



PolyGlobal

• Engineering Excellence •



"Our mission is to manufacture market-leading moulded components and innovative engineering solutions that facilitate crucial applications in critical industries across the world."



With over 30 years of experience and expertise, PolyGlobal has grown rapidly to ensure it can meet the demands of its markets. It continues to supply a number of industries and companies across the world.

Whilst PolyGlobal specialises in engineered plastic products, its in-house tooling and mould manufacturing processes support a vast range of cast and injection moulded solutions.

The skills and knowledge of the engineering and technical teams, ensures constant customer support from material choice through to product distribution.

Engineering Excellence

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Tooling & Mould Manufacture

PolyGlobal carries an extensive library of over 13 000 cast and injection moulds. These have been tailored to PolyGlobal's manufacturing techniques and produce moulded solutions that are optimised for their application and operating environment.

The expertise of PolyGlobal's toolmakers, developed over 30 years of excellence in tool engineering, means they are continually producing new and bespoke moulds that facilitate the production of new and innovative solutions.

Dedicated to Engineering Excellence

Hand Finishing

To ensure a level of quality not available from other moulded solutions, PolyGlobal uses highly skilled engineers to turn bespoke profiles and hand finish components.

This skill set facilitates the manufacture of additional products, most notably within PolyGlobal's range of sealing solutions.

By closely controlling its quality systems and utilising the expertise of these finishing engineers, PolyGlobal can manufacture its solutions to tight tolerances and specifications.

PolyGlobal has invested continuously in both its software and machining infrastructure to ensure it remains responsive to the diverse markets it supplies, ensuring full service solutions from mould design and manufacture to component production and delivery. Manufacturing tools in-house ensures they are tailored to the moulding material, specified to the moulding process and customised to meet the demands of the production volume.





Injection Moulding

PolyGlobal's injection moulding division allows it to create a vast range of solutions from disposables to precision components. It's injection moulded components are used heavily across all industrial sectors due to the diversity of the base materials it offers, including Polyurethane, Nylon, Polypropylene, TPE and TPR, and the variety in size and shape that can be moulded.

Injection moulding is extremely versatile, reliable and efficient. During the moulding process, moulds are subjected to extremely high pressure, facilitating much more detailed and complex parts than other moulding and manufacturing processes are capable of.

Dedicated to Engineering Excellence

Cast Moulding

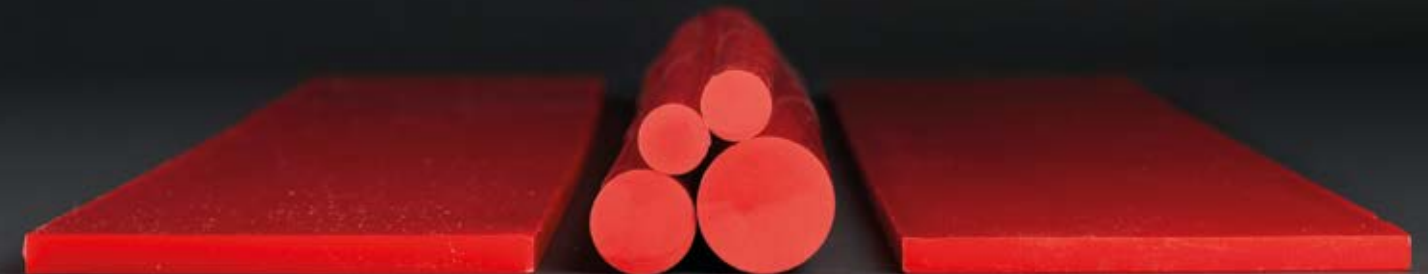
Coupled with the expertise of PolyGlobal's tooling and finishing engineers, its cast moulding division offers substantial manufacturing capabilities that facilitate bespoke mouldings at increasingly higher weight and size specifications.

The experience and capabilities of this PolyGlobal department has led to a flexible and responsive approach, providing efficient prototyping and cost effective solutions for low-medium volume production.

PolyGlobal's cast moulding offers enhanced levels of material bonding for integral industry applications such as roller and wheel coatings and continues to provide a critical service to the main industry sectors. It provides a range of material options that allows PolyGlobal to help identify the most suitable choice for the solution's operating environment, including ester based materials for heavy load bearing applications and ether based materials for water based environments.

'Material options include Polyurethane, Rubber, Nylon, Polypropylene, and TPE.'

'Manufacturing polyurethane rods, blocks and sheets in a range of shore hardness, colour and size.'



Market Sectors

As an experienced and innovative solution provider, PolyGlobal serves customers in the most critical industries across the world.

Agricultural

Working alongside OEMs, PolyGlobal has developed designs and specifications to minimise crop damage, increase yield and drive superior performance. PolyGlobal's solutions are integral in a diverse market sector, providing products to a range of plant equipment including graders, handlers and root crop machinery.

