

Exploring the qualities of rotational moulding



2026

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Driving Progress to Improve the World

by Riccardo Giovanetti - WeRoll magazine



Rotational moulding is one of those technologies that operate behind the scenes, away from the spotlight, yet make a decisive contribution to improving the quality of life in every corner of the planet. It is a process that is simple in essence, but what emerges from this technology is much more than just an industrial product; it is a concrete response to the fundamental needs of contemporary society.

For this reason, the 2026 edition of the WeRoll Awards focuses on highlighting innovative products and solutions that, through rotational moulding, provide a concrete and intelligent response to the major environmental and humanitarian challenges defining our current era.

In many regions of the world, even those lacking infrastructure and experiencing extreme climates, rotational moulding has brought potable water to places where it was previously unavailable. Lightweight, economical, and incredibly durable tanks have replaced improvised and unsafe solutions, ensuring a stable supply even in the most remote areas.

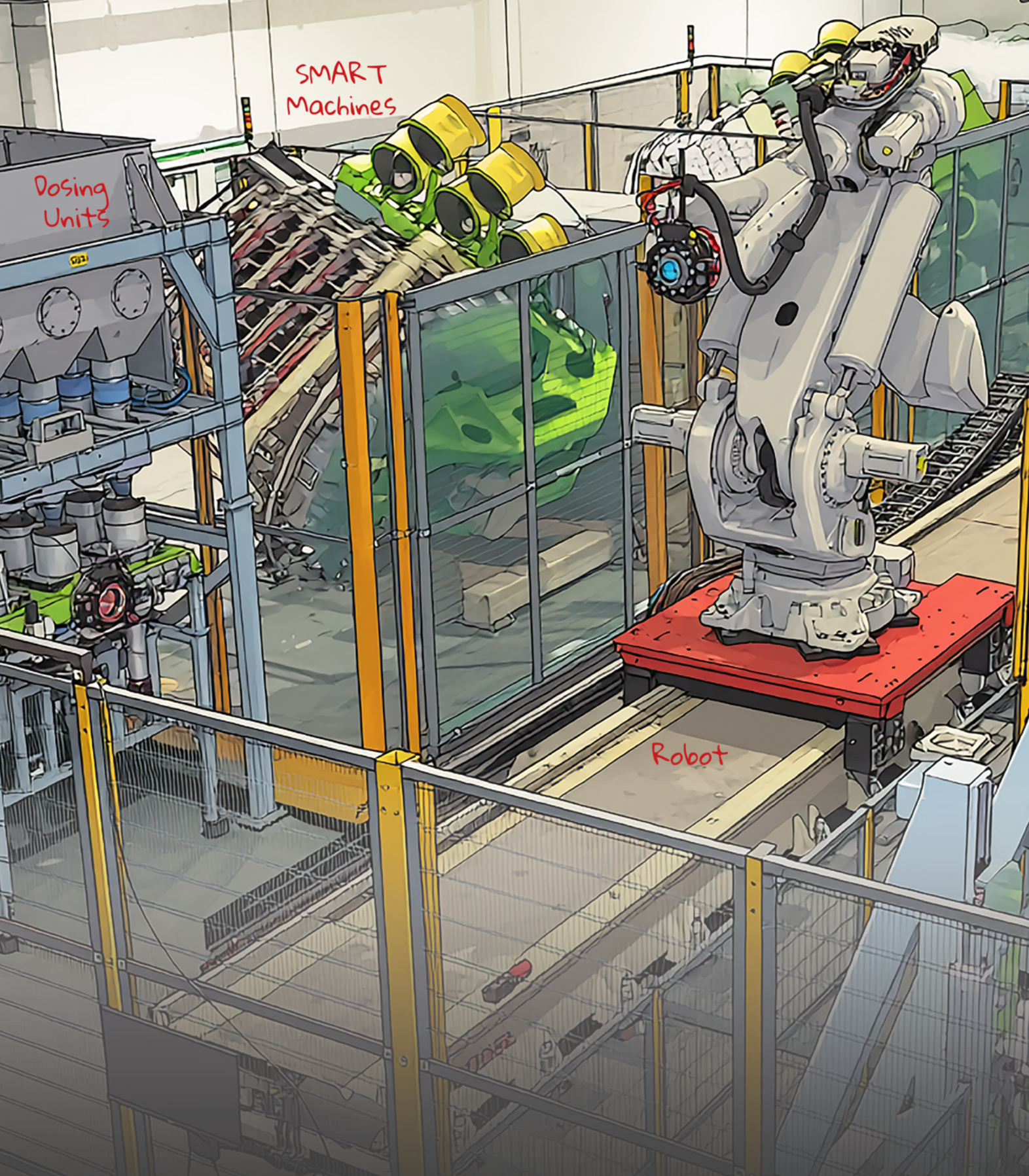
The same logic has revolutionized waste management: containers resistant to weather, UV rays, and impact have made collection and disposal more efficient, contributing to cleaner cities and healthier communities. In these cases, technology is not just a means of production, but an enabler of essential rights.

Rotational moulding has also transformed the healthcare sector, offering the opportunity to assist populations in the poorest countries and making a decisive contribution to saving thousands of lives. Mobility is another area where rotomoulding is making a profound impact. As transportation devices for urban areas, they offer new perspectives on last-mile mobility, combining environmental sustainability, logistical efficiency, and reduced environmental impact.

The challenges posed by ongoing climate change are where rotational moulding demonstrates its most surprising potential. They improve the quality of life even in the face of increasingly extreme weather events and rationalize water and energy consumption over the long term.

Ultimately, rotational moulding is much more than a production technique: it is a driver of social progress, a bridge between innovation and real needs, a silent engine that helps make the world safer, cleaner, and more equitable. Its strength lies in its simplicity, in the ability to transform a rotary motion into a tangible impact on people's lives. And while the industry continues to evolve, this technology remains a virtuous example of how engineering can serve humanity, improving the quality of life without fanfare, but with concrete and lasting results.

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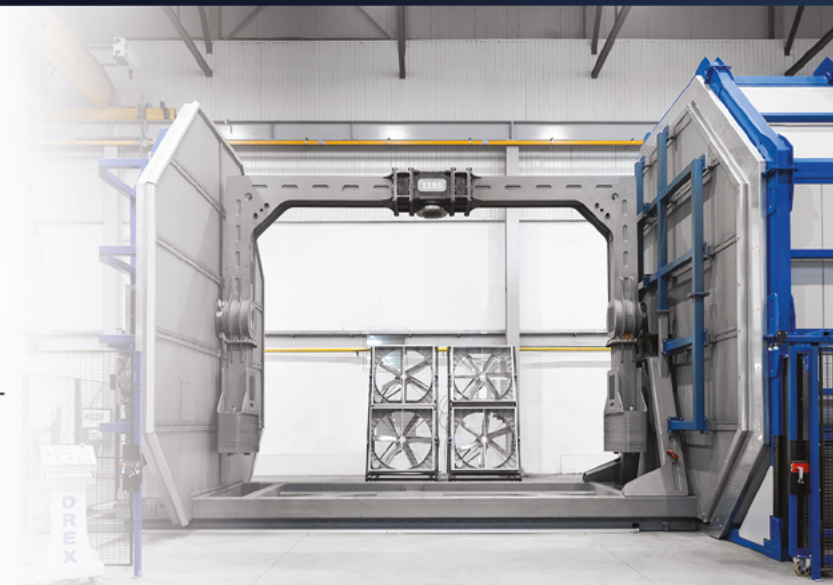


