

Our Technology, Your Success

"Your Trusted Manufacturing Partner Since 1990, Precision Plastic, Rubber & LSR Molds – End-to-End Solutions"





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Company History Timelines



Precision Injection Molding factory founded, 11000 SQM



Establish a mold design and manufacturing center, 50+ mold R&D engineers



Started silicone rubber and LSR production



Established International Marketing office, entry into global markets.



Started PIR Lens production

1990

2000

2006

2010

2014

0 2024

2022 (

2020 (

2017 (

2016 (



2024 - A New Era Begins

- Strategic Transformation
- Global Trade Expansion
- · Commitment to Sustainability



Expanded injection molding production base



Signed partnership agreements with key outsourced suppliers



Set up a second injection molding production in Heyuan city



Launched advanced automation systems to enhance production efficiency

Future Vision

Continue leading innovation and delivering excellence to customers globally.



WHY RILONG +

- 30+ years expertise in mold design & injection molding

- ISO/IATF certified for guaranteed quality
- Serving automotive, medical & electronics industries worldwide

Our Core Values

01

Integrity

Efficiency

speed and precision.

We uphold honesty and transparency in everything we do



Innovation

Driving progress through creativity and advanced technology.

Customer First

Your success is our priority.

Global Network of Manufacturing Partners

"Serving Partners Worldwide: Trusted by leading companies across America, Europe, Oceania, and Asia."



Precision engineered. Globally delivered.





Quality Commitment

The key factors that help us maintain high quality are the use of the following quality systems and standards across all of our processes:

International Certifications



ISO 9001 (Quality Management)



ISO 14001 (Environmental Management)



ISO 13485 (Medical Devices)



(Automotive Standards)

Internal Systems



RiLong Quality Policy (Company-specific benchmarks)



7S Management (Workplace Efficiency)



SOP Control Flow (Standardized Procedures)

Advance Testing Equipments



RoHS tester



mold workpiece CMM



IPQC inspection



Color Meter



VMS inspection



IPQC Inspection



Rubber Force test



Life test



Quality inspection























Precision Injection Mold Manufacturing Expert

We deliver high-quality plastic & rubber molds for medical, automotive, electronics, and more. Our end-to-end solutions cover:

✓ Mold types:

Single/Multi-cavity LSR&Overmold

2K&Multi-material Compression Mold Specialty technologies: Insert Mold

Flip-top mold

Laser Holographic Mold Corrugated pipe mold



LSR Mask







Home alarm



auto part



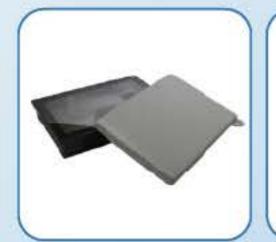
precision mold



Precision tube mold with core pulling structure



HASCO standard single nozzle hot runner mold



Waterproof display



wireless translator



medical device



Camera Housing





Mold Process Flow



Mold Design



CNC



Electro Copper



EDM



Mirror EDM



Wire Cutting



Mold Measuring



Mold Fitting



CMM Check



Mold Polishing



Precision Machining

50+ Highly Experienced Mold R&D Engineers

engineers have

years of work experience.

10 imported EDM, Wire cutting machines:Charmilles, SODICK















Partnered Global Companies

imported CNC machines: Charmilles, Seiki, Faunc

20,000+

Self-Produced Plastic and Rubber Molds



The mold precision can achieve up to 0.005mm.



Turn your concept into reality

From Concept to Production - We Handle It All

Submit your design/CAD - we manage the entire process Custom solutions backed by decades of multi-industry experience 80% client retention rate through referrals - a testament to our quality