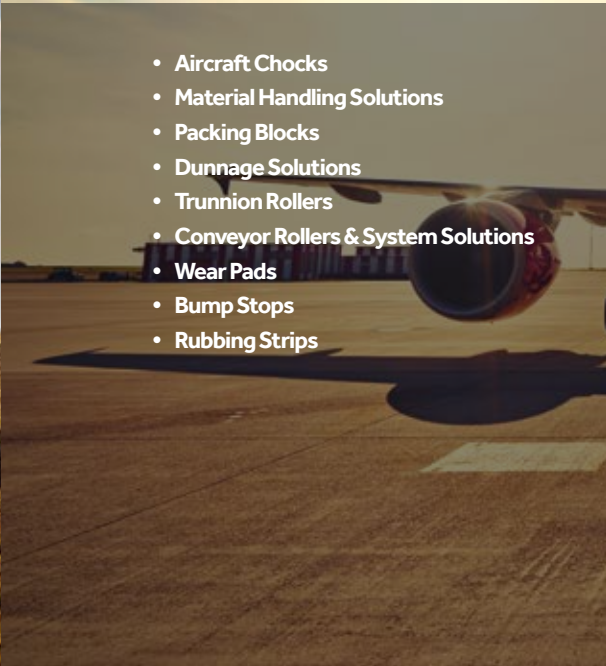
- Star Wheels
- Destoning Wheels
- Screening Wheels
- Harvesting Wheels
- Spacers, Discs & Rings
- Trommel Drive Wheels
- Drive Rollers
- Drive Shoes & Discs
- Scrapers
- Bushes, Buffers & Nozzles



Aerospace

PolyGlobal has provided baggage handling solutions to the leading airports in the world; working to facilitate and improve the flow of luggage that keeps our airports moving. Bespoke components, sheets and pads work to facilitate production systems and protect essential components and assemblies.

- Aircraft Chocks
- Material Handling Solutions
- Packing Blocks
- Dunnage Solutions
- Trunnion Rollers
- Conveyor Rollers & System Solutions
- Wear Pads
- Bump Stops
- Rubbing Strips



Construction

PolyGlobal supplies drilling, mining, excavating and general construction customers with a varied range of products that are utilised in the toughest of environments and require extreme levels of abrasion resistance. The demand of this market has dictated the need to produce components that can withstand extreme physical displacement but still maintain high levels of integrity and accuracy.

- Impact Bars
- Cable Pulleys
- Diaphragms, Seals & Bellows
- Blast Guns & Nozzles
- Non Return Valves
- Shock Absorbers & Buffers
- Mining Components & Riblocks
- Protection Covers & Wear Pads
- Snow Plough & Road Roller Scraper Blades
- Protection Sheets



Rail

Damping solutions are essential to reduce track vibrations and PolyGlobal works alongside a number of leading clients to deliver a smooth and safe transport system across the UK. Worldwide, PolyGlobal continues Britain's heritage for railway engineering by manufacturing components that are used on both new build projects and maintenance contracts.

- Motion & Insulation Caps
- Retaining & Wedge Blocks
- Torque Bungs & Shock Absorbers
- Material Handling Solutions
- Packing Blocks & Dunnage Solutions
- Rollers & Roller Coverings
- Scrapers
- Sealing Solutions
- Bespoke Moulded Components
- Rods, Tubes & Blocks



Offshore & Marine

PolyGlobal's products are utilised across the world in both subsea and seabed applications. Fundamentally, PolyGlobal provides protection and handling solutions for pipes and cables to prevent damage from flex fatigue, abrasion and impact. Onshore rollers and pipe handling products are also provided by PolyGlobal.

- Bend Restrictors
- Bend Stiffeners
- Cones, Jointing Pieces & Sleeves
- Bumpers, Shock Absorbers & Dock Gate Stops
- Pipe Clamps & Piggy Back Clamps
- Bullnose Coverings
- Chafe & Flange Protectors
- Material & Pipe Handling Solutions
- Rollers, Diablo Rollers, Sheave Wheel Coatings & Roller Coverings
- Scrapers

Automotive

The bespoke tooling, intricate moulding and closely controlled quality systems provided by PolyGlobal means it supplies a number of leading automotive companies with operational parts and factory-floor protection and handling solutions. Working alongside renowned distributors, PolyGlobal manufactures aftermarket parts and replacements such as shock absorbers and buffers.