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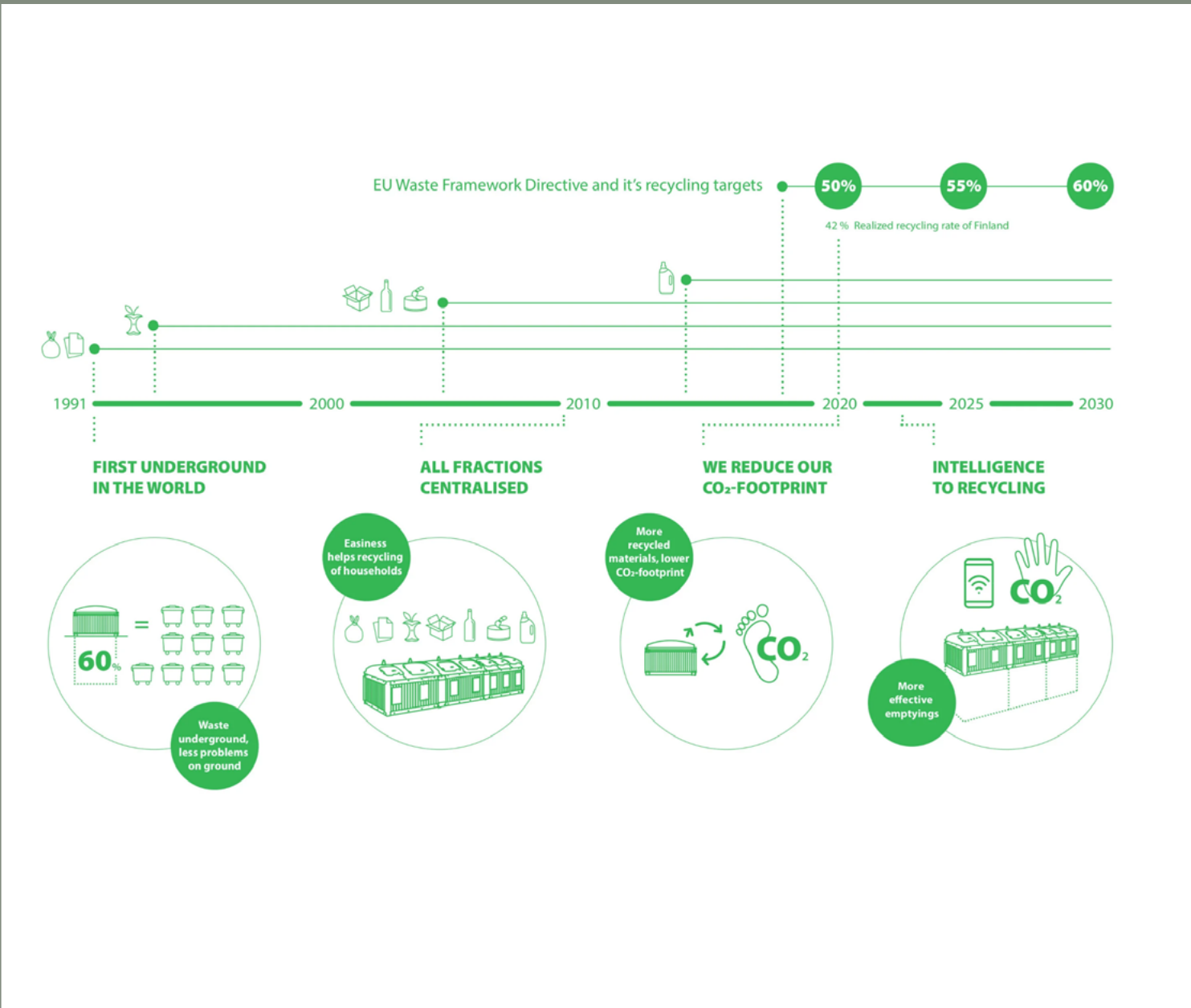
1. Waste Management



Molok

Ylöjärvi, Finland

Pay As You Throw



Text by Roberto Gonne

The Molok container idea was born in the early 1990s, when the then hotel and restaurant entrepreneur Veikko Salli, reflected on how waste management in his company's yard could be improved in a neater and more hygienic way. No solution was forthcoming so Veikko Salli developed what is now known as the deep collection method. Insight started with the observation that the traditional waste points are often plagued by overfilling, odours and animals.

Manage Waste Efficiently

Like all the best inventions the Molok container idea is very simple; the waste container is vertical and partially underground. The collection capacity is increased enormously compared to conventional waste containers. The weight of the top layer compacts the waste below, thus increasing the capacity even more. Kept cool underground, the waste does not smell and animals cannot gain access to the container. As the product name suggests, the containers were likened to the ancient mythical Molok (or Moloch), which had a mouth to a bottomless pit.

Range and Charging Flexibility

Mitigating climate change requires a responsible circular economy and sustainable urban planning—key elements underpinning Molok products. Waste management also requires an ecological transition: it is essential to reduce waste and significantly increase recycling rates by improving material sorting processes and disposal methods at collection points. Molok's semi-underground collection solutions foster responsible waste management, drawing inspiration from the principles of the sharing economy and the waste management hierarchy. Each collection point is linked to an organized system that minimizes environmental leakage and reduces environmental impact.



Through this innovation, those who sort their waste carefully can save on waste disposal fees, significantly contributing to a virtuous system that optimizes material recycling.





Pay As You Throw : the New Innovative System

The new Molok container management system is known as “Pay-As-You-Throw” and represents a significant innovation in educating citizens on the proper disposal of waste at collection points. The pilot project by the waste management company Kiertokaari Oy adopts this principle, which creates a direct incentive for citizens to optimize waste sorting. The lock on the Molok collection unit’s rotomoulded hatch is opened via a dedicated smartphone app; this practice encourages citizens to reduce the volume of waste they produce and to sort it carefully. Terhi Romakkaniemi, a circular economy specialist at Kiertokaari, explains that unsorted waste is the most expensive category to handle. The emptying fee for recyclable waste (plastic, cardboard, glass packaging, and small metal items) is approximately 15% of the cost for unsorted waste, while the cost of processing the organic fraction is about half that of unsorted waste. Through this innovation, those who sort their waste carefully can save on waste disposal fees, significantly contributing to a virtuous system that optimizes material recycling.

Citizens as Key Element of the Circular Economy

Molok’s fundamental mission is to enable efficient waste collection, sorting, and recycling while minimizing climate and environmental impact. Achieving this requires engaging the entire value chain, from waste generation to material reuse. This crucial shift relies on involving every single citizen, educating and encouraging them to adopt best practices. In this specific instance, the integration of rotomoulded components with electronic elements represents an innovation that transforms a waste container into an interactive device via an app. Concentrating waste collection at block collection points makes waste transport more efficient and improve traffic safety. The longer intervals between collections mean less waste and fewer emissions than in the case of surface collection and decentralised collection in detached houses.



