

RotoTrends

*Exploring the potentials of
rotational moulding in design*

Issue 14



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.

Hives as Guardians of Biodiversity

Modern hives are designed not only to shelter bees but to help them adapt to new pressures. Materials, ventilation and positioning are chosen with an awareness of rising temperatures and altered seasonal rhythms. A well-managed apiary becomes a refuge where colonies can thrive despite external volatility. It also becomes a source of valuable data: the behaviour of bees, their productivity and their health provide insights into the broader environmental conditions that surround them. In this sense, each hive is both a sanctuary and a sensor.

The strategic role of apiculture extends beyond ecology. It touches on food security, rural economies and cultural continuity. As climate change reshapes landscapes, beekeeping offers a practice rooted in care, observation and long-term stewardship. It encourages communities to engage with their environment in a more attentive way, recognising that the wellbeing of bees mirrors our own. In supporting hives, we support the delicate balance that sustains life, ensuring that resilience is built not only through technology but through a renewed respect for the natural systems.

The Strategic Role of Beekeeping

Beekeeping has long been a quiet pillar of rural culture, but in the era of accelerating climate change it has taken on a renewed strategic significance. The hive is no longer simply a place where honey is produced; it has become a barometer of environmental health, a living instrument capable of revealing the subtle imbalances that warming temperatures, shifting seasons and extreme weather impose on ecosystems. As pollinators struggle with habitat loss and unpredictable flowering cycles, the role of the beekeeper evolves into that of a guardian of biodiversity.

The importance of apiculture today lies in its ability to sustain pollination networks that agriculture and wild landscapes depend upon. Bees connect environments that would otherwise remain fragmented, ensuring that plants continue to reproduce and that food chains remain intact. Their presence supports crops, orchards and meadows alike, making hives an essential component of climate-resilient land management. When placed with care, they help stabilise local ecosystems, offering a form of natural continuity in a world where traditional patterns are increasingly disrupted.

Bubble BeeHive

The Hive for Urban Environments

design Realizzatori di Idee, Italy
moulds Persico, Italy
production Bubble Beehive, Italy

In recent years, there has been a significant loss of honeybees, resulting in the depopulation of entire hives. This situation is causing significant damage to the entire ecosystem. Bees play a fundamental role in the planet's biological processes, and today the question of their survival is no longer merely theoretical, as bees are actually disappearing. Bubble BeeHive is made from a series of roto-moulded food-grade PE elements. The double-walled structure allows for proper insulation of the hive, maintaining a constant internal temperature—cool in summer and warm in winter. Its distinctive shape is characterized by a series of curved container elements that give the final product a distinctive look. Functionally, Bubble BeeHive retains all the characteristics of a traditional hive: the nest, the part where the colony of bees with the queen bee is placed, and the honey super, considered the storage area, where excess honey is stored and from which honey is extracted for personal use, without damaging the hive's reserve. The product is also completed with some essential accessories such as the queen excluder net, the varroa net, and the inspection drawer. The supporting structure and some of the handles are made of natural wood, creating an interesting combination with the plastic parts.

www.bubblebeehive.com





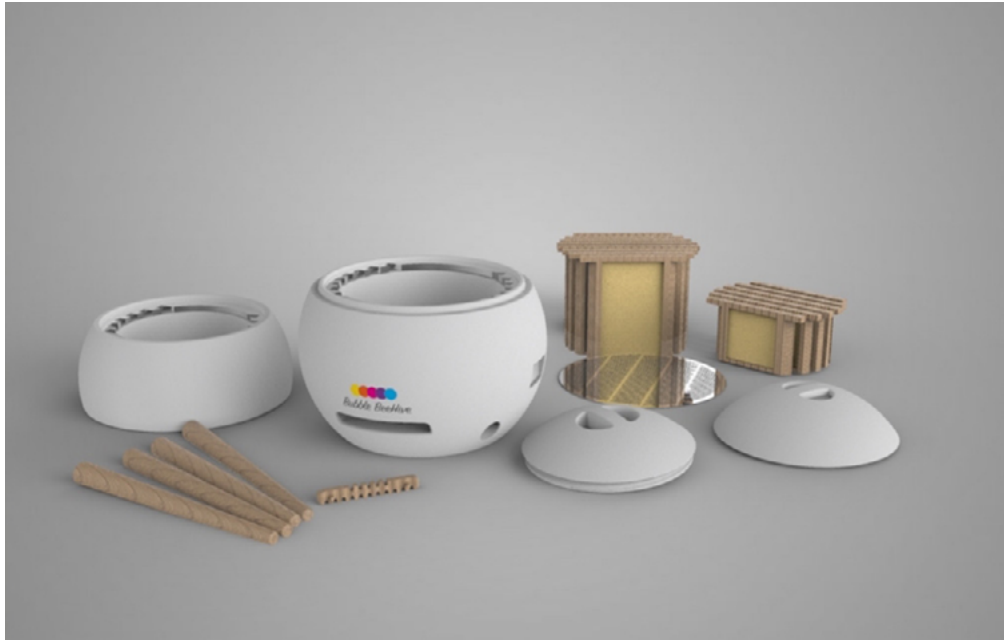
> *Bubble BeeHive introduces a new vision for apiculture within the contemporary city, offering a hive conceived specifically for dense, ever-changing urban environments.*