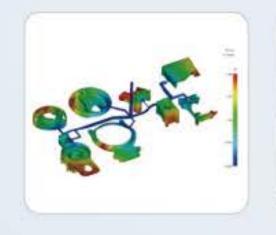
PROJECT FLOW CHART



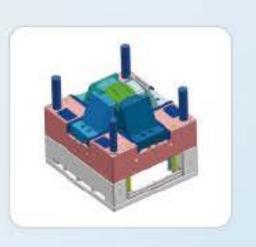
















Strat From Design Concept



Prototype Test

Tool Dfm

Moldflow Analysis

Project Discussion

Mold Design

Finalized Design

Mold Processing

























Pallet Packing

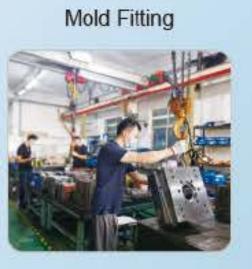


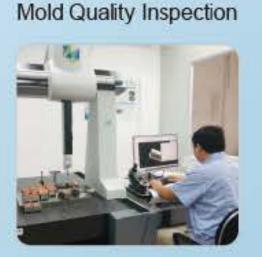












Your vision. Our precision. Guaranteed results.





Composite Material Injection Molding and Secondary Processing

As an engineering plastics application technology solution provider, we specialize in the utilization of various engineering plastics.



03 PA

05 POM

06 PBT

09 PPSU

11 TPE

12 TPU and LCP



Boost your product's potential through our comprehensive secondary processing services, including laser engraving, silk/pad printing, chrome/Nickel plating, UV spraying, sand blasting, hand oil coating, welding, heat stamping, assembly, and packaging.





























Innovative Multi-Shot Injection Molding for Advanced Product Design

From plastic-to-plastic and rubber-to-metal over-molding, to multi-shot injection molding with connectors, cables, glass.



Double Injection Molding



Double Injection Molding



2K injection molding



4 different colors double injection molding



plastic housing overmolded with POGO pins





silicone rubber overmold with plastic component



Double Injection Molding



Double Injection Molding



connector overmolding





Total Manufacturing solutions for PIR Fresnel

Fresnel lens mold electroforming processing method

1 Design OpticalMaster

N2 ULC machining Master

Naster insert

The master is spliced intoinserts and the surface issprayed with conductive paint







The all-metal processing method for Fresnel lens molds

Design OpticalMaster

ULC machining Single lens inserts

The overall insertafter splicing and assembly

Injection molded products





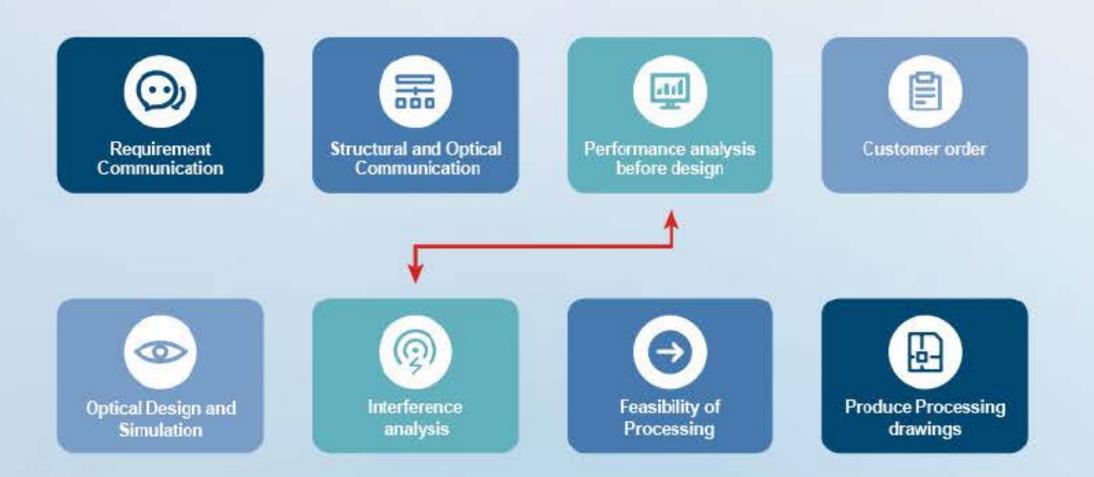


Total Manufacturing solutions for PIR Fresnel

PIR lens development process

The characteristics of our development process:

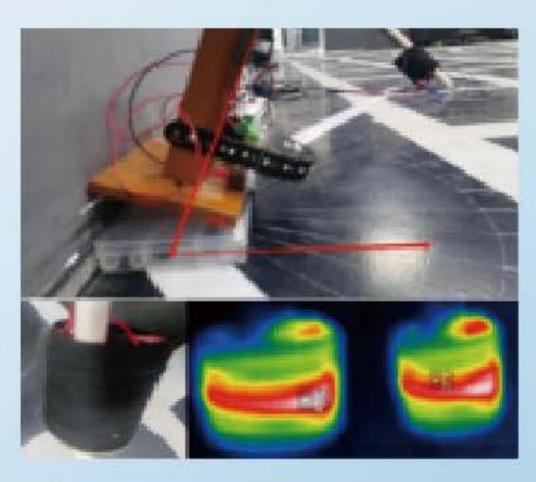
- 1. The match between design and actual product performance is high, exceeding 95%;
- 2. The delivery cycle is short, taking only 35 days from placing the order to producing the sample, while in the industry it usually takes 50 to 60 days.



Infrared sensor Testing Laboratory



Human body sensing testing: wide temperature regulation, precise temperature control, accurate sensor testing, high reproducibility.

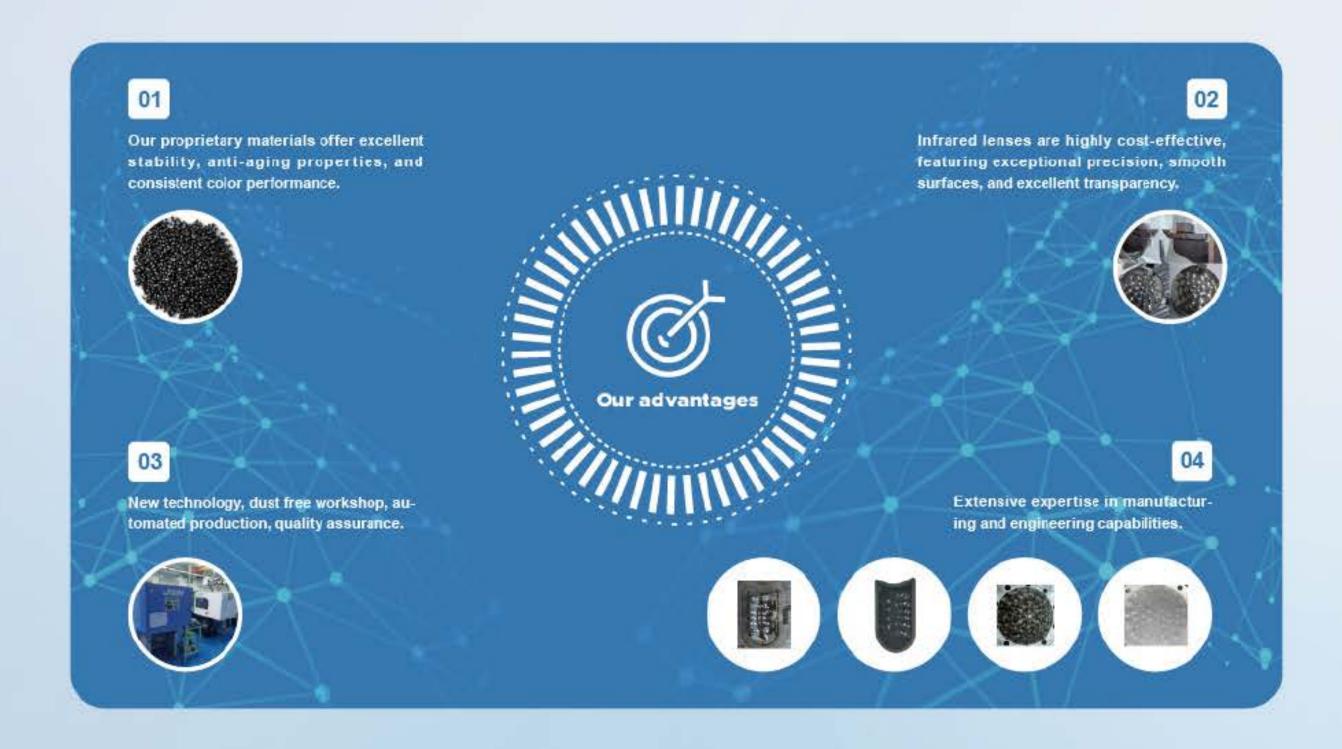


Small animal target sensing testing and small animal heat source simulation.