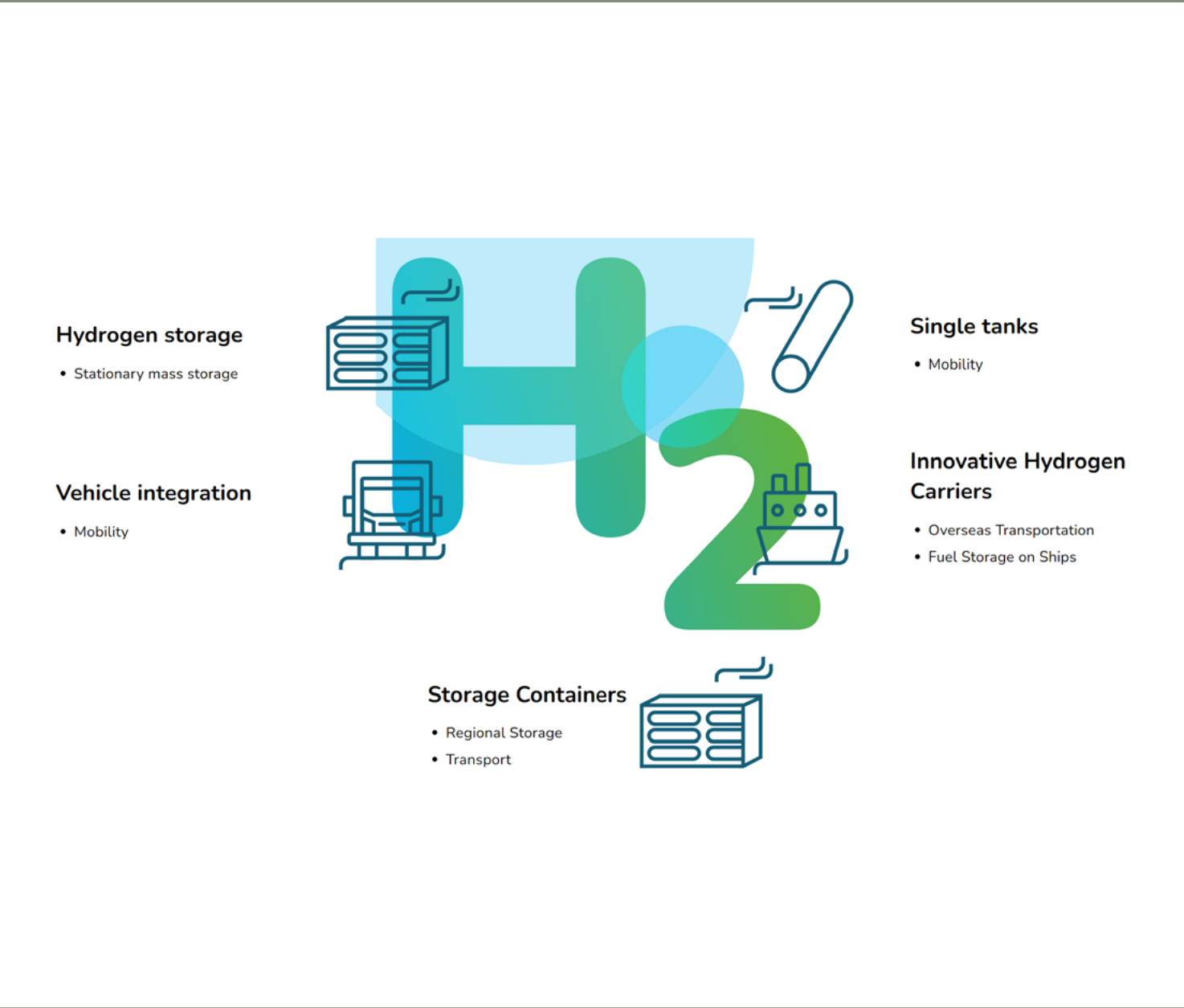
2. Carbon Neutrality



HydroExceed by APEX Group

Rostock/Laage, Germany

Innovative Storage Solutions



Text by Françoise Pascal

APEX Group, founded in 2000 in Rostock/Laage, Germany, has been one of the pioneers in the hydrogen industry since 2012. It is the company's primary objective to become an internationally recognized developer and operator of hydrogen plants.

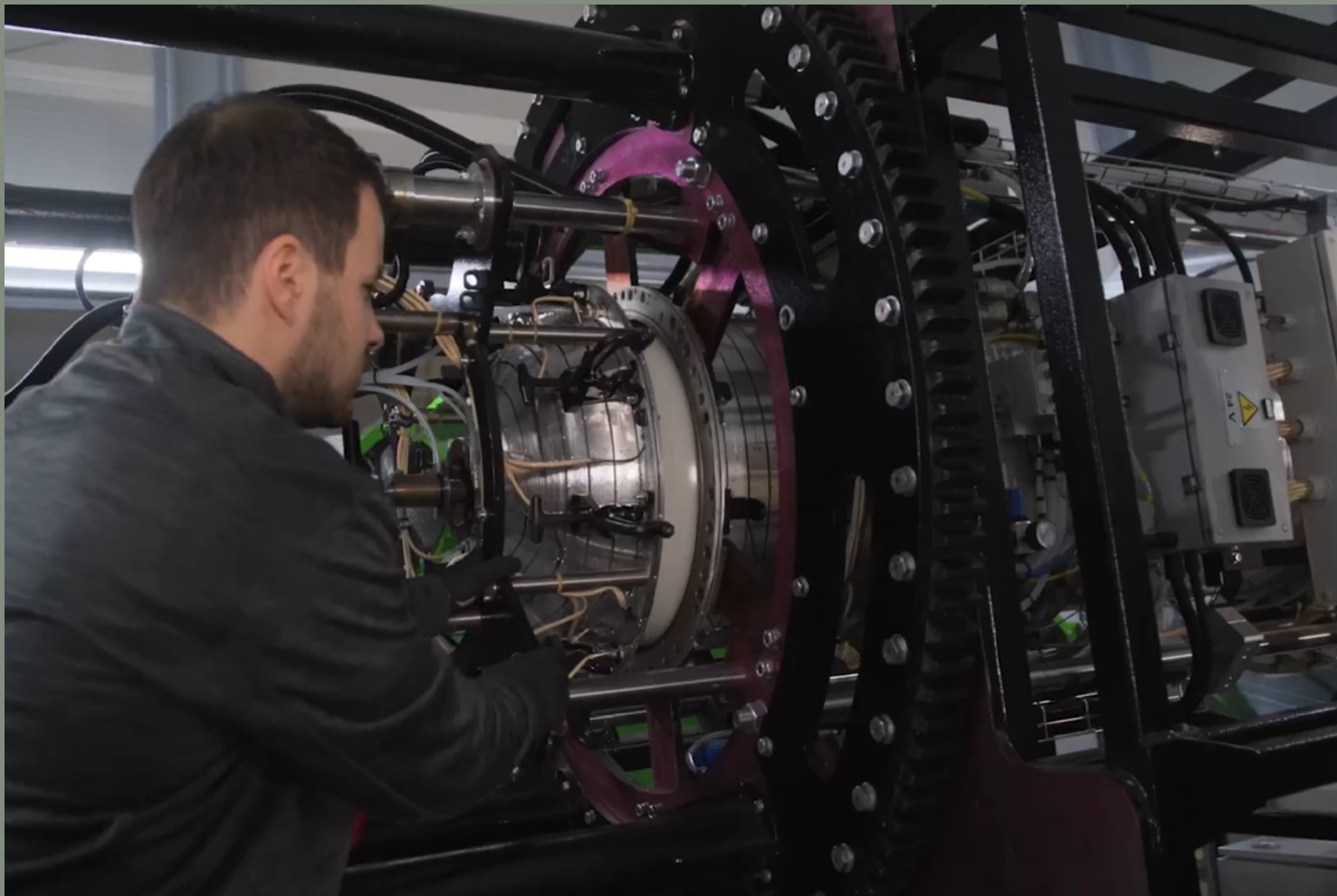
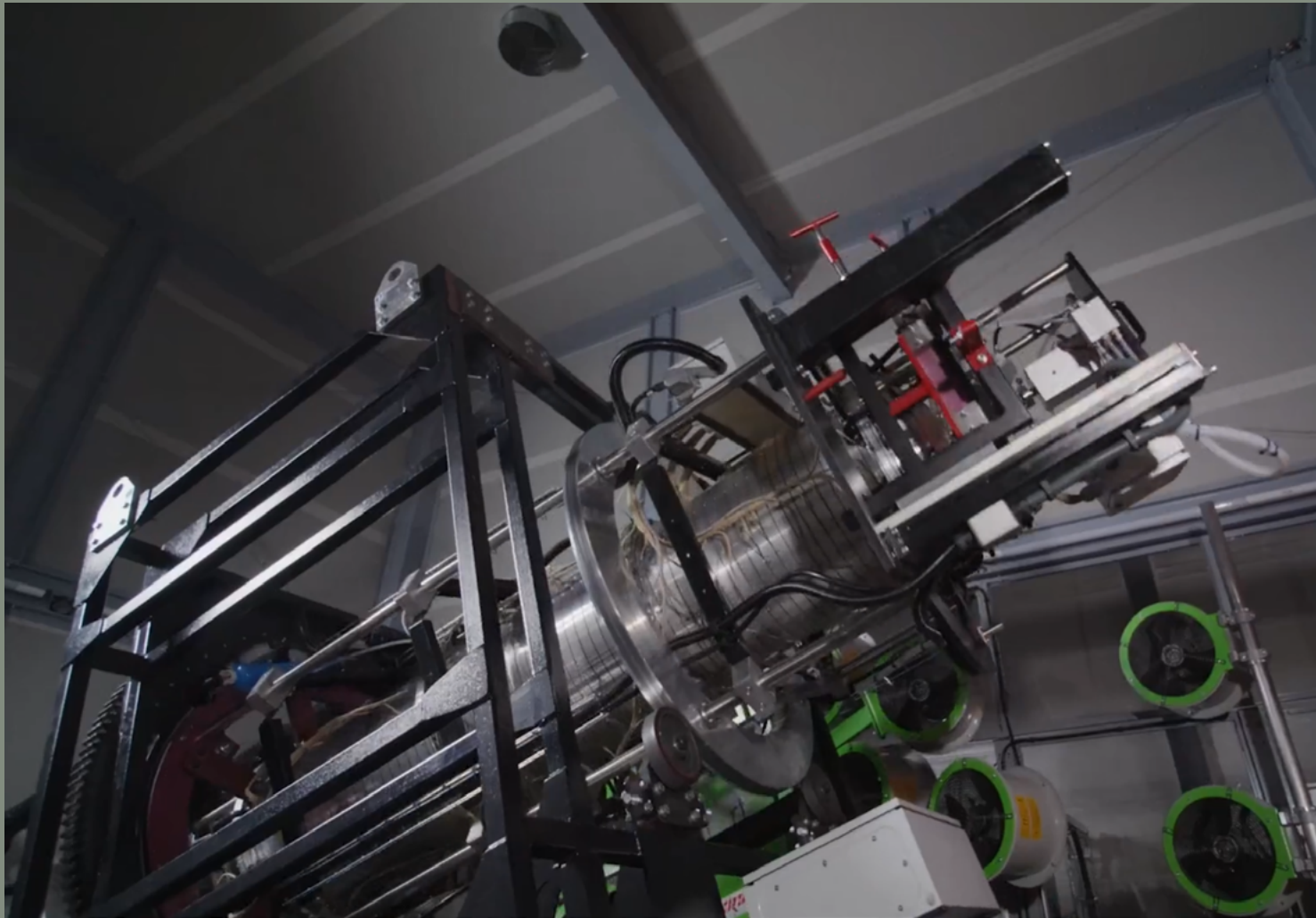
APEX's core business is developing, constructing, selling, or operating green hydrogen electrolysis plants with a capacity of up to 1 GW. The development of these cutting-edge facilities is vital to the decarbonization of industrial value chains as well as to the production of green hydrogen and hydrogen derivatives like chemical hydrogen carriers and e-fuels. The solutions are applied to energy-intensive industries such as steel, chemicals, and cement, contributing significantly to their sustainability efforts.