- Shock Absorbing Bushes
- Snubbing Discs
- Damping Blocks
- Anti-Roll Bar & Mounting Bushes
- Wear Pads, Bump Stops & Rubbing Strips
- Exhaust Couplings
- Material Handling Solutions
- Dunnage Solutions
- Bellows & Sealing Solutions
- Bespoke Moulded Components

Manufacturing

The vast and diverse manufacturing sector uses products from a range of solution groups. PolyGlobal's responsive lead times, for both seal and component production, are essential to ensure downtime is minimised. Flexible solutions are required to meet the varied operating environments and conditions that this sector produces, including FDA (food safe), oil or chemical resistance and enhanced load bearing materials.

- Soft Touch & Non Crush Wheels
- Ball Valves
- Feed Wheels & Rollers
- Material Handling Solutions
- Packing Blocks & Dunnage Solutions
- Hydraulic & Pneumatic Seals
- Plunger & Ram Seals
- Rollers & Roller Coverings
- Scrapers
- Rods, Tubes & Blocks

Renewables

The global demand for renewable energy supplies continues to grow with fast paced technological developments helping to provide more efficient and effective results. The substantial investment in R&D within this field has necessitated PolyGlobal's development of antistatic and flame retardant material options that provide protection, damping and sealing solutions.

- Pole Covers
- Anti-vibration Buffers
- Bushes
- Washers & Drive Shaft Pads
- Material Handling Solutions
- Packing Blocks
- Metal Bonding & Coatings
- Sealing Solutions
- Internal Rollers

Sealing Solutions

'PolyGlobal's sealing solutions are industry recognised from over 30 years of engineering excellence and expertise.'

Bespoke profile and material options that are tailored to the application; accelerating performance and maximising reliability.

Food grade, antistatic and flame retardant sealing products; providing solutions for all environments.

Enhanced manufacturing capabilities; solutions from 5mm to 2100mm.



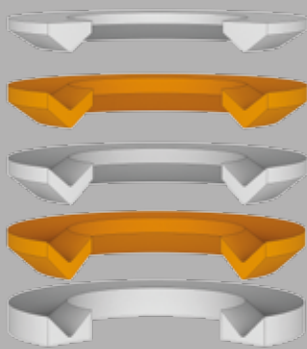
PolyGlobal's seals are an essential industry solution protecting integral machinery and equipment across the world's most critical sectors. Offering a range of profiles and sealing specifications including energised, twinset and cup seals, products for rod & piston applications and a selection of wiper options, PolyGlobal's specialist engineering division provides bespoke and standard seals from new and existing designs.

Whilst operating in environments of extreme temperature or pressure, PolyGlobal's hydraulic seals, scrapers and wipers work to inhibit leakage of fluid from the cylinder, prevent fluid flow across the cylinder head, and protect the cylinder from contamination of dirt and moisture. Its pneumatic solutions provide advanced performance in dynamic, air-powered applications where high speeds, as well as reciprocating and rotary motions are common.

PolyGlobal's materials have excellent wear and abrasion resistance due to their outstanding mechanical properties. They exhibit oil, chemical and hydraulic resistance to meet the demands of their working environments. The quality of these components is paramount to ensure that the reliability and lifespan of the products and technologies they are used in is maximised, downtime is minimised and performance is enhanced.

Vee Pack Sets

From profile development to seal production, PolyGlobal offers advanced capabilities for this specialised sealing solution. Manufactured with various ring configurations and specifications, these solutions provide rod or piston sealing in medium to heavy duty applications.





Cord, Tube & Conveyor Belting

'PolyGlobal's solutions play an integral role on production lines and transport systems across the world.'

Baggage Handling

play an integral
and transport
role.'

Rollers, Wheels & Coatings

oil and water-based environments. By providing a full range of shore hardness' and offering shot blasting, bonding, and machining, PolyGlobal offers a full service roller solution.

Star Wheels

applications such as aggregate screening. PolyGlobal's star wheels continue to lead performance.

Scrapers

blades. Beyond these markets, they are used extensively by manufacturers on production lines to clean conveyor belts and maintain efficient operation.

Nozzles

applications through its in-house tooling and engineering department. PolyGlobal supplies an extensive moulding bag range for SIMAC isostatic presses.

Damping Solutions

PolyGlobal's damping solutions are utilised to dissipate energy and provide numerous operational benefits. Working extensively across all critical industries, PolyGlobal's solutions improve comfort, reduce noise and increase the safety and longevity of their parent products.



Protection Solutions

PolyGlobal's range of materials and capabilities offer full service solutions by tailoring designs to the specific environment and application of the product. Its protection solutions shield and secure important products and components, avoiding damage, increasing longevity and minimising costs.



Bushes

PolyGlobal is an essential supplier to the automotive industry, manufacturing suspension bushes that provide market-leading performance and unrivalled durability. PolyGlobal's bushes offer a damping solution that reduces noise, ensures ride quality and improves vehicular handling.