> *Its form is compact yet expressive, designed to coexist gracefully with architecture while providing bees with a stable and protective habitat.*



> *In a context where green spaces are fragmented, the hive becomes both a refuge and a quiet infrastructural element that supports the ecological life of the city.*



> *Its geometry encourages healthy colony development, while the materials are selected to withstand urban conditions without compromising the wellbeing of the bees.*

From Indoors to Outdoors A New Bathroom Aesthetic

Plastic plays a decisive role in this transition. Its ability to withstand moisture, temperature variations and exposure to sunlight makes it *an ideal candidate for products that must perform reliably in diverse settings*. At the same time, contemporary manufacturing techniques such as rotational moulding or advanced injection processes allow for monolithic shapes, generous volumes and tactile surfaces that feel warm and inviting rather than industrial. These qualities enable designers to craft washbasins, accessories and storage elements that are *lightweight yet robust, sculptural yet practical, and capable of expressing a refined visual language*.

The introduction of recycled plastics further enriches this evolution, aligning bathroom design with the growing cultural emphasis on sustainability. Furnishings made from recycled materials embody a circular approach to production, demonstrating how environmental responsibility can coexist with elegance and innovation. Their presence in the bathroom—and in outdoor spaces—creates *a narrative of care*, one that acknowledges the need for durable products while reducing the impact of manufacturing on the planet.

New Materials Shaping The Modern Bathroom

The evolution of bathroom furnishings has entered a moment of *profound transformation*, driven by the arrival of advanced plastics that expand both the expressive and functional possibilities of design. What was once a domain defined almost exclusively by ceramics, metals and mineral composites is *now opening to a new material culture capable of reshaping the identity of the contemporary bathroom*. Plastics, particularly those engineered for durability and environmental responsibility, introduce a versatility that allows designers to imagine forms, surfaces and uses that traditional materials could not easily accommodate.

This shift is not merely aesthetic. It reflects a broader rethinking of *how domestic spaces are used* and how objects can adapt to the fluid boundaries between interior and exterior living. As homes increasingly embrace outdoor areas as extensions of everyday life, bathroom products are beginning to follow the same trajectory. The *emergence of hybrid furnishings*—pieces conceived to function seamlessly both indoors and outdoors—signals a new design philosophy rooted in flexibility, resilience and a more dynamic relationship with the environment.



Fòra Basin for indoor and outdoor use

production Lineabeta, Italy
design JoeVelluto, Italy

A new paradigm in bathroom decor. An accessorized basin formed of a single constituent element made out of recycled plastic. Outdoors, located close to a water point Fòra works simply by connecting it to a garden hose, whilst in public spaces it may be turned into a community hand hygiene hub.

Fòra by Lineabeta stands as a quiet yet decisive gesture of contemporary bathroom design, a piece that redefines the very idea of a washbasin through the expressive potential of rotational moulding. In a sector traditionally shaped by ceramics and composites, its presence feels almost like a soft disruption — a new material language entering the domestic landscape with confidence and grace. Born from a sculptural intuition, Fòra reveals a form that is both essential and generous. Its silhouette is fluid, almost carved by water itself, yet it carries the reassuring solidity of a monolithic object. The choice of rotational moulding is not merely technical; it is conceptual. Through this process, the basin acquires a seamless body, a continuous skin without joints or tensions, capable of embracing curves and volumes that conventional manufacturing would resist. The result is a piece that feels both light and robust, tactile and architectural.

www.lineabeta.net







> *Its contours flow with a natural softness, as though shaped by water itself, while retaining the grounded presence of a single, unified volume.*



> *The rotational process grants the basin a continuous, seamless surface free from joints or stress points, enabling curves and proportions that conventional methods would struggle to achieve.*

Rotomoulded Barriers for Modern Football

These barriers support the broader evolution of football culture, where accessibility and inclusivity are key. They enable the creation of compact, modular pitches suitable for youth training, urban recreation or temporary installations, transforming underused spaces into active zones for play and community engagement.

In this way, rotationally moulded polyethylene becomes more than a technical material—it represents a thoughtful approach to design that balances innovation, safety and environmental awareness, shaping the future of how football is experienced and enjoyed.

Safe Polyethylene Boundaries for the Pitch

The use of rotational moulding allows each section to be produced as a seamless, monolithic piece, free from joints or sharp edges. This not only enhances safety but also simplifies maintenance, as the barriers resist corrosion, moisture and UV degradation. Their lightweight nature makes installation and repositioning remarkably efficient, enabling quick configuration changes for different pitch sizes or event formats. Despite their ease of handling, the material retains exceptional strength and stability, capable of withstanding repeated impacts and outdoor exposure over time.

From an aesthetic perspective, polyethylene barriers bring a clean, contemporary look to sports grounds. Their smooth surfaces and vibrant colours integrate harmoniously with synthetic turf and surrounding architecture, creating a cohesive visual identity that reflects the professionalism of modern sports environments. Moreover, the recyclability of polyethylene aligns with the growing emphasis on sustainable design, allowing facilities to reduce environmental impact without compromising performance.