In addition, APEX provides hydrogen infrastructure and logistics solutions, particularly in international industrial settings such as warehouses, ports, and production facilities.

Achieve Carbon Neutrality

APEX Group is a pioneer in the green energy transition. On behalf of their customers, they develop solutions for a CO₂-neutral energy supply on an industrial scale. Their business model is based on project development and storage solutions. APEX assumes the role of an EPC partner for their clients, overseeing everything from approvals and detailed planning to the installation and commissioning of turnkey H₂ projects. Beyond this, APEX has their own H₂ production facility and operates a H₂ power plant, complemented by an H₂ refuelling station and an H₂ trailer filling station.





Rotomoulding allows HydroExceed to achieve exceptionally stable liner geometry, completely free from the surface defects often encountered in other productions.



Rotomoulding as Key Solution

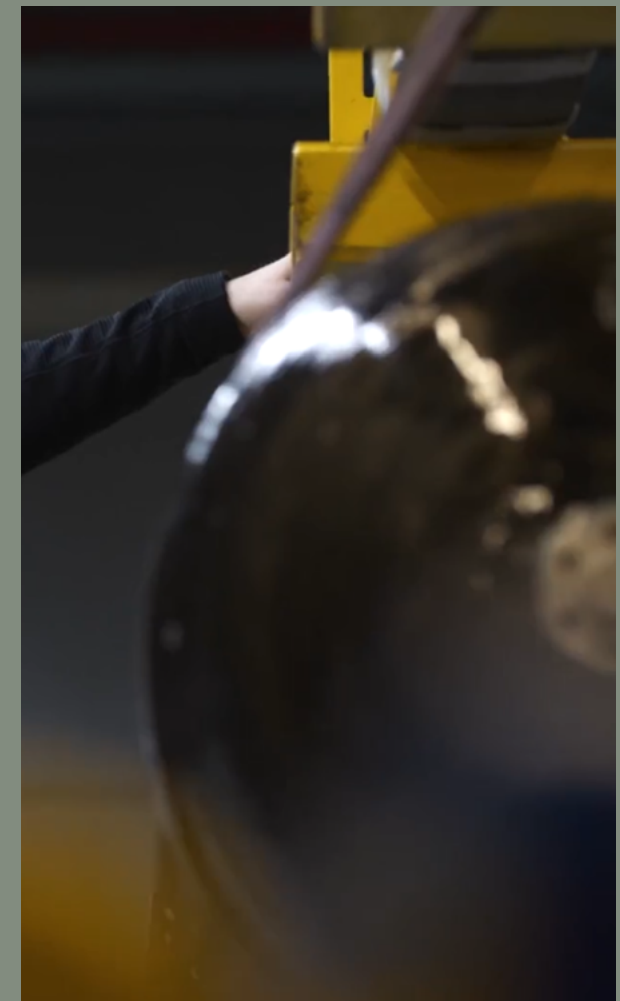
APEX / HydroExceed utilizes crosslinked polyethylene for the rotomoulding of their liners, a material that has consistently demonstrated an exceptional balance between ease of processing and permeation performance. This material choice ensures that their customers receive top-notch liners that fulfil their requirements while also offering a cost-efficient solution. Rotomoulding allows HydroExceed to achieve exceptionally stable liner geometry, completely free from the surface defects often encountered in other productions.

Liners with Seamless Construction.

One of the most significant benefits is the ability of rotational moulding to create liners with seamless construction. Unlike other technologies that rely on joining pieces, this technology forms a single, homogeneous liner. It eliminates weak points that seams and welds can introduce, especially under fluctuating loads introduced by repetitive filling and emptying of hydrogen storage used in transport. By adopting rotational moulding, HydroExceed ensures that their liners possess a level of structural integrity and reliability that surpasses other methods.

An Alliance to Innovate

APEX has a long standing partnership with Matrix Polymers that began while developing their inaugural product - the TYPE IV vessel for stationary hydrogen storage. As APEX sought the optimal materials to align with their objectives, the collaboration with Matrix Polymers proved invaluable. Through a series of rigorous tests and design refinements, Matrix Polymers' expertise and profound knowledge were crucial. Their contributions culminated in a certified product that APEX was able to proudly present to the market.





