

Rubber and Plastic Products Specification Sheet

Custom moulded rubber and plastic parts with in-house mould design and manufacture.

Nine moulded product capabilities backed by an in-house mould workshop, a structural design team, a machining workshop and a coating workshop. That combination covers rubber moulds and O-ring moulds, SBR and FKM moulded products, rubber rollers in four covering materials, bonded rubber-to-metal suspension bushes, injection and blow moulded plastic parts, and a silicone consumer product.

9 products in this category. Every figure below is published on the product pages at trueglowimaging.com/categories/rubber-products.html

Silicone Hot Water Bag

Silicone Hot Water Bag · Qualified products

A silicone hot water bag measuring 13.8 cm x 10 cm x 3.5 cm with a 300 ml capacity, made from silica gel with ABS and PA components and supplied with a woollen cover. Two types are available: a standard bag for general warmth and a therapeutic version designed for targeted pain relief. The design is leak-proof and built to withstand regular use.

Specification

Product Name	Silicone hot water bag
Dimensions	13.8 cm x 10 cm x 3.5 cm
Capacity	300 ml
Materials	Silica gel, ABS, PA, with woollen cover
Types	Standard; therapeutic
Grade	Qualified products
Safety	Leak-proof design

Key benefits

Leak-Proof Design. A hot water bag that leaks is a burn risk, not an inconvenience. The leak-proof construction is the single specification that matters most in this product.

300 ml in a Pocket Size. At 13.8 x 10 x 3.5 cm the bag holds enough water to stay warm while remaining small enough to sit against a specific area rather than across the whole body.

Woollen Cover Included. The cover moderates the surface temperature so the bag can be held against skin directly, which is what a therapeutic product needs.

Two Versions for Two Uses. A standard bag for general warmth and a therapeutic version for targeted pain relief, so the retail range covers both buyers.

Where it is used

Muscle ache and joint pain relief • Menstrual cramp relief • Warmth on cold nights or in chilly environments • Relaxation and stress relief • Retail and gift packaging • Wholesale supply to pharmacy and lifestyle retailers

SBR Rubber Products

SBR Rubber Products · Styrene butadiene rubber

Rubber products moulded from SBR, including counterweight blocks supplied to American customers. An in-house structural design team designs the product structure and manufactures the mould independently, so a part can be developed from a requirement rather than from a finished drawing. SBR offers weather and abrasion resistance with a low water absorption rate, and it is non-toxic.

Specification

Material	SBR, styrene butadiene rubber
Products	All kinds of rubber products including counterweight blocks
Design	In-house structural design team
Tooling	Mould designed and manufactured independently
Abrasion Resistance	Superior resistance to wear and tear

Water Absorption	Low absorption rate
Safety	Non-toxic

Key benefits

Design and Mould Made In-House. Having the structural design team and the mould shop under one roof means one party is responsible from concept to first article. Most rubber part problems live in the gap between designer and mould maker.

Abrasion Resistance. SBR offers superior resistance to wear and tear, which is the property that decides service life on rollers, pads and wear components.

Low Water Absorption. A low water absorption rate means the part does not swell and lose dimension in wet service.

Cost-Effective Material. SBR gives adequate mechanical performance at a materially lower cost than speciality elastomers, which matters on bulk items like counterweight blocks.

Where it is used

Counterweight blocks for equipment • Wear pads and abrasion-resistant components • General industrial rubber mouldings • Products requiring weather resistance • Parts in wet service needing low water absorption • Custom rubber components developed from a requirement

Rubber Moulds

Rubber Mould · Compression and transfer

Rubber moulds designed and developed in an in-house mould manufacturing workshop with an experienced structural design engineer. Two mould types are made: compression moulds, suited to large parts with simpler designs, and transfer moulds, used for intricate designs and over-moulding. The moulds serve automotive seals and gaskets, medical flexible instruments and equipment parts, consumer goods including household items and toys, and construction seals, gaskets and insulation components.

Specification

Compression Moulds	Suitable for large parts with simpler designs
Transfer Moulds	Ideal for intricate designs and over-moulding applications
Automotive Use	Seals, gaskets and other components
Medical Use	Flexible instruments and equipment parts
Consumer Goods	Household items, toys and more
Construction Use	Seals, gaskets and insulation components
Capability	In-house mould workshop with structural design engineer
Scalability	Small and large-scale production

Key benefits

Compression or Transfer Chosen by the Part. Compression suits large, simple parts; transfer suits intricate geometry and over-moulding onto inserts. Choosing wrong means flash, short shots or an unmouldable part.

Design Engineer in the Same Workshop. An experienced structural design engineer working alongside the mould shop is what lets a part be designed for manufacture rather than corrected after the first tool.

Built for Repeated Production Cycles. Moulds are crafted to withstand repeated use without degrading, which is where the cost per part is actually decided over a tool's life.