Modular Barriers

Perimeter elements for soccer fields

production Plastinor, Norway

In the evolving landscape of sports infrastructure, rotationally moulded polyethylene barriers have become a defining element in the design of modern football pitches. Their introduction marks a significant step forward in safety, durability and adaptability, offering a solution that meets the demands of both professional and community-level facilities. Unlike traditional metal or wooden structures, these barriers combine structural integrity with a soft, impact-absorbing surface, ensuring that players—particularly younger ones—can train and compete in a secure environment. The use of rotational moulding allows each section to be produced as a seamless, monolithic piece, free from joints or sharp edges. This not only enhances safety but also simplifies maintenance, as the barriers resist corrosion, moisture and UV degradation. Their lightweight nature makes installation and repositioning remarkably efficient, enabling quick configuration changes for different pitch sizes or event formats. Despite their ease of handling, the material retains exceptional strength and stability, capable of withstanding repeated impacts and outdoor exposure over time.

www.plastinor.no





> *The use of rotational moulding allows each section to be produced as a seamless, monolithic piece, free from joints or sharp edges.*



> *Their lightweight nature makes installation and repositioning remarkably efficient, enabling quick configuration changes for different pitch sizes or event formats.*



> *The rotomolded modular elements are easily transportable with a relatively small footprint.*

A New Vision for Adaptive Winter Mobility

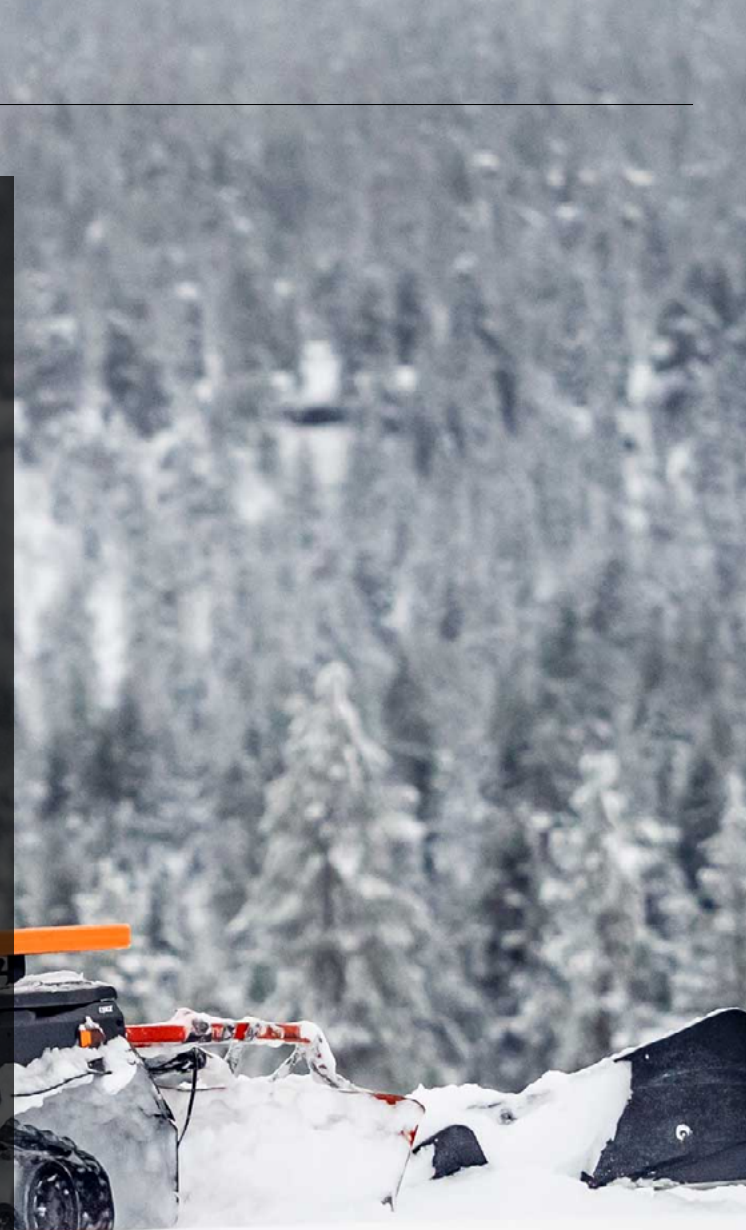
The evolution of snowmobiles has transformed these machines from simple winter transports into highly specialised vehicles capable of delivering remarkable performance across a wide range of conditions. Over the years, manufacturers have refined every aspect of their design, from chassis geometry to engine efficiency, creating snowmobiles that respond with precision to the demands of both recreational riders and professional operators. What was once a niche vehicle for navigating snowy terrain has become a sophisticated tool engineered to combine power, stability and adaptability.

This progression is driven by the growing expectation that a snowmobile should do far more than travel across snow. Modern models are conceived as platforms that can be configured for different purposes, whether that means supporting utility work, long-distance touring or technical riding in deep powder. At the same time, improvements in ergonomics and rider protection have made long days on the snow more comfortable and efficient.