PIR Fresnel

Shaping the Future: The Power of PIR Fresnel Lenses

We specialize in the research and design of PIR Fresnel lenses, along with the development of precision molds, advanced materials, and injection molding processes.









Waterproof expert IP-level waterproof solution

- Rich engineering experience to help customers find the most cost-effective waterproof solution or material selection.
- Metal-encapsulated waterproof solution.
- Silicone rubber gasket gasket waterproof solution.
- The most economical waterproof solution for each IP level.
- Liquid Silicone Rubber(LSR) over-molded to plastic housing for optimal waterproofing.

- Plastic case encapsulated waterproof case
- Plastic shell or metal shell groove waterproof solution.
- A difficult waterproof solution for non-self-adhesive situations.
- Suggestions on the selection of silicone rubber waterproof material and hardness.



Handle device



LSR overmolded Earphone



TPU Overmolded Solution



Game Controller



Socket and gasket overmolding



NaOH Container



High Precision Medical Device Solutions Expert



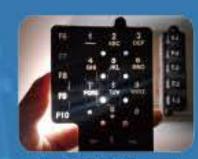
The covered fields include:

cardiac intervention, cardiac surgery, cardiovascular intervention, cerebrovascular intervention, neurointervention, pulmonary disease intervention, laryngoscopy, endoscopy, insulin injection pens, etc.



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Leading the Industry in High-Quality Silicone and Synthetic Rubber Solutions for Over 20 Years