Scales From Small to Large Runs. The same mould serves both small and large-scale production, which suits a product that starts small and grows.

Where it is used

Automotive seals, gaskets and other components • Medical flexible instruments and equipment parts • Consumer goods including household items and toys • Construction seals, gaskets and insulation components • Over-moulding rubber onto metal inserts • Prototype tooling before a production mould

Rubber Rollers

Rubber Rollers · EPDM, silicone, PU or SBR

Rubber rollers including printing rollers, paper rollers, paper feed rollers and twist rollers, covered in EPDM, silicone rubber, PU rubber or SBR. The covering material is the specification: it sets grip, chemical resistance and wear life against the substrate the roller touches. Conveyor rollers move products or raw materials, and coating rollers apply coatings or laminates to surfaces. Rollers are tailored to the industry requirement and designed to need minimal maintenance.

Specification

Roller Types	Printing, paper, paper feed, twist, conveyor, coating
Covering Materials	EPDM, silicone rubber, PU rubber, SBR
Conveyor Rollers	Used in conveyor systems to move products or raw materials
Coating Rollers	Used to apply coatings or laminates to various surfaces
Customisation	Tailored to specific industry needs
Maintenance	Designed to require minimal maintenance

Key benefits

Four Covering Materials. EPDM for water and chemicals, silicone for heat and release, PU for wear resistance, SBR for economy. The covering, not the core, is what fails first and what should drive the choice.

Built to the Machine. Rollers are tailored to specific industry needs rather than supplied as standard diameters, which matters when the roller has to fit existing bearings and drives.

Low Maintenance by Design. Rollers are designed to require minimal maintenance, which reduces downtime on machines where a roller change stops the whole line.

Covers Printing Feed and Conveying. Printing, paper feed, twist, conveyor and coating rollers all come from one supplier, which suits a plant with several roller-driven machines.

Where it is used

Printing press rollers • Paper handling and paper feed rollers • Twist rollers in web processing • Conveyor rollers moving products or raw materials • Coating rollers applying coatings or laminates • Replacing worn rollers in existing machinery

Custom Plastic Parts

Custom Plastic Parts • Injection moulded and extruded

Custom plastic parts made to your specification by injection moulding, extrusion and assembly. The service covers both intricate designs and large-scale components, with the part designed and produced to the dimensions and function you require rather than selected from a standard range. Any shape, size and design can be produced within the process limits.

Specification

Processes	Injection moulding, extrusion, assembly
Build Type	Custom to client specification
Geometry	Intricate designs and large-scale components
Versatility	Parts of a wide range of shapes, sizes and designs

Key benefits

Injection Moulding and Extrusion Together. Moulded parts and extruded profiles come from the same supplier, so an assembly combining both stays under one purchase order.

Any Shape Size and Design. The versatility of plastic processing is what makes geometry cheap, provided it is designed with draft, uniform wall and a sensible parting line.

Assembly Included. Parts are assembled as well as moulded, so what arrives is the sub-assembly rather than a box of components.

Made to Specification Not Catalogue. Each part is crafted to your exact specification, which is the entire point of custom moulding over off-the-shelf parts.

Where it is used

Injection moulded housings and enclosures • Extruded profiles and sections • Intricate small components in volume • Large-scale moulded components • Moulded sub-assemblies requiring assembly work • Replacing metal parts with moulded plastic

O-Ring Moulds

O-Ring Mould · Multi-cavity production tooling

O-ring moulds designed and manufactured in an in-house mould workshop that also produces a range of other moulds and tools. The mould is engineered so every O-ring produced is of uniform size and quality, built from materials that withstand high moulding temperatures without deformation, and designed for easy cleaning and minimal upkeep. It is compatible with a range of rubber and elastomer materials.

Specification

Capability	In-house mould workshop for a variety of moulds and tools
Consistency	Every O-ring produced of uniform size and quality
Temperature Resistance	Withstands high moulding temperatures without deformation
Maintenance	Designed for easy cleaning and minimal upkeep
Compatibility	Various rubber and elastomer materials

Key benefits

Uniform Size Across Every Cavity. An O-ring mould has many cavities and they must all produce the same part. Cavity-to-cavity consistency is what separates a production tool from a sample tool.

Withstands Moulding Temperature Without Deforming. Rubber moulding runs hot for long cycles. A mould that moves at temperature produces flash and out-of-tolerance parts from the first shift.

Designed for Easy Cleaning. Rubber moulds foul with cure residue. Easy cleaning and minimal upkeep is what keeps the tool producing rather than sitting on the bench.

Works Across Elastomers. Suitable for various rubber and elastomer materials, so the same tool can run NBR, EPDM or FKM as demand changes.