Modularity as a Core Design Principle

A key element of this evolution is the increasing modularity of snowmobiles. Many contemporary models offer multiple configuration options that allow users to tailor the vehicle to their specific needs. Rear cargo platforms, interchangeable accessories and specialised equipment kits have become integral to the design philosophy. This adaptability is particularly evident in the development of rear-mounted storage solutions, which enable snowmobiles to carry tools, supplies or emergency gear without compromising balance or manoeuvrability.

Among the most effective of these solutions are rotomoulded containers, which have become a preferred choice for their durability and resilience. Produced through rotational moulding, these containers offer exceptional resistance to impact, cold temperatures and moisture, making them ideal for harsh winter environments. Their seamless construction ensures long-term reliability, while their shapes are designed to integrate naturally with the vehicle's rear compartment. This allows snowmobiles to shift effortlessly between different roles simply by changing the configuration of the cargo area.



69 Ranger Snowcruiser

production BRP, Canada

The Ranger 69 snowmobile produced by BRP stands as one of the most versatile and robust utility machines in the company's line-up, conceived for demanding winter environments where reliability, load capacity and functional design are essential. Its architecture reflects BRP's long experience in developing vehicles capable of operating in deep snow, low temperatures and remote conditions, combining a powerful drivetrain with a chassis engineered for stability and traction. The Ranger 69 is designed not only as a means of transport but as a practical working companion, able to support professional activities ranging from forestry and rescue operations to maintenance tasks in isolated areas.

The integration between the snowmobile's structure and the moulded containers is carefully considered. Their shapes follow the lines of the rear platform, ensuring secure attachment and optimal weight distribution. This compatibility allows operators to switch between different container types depending on the mission, whether they require a compact box for essential equipment or a larger compartment for bulky loads. The containers' polyethylene construction also offers excellent resistance to moisture, UV exposure and low temperatures, ensuring that they maintain their mechanical properties throughout the winter season.

www.brp-world.com





> *In use, the Ranger 69 demonstrates how a snowmobile can evolve into a multifunctional vehicle capable of supporting complex tasks.*



> *The polyethylene shell not only defines the vehicle's visual identity but also contributes to its long-term resilience, resisting weathering, impacts and daily wear.*



> *The moulded containers enhance this capability by offering secure, weather-proof storage that does not compromise manoeuvrability.*

Hybrid Design for Modern Childhood

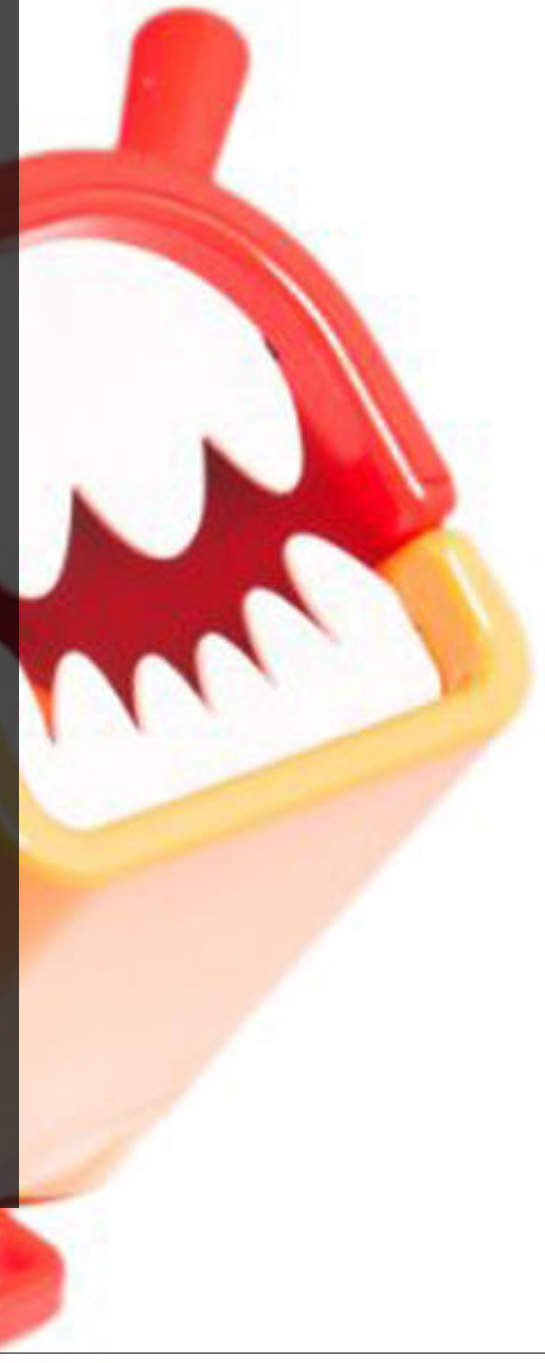
The market for children's products is undergoing a notable shift, driven by a growing appetite for objects that blend playfulness with genuine everyday utility. Families increasingly seek items that can accompany children through different moments of the day, serving not only as sources of entertainment but also as functional tools that help organise, store or support daily routines. This evolution reflects a broader cultural change in which design for children is no longer confined to bright colours and simple shapes, but embraces versatility, emotional engagement and long-term usability.