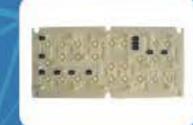
Backlight SR Keypad



casting molded ear



Fluorescent Silicone keypad



Medical silicone keypad with carbon pills



coating silicone keypad



dust free rubber cover



rubber overmold metal rod



membrane switch with silicone keypad



color key keypad for POS



Soft Protective Cover



epoxy coating keypad



Multiple colors keypad



conductive silicone rubber



watch band



medical silicone buttons



plastic cap with silicone button



Rubber Cover for Mini speakers



Function keyboard



Skin friendly Rubber Massager



Rubber Silicone Hard Disk Case



ubber gasket overmold



silicone keypad with filled ink



Smart-phone-keypads



rubber gasket seal



silicone keypad with FPC



mooth rubber cover

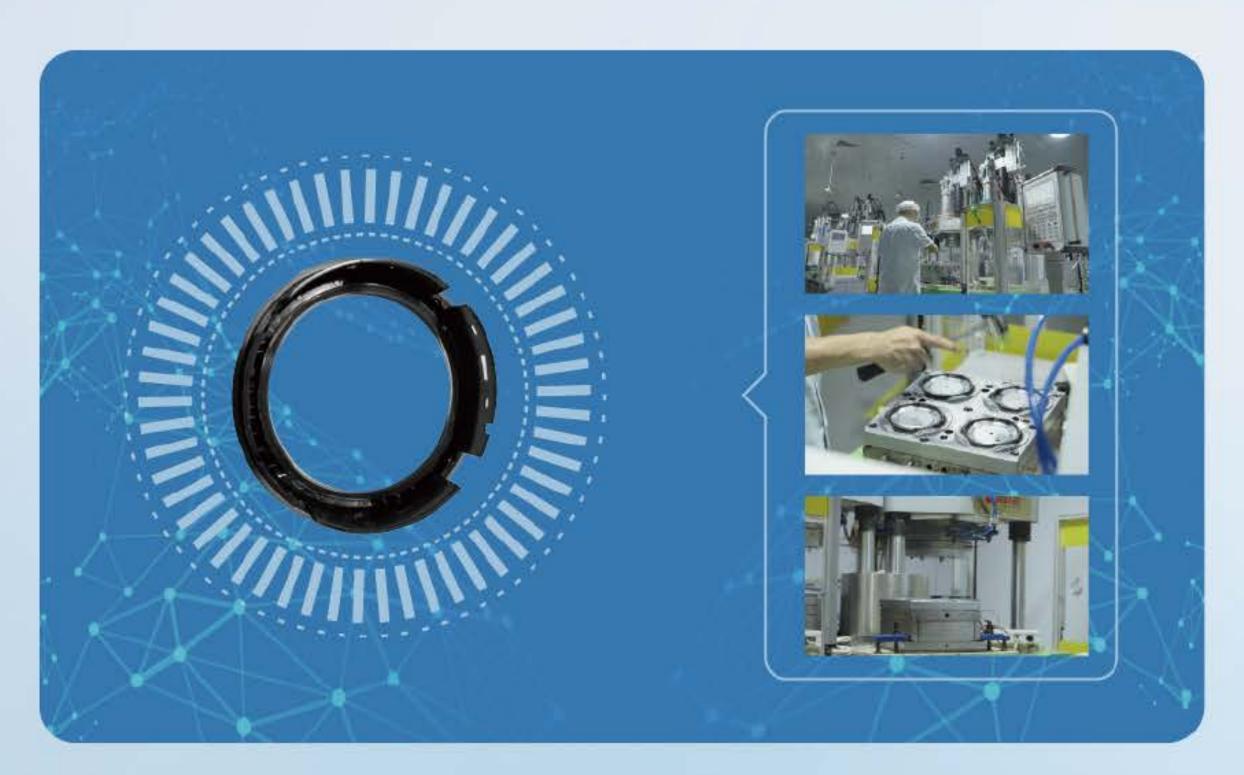






Leading the Way in Liquid Silicone Rubber Injection Molding

More and more LSR/plastic, metal combination parts are used in various industries, especially Electric vehicles, controllers, medical devices, outdoor products that require intensive waterproofing capabilities and withstand extreme temperatures.



Hard Plastic+ LSR overmolding for Audio panel

Process: The black hard plastic part was injection molded first, followed by over molding with black LSR, and at last, transparent LSR over-molded with the black part to complete the final product.













CNC Machining & Prototypes

Custom CNC Machined AL/ Steel/Copper/ Brass /Plastic Parts7-10 days fast molding



SURFACE TREATMENT

We use a variety of surface treatment, you have a variety of options









Laser engraving Galvanized

Plating

Polishing







Powder coating Sandblasting

Silk printing

Plastic&Rubber Production Capabilities

- 90% Automated Production -Robotic systems ensure precision & efficiency
- 60+ Injection Machines
- 35 High-speed electric (30T-140T)
- 25 Hydraulic (50T-380T)
- Specialized optical lens production line
- 3 Dedicated Clean Rooms for silicone rubber components

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Smart Manufacturing.
Precision Delivery.





One-Stop Service Solution

We have signed long-term cooperation agreement with our outsourced partners for providing our customers One-Stop service.











aircraft audio cable



AL with anodizing



AL with mirror polishing



membrane switch with metal dome



silicone keypad with FPC



Waterproof Membrane Switch



custom cable assy



die casting



RJ45 module



PET film panel



Touch Button Glass Panel

"From Design to Delivery, We've Got You Covered!"





Warehousing& Packaging& Logistics

Secure Storage, Precision Packaging, Global Logistics – Your End-to-End Supply Chain Solution



1 plastic mold storage



2 rubber mold storage



3 Resin warehouse



4 rubber materials



5 Blister packing



6 Ready to go



7 pallet shipping

RILONG — YOUR TRUSTED PRECISION MOLDING PARTNER

RILONG
PRECISION MOLD CO., LIMITED

30+ Years of Expertise | Global Supply Capability | End-to-End Solutions

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Email: annie@rilong-mold.com

Call Us

86-755-8952 6305



Manufacturing Centers



Shenzhen, Guangdong (Main factory)

6#. Jinyuan 2 road. Jinyuan Industrial. YuanshanStreet, Longgang district, Shenzhen, China.



Heyuan, Guangdong (Injection factory)

Hongsongyuan Technology Park, Hudieling Industrial City, Heyuan City, Guangdong Province, China.



Dongguan, Guangdong (Plastic& Rubber factory)

Wusha Xingfa South Industrial Park. Chang'an Town, Dongguan City. Guangdong Province, China.