

RotoTrends

*Exploring the potentials of
rotational moulding in design*

Issue 11



ARMO
ASSOCIATION OF ROTATIONAL MOULDING ORGANISATIONS

Introduction

The evolution that has distinguished rotational moulding in recent decades is intimately related to the development of awareness of rotomoulding in the design world.

In other words, as the potential of rotomoulding becomes “common knowledge” amongst designers and producers the sophistication of their projects using our technology for industrial applications grows. RotoTrends explores the different potentials of rotational moulding showing case-histories where the roto technology is able to open new markets, developing innovative products and working successfully in new niches.

The projects developed in partnership with international design institutes, and the selected industrial products produced a faithful portrait of an industry constantly hungry for new ideas, eager to experiment with new shapes and new materials, sensitive to the international richness of globalization.

Rotomoulding is strategically placed as one of the key technologies for rethinking the industry according to today's needs for technology and performance.

Revolutionizing the Automotive Industry

While the adoption of Battery Electric Vehicles (BEVs) represents a significant leap forward in reducing direct emissions from the transportation sector, it addresses only a fragment of its environmental impact. The production, usage and disposal of vehicles encapsulate a broader spectrum of carbon and resource footprints that BEVs alone cannot mitigate.

The circular economy offers a systemic solution by reimagining and restructuring the entire life cycle of automotive products. This approach emphasizes the importance of extending product lifespan through design for durability, reuse and remanufacturing, and prioritizes the recycling of materials to minimize waste. Manufacturers of electric vehicles, in particular, are being targeted with legislation aiming to tackle issues around environmental damage related to the production and disposal of batteries.

Embracing the Circular Economy

The automotive industry's seismic shift away from internal combustion and towards electric vehicles (EVs) is creating opportunities for it to reinvent itself from the ground up. Traditional paradigms of design, manufacture, product lifecycle management, and partnership-building are all being reimagined with a focus on efficiency and sustainability.

In this new economic model, keeping resources in use for as long as possible becomes a central element of the business model. While it's likely to involve major infrastructure investments up-front, the idea is that technology can be used to create efficiencies that will reduce operating costs over time. Creating all of the components for every newly produced vehicle from scratch is expensive enough. But factoring in the increased regulatory and taxation burdens on businesses that create emissions and landfill waste in many jurisdictions, as well as implications of the Paris Climate Agreement, it increasingly makes economic sense to re-use and recycle wherever possible.



Softcar

Bringing the automotive industry fully into the circular economy.

production SoftCar, Switzerland
moulding Rotovia, Iceland
moulds XMTEch, Italy

Softcar recently unveiled a new innovative electric car that aims to transform urban mobility. This vehicle, designed to be eco-friendly and practical, has already debuted in Switzerland and is expected to hit the market by the end of 2025.

The interior and exterior of the body are rotationally molded with a revolutionary polymer, in a single piece: this principle allows to drastically reduce the number of parts and increase the moment of inertia of the body in the event of an accident. In combination with the chassis, it allows to create a lightweight and recyclable architecture.

This model stands out for its lightweight and resistant design, made with recyclable materials. With a total weight of just 642 kg, Softcar offers a one-piece polymer body weighing just 60 kg, developed in collaboration with Total, which guarantees durability and ease of replacement.

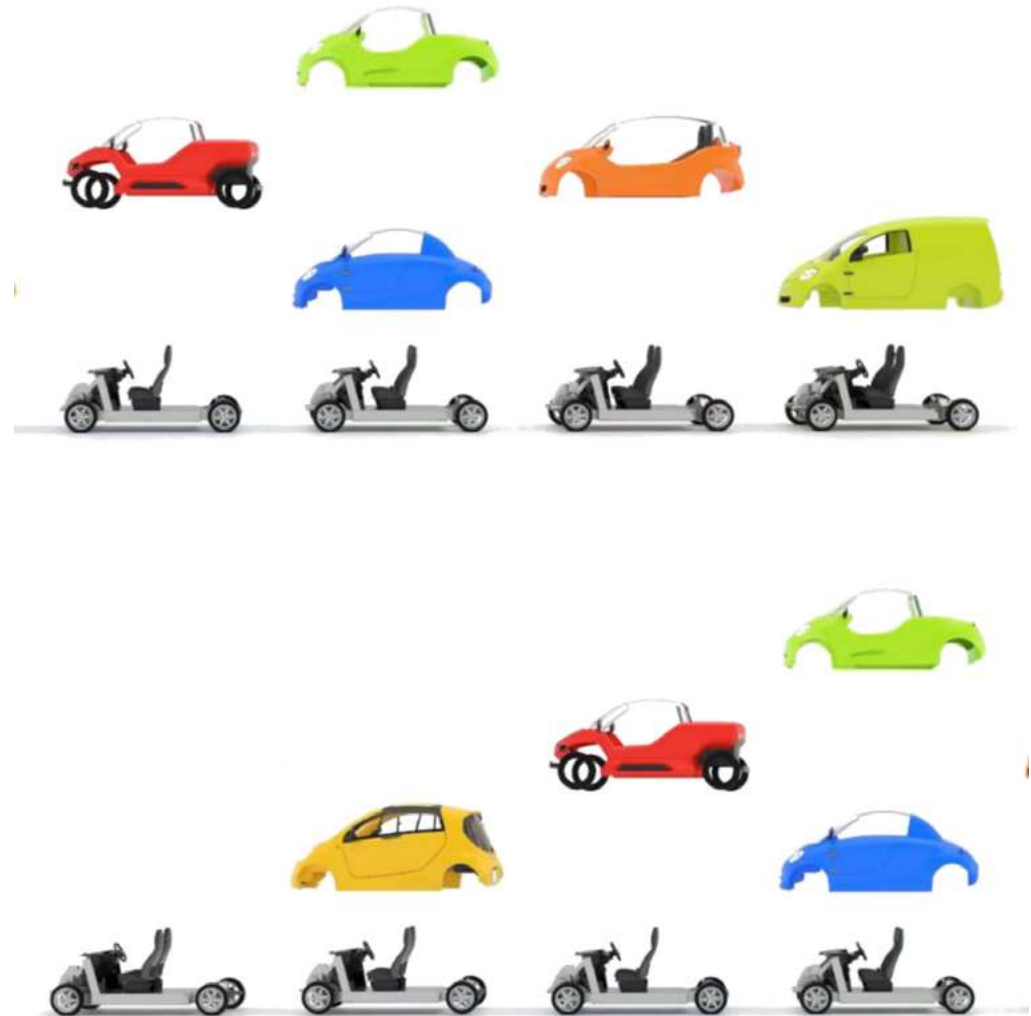
The vehicle consumes just 8 kWh per 100 km and has a range of 200 km thanks to its 15 kWh battery. It also features fast charging, no small feat considering the segment, and takes just 2.5 hours to fully charge.