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Mould support available.
The Machine is disassembled and shipped in knockdown state.

3. Urban Mobility



Mobilitum

Bilthoven, Netherlands

Getting Around the Last Mile



www.mobilitum.com

Text by Sarah Morrison

The Stuyf Pickup is a light electric vehicle originally developed with and for municipalities. The Pickup has numerous applications. It can be used for waste collection, cleaning, landscaping, and maintenance in low-traffic city centers, or for housekeeping departments at vacation parks. With a loading area that accommodates a euro pallet and a range of 43 or 86 km, you can even create a mobile workstation with tools or equipment. The Stuyf can be equipped with two small storage boxes near the driver, as well as one large lockable box that can be fitted into the cargo space. The cargo box features a tailgate to facilitate easy loading and unloading. Additionally, the Stuyf can be equipped with airline tracks to secure cargo.

Versatile Interior Configurations

The electric Stuyf Pickup and Cargo vehicles are excellent alternatives to golf carts or larger fuel-powered vehicles for facility management processes. Maintenance and servicing of buildings, enclosed industrial sites, or university campuses can be easily accomplished with the 100% electric Stuyf. Users can configure Stuyf to perfectly meet specific work requirements, as the vehicle serves as a flexible, versatile platform adaptable to any operational need. Available options include a DiBO electric pressure washer or an osmosis system for cleaning hard-to-reach windows. Alternatively, a power supply system can be installed if electricity is required on-site. Due to its compact size, the Stuyf can access hard-to-reach locations. For example, it can reach the entrance of each accommodation at vacation parks or navigate the footpaths of city parks. Thanks to the Stuyf's small dimensions, you can even bring it inside buildings where maintenance is required.





Stufy offers an innovative solution to the growing need to get around urban areas using light, electric-powered vehicles, thereby avoiding pollution and excessive use of public space.



Greater Efficiency with Less Impact

Stuyf contributes to improving air quality and enhancing the livability of inner-city areas. It's perfect for cities with environmental zones, and truly suited for all forward-thinking municipalities. Because the Stuyf moves silently through the city, it enables work to be carried out early in the morning or late at night without disturbing nearby residents.

With its small footprint, the Stuyf easily navigates through narrow alleys, pedestrian zones, past parking bollards, and even inside parking garages. It also presents a friendly appearance in shopping areas. The Stuyf is highly cost-effective with a relatively low TCO. The Stuyf Pickup costs less to purchase and maintain than a large work vehicle and can be leased for €275 per month.



Ease of Movement in Cities

The Stuyf Cargo is the fastest way to transport your cargo from A to B in busy inner cities. The Stuyf has access to zero-emission zones, travels shorter routes on bike paths, and gets to the front door. This enables more stop-starts and makes the Stuyf highly efficient in the last mile. A delivery driver using a Stuyf doesn't suffer from congestion in heavy city traffic, as they simply travel on the bike lane. Delivery drivers also don't have to waste time looking for parking spots. Stuyf offers an innovative solution to the growing need to get around urban areas using light, electric-powered vehicles, thereby avoiding pollution and excessive use of public space.



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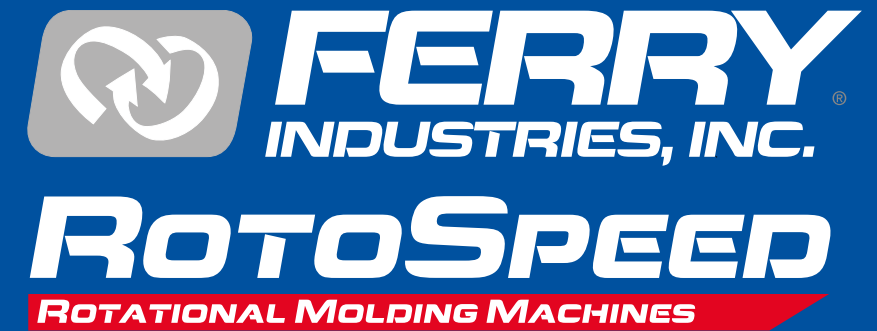


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4. Humanitarian Aid

Medical Systems

Luxembourg

Solar Vaccine Refrigerators



Text by Elena Chechet

Consistency and reliability of the cold chain are essential factors for the safe storage of vaccines and medicines anywhere in the world. The Solar Direct Drive solutions consist of several vaccine refrigerators and freezers directly connected to solar panels without the use of batteries and regulators. These solutions provide a reliable cold chain for vitally important vaccines even in the most remote areas. The Solar Direct Drive solution uses the only energy source that never ends: our sun.