Within this context, rotational moulding has emerged as a key manufacturing process capable of giving form to this new generation of hybrid products. Its ability to produce seamless, hollow volumes with generous curves and expressive geometries allows designers to explore shapes that feel both imaginative and practical. The technique supports the creation of monolithic bodies free from joints or sharp edges, making objects safe to handle while offering the structural strength required for everyday use.

Rotomoulding Shapes New Children's Objects

Rotational moulding also enables a distinctive aesthetic language. The smooth surfaces, rounded silhouettes and bold proportions achievable through this process give children's objects a recognisable identity, one that stands out in a crowded market. These forms often evoke characters, creatures or abstract shapes that stimulate imagination, while simultaneously functioning as containers, seats, organisers or portable companions. The result is a new typology of children's products that blur the boundaries between toy and tool, encouraging interaction while supporting everyday habits.

As this trend continues to grow, the role of rotational moulding becomes increasingly central. It offers designers the freedom to interpret complex ideas through accessible forms, and provides manufacturers with a reliable method for producing durable, safe and visually engaging objects. In doing so, it helps define a contemporary approach to children's design—one where creativity and functionality coexist, and where the objects that accompany childhood are as versatile and expressive as the lives they are part of.



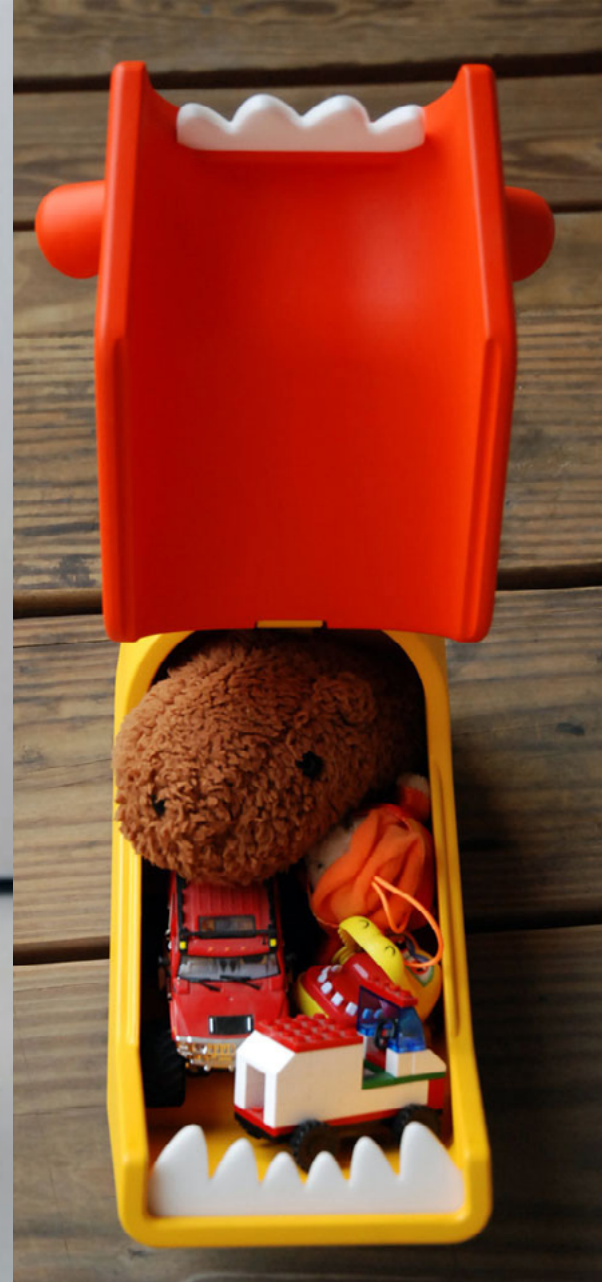
Toy Guardian Design Meets Play

designer Tzung-Yu Lu, Taiwan

Toy Guardian represents a playful yet intelligent approach to children's organisation, conceived as a multi-purpose container designed to store toys and everyday objects in a way that feels both functional and imaginative. Its form is immediately engaging: a sculptural body that evokes the silhouette of a friendly creature, with rounded contours and a bold combination of colours that invite interaction. The design transforms tidying up into a moment of play, encouraging children to participate in the care of their own environment. The body of Toy Guardian is produced through rotational moulding, a process that allows the creation of seamless, hollow structures with exceptional strength and durability. This technique gives the container its smooth, continuous surface and generous volume, free from joints or sharp edges, making it perfectly safe for children to handle. The material—polyethylene—offers resistance to impact and wear, ensuring that the object can withstand daily use while maintaining its vivid appearance over time.

www.idsa.org





> *Beyond its technical qualities, Toy Guardian embodies a philosophy of design that merges utility with emotional value.*



> *It is not merely a storage unit but a companion within the child's space, capable of transforming routine organisation into a creative gesture.*

From Cast Iron to Rotomoulded Innovation

Public drinking fountains have long been a familiar presence in streets, parks and civic spaces, traditionally defined by the weight and permanence of cast iron and other metals. Their aesthetic has been shaped for decades by a language of solidity and ornamentation, reflecting an era in which durability was expressed through mass and material heft. Today, however, these objects are undergoing a quiet but significant transformation. Advances in manufacturing and the introduction of new materials are opening the way for a contemporary reinterpretation of the drinking fountain, one that aligns with modern expectations of accessibility, sustainability and visual clarity.