www.softcar.com

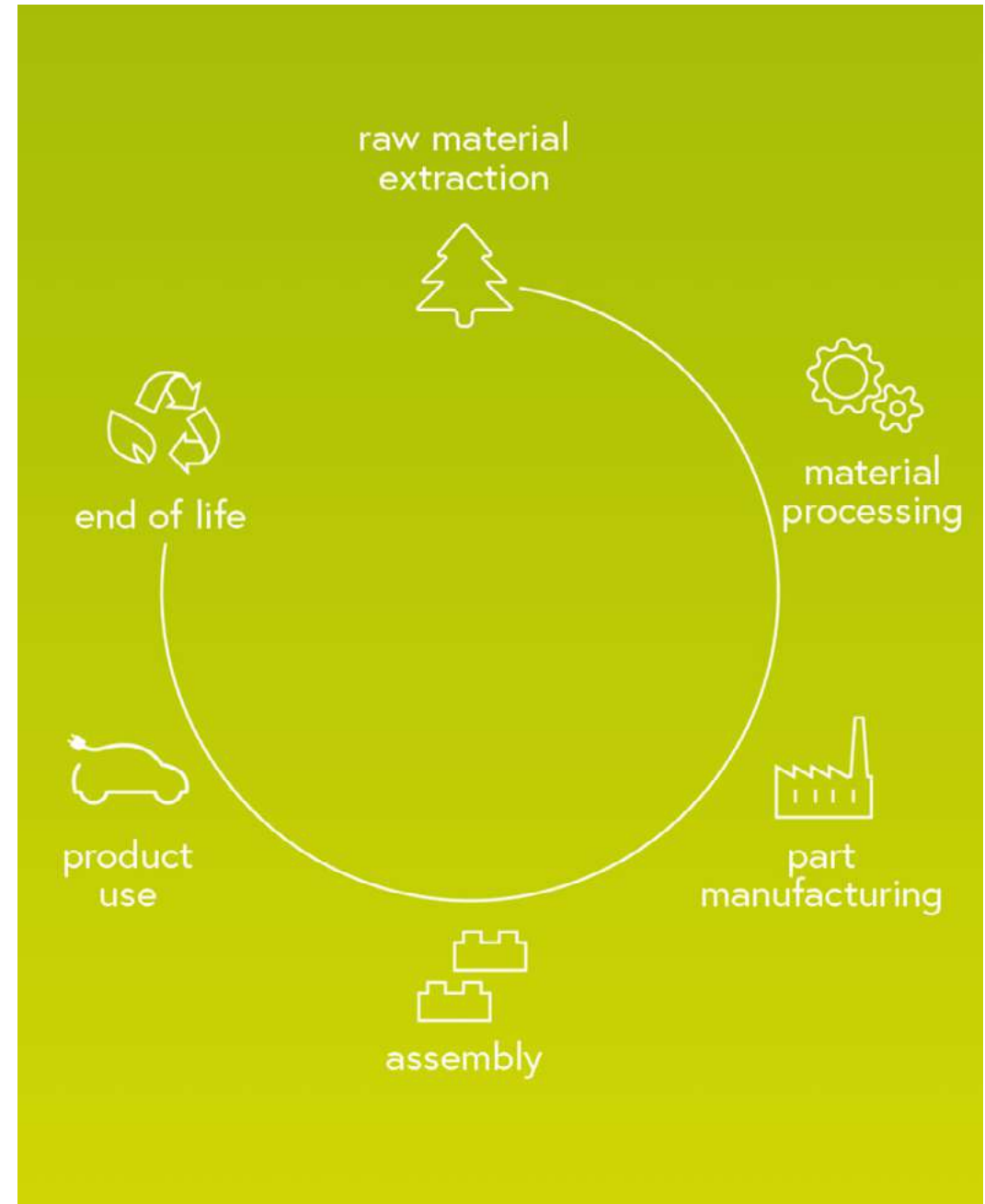




> *With a power output of around 20 CV and a top speed of 90 km/h, this quadricycle is suitable for both urban use and short journeys outside urban areas.*



> *Instead of following traditional industrial practices, the company plans to sell production licenses to local authorities and companies, allowing them to produce the vehicle locally.*



Revolutionary Trends Market Dynamics

The wood-fired hot tub market is witnessing several revolutionary trends. Eco-friendly and plastic materials are increasingly preferred, as sustainability gains importance among consumers. Customization options are rising, allowing buyers to select designs and features that suit personal aesthetics and preferences.

Digital integration, including temperature control and water quality monitoring, enhances user experience. Additionally, there is a growing trend towards wellness and relaxation, driving demand for therapeutic features like aromatherapy. Lastly, social media influence encourages communal use, promoting larger models for group enjoyment, which broadens the market's appeal and accessibility.

Global Wood-fired Hot Tub Market Trends

Wood-fired hot tubs come in two main types: internal heaters and external heaters, each driving market demand through distinct features. Internal heater models integrate the heating system within the tub, offering a sleek design and efficient heat retention, appealing to space-conscious consumers.

In contrast, external heater setups provide flexibility in installation and easier maintenance, making them suitable for larger or custom setups. Both types enhance eco-friendliness, with wood as a renewable energy source, attracting environmentally conscious buyers.

Wood-fired hot tubs are gaining popularity in both home and commercial settings. In residential applications, they offer a rustic, eco-friendly way for homeowners to relax, often placed in gardens for a natural aesthetic. For commercial uses, they are increasingly found in spas, wellness retreats, and vacation rentals, providing unique and immersive experiences. The fastest-growing application segment is the commercial sector, driven by rising consumer interest in wellness tourism and unique leisure experiences.



KolKol Wood-Fired Hot Tubs

production Kolkol - South Africa

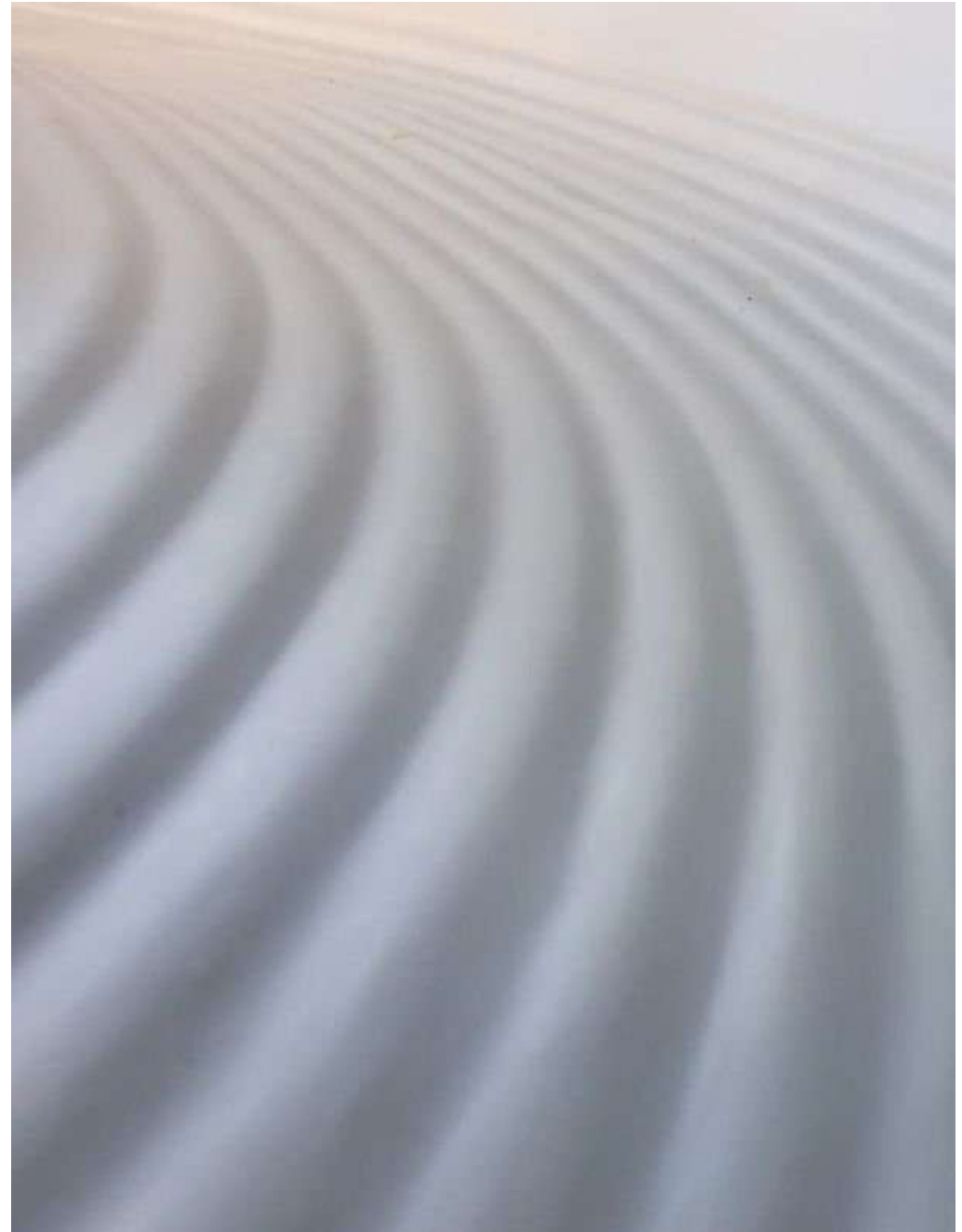
A Kolkol hot tub is a beautifully crafted, eco-friendly wood-fired tub designed to bring a touch of rustic luxury to any outdoor setting. Made through rotational moulding using high-quality polymer, Kolkol tubs offer a natural, off-the-grid relaxation experience, with no electricity needed—just wood and water. These tubs feature a compact design with molded seating for comfort, making them perfect for small spaces while comfortably accommodating multiple bathers. With their smooth, minimalist exterior and warm wooden finish, Kolkol hot tubs seamlessly blend into gardens, patios, or glamping sites, providing a relaxing, authentic connection to nature.

