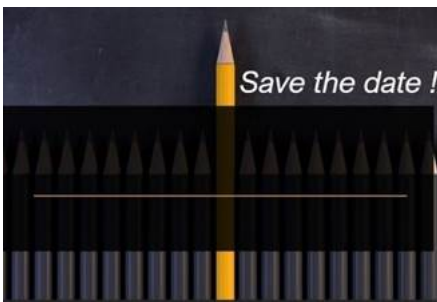
### Recent Advancements towards Sustainability in Rotomoulding.

*Rotational moulding is a unique low-shear process used to manufacture hollow parts. The process is an excellent process method for batch processing, minimal waste and stress-free parts. However, the process has drawbacks such as long cycle times, gas dependency and a limited palette of materials relative to other process methods.*

This review aimed to shed light on the current state-of-the-art research contributing towards sustainability in rotational moulding. The scope of this review broadly assessed all areas of the process such as material development, process adaptations and development, modelling, simulation and contributions towards applications carving a more sustainable society. The PRISMA literature review method was adopted, finding that the majority of publications focus on material development, specifically on the use of waste, fillers, fibres and composites as a way to improve sustainability. Significant focus on biocomposites and natural fibres highlighted the strong research interest, while recyclate studies appeared to be less explored to date. Other research paths are process modification, modelling and simulation, motivated to increase energy efficiency, reduction in scrap and attempts to reduce cycle time with models. An emerging research interest in rotational moulding is the contribution towards the hydrogen economy, particularly type IV hydrogen vessels.

<https://www.mdpi.com/1996-1944/17/11/2607>

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**13/14 June 2024**

**ARM & IT-RO Tour of Italian Rotomolders**

Italy

<https://rotomolding.org/page/ExecutiveForum>

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**17/19 June 2024**

**ARMA Event**

Gold Coast Australia

[www.rotomouldconference.com.au](http://www.rotomouldconference.com.au)

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**18/19 September 2024**

**MASTER CLASS AFR**

Lyon – France

Les évènements - AFR [Association Francophone du Rotomoulage]

**24/26 September 2024**

**ROTOPLAS 2024**

Rosemont, Illinois, USA

<https://www.rotoplas.org/>

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**12/14 februar 2025**

**ARMO 2025 GLOBAL ROTOMOULDING CONFERENCE & TRADE SHOW**

Leela Ambience Convention Hotel Delhi, India.

[https://drive.google.com/file/d/1Q7MH4LKVK\\_PgNV1nZu\\_BVgHEwfvB7oRO/view?usp=sharing](https://drive.google.com/file/d/1Q7MH4LKVK_PgNV1nZu_BVgHEwfvB7oRO/view?usp=sharing)

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