Rotational moulding plays a central role in this evolution. By allowing designers to create seamless, hollow forms with generous curves and continuous surfaces, it offers a freedom that traditional metal casting cannot easily match. The technology makes it possible to produce fountains with softer silhouettes, lighter bodies and more expressive geometries, while maintaining the robustness required for public use.

A New Aesthetic for Public Drinking Fountains

The evolution of public drinking fountains reflects broader changes in urban design. As cities prioritise inclusivity, sustainability and the creation of welcoming public spaces, these everyday objects become opportunities for innovation rather than relics of past infrastructure. Through new technologies and materials, designers can reinterpret a familiar typology, giving it renewed relevance and expressive potential.

The shift in materials also changes the relationship between the fountain and its surroundings. Where cast iron once imposed a sense of permanence, plastic allows for a more fluid integration into diverse urban contexts. The lighter weight of rotationally moulded components simplifies installation and maintenance, enabling municipalities to adopt solutions that are not only visually updated but also economically and logistically efficient. The resulting designs often favour clarity over ornament, accessibility over monumentality, and environmental responsibility over traditional symbolism.



Play **Urban fountain**

production Escofet, Spain

design Serra & delaRocha, Spain

Play, the drinking fountain designed and produced by Escofet, embodies a refined synthesis of functional clarity and sculptural presence within the public realm. Conceived as an accessible element for urban environments, it is distinguished by a gentle, funnel-like geometry that guides water with an intuitive, almost effortless logic. Its softened contours and absence of superfluous detail give the piece a calm, contemporary character, allowing it to integrate naturally into a wide variety of architectural and landscape settings. The form is welcoming and legible, ensuring ease of use for all, including wheelchair users, while maintaining a strong visual identity.

A defining aspect of Play is its manufacturing process. The fountain's outer shell is produced through rotational moulding in high-density polyethylene. This method allows the characteristic funnel shape to be realised as a single continuous piece, free from joints and sharp transitions, ensuring both structural integrity and a tactile, micro-textured surface. Rotational moulding also makes the fountain unusually lightweight compared with traditional models in steel or cast iron, simplifying transport, installation and eventual disassembly at the end of its life cycle.

www.escofet.com





> *The water outlet is crafted in stainless steel, while the timed push-button mechanism ensures controlled flow and straightforward maintenance.*



> *Every aspect of the design reflects a careful consideration of the product's entire lifespan, from installation to daily use and eventual recycling.*



> *A concrete base anchors the fountain securely to the ground, housing the water connection and drainage system in a compact, easily accessible chamber.*

Design Identity in Modern Pet Beds

The evolution of pet beds is particularly emblematic. Traditional models, often bulky or visually intrusive, have given way to structures that *express a clear design identity*. Some adopt architectural geometries, transforming the pet's resting place into a small pavilion or alcove that echoes the lines of modern furniture. Others explore organic shapes and soft volumes that evoke a sense of calm and protection while maintaining a refined aesthetic presence. *Materials play a decisive role*: wood, felt, technical fabrics and innovative polymers are chosen not only for durability and hygiene but also for their ability to convey warmth, elegance or contemporary minimalism.

This new generation of accessories also reflects advances in manufacturing technologies. Rotational moulding allow designers to create fluid, seamless forms that were previously impossible. These processes support the development of *hybrid objects that combine structural stability with tactile comfort*, ensuring that the pet's experience is as carefully considered as the visual impact of the product. The result is a category of items that stand confidently within the home, possessing their own recognisable character while remaining sensitive to the broader aesthetic context.

Pet Accessories as Part of Interior Design

The evolution of accessories for dogs and cats has become a telling expression of how domestic life is changing, with pet-related objects increasingly conceived as *integral elements of interior design rather than mere functional necessities*. As homes have grown more curated and personalised, the items dedicated to companion animals have followed the same trajectory, adopting the language, materials and aesthetic sensibilities traditionally reserved for furniture and décor.

This shift reflects a deeper cultural transformation in the relationship between people and their pets. Dogs and cats are no longer considered external presences accommodated at the margins of domestic environments; they are fully integrated members of the household, and the objects designed for them must align with the same standards of comfort, beauty and coherence applied to human furnishings. Designers have responded by developing beds, shelters and resting spaces that blend seamlessly with contemporary interiors, using warm textures, sculptural forms and carefully selected colours to ensure that these pieces enhance rather than disrupt the domestic landscape.