www.kolkoltubs.com

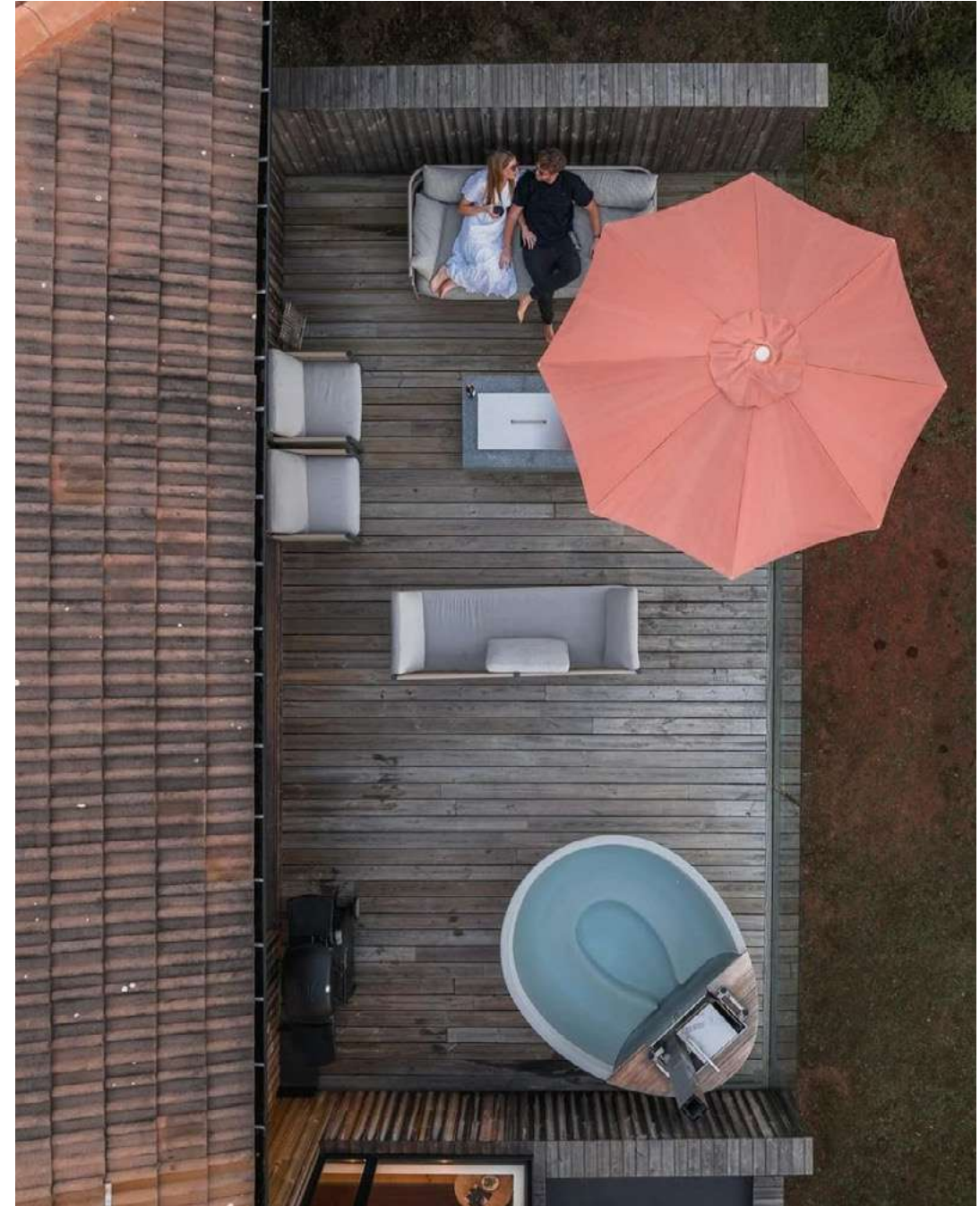




> *The particular wavy shape of the rotomolded tub gives rigidity to the structure, which does not deform when filled with water.*



> *The water is heated via a stainless steel wood-fired stove which fits neatly into a corner.*



> *The internal cavity is designed to ensure particular comfort for people immersed in the water.*

Agricultural Harvesters Main Advantages

Rotomoulded plastic components such as AdBlue tanks, fuel tanks, hydraulic oil tanks, and pointers or covers are the best solution for manufacturers of agricultural harvesters for a number of reasons.

First off, plastic components made with the unique rotomoulding process are extremely durable in outdoor environments. The manufacturing process allows us to produce large and complex one part hollow pieces.

The process enables the PE to be equally divided throughout the whole product. This unique feature ensures that the products can withstand the harsh outdoor environments.

Another advantage of rotomoulded plastic combine parts is that they are extremely durable and long-lasting compared to other materials, such as metal. Plastic parts do not rust or corrode, which means they can withstand the harsh conditions of the agricultural industry even better. This makes them a great choice for parts that will be exposed to the elements and heavy use in agriculture markets.

Harvester Parts Key Factors

Rotomoulded plastic harvester parts are also lightweight, which is an important consideration for agricultural equipment manufacturers. The weight of the equipment is a critical factor in its efficiency and performance, so lightweight parts can help to reduce the overall weight of the machine and improve its performance.

An important element of performance is its durability. Rotomoulded plastic combine harvester parts are also resistant to impact and vibration, which is another important consideration for agricultural equipment manufacturers. These parts for harvesters can withstand the rough conditions in the field without breaking or cracking, which means they will last longer and require less maintenance.