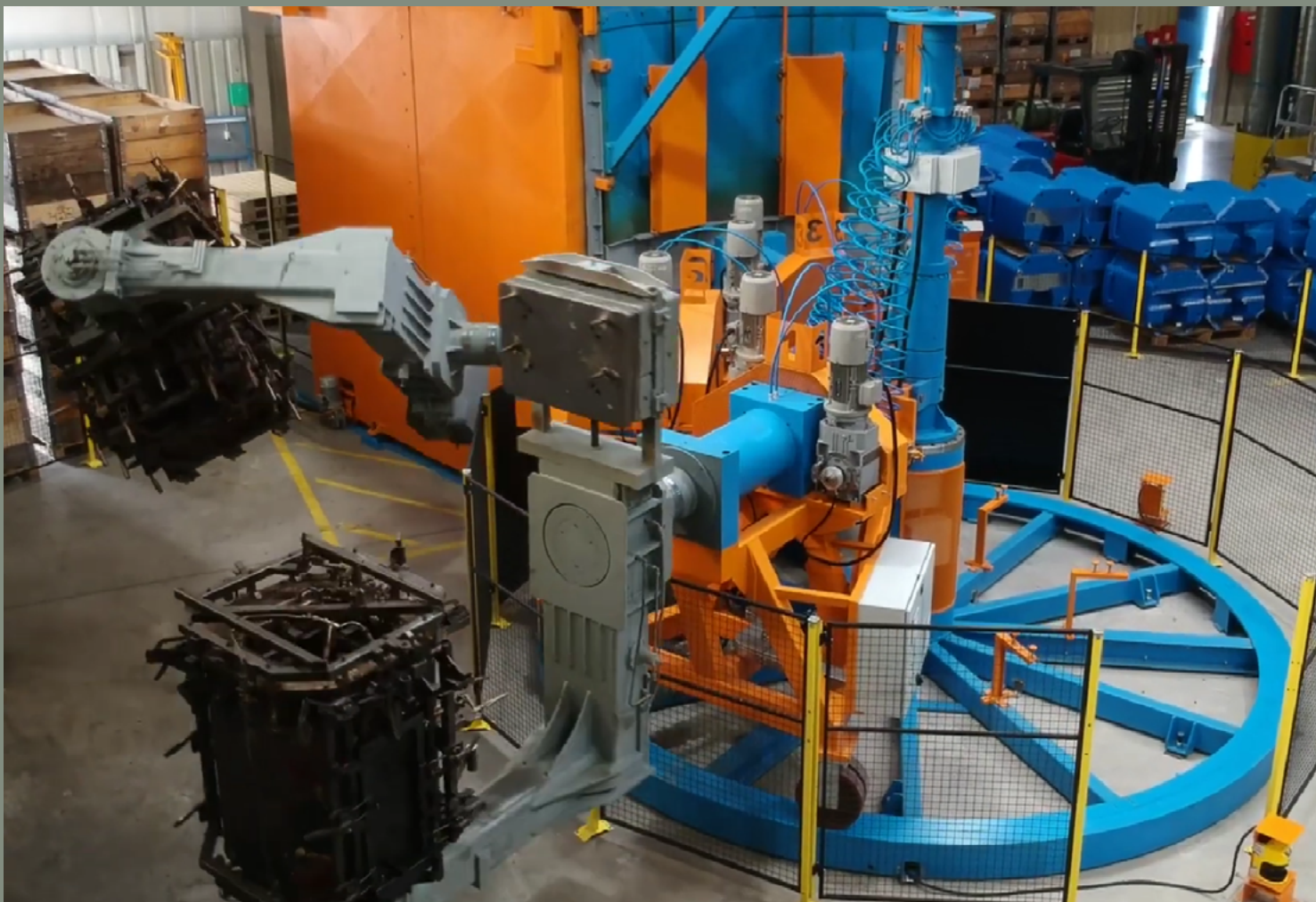
A High-Performance Container

The containers are designed and manufactured to withstand the extreme climate conditions typical of desert areas, characterized by extremely high temperatures ranging from +5°C to +43°C. The rotomolded container is completed with a thick foam insulation layer that preserves the transported vaccine and maintains a constant internal temperature. The rotomolded structure is designed to withstand severe stress from potential impacts and pressure during transport, allowing the vaccine to be delivered to its destination without damage. The rotomolded polyethylene lid is completed with an electronic lock that allows only authorized medical personnel to open and inspect the internal cavity. The upper part also features a digital screen that allows monitoring the characteristics of the transported vaccine and the doses contained within. Particular attention has been paid to the accessories that complete the container: the metal hinges guarantee over ten years of resistance in extreme conditions, while the double-layer internal gaskets provide perfect insulation of the internal casing and can be easily replaced for replacement.





B Medical Systems' vaccine cold chain equipment has contributed to the vaccination of over 300 million children in developing countries over the past 20 years.





Exploring the Possibilities of Technology

B Medical Systems is a Luxembourg-based company, a global manufacturer and distributor of medical refrigeration devices. Their mission is to create technologies that help save lives around the world. With forty years of experience in the industry, B Medical Systems has established itself as a customer-focused supplier of refrigerators, freezers, and insulated containers for the transport of medical supplies, offering top-notch performance in terms of safety, efficiency, and reliability. Their portfolio covers a wide range of applications in medical refrigeration, blood management, and vaccine cold chain. In the latter field, as a market leader, B Medical Systems' vaccine cold chain equipment has contributed to the vaccination of over 300 million children in developing countries over the past 20 years. This achievement is the result of the company's close collaboration with international humanitarian institutions, such as Ministries of Health and NGOs.

Organize Meetings to Grow Together

The production facility is located in Hosingen, Luxembourg, and was designed as an operational platform for rotational molding and automated container assembly. The production process uses cobotics systems in which workers and robots collaborate to optimize productivity. Rotational molding machines are used for the production of refrigerators, freezers, and cold chain equipment for vaccines. In this context, rotational molding machines ensure high-volume production with excellent manufacturing quality.



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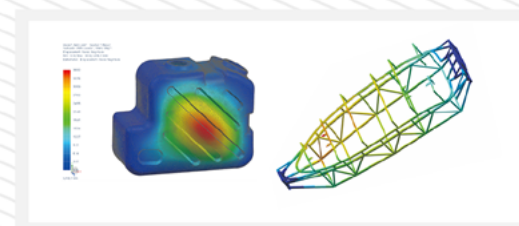
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5. Water Treatment

Frei AquaService

Aesch, Switzerland

Water Softener Fawa



Text by Sarah Morrison

A New Solution for Water Softening

The Fawa Water Softener is a Swiss-engineered ion-exchange system designed to deliver stable, high-efficiency water softening performance in domestic and commercial environments, combining precision mechanics, advanced resin technology, and rigorous CE-certified safety standards. Its construction reflects the typical engineering philosophy of Frei AquaService AG: compact architecture, long-life components, and a regeneration process optimised to minimise salt consumption while maintaining consistent soft-water output.

High-Tech in a Rotomolded Body

The Fawa softening unit is built around a high-capacity cation exchange resin bed, calibrated to remove the calcium and magnesium ions responsible for hardness. Water enters through a pressure-regulated inlet and is evenly distributed throughout the column to ensure uniform saturation of the ion exchange. The system's hydraulic paths are designed to reduce turbulence and channel clogging, allowing for stable flow rates even with fluctuating domestic demand. Regeneration is controlled by a volumetric dosing valve that calculates resin depletion based on actual water consumption, rather than fixed time intervals. This approach prevents unnecessary brine cycles, extends resin life, and reduces salt waste. The outer container is made using rotational molding and is the result of complex development work conducted in collaboration with Grütter Kunststoff + Formen. During regeneration, a precisely dosed sodium chloride solution flushes the resin bed, restoring its exchange capacity and preparing the system for the next softening cycle.





In domestic environments, softened water enhances detergent performance, reduces spotting on glassware, and prolongs the lifespan of appliances such as dishwashers, washing machines, and boilers.





Materials, Durability, and Mechanical Reliability

Fawa systems are manufactured using high-grade composite materials selected for resistance to pressure, temperature variation, and chemical exposure. The resin vessel is reinforced to withstand long-term hydraulic stress, while the control valve incorporates stainless-steel and engineered polymer components that resist scaling and mechanical wear. The internal resin is a cross-linked polystyrene matrix with optimised bead size distribution, ensuring high exchange efficiency and reduced channeling. This resin type typically offers a service life exceeding ten years under normal operating conditions, provided regeneration cycles are correctly maintained. The rotomolded polyethylene container is completed by a swinging front door for internal inspection.

Performance Characteristics and Suitability

A correctly sized Fawa softener delivers a continuous supply of softened water with hardness levels reduced to near-zero, depending on user configuration. This reduction significantly improves the efficiency of heating systems by preventing limescale accumulation on heat-exchange surfaces. In domestic environments, softened water enhances detergent performance, reduces spotting on glassware, and prolongs the lifespan of appliances such as dishwashers, washing machines, and boilers. Fawa water softeners are suitable for private homes, multi-unit residential buildings, and small commercial facilities requiring stable soft-water output. Their compact footprint allows installation in technical rooms, basements, or utility cabinets. In regions with extremely hard water, the system's high-capacity resin bed ensures reliable performance without excessive regeneration frequency.



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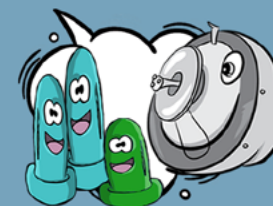
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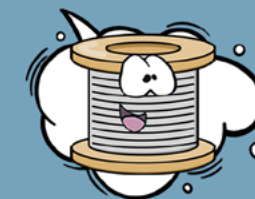
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6. Climate Change

Watersmart

Auckland, New Zealand

Preventing the Effects of El Niño



Text by Elena Chechet

The climate effects of El Niño pose a complex challenge for population centers. What is often overlooked when considering El Niño-induced climate effects is the dual nature of its impact. Although the risk of drought and wildfires increases, when rain arrives during an El Niño, it tends to be heavy. Saturated soil after a long period of drought, hit by a heavy rainfall event, is one of the quickest ways to overwhelm stormwater infrastructure and cause destructive flooding.

Creating a Water Margin for Extreme Events

El Niño doesn't just change the amount of rain. It changes when it falls, how fast it falls, and how the land responds to it. For anyone responsible for a building, development, or infrastructure this has practical implications for water supply and management. When rainfall becomes less frequent and less predictable, reliance on a single source of supply becomes a problem. Properties that have invested in on-site rainwater harvesting often find themselves with a water buffer that others lack. During prolonged droughts, this independence from the mains or borehole supply is not just a convenience, but a risk management decision. It represents an important asset for countering ongoing water shortages by maintaining balanced consumption.