Pancuccia

Seat with kennel for dogs and cats

producer: United Pets, Italy
design Roberto Rago, Alessandro Gorla,
Italy

Pancuccia, produced by United Pets, is a playful yet carefully engineered object that brings together comfort, versatility and a distinctive design language. Conceived as both a seat and a pet bed, it reflects a contemporary approach to domestic products in which functionality and emotional appeal coexist. Its rounded, enveloping form creates a gentle presence within the home, inviting interaction from humans and animals alike. The geometry is deliberately soft and continuous, allowing the object to serve as a stable perch when used as a stool, while offering a sheltered, reassuring space when turned into a cosy resting spot for pets. The shell of Pancuccia is manufactured through rotational moulding and the technology is essential to the product's identity: it allows the characteristic monolithic shape to be produced without joints or sharp transitions, ensuring durability and safety in everyday use. Polyethylene, the material employed, provides resistance to impact, moisture and wear, making Pancuccia suitable for both indoor and outdoor environments. Its lightweight nature also makes the object easy to move, reposition and clean, supporting the dynamic rhythms of contemporary living.

www.unitedpets.com





> *Beyond its technical qualities, Pancuccia stands out for the way it interprets the relationship between humans and their pets.*



> *Rather than separating the functions of seating and resting, it merges them into a single expressive form that adapts to different moments of domestic life.*



> *The design communicates friendliness and simplicity, with proportions that feel approachable and a silhouette that is instantly recognisable.*

Cargo Bikes as Catalysts of Urban Innovation

The growing relevance of these mobility solutions reflects a broader cultural and infrastructural shift. Cities are increasingly investing in cycling networks, low-emission zones and policies that encourage active and electric transport. Businesses, in turn, are recognising the operational advantages of vehicles that can navigate crowded streets with ease, reduce operating costs and present a more sustainable brand image. For individuals, the appeal lies in the ability to move freely and efficiently while contributing to a cleaner urban environment.

As urban mobility continues to evolve, the role of innovative vehicles like Ouca Bikes is set to expand further. They embody a future in which transport is not only functional but also aligned with the values of sustainability, wellbeing and intelligent urban design. Their rise signals a decisive step towards cities that are more liveable, more resilient and more responsive to the needs of the people who inhabit them.

A New Era for Sustainable Urban Transport

Urban mobility is undergoing a profound transformation as cities seek solutions that are cleaner, more efficient and better suited to contemporary patterns of movement. Traditional transport models, long dominated by private cars and conventional commercial vehicles, are increasingly giving way to approaches that prioritise sustainability, spatial efficiency and adaptability. This shift is driven both by environmental imperatives and by the practical need to manage dense urban environments where congestion, noise and emissions have become pressing concerns.

Within this evolving landscape, new forms of mobility are emerging as credible and often superior alternatives to established modes. Electrified cargo bikes represent one of the most significant developments, offering a blend of agility, capacity and environmental responsibility that aligns closely with the demands of modern cities. logistics, maintenance services, family transport and recreational use. The combination of high-performance components, generous cargo volume and flexible configurations demonstrates how such vehicles can replace or complement vans and cars in many urban scenarios.



Ouca Bikes

Urban Cargo

production Ouca Bikes, Finland

Ouca Bikes represents a new chapter in the evolution of cargo mobility, redefining what a pedal-powered vehicle can be in both professional and everyday contexts. Designed and assembled in Finland, the vehicle combines the stability and carrying capacity of a small utility transport with the agility and ease of use of a bicycle. Its most distinctive feature is the polyethylene shell, produced through rotational moulding, which gives Ouca its characteristic monolithic form.

The result is a vehicle that feels robust yet approachable, engineered for intensive use without compromising comfort or aesthetics. The versatility of Ouca Bikes is central to their identity. The spacious cargo box, with a volume of 570 litres, can be configured for a wide range of professional applications, from delivery and courier services to technical maintenance and promotional activities. Its generous dimensions and optional divider allow users to organise tools, parcels or equipment efficiently, while the optional cover protects contents from weather. For companies that require additional capacity, the rear rack can be equipped with a supplementary box, expanding the vehicle's functionality without affecting manoeuvrability.

www.oucabikes.com





> *With the optional seating module, the cargo area becomes a comfortable space capable of carrying adults or children, making the vehicle suitable for family transport.*



> *The polyethylene shell not only defines the vehicle's visual identity but also contributes to its long-term resilience, resisting weathering, impacts and daily wear.*



> *The rotationally moulded shell is more than a technical feature; it's the key element of a vehicle that is recognisable, adaptable and built to support the dynamic rhythms of contemporary transport.*



> *Combined with advanced motor technology, automatic gears and thoughtful ergonomics, Ouka offers an experience that feels effortless and intuitive, whether used for work or leisure.*

Design Possibilities Expanded by Plastics

Rotational moulding has emerged as a technology with remarkable potential to produce domestic complements and accessories. Its ability to produce monolithic, hollow structures with smooth transitions encourages experimentation with sculptural shapes and functional integration.

Through this process, accessories can become more ergonomic, more visually distinctive and more versatile, while maintaining the robustness required for everyday use. The technology invites a fresh aesthetic language—one that is fluid, generous and quietly sophisticated—demonstrating how industrial innovation can enrich the domestic landscape with objects that are both practical and emotionally resonant.

A New Role for Home Accessories

Interior accessories are increasingly recognised as meaningful elements within the home, shaping not only how spaces function but also how they are perceived and lived in. As domestic environments become more curated and expressive, these objects take on a role that goes beyond mere utility, contributing to atmosphere, identity and comfort. Their presence influences the rhythm of everyday life, offering small but significant gestures of order, convenience and aesthetic coherence.