Finally, rotomoulded plastic parts for harvesters are very customizable. Manufacturers can create parts in a variety of shapes, sizes, and colours, which allows them to create equipment that is tailored to the specific needs of their customers.



CH Crossover Harvesting Sustained performance in hilly conditions

production New Holland, Netherlands
moulding Rotovia, Iceland

The CH crossover combine simply delivers. And that is thanks to the outstanding technology under its skin. The new, optional, award winning Ultra-Flow™ staggered drum is combined with 21" Twin Rotor™ separation. This adds up to outstanding grain and straw quality and an ergonomic operator experience which delivers the ultimate in ease of use.

New Holland combines have delivered benchmark performance in both the rotary and conventional segments for decades. Now, New Holland has combined its outstanding Twin Rotor™ separation technology with the efficient, large diameter threshing drum of its conventional combines to launch a brand new, Crossover Harvesting™ concept: the CH7.70. This machine has been designed for professional arable farmers and contractors who prize performance and value, including easy maintenance. The side covers are made by means of rotational moulding and designed with a special shape to withstand the physical and mechanical stresses developed by the machine.

The CH creates a new segment, between mid range conventional and flagship rotary models, much like its illustrious ancestor, the TF range of the 1980s.

www.agriculture.newholland.com





> *The CH combine's cleaning capacity has been perfectly matched to its threshing and separation output. Large adjustable sieves are complemented by ingenious extra features:*



> *For sustained performance in hilly conditions, a Laterale version, which uses a robust automatic levelling system provides transverse slope correction of up to 18% on both sides.*



> *The extensive range of New Holland headers has been designed to perfectly match the CH combine range to ensure the smoothest and most efficient crop intake.*

Top Trends in Cleaning for 2024

Each mechanical workshop design is created following different phases: the designer takes care of every aspect in detail and works with the aim of achieving the best technical-economic result, while creating a relationship of trust with the customer.

A design made by professionals in the automotive sector is the basis for a mechanical workshop that works well. It is necessary to carefully evaluate not only the available space, but also the way they are used.

Rotational molding represents an ideal technology for producing multiple parts of accessories thanks to the possibility of creating objects of various sizes, co-molding metal inserts and creating complex geometries.

Key Points in Products for Cleaning Public Spaces

The design of furniture elements for the mechanical workshop follows precise logics dictated by the absolute need to combine a series of key factors:

- **functionality**: it is essential that each piece of furniture contributes to increasing the productivity of the workshop without hindering the work of the mechanics: each operation, from the simplest to the most complex, must take place in the best possible conditions*
- **resistance**: the furnishing accessories must be produced in such a way as to last over time, resisting the stresses to which they are subjected*
- **maintenance**: being a workplace where work dirt is abundant, each product must be easy to clean, disassemble and sanitize when necessary.*



Terpel Celerity Mobile station for changing motorcycle oil

production Terpel, Colombia
moulding Creating Ideas - Colombia

The Colombian multinational Tèpel, a leading manufacturer of lubricants, has recently developed a mobile station suitable for oil changes in workshops. Thanks to a kit, the operator has all the necessary tools at his disposal to carry out the task conveniently and efficiently, while the buyer and retailer have brand contact thanks to the branding and novelty offered by the element.

The station offers the convenience of carrying out the oil change in a normal working day. The stainless steel construction is complemented by rotomoulded elements and a mouldable fabric cover. The special shape of the station allows it to withstand the weather and conditions of use typical of a service station.

www.terpel.com





> The seat features a rotomoulded side drawer that hold work tools. This allows the operator to be fully operational without having to move from his seat.



> The rotomoulded plastic tray allows oil spills to be collected from the floor. The fabric cover protects the operator from sunlight in outdoor environments.



> The cover can be reclined and the back of the backrest holds the lubricating oil canisters.

The Advantages of Rotational Technology

Rotational molding offers numerous opportunities to create innovative and functional products to support the equine world.

*The possibility of creating hollow bodies and the creation of fluid surfaces allow the creation of accessories that are **easy to clean**, **resistant to atmospheric agents** and therefore usable both inside and outside riding arenas. Furthermore, the possibility of co-molding metal inserts allows for the creation of accessories that make the use of a specific product more complete and efficient.*

Designing Horse Equipment Criteria

*Designing equipment to facilitate the daily life of horses is a topic that requires **adequate knowledge of the animal, its needs and behaviors**.*

Hay bins are products that must be developed considering a series of important key factors:

- first of all, the need to be able **to carry out regular and correct cleaning** to ensure the necessary healthiness of the riding school*
- secondly, the **importance of being able to supply hay in a simple and direct way**, through easy manual operations that a normal operator can do*
- finally, **the possibility of having mobile structures**, able to be easily moved to easily reach the different stables*



HayMobil **Mobile horse feeder**

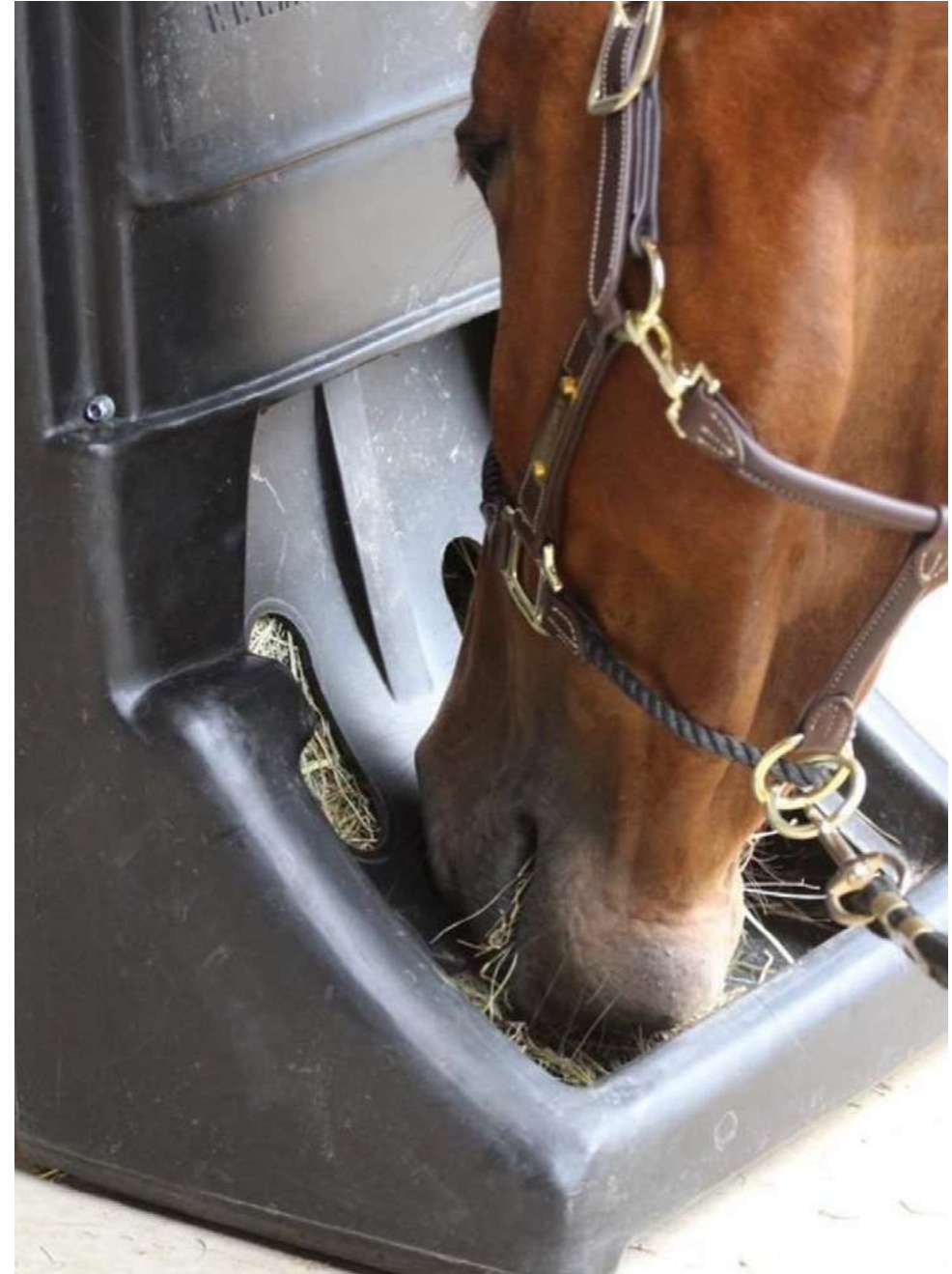
production Parallax Plastics, Great Britain