Where it is used

Production tooling for a standard O-ring size • Custom O-ring sizes not covered by a standard series • Moulds for a specific elastomer requirement • Replacing worn production tooling • Bringing O-ring production in-house • Tooling for a range of rubber and elastomer parts

Plastic Parts

Plastic Parts · Injection and blow moulded

Plastic parts produced by injection moulding and blow moulding across three plastic production suppliers, with inquiry handling, quality control and delivery supervision provided as part of the service. Injection moulded parts are formed by injecting molten plastic into a mould; blow moulded parts are used primarily for creating hollow objects. Parts are made to the exact specification of the project, for automotive, electronics and other sectors.

Specification

Injection Moulded Parts	Formed by injecting molten plastic into a mould
Blow Moulded Parts	Used primarily for creating hollow objects
Production Base	Three plastic production suppliers
Services	Inquiry, quality control, delivery supervision
Applications	Automotive, electronics and other industries

Key benefits

Three Suppliers Behind One Contract. Three plastic production suppliers means capacity and a fallback, while the inquiry, quality control and delivery supervision stay with one party.

Quality Control as a Service. Quality control and delivery supervision are explicitly part of what is supplied, which is what a buyer sourcing remotely actually needs.

Injection and Blow Moulding. Solid parts and hollow objects both covered, so a product combining the two does not need two supply chains.

Parts Made to the Project Specification. Every industry has different requirements, and parts are designed and crafted to the exact specification of the project.

Where it is used

Automotive plastic components • Electronics housings and internal parts • Hollow containers and bottles by blow moulding • Injection moulded functional components • Sourcing plastic parts with third-party quality control • Multi-part projects across moulding processes

FKM Rubber Products

FKM Rubber Products · Fluoroelastomer

Custom processed FKM rubber products, made in an in-house mould workshop where the tooling is designed and manufactured alongside the part. FKM resists a wide range of chemicals, oils and fuels, from aggressive acids through to industrial lubricants, and retains its structural integrity at elevated temperatures where other elastomers degrade. It is used in automotive and other high-performance applications.

Specification

Material	FKM fluoroelastomer
Chemical Resistance	Aggressive acids, industrial lubricants, oils and fuels
Temperature	Retains structural integrity at elevated temperatures
Durability	Resists wear, tear and environmental degradation
Tooling	In-house mould workshop, design and manufacture
Applications	Automotive and other high-performance uses

Key benefits

Chemistry and Temperature Together. Most elastomers handle one or the other. FKM resists aggressive acids and industrial lubricants while also holding together at elevated temperature, which is what high-performance sealing actually requires.

Custom Processing With Own Tooling. The mould workshop is in-house, so a custom FKM part is designed, tooled and moulded by one party rather than three.

Resists Wear and Environmental Degradation. FKM's durability is inherent rather than applied, so parts keep performing through a long service life rather than degrading progressively.

Any FKM Part Not Just O-Rings. Custom processing means gaskets, diaphragms, bellows and moulded shapes, not only standard sealing rings.

Where it is used

Automotive high-temperature sealing components • Chemical processing gaskets and diaphragms • Fuel system components • Industrial lubricant exposure applications • Custom moulded FKM shapes to drawing • Replacing parts that fail on chemistry or temperature

Bushings and Shock Absorbers

Shock Absorber Bushings · Bonded rubber to metal

Automotive shock absorbers, bushings and shocker bushes produced with an in-house machining workshop and coating workshop. Metal parts are machined and coated on site, then rubber is moulded onto them, which is what makes a bonded rubber-to-metal component rather than an assembled one. The bushes resist wear and tear, keeping the vehicle's suspension system working as designed.

Specification

Products	Automotive shock absorbers, bushings, shocker bushes
Metal Processing	In-house machining workshop
Surface Treatment	In-house coating workshop
Construction	Rubber moulded onto machined metal parts
Durability	Resistant to wear and tear
Function	Maintaining vehicle suspension system condition

Key benefits

Metal and Rubber Under One Roof. Machining, coating and rubber moulding in the same facility is what makes a proper bonded bush. A bond failure almost always traces back to surface preparation done by someone else.

Coating Workshop On Site. The metal insert is coated before over-moulding. That coating both protects against corrosion and provides the adhesion surface the bond depends on.

Wear Resistance Keeps Suspension Geometry. A worn bush lets suspension geometry move under load. Resistance to wear and tear is what keeps the alignment where it was set.

Complete Suspension Components. Shock absorbers, bushings and shocker bushes from one source, which suits an aftermarket or assembly buyer covering a whole corner of the vehicle.

Where it is used

Vehicle suspension bushings • Shock absorber mounting bushes • Aftermarket suspension replacement parts • Bonded rubber-to-metal components for vehicles • Custom bush designs for specific vehicle platforms • Assembly supply of complete suspension components

How To Enquire

Send the process rather than a model number: capacity or flow rate, the product being handled, the container format where relevant, and the utilities already on site. WhatsApp +86 150 5517 9418 or email sales@trueglowimaging.com.

Minimum order is one unit on the process, packaging, utility and crane ranges. Machined, fabricated and moulded parts are quoted from single pieces upward.