The introduction of plastics into this field has expanded the designer's vocabulary, allowing forms that were previously difficult or uneconomical to achieve. Plastics make it possible to explore generous volumes, seamless surfaces and expressive geometries, opening the door to products that feel both contemporary and approachable. Their lightness, durability and adaptability support new interpretations of familiar objects, enabling designers to rethink proportions, colours and tactile qualities with greater freedom.



Bobo **Coat stand**

production Servetto, Italy
design: Ballabio - Elli, Italy

Bobo, produced by Servetto, is a contemporary bedroom accessory that reinterprets the traditional coat stand through a language of simplicity and precision. Its sculptural silhouette, defined by a continuous line that rises from a stable base to a generous handle-like top, conveys both elegance and ease of use. The piece stands as a discreet presence within the domestic space, offering functionality without visual clutter. Manufactured through rotational moulding, Bobo achieves a seamless, monolithic form that combines strength with refined tactility. The process allows for soft transitions and a uniform surface, enhancing the object's visual purity and durability. In its sage-green finish, Bobo expresses a calm, modern sensibility—an everyday object elevated by design discipline and material innovation.

www.servettocose.com







> *The use of rotational moulding in polyethylene gives Bobo its distinctive seamlessness and tactile appeal.*



> *In its sage-green hue, Bobo conveys serenity and modernity, standing as a testament to how industrial processes can yield objects of poetic clarity and everyday elegance.*

Hybrid Objects for Public Spaces

The move towards multifunctional urban furnishings reflects a deeper cultural shift in how cities are imagined and experienced. Public space is no longer treated as a sequence of fixed, single-purpose elements, but as a flexible environment that can support a wide range of activities with minimal visual intrusion. As a result, designers are rethinking familiar objects and discovering new ways to layer functions within forms that remain clear, robust and easy to understand.

This evolution is evident in lighting structures that double as seating, transforming a purely infrastructural component into a small place of rest. Such hybrids encourage people to pause, observe and inhabit the city more fully, turning illumination into an opportunity for comfort. Benches, too, are being redesigned to incorporate tables or work surfaces, acknowledging that contemporary public life often involves reading, eating, working on a laptop or simply sharing a moment with others. These integrated solutions create micro-spaces that feel welcoming and purposeful without requiring additional installations.

Multifunctionality Reshaping Urban Furniture

Urban furniture is evolving towards a more versatile and adaptive character, reflecting the changing needs of contemporary public spaces. What were once single-purpose elements are now conceived as multifunctional objects capable of supporting different behaviours throughout the day. This shift stems from a broader understanding of public environments as dynamic settings where people pause, work, socialise and move in fluid, overlapping ways. Designers and municipalities increasingly recognise that infrastructure can do more than fulfil a basic function; it can enrich the experience of the city.

This tendency is visible in products that merge lighting with seating, transforming lamp posts into comfortable resting points that invite people to linger rather than simply pass through. Similarly, benches are being reimaged to incorporate tables, creating small islands of usability where individuals can read, eat, work or meet. These hybrid solutions respond to the desire for more flexible and human-centred spaces, offering comfort and practicality without compromising the clarity of the urban landscape.

Cranberry **Urban lamps and seats**

production Keha3, Estonia
design Margus Triibmann

The Cranberry chair-luminaire is a street furniture element which has the possibility to add an internal lighting. It is suitable for both indoor and outdoor usage. The materials and technologies used make it ideal for public spaces where vandal resistancy is a concern. Cranberry can be mounted directly to a foundation surface or alternatively on a rotational mount. The mount will enable the chair to rotate 360 degrees. Illumination is provided by internal LED lamps or floodlighting installed into the foundation. The chair can also be equipped with a drainage system to avoid puddles from wash and rain water forming in the seating area.

The chair can be mounted on a hard surface or installed with threaded anchors and bolts onto a foundation. When installed on slide bearings, an independent intrasoil light source lights the rotating chair. When used as a terrace light, the cable connected to the light source is built in to the casing of the chair. The non-illuminated, non-drainage version, can be filled with sand or gravel in order to prevent displacement. Cranberry in darker colors (gray, black, etc.) cannot be ordered with an internal light.

www.keha3.ee





> *Conceived as both a chair and a luminaire, it introduces a hybrid typology that enriches public spaces with an object that is at once functional, durable and quietly expressive.*



> *Its rounded, berry-like form gives it a gentle visual identity, while the robust polyethylene body ensures resilience in environments where weather must be taken into account.*



> It can be installed as a fixed seat or mounted on a rotational base that allows a full 360-degree movement, transforming the act of sitting into a small interactive gesture.



credits

Bubble Beehive, *Italy*
Lineabeta, *Italy*
Plastinor, *Norway*
Tzung-Yu Lu, *Taiwan*
Escofet, *Spain*
BRP, *Canada*
United Pets, *Italy*
Ouca Bikes, *Finland*
Servetto, *Italy*
Keha3, *Estonia*

Cover Pictures
courtesy Euro3Plast, *Italy*

Projects
Bahçeşehir 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