The Haymobili horse trough represents an innovative solution that has introduced numerous advantages in the design of this type of product. It has a large capacity of approximately 6 kg of dry hay and can be easily moved, allowing more horses to be fed.

The structure is entirely made by means of rotational moulding and is designed for maximum ease of cleaning and maintenance. The special shape of the mouth of the manger allows the hay to be dosed, enabling the horse to feed properly.

www.parallaxplastics.co.uk





> On the back of the feeder are the two wheels and the handlebar for moving the product easily.



> *The special shape of the mouth allows the hay to be dosed, enabling the horse to feed properly.*

Ice Resurfacer Market Overview

The Ice Resurfacer market is experiencing significant transformations driven by advancements in technology, changing consumer preferences, and various industry disruptions. These trends not only enhance operational efficiency but also improve user experience, ultimately fueling market growth.

- *Eco-Friendly Technologies:* Increasing demand for sustainable solutions is leading manufacturers to develop electric or hybrid ice resurfacers, which reduce carbon emissions and operating costs.
- *Enhanced User Experience:* Innovations focused on operator comfort and efficiency, such as ergonomic designs and user-friendly controls, are becoming critical to meet the expectations of today's users.
- *Demand for Quality Ice:* The rising popularity of ice sports and events is creating a strong need for high-quality ice surfaces, driving investments in advanced resurfacing technologies.

Design Factors for Ice Resurfacer

An Ice Resurfacer is a specialized machine designed to maintain the surface of ice rinks by smoothing and refreshing the ice. Its primary purpose is to remove imperfections and create a uniform, smooth surface conducive to skating or hockey. This ensures optimal performance for athletes, enhances safety, and improves the overall skating experience.

The benefits of using an Ice Resurfacer include increased *ice longevity*, *reduced maintenance costs*, and *enhanced rink aesthetics*, leading to more frequent use by patrons. By providing consistent, high-quality ice surfaces, these machines *encourage more events and activities*, *expanding rink operations* and *boosting revenue*.



Pinguino

The mini-revolution in ice resurfacing

production Wm Technics, Italy

With its compact size and agility, the Pinguino delivers perfect ice conditions for events and mobile rinks with surfaces up to 800 m² / 8,600 ft².

Whether sporting events or ice skating on a mobile rink, the nimble Pinguino makes cleaning and maintaining smaller ice surfaces effortless. This innovative, compact ice resurfacer (3 meters / 10 feet long, 2 meters / 6.5 feet high) matches the performance of its larger counterparts, planing ice with impressive efficiency and delivering exceptional ice quality. Its front-facing driver's seat is a standout feature, offering a clear 360° view and making operations significantly more accessible, even for less experienced users. The external structure and water tank are characterised by rotomoulded elements designed to optimise the footprint and create a functional and aesthetically pleasing design.

With its modern design, top-quality construction, and ease of maintenance, resurfacing mobile ice rinks looks an innovative multiuse vehicle.

www.wm-technics.com





> *The front seating position provides a complete field of view, better peripheral vision, and easier maneuvering. This enhances safety for people, the machine, and the sports facility.*



> *All machine components are easily accessible without the need to remove parts, making maintenance quick, simple, and very cost-effective, keeping operating costs to a minimum.*



> *The Pinguino offers numerous configuration options: with a wide range of accessories, you can fully customize your machine to perfectly meet your specific needs.*



> *Front and working lights have been designed to be integrated into the moulded components.*

Key Factors Between Design and Technology

The amusement rides market is a dynamic sector within the entertainment industry, catering to the recreational needs of people worldwide. It encompasses a wide range of attractions, from roller coasters and Ferris wheels to water slides and thrill rides.

Main trends are:

Technological Advancements: Constant innovations in ride design and engineering enhance visitor experiences.

Changing Consumer Preferences: Demand shifts towards more immersive, themed experiences.

Regulatory Compliance: Stringent safety regulations influence ride design and operation.

Amusement Rides Market Insights

Due to customer demand for immersive, high-tech, and exhilarating experiences, amusement parks and other themed entertainment facilities have been steadily growing.

Technological developments such as the introduction of virtual reality (VR), augmented reality (AR), and improved safety measures in ride designs are contributing to the growth of the Amusement Rides Market.

In addition to making rides more appealing, these improvements also help to improve visitor safety and operational effectiveness. The industry has also been touched by the global movement toward environmentally friendly solutions, as many amusement parks are choosing to build their rides with sustainable materials and energy-efficient technology.



Surf's Up **A wave of excitement**

production Zamperla, Italy
moulds: XMTech, Italy

Zamperla Group is a premier worldwide leader in amusement ride manufacturing. With a rich history, the company is driven by a relentless passion for innovation, introducing new technologies and materials, continuously striving to deliver ever-more immersive and inclusive experiences.

Surf's Up features a large painted surfboard that rotates continuously, allowing passengers to “surf” along the waves of the track while standing.

The stations where the participating public sits are designed with a particular rotomolded shape designed to protect the body during movements. These elements are positioned inside the carousel and are completed with a series of belts to ensure the necessary safety.

The carousel consists of a giant painted surfboard that spins on itself. People stand up and surf while standing offers an unique interactivity.

www.zamperla.com





> *People remain standing protected on the back by the roto-molded structure and attached with their hands to the front metal structure.*



> *The stations are rotomoulded in multiple colors to coordinate with the graphic image of the carousel.*



> *The tilting base is made of steel and covered with a fiberglass cover.*

The Evolution of the Contemporary Bathroom

In recent decades, a constant evolution of the concept of living and the way of living the home have influenced the criteria for the design and furnishing of the entire home environment.

The modern bathroom has played a leading role in this process of change, showing the most significant changes, both functionally and from the aesthetic point of view. In the 80s began the attention on the centrality of the body and the self-care, promoting the development of new design concepts and business (such as gyms and wellness centers).