An Architectural Element Integrated Into the Building

FenceTank is a modular, ultra-slimline rainwater harvesting tank designed to act as both a functional fence and a space-saving water storage system. Developed primarily by the New Zealand-based





Each unit has a capacity of 1,000 liters, and tanks can be combined to increase their volume, adapting to any need, from a single home to residential complexes.





company Watersmart, it provides an alternative for high-density housing and urban properties where space is limited. FenceTank allows multiple tanks to be connected in series to increase the total water storage capacity, a useful solution for ensuring a significant water storage capacity for use during periods of severe and prolonged drought. This system transforms the tank into an architectural element that integrates with the building. With a depth of just 410 mm, FenceTank is one of the narrowest above-ground tanks available, integrating seamlessly with the fence: ideal for compact urban or high-density properties. Each unit has a capacity of 1,000 liters, and tanks can be combined to increase their volume, adapting to any need, from a single home to residential complexes.

Making a Building Self-Sufficient in Extreme Weather

El Niño also creates an opportunity to observe how water is used inside buildings. During prolonged droughts, demand on municipal supply networks increases precisely when supply is under maximum pressure. Therefore, a multi-tank system like fenceTank is particularly important in these extreme conditions: it creates operating margins to make a building self-sufficient during periods of extreme drought that last for weeks or even months. It means transforming a part of the house into a container system, a self-supporting wall that stores water during rainfall and redistributes it to the internal ecosystem during periods of severe water stress, which unfortunately become increasingly frequent.





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7. Water Scarcity

Qunxi Huang, Yolegmma Marquez

Prévessin-Moëns, France

Waterroll



Text by Elena Chechet

Water transport in underdeveloped areas of Africa still represents a major challenge, threatening the very survival of local populations. Given the unique morphology of these areas, often unconnected by roads accessible to traditional vehicles, overland water transport is not only a viable alternative but a necessity.

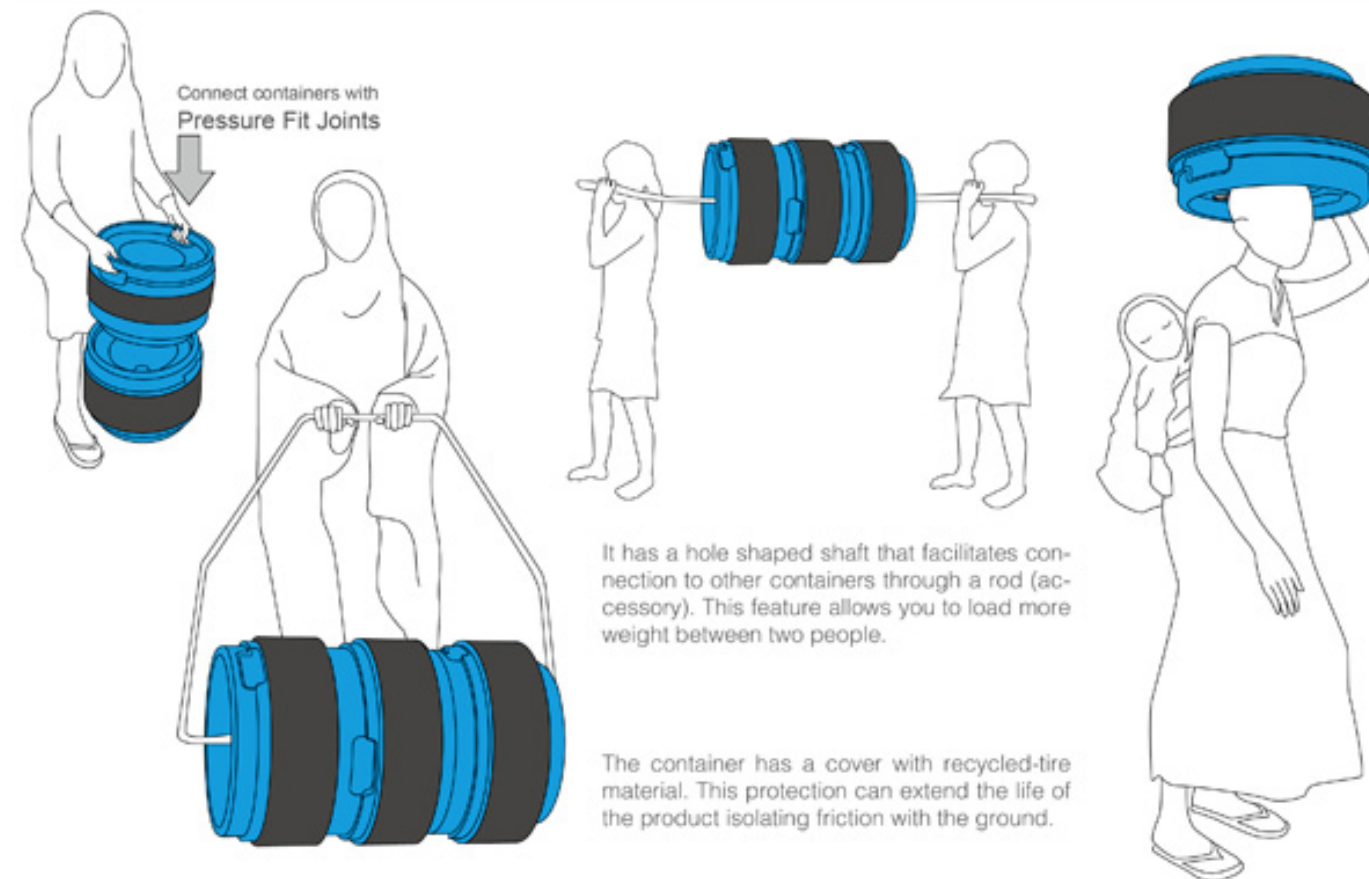
Connecting People to Share Knowledge

The Water Roll is a rotomolded container that can be rolled along a route, allowing for the easy transport of significant quantities of water. It consists of a cylindrical container to which a tap can be added to regulate the flow of water. The container is designed with a recessed central band that can be attached to a recycled tire: this solution increases the container's grip and reduces wear over time.

Less Material, More Profit

The Water Roll is a rotomolded container that can be rolled along a route, allowing for the easy transport of significant quantities of water. It consists of a cylindrical container to which a tap can be added to regulate the flow of water. The container is designed with a recessed central band that can be attached to a recycled tire: this solution increases the container's grip and reduces wear over time.

Its unique shape also allows it to be stacked vertically, optimizing space, or it can be positioned vertically with the aid of a wooden support. Two large handles recessed into the circumference of the container allow you to move it easily without the risk of it slipping. When placed overhead, the handles help stabilize it.





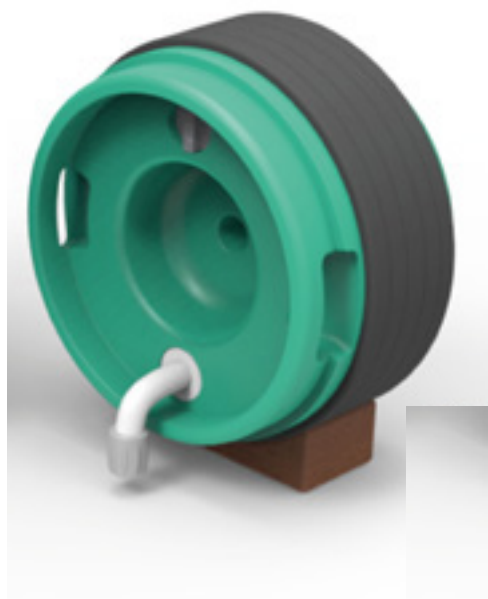
Water scarcity in developing countries is exacerbated by distance from water sources, insufficient infrastructure, climate variability and, last but not least, the lack of reliable distribution systems.