The flexibility in moulding material allows bushes to be supplied in a range of hardness's that are tailored to the vehicle and the operating requirements. Polyurethane bushes offer enhanced durability due to the characteristics of the material, and outperform more traditional options by ensuring extremely high levels of abrasion resistance.

Buffers

As a world-leading buffer supplier, PolyGlobal offers a library of existing buffer solutions. PolyGlobal's buffer materials provide excellent resistance to solvents, oils, and chemicals, and remain elastic and resistant to fracture in a greater range of specifications than traditional buffer options. These characteristics are ideal for buffers that need to resist high impact or repeated impingement.

PolyGlobal offers specialist material and additive options including flame retardant, antistatic and FDA specifications. These facilitate additional applications in the renewable, offshore and manufacturing industries.

Shock Absorbers

PolyGlobal's components play an integral role in the construction industry as drilling and mining shock absorbers. These dampen substantial and consistent vibrations produced during the drilling process, preventing mechanical failure and maximising performance.

The characteristics and dynamic properties of rubber and polyurethane shock absorbers, coupled with high load bearing capacities, provide excellent performance results. Vibrations are absorbed and the energy dissipated as insignificant heat changes. In the rail industry, PolyGlobal's shock absorbing solutions work to improve comfort, reduce noise and increase safety by absorbing track vibrations. Also supplied to a number of other critical sectors, these solutions provide excellent durability and enhance the lifetime of the parent machines.

Dunnage

PolyGlobal provides dunnage systems to manufacturing and automotive production lines across the world, by working with its customers to develop effective, bespoke solutions that provide optimised results.

PolyGlobal's dunnage and material handling solutions are utilised to secure and protect parts and assemblies during the manufacturing or delivery process. As a non-marking material, polyurethane dunnage offers cost effective protection for painted and non-painted assemblies and is especially effective in extreme wear environments where heavy loading or impacts occur over a significant period.

Bonding & Encapsulated Products

In a number of protection applications, including roller and clamp coatings, engineering plastics are bonded to metal components to provide an enhanced solution. Utilised extensively by manufacturers and automotive production lines, bonded solutions prevent direct metal contact and can be tailored to the specifics of the operating environment resulting in more effective and durable solutions.

The flexibility in specification of the coated or bonded material ensures optimised performance and protection of both the bonded component and operating parts. Direct bonding during the moulding process provides durable and cost effective products which are able to operate in dynamic and extreme applications.

Ramps, Clamps & Pipe Protection

PolyGlobal provides a number of clamping solutions including piggy back and cable clamps. These clamping solutions are utilised both on and offshore, and installed above and below the water line, to group, secure and protect pipe and cable lines across the world. Within the offshore industry, PolyGlobal's bend restrictors and stiffeners are utilised along with clamping products to provide essential protection of critical flowlines.

As a maintenance and utilities solution, PolyGlobal manufactures Hose Ramps to protect and support pipe and hose lines. These can be manufactured to bespoke specifications using PolyGlobal's engineering department.

'PolyGlobal's solutions improve comfort, reduce noise and increase the safety and longevity of their parent products.'

Environmental Policy

At PolyGlobal our commitment to responsible environmental action is one of our main company priorities. We continually strive to improve our performance in all our environmental operations and activities, and where possible we have worked with our business partners to achieve this goal. Our primary considerations in this respect are:

- Energy usage
- Waste reduction
- Raw material

Our practises and policies to address these considerations:

- We adopt the highest environmental and Health & Safety practises across the company to reduce risks and hazards for employees, visitors and customers.
- We optimise our operations so that we work efficiently with raw materials and energy.
- We include environmental and ethical considerations when discussing and comparing all capital investment decisions .
- We develop solutions to any potential direct and significant environmental problem.
- We develop guidelines and train our employees in codes of practice that encourage successful implementation of these policies.
- We continually monitor all programmes to ensure they remain in line with existing legislation and are cost-effective and role specific.
- We expect similar environmental standards from our suppliers and contractors.

Materials & Energy Usage

Our experience, design software and production technology allows us to optimise raw material usage. Where possible, we take additional steps to ensure we are working responsibly:

- Our waste material is reused where possible.
- Any waste material that is not able to be reused is recycled.
- Packaging materials are reused.
- Any remaining waste material is recycled.

Non production material and office waste is again minimised and recycled.



We have always had an inherent focus on quality, not only in the finished product but in selecting our raw materials and throughout the production process. All PolyGlobal employees, across all management and operating levels and departments, share in this responsibility. We therefore commit ourselves to exceed the expectations of our customers in the quality of our products.

Our policies ensure that the training of our employees remains dynamic and at the forefront of our market. The expertise of our staff ensures strict quality standards are met in all aspects of our work and our experience allows us to develop product design so that it facilitates successful and consistent production.

Our commitment to quality is exemplified through our BS EN ISO 9001:2008 certification.



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