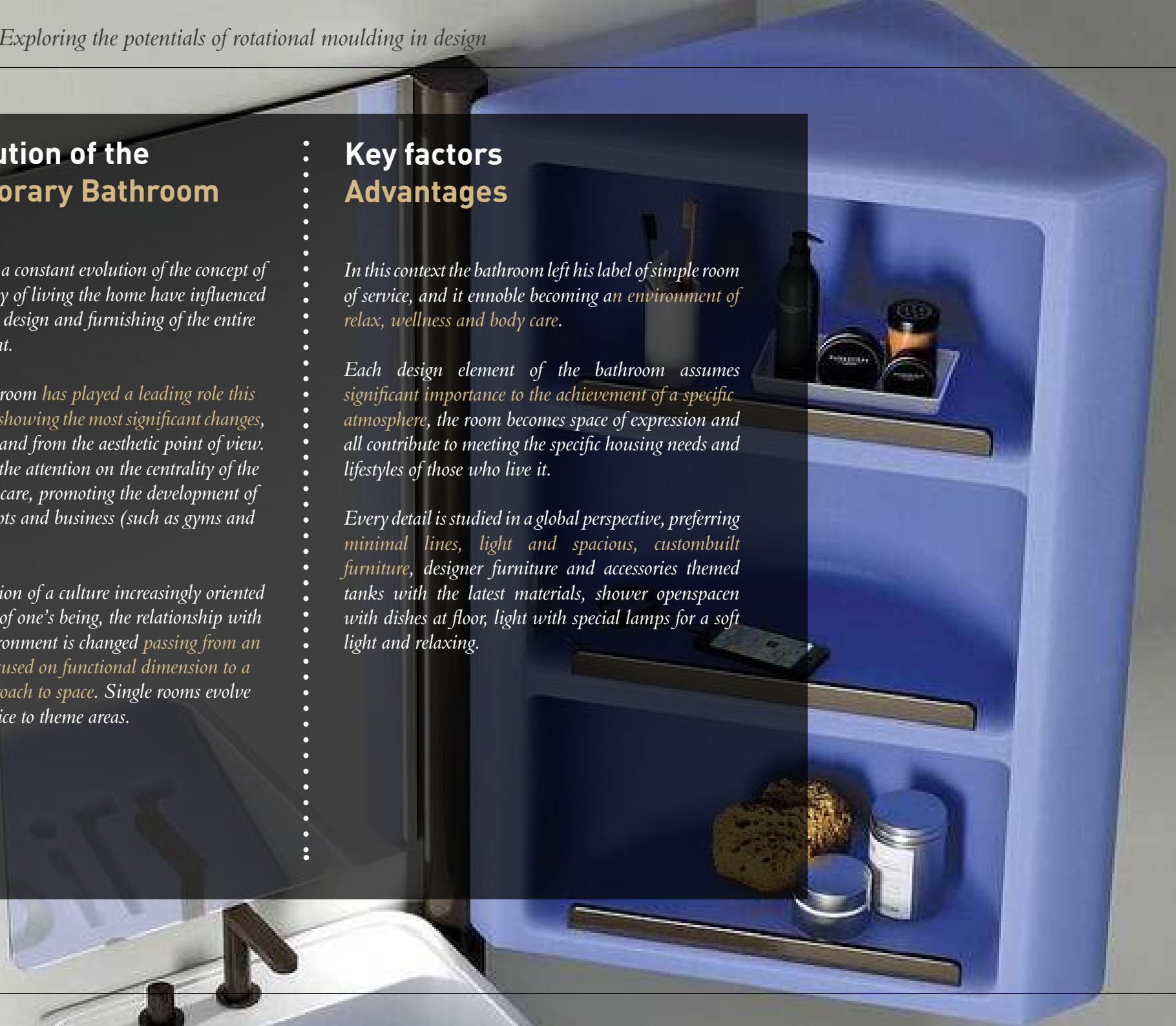
With the affirmation of a culture increasingly oriented to self-expression of one's being, the relationship with the domestic environment is changed passing from an attitude purely focused on functional dimension to a new creative approach to space. Single rooms evolve from areas of service to theme areas.

Key factors Advantages

In this context the bathroom left his label of simple room of service, and it ennobled becoming an environment of relax, wellness and body care.

Each design element of the bathroom assumes significant importance to the achievement of a specific atmosphere, the room becomes space of expression and all contribute to meeting the specific housing needs and lifestyles of those who live it.

Every detail is studied in a global perspective, preferring minimal lines, light and spacious, custombuilt furniture, designer furniture and accessories themed tanks with the latest materials, shower openspaces with dishes at floor, light with special lamps for a soft light and relaxing.



P!LL

Smart vertical bathroom unit

production Viglacera Trading JSC, Vietnam
design Sara Zama, Mirko Lorenzini, and
Nilo Gioacchini, Italy

P!LL incorporates all essential bathroom functions into a small footprint. This enables it to be used in previously unexplored areas, such as residential renovations and offices, or anywhere limited by spatial constraints. All of its primary functions can be fulfilled when it is combined with a shower tray.

Metamorphosis is the word that comes to mind to describe P!LL. The toilet has the option of including an electronic bidet (like an intelligent toilet). The washbasin is equipped with removable taps that facilitates toilet cleaning. The repositionable board transforms the sink into a washboard. The storage container, made by rotomoulding, is available in a wide range of colours.

www.viglaceratrading.vn





> *The rotomoulded storage container can rotate 180° allowing multiple configurations.*



> *The repositionable board transforms the sink into a functional washboard.*



> *The vertical unit integrates all basic bathroom functions into minimum space allowing it to be in places never before possible, including residential and offices renovations.*

Boat Docks And Lifts Market Drivers

Increasing Popularity of Boating and Water Sports
Boating and various water sports are on the rise these days, which serves as the primary factor contributing to the increasing demand for the global boat docks and lifts market.

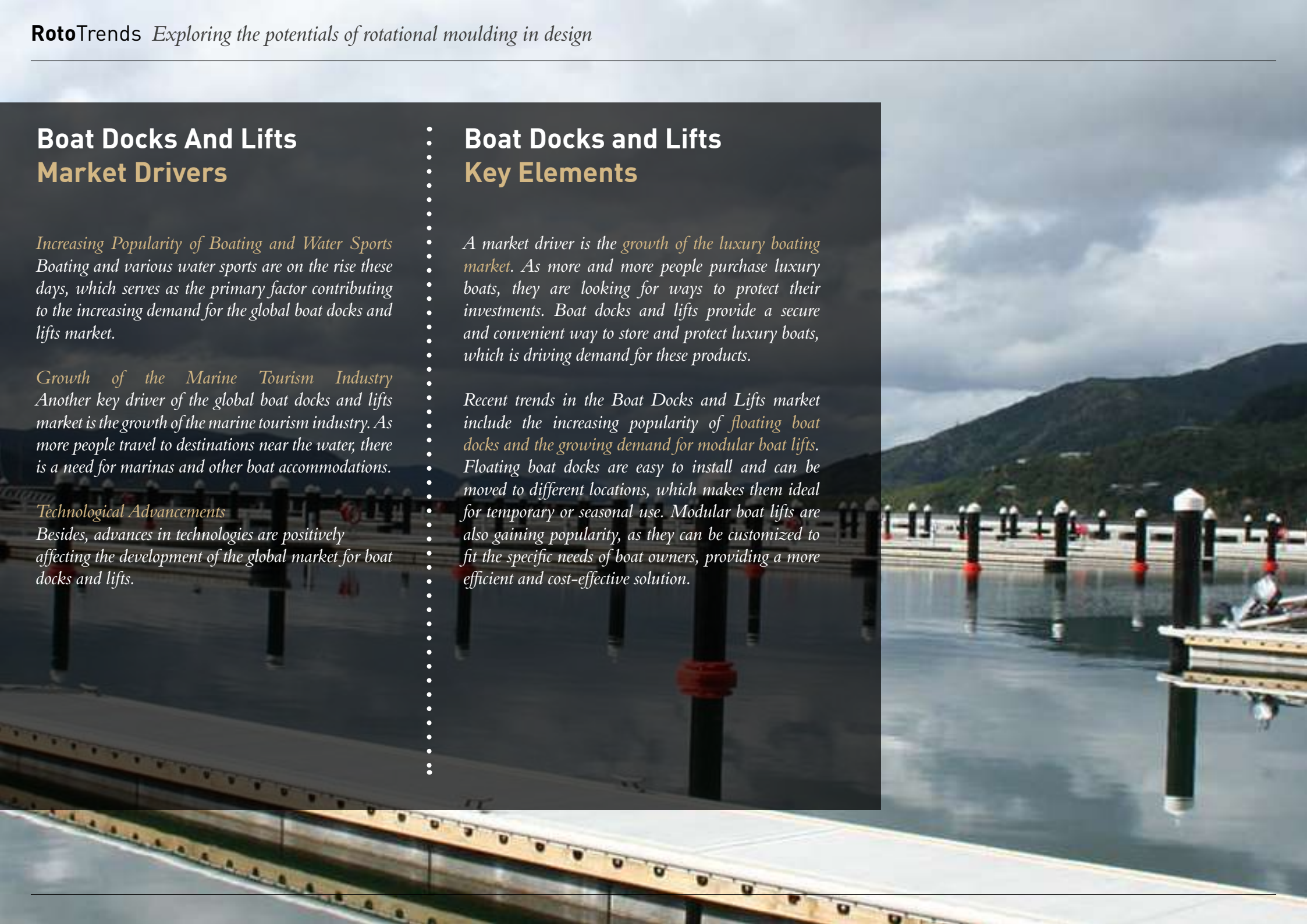
Growth of the Marine Tourism Industry
Another key driver of the global boat docks and lifts market is the growth of the marine tourism industry. As more people travel to destinations near the water, there is a need for marinas and other boat accommodations.