Tackling Water Scarcity

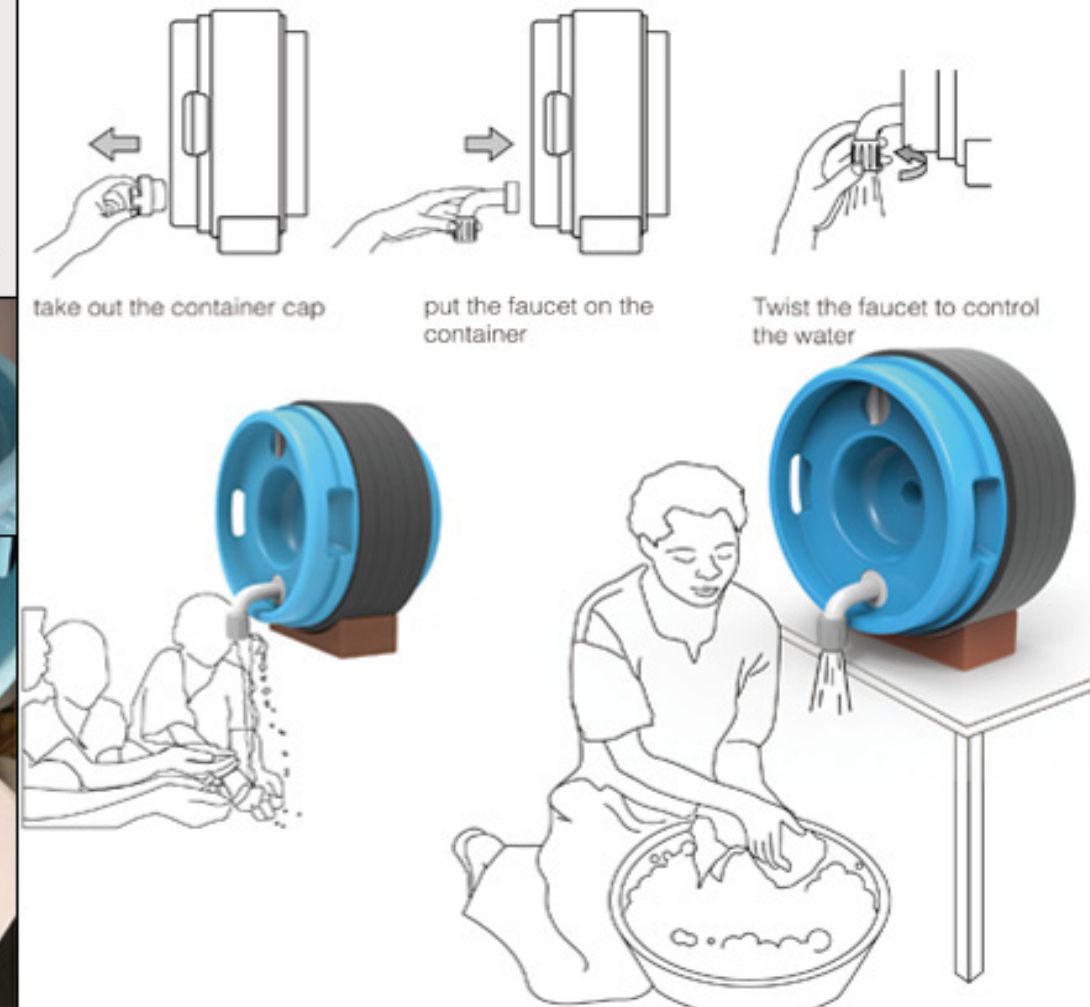
Water transport containers in developing countries represent one of the most important solutions for ensuring safe water access to communities living far from stable sources. Their role is crucial because, in many rural areas of Africa and Asia, daily water supplies still depend on manual transport, often entrusted to women and children.

Water scarcity in developing countries is exacerbated by distance from water sources, insufficient infrastructure, climate variability and, last but not least, the lack of reliable distribution systems. According to estimates from water projects in Ethiopia, only 30–40% of the population has access to clean sources, resulting in serious health consequences such as diarrhea and communicable diseases. In this context, water transport containers become essential tools for reducing fatigue, increasing transportable quantities, and improving hygiene.



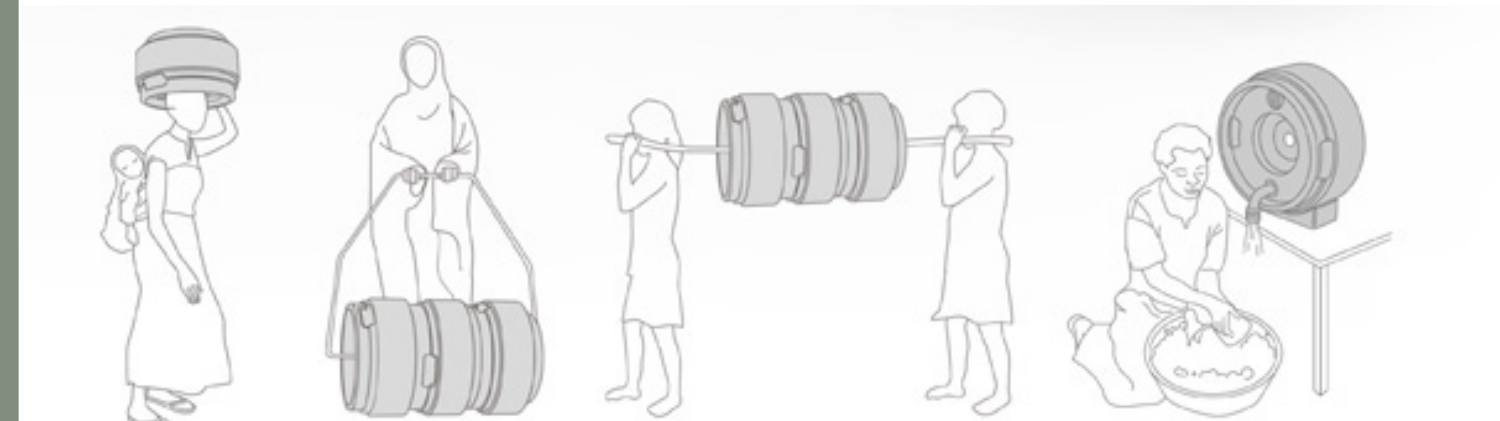
Providing Running Water

Change the Cap to the Faucet,
Turn on water and control volume



A Solution to Improve Living Conditions

Access to more efficient containers has a direct impact on quality of life by reducing physical fatigue: indeed, water transport is one of the most demanding tasks in rural communities. Furthermore, these products enable increased school attendance: in many African regions, girls are unable to attend school because they are required to transport water. WASH projects in Uganda have shown that the availability of water near villages improves girls' education. Finally, these solutions significantly reduce the spread of disease: closed, clean containers limit water contamination during transport.



8. International Events

ARMO

Affiliation of Rotational Moulding Organisations

Calendar



RotoTour 2026 Canada

November 3 - 19, 2026

Since 2005, ARMA's Rototour has provided exclusive behind-the-scenes access to the global rotational molding industry, bringing together manufacturers, suppliers, and industry leaders from around the world for a truly unique experience. In 2026, Rototour heads to Canada for what promises to be one of the most exciting Rototours ever.

www.rotationalmoulding.com



ARMO Seminar

September 15, 2026

An Overview of The Chinese Rotational Moulding Market. In this session industry expert Harry Huang from Wuxi Yisong Rotomoulding Technology will provide an overview of the Chinese Rotational Moulding Industry. Looking at trends in the market and what the future holds.

www.bpf-uk.zoom.us/webinar/register



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



9. Affiliates

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



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