Technological Advancements
Besides, advances in technologies are positively affecting the development of the global market for boat docks and lifts.

Boat Docks and Lifts Key Elements

A market driver is the growth of the luxury boating market. As more and more people purchase luxury boats, they are looking for ways to protect their investments. Boat docks and lifts provide a secure and convenient way to store and protect luxury boats, which is driving demand for these products.

Recent trends in the Boat Docks and Lifts market include the increasing popularity of *floating boat docks* and the growing demand for *modular boat lifts*. Floating boat docks are easy to install and can be moved to different locations, which makes them ideal for temporary or seasonal use. Modular boat lifts are also gaining popularity, as they can be customized to fit the specific needs of boat owners, providing a more efficient and cost-effective solution.



Pile Rings

Revolutionary floating mooring system

production Marinaquip, New Zealand

Pile Ring is an innovative mooring rotomoulded device that provides constant and automatic line adjustment. The Pile Ring has been designed specifically to overcome weather and tidal mooring problems experienced by marina operators and boat owners alike. They not only take care of the hour by hour and day by day adjustments required for changes in tide and water levels but are also on hand in the event of unpredictable and potentially disastrous weather bombs, tidal surges and flash floods which effect coastal and inland waterways and lakes from time to time. Pile Ring requires no special maintenance and is manufactured to withstand the stresses to which it may be subjected when hooked to a marine pole or floating in water.

www.marinaquip.com





> *Pile Ring allows the rope to be easily and securely attached through the cavity on the edge, which allows the cable to be positioned without hindrance.*



> *Pile Ring sits on the surface of the water around a mooring pile. Mooring ropes from your boat or craft are tied to the Pile Ring instead of the pile.*



> *The Pile Ring floats up and down the mooring pile at the same rate as your boat or craft and as such never needs adjusting. The boat will always have tight and/or perfectly adjusted lines.*



> *They not only take care of the hour by hour and day by day adjustments required for changes in tide and water levels but are also on hand in the event of unpredictable weather bombs.*

Street Furniture

Key Places

Parklets – A parklet is a small zone where a car parking space has been replaced with seating so people can rest and relax, and wait comfortably for public transport.

Multimodal connection – connecting people with the places they live and work; making the journey easy, efficient, pleasant.

End of ride facilities such as bike racks and shelters. Most of our popular bike racks and shelters can be integrated to create a smart and practical parking solutions that can accommodate anything.

Sustainable materials continue to be on-trend. Notably, the use of seating around trees in ‘social circles’ in outdoor classrooms, or seating with planters are proving popular. Moreover, it encourages conversation and connection, inclusion and meets sensory needs.

Urban design

Key Trends

Parks, playgrounds and streetscapes play a vital role in creating happier, healthier communities which foster social cohesion and social equity. Providing these spaces with furniture and amenities to improve the human experience of these spaces and how people can use them is a must. *Accessibility and inclusivity* for all community members is also necessary as part of this.

The concept of the ‘urban living room’ where people can gather, enjoy fresh air and space.

Design focused on the human experience: guided by consultation and engagement with those in the community who are going to use it.

‘Sidewalk culture’ / pedestrian friendly streets: mixed use, walkable places are becoming increasingly available.

Modular seating/configuration: allowing street furniture to be easily reconfigured and added to at any time. Just like our modular seating solutions like Ad-Bloc suites with complementary pieces that can be arranged to create comfortable and inviting communal spaces.



AD-Bloc **Modular plastic parklet system**

production Armoulding, New Zealand
design Interboro, USA

Parklets are sidewalk extensions which occupy parking spaces, creating community spaces to hang out on, much like front porches or stoops. The Boston Department of Transportation hired design firm Interboro to design a modular system for urban areas, creating two of Boston's first parklets.

To meet the city's requirement that the parklet be lightweight, inexpensive, and flexible, Interboro designed the Ad-bloc, a durable, easy-to-install, easy-to-maintain, and connectable plastic block. Ad-blocs are rotomolded, highly durable, and can be filled with water to make them heavy and stable.

Ad-blocs can be arranged in a variety of configurations: they can be placed side by side, perpendicularly, or stacked, to create a variety of seating areas. A stool, which also serves as a planter, acts as an interlocking peg to hold the blocks together. Cylindrical voids in the blocks can be used to accommodate standard-sized planters.

www.armoulding.co.nz





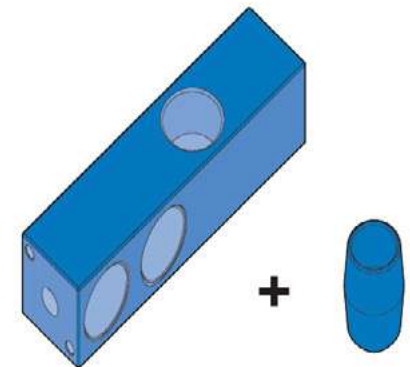
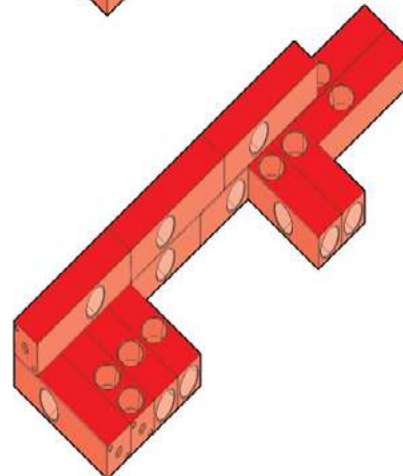
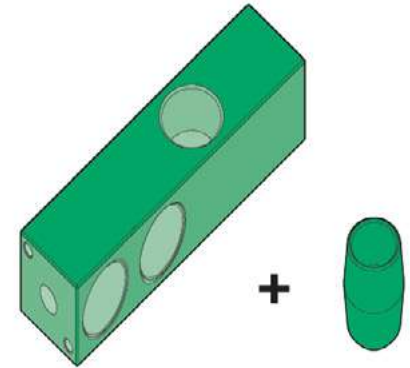
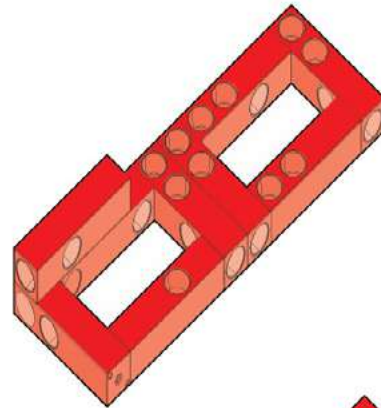
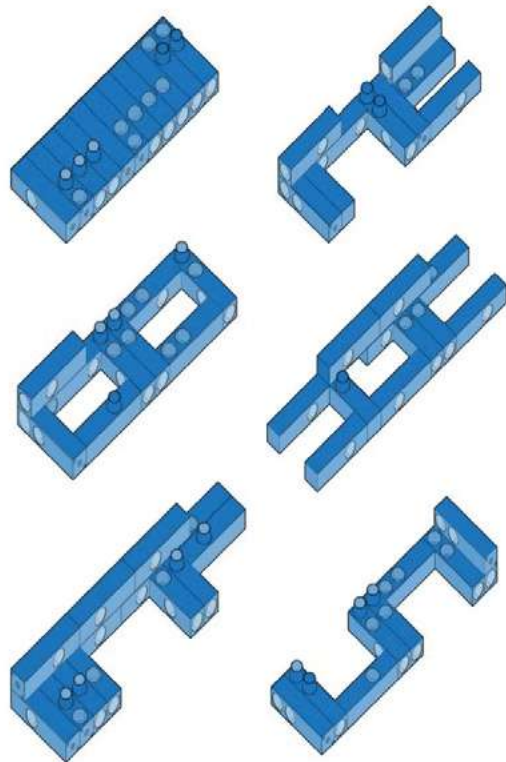
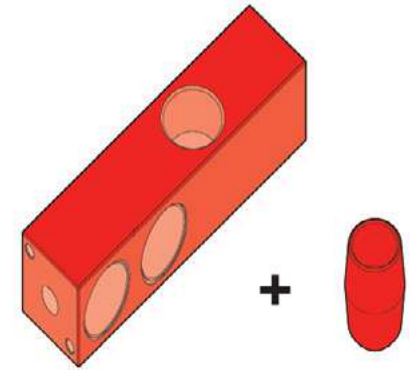
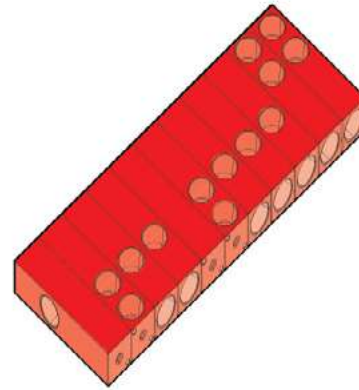
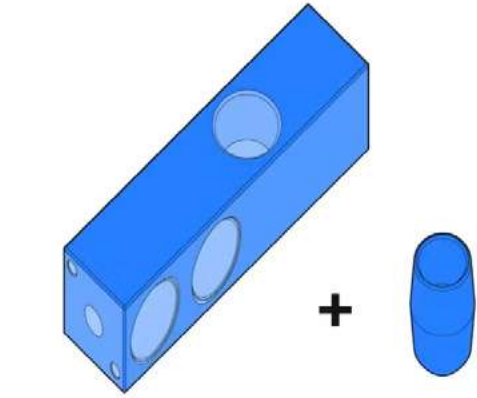
> *The Ad-bloc can be configured in many ways and blocks can be joined together using a plug as an interlocking mechanism.*



>The openings for plugs are designed to fit standard nursery pots. The plugs are hollow and open along one side.



> *Ad-blocs are very light, and very easy to install and deinstall. Like the plastic jersey barriers, you can simply drain them and move them.*



> *When the plugs are inserted into the blocks, they can be used as additional planters. They can also be used as single stools.*



Designing Niche Sports Accessories

Sports design is no longer limited to creating attractive logos and jerseys. Today, it encompasses a wider variety of elements, with the appearance of small and large objects designed specifically to meet new functional needs arising in the different sports disciplines.

Strategic sports design significantly influences branding and marketing efforts. It has the power to engage fans, enhance player performance and increase the visibility and recognition of a team or brand. The gradual increase in new sports disciplines through the emergence of new sports becoming internationally popular creates the need to explore market niches by developing new accessories that meet new functional requirements.

Rotational moulding offers numerous opportunities from this point of view thanks to the possibility of developing small and large series productions that also fit niche products.

The Dominance of Minimalism and One-Color

Minimalism is a design philosophy that emphasizes simplicity and functionality. It's all about eliminating the non-essential elements and focusing on what's truly important.

One-color designs, on the other hand, are designs that use a single hue but can employ different shades, tints, and tones of that color. This design trend is often used to create a strong, unified visual impact.

In the realm of sports design, minimalism and one-color designs are being used to convey simplicity, elegance, and focus. This trend is a departure from the often busy and vibrant designs associated with sports, signaling a shift towards more refined and sophisticated aesthetics.

Parking Block **Solving a specific need**

design Tark Abed, Marc Emme USA

Parking Block is an innovative skateboard stand designed to be stackable and at the same time very stable. The back has a compartment that can hold multiple skateboard accessories.

It is an easily movable object and is customisable through a graphic that can be applied to the outer surface. It represents a significant example of a niche object that brilliantly solves a specific need that had not been solved until now.

www.mighty-studios.com





> *The shape of the inclined base is designed to fit the size of skateboards.*



> *The shape of the container on the back allows easy access with the hand when the skateboard is inserted.*



credits

SoftCar, *Switzerland*
Kolkol, *South Africa*
New Holland, *Netherlands*
Terpel,, *Colombia*
Parallax Plastics,, *Great Britain*
Wm Technics, *Italy*
Zamperla, *Italy*
Viglacera Trading, *Vietnam*
Marinaquip, *New Zealand*
Interboro, *USA*
Mighty Studios, *USA*

Cover Pictures
courtesy Euro3Plast, *Italy*

Projects
Bahçesehir University, *Turkey*
Ecal, *France*
Istituto Europeo Design, *Spain*
UDK, *Germany*
Domus Academy, *Italy*
SJB-Institute of Technology, *India*
Seoul University, *South Korea*

Concept
Studio Giovanetti, *Italy*

affiliates



AFR - Association
Francophone du Rotomoulage



ARM - Association of
Rotational Molders



ARMA - Association of
Rotational Moulders Australasia



ANIPAC - The Mexican Plastic
Association



ARMSA - Association of Rotational
Moulders Southern Africa



ARM-CE - Association of Rotational
Moulders Central Europe



StAR - Society of Asian
Rotomoulders



Nordic ARM - Nordic Association
of Rotational Moulders



BPF - Rotational Moulders
Group



IT-RO - Italia Rotazionale



RPC-CPPIA



Rotopol Association