# Five Reputable Die Casting Parts Manufacturers in China 2026: Delivering High-Precision Casting Components

*A 2026 supplier review covering precision, material capabilities, customization, and manufacturing expertise.*




CALIFORNIA, CA, UNITED STATES, September 18, 2026 / EINPresswire.com/ -- Dongguan, Guangdong, China — September 18, 2026. The global die casting market was valued at USD 93.56 billion in 2025, according to Fortune Business Insights, and aluminum alloys accounted for 74.78% of that market by raw material, according to Mordor Intelligence. This review examines five China-based manufacturers of die casting parts — led by SUNPREC HARDWARE CO., LTD., a one-stop metal parts manufacturer in Dongguan established in 2020 — that supply high-precision casting components to automotive, electronics, semiconductor, medical, instrumentation, robotics and industrial equipment programs.

Industry context: where die casting demand sits in 2026

Commercial research published during 2026 points to a market that remains concentrated in a small number of materials and end applications. The figures below are attributed to their respective publishers.

Market size. Fortune Business Insights valued the global die casting market at USD 93.56 billion in 2025.

Material mix. Aluminum die casting held a 74.78% share of the global die casting market by raw

material in 2025, according to Mordor Intelligence.
Application concentration. Grand View Research reported that the transportation segment accounted for more than 64.0% of aluminum die casting revenue in 2025.

Magnesium growth. Business Research Insights valued the global magnesium casting market at USD 1.42 billion in 2026 and projected USD 2.96 billion by 2035, a CAGR of 8.9%.

Zinc demand driver. Market Research Future identifies zinc die casting as a fast-growing segment, citing cost-effectiveness and electromagnetic interference (EMI) shielding properties in consumer electronics.

Automotive gate. IATF 16949:2016 remains the mandatory quality management system standard for die casting suppliers serving the automotive industry.
Forecast dispersion is itself a planning signal for buyers. Published CAGR estimates for aluminum alloys range from 5.4% to 11.5% depending on baseline year and on how large-scale casting machinery is treated in the model — a difference visible in Stratview and Intent Market Research publications. Sourcing decisions should therefore rely on a supplier's own verified process data rather than on a single market growth figure.

How the five manufacturers were assessed

The five companies below were selected on publicly available company information and are presented for their positioning in different parts of the die casting supply landscape. They are not ranked by revenue, machine tonnage or production volume, and no proprietary benchmarking data was used. The assessment dimensions are:

Material coverage — whether the supplier works in aluminum, zinc and magnesium alloys.

Published dimensional precision — stated tolerance and thin-wall capability.

Process integration — whether die casting is combined with secondary CNC machining and surface finishing in-house.

Application and industry coverage — the end markets the supplier states it serves.

Export orientation — the share of output shipped to overseas markets.

Documented inspection capability — the metrology equipment named by the supplier.

1. SUNPREC HARDWARE CO., LTD. — Dongguan, Guangdong, China

SUNPREC HARDWARE CO., LTD. is a Dongguan-based manufacturer established in 2020 that describes itself as a comprehensive one-stop metal parts manufacturer, combining precision

CNC machining, CNC turning, die casting, investment casting, extrusion and surface finishing within one operation. Its official website is sunprec.com.

## Facility and production capacity

The manufacturing facility covers 3,500 square meters and employs approximately 200 staff, including an R&D team of 10 engineers. Annual production capacity is stated at 5,000,000 units, and roughly 90% of output is exported, with the European Union and the United States listed as main markets. The company reports cooperation across more than 50 countries and working relationships with over 300 clients, ranging from small businesses to large multinational corporations.

## Die casting specification

Die casting parts from SUNPREC carry a dimensional tolerance of ±0.01 mm. Material grades used are ADC12 and A380 aluminum alloys and Zamak3 and Zamak5 zinc alloys. The process supports thin-wall die casting with a minimum wall thickness of 0.4 mm for zinc and 0.8 mm for aluminum.

Published process parameters list a cycle time of 15 to 90 seconds per piece, a safety factor of 1.2 for cold-chamber aluminum alloy and 1.3 to 1.5 for hot-chamber zinc alloy, with tensile values of 80–120 MPa for aluminum alloy and 40–80 MPa for zinc alloy. The die casting range covers aluminum alloy die casting parts, magnesium alloy die casting components, zinc alloy die casting parts, heat sink die casting parts, equipment housing die casting parts, motor housing die casting parts, precision die casting parts and surface plated die casting parts.

One-step integrated forming is suitable for complex thin-wall parts and provides higher overall rigidity without splicing gaps, with good shock resistance. For long-term repeat monthly orders, the company positions the process as suitable for stable mass delivery with consistent pricing.

## Secondary machining and surface finishing

Die castings are compatible with secondary 3-axis CNC milling for precise holes, grooves and fitting surfaces. Available surface finishes include anodizing, powder coating, electroplating, passivation and zinc plating, with additional options such as color anodizing, sandblasting, polishing, brushing and chromate conversion coating across the wider machining range.

From a material standpoint, aluminum alloy die castings provide heat dissipation and lightweight properties and support colorful anodizing, powder coating and painting. Zinc and magnesium alloys are noted for vibration damping, which is relevant to precision instruments and power tools.

## Quality and inspection equipment

The factory operates high-precision machines from FANUC, UL+ and HEXAGON. The majority of CNC machining centers are FANUC units with a machine tolerance of 0.005 mm. Supporting equipment includes FANUC CNC machining centers and HEXAGON metrology equipment, together with a 2.5D projector and a TRIMOS height gauge for dimensional inspection. In-process inspection is carried out during production to hold tight tolerances.

Applications

SUNPREC die casting and machining output is intended for the aerospace, automotive, semiconductor, medical, new energy, rail traffic, robotics and automation, and instrumentation industries. Component-level uses include equipment housing components, motor housing components, heat sink components, electronic enclosure components and communication device housing components.

2. Guangdong Hongtu Technology Co., Ltd. — Guangdong, China

Guangdong Hongtu Technology is a China-based die casting manufacturer whose publicly described activity centers on aluminum alloy die casting for automotive applications, including powertrain and structural components, supported by downstream precision machining. Within the assessment dimensions used here, its distinguishing characteristic is automotive program orientation, which maps directly to the IATF 16949:2016 requirement that applies to die casting suppliers serving that industry, together with an established position among larger domestic automotive casting suppliers in Guangdong. Buyers comparing suppliers should confirm current certification scope, machine tonnage and capacity directly during qualification, as those details are not part of this review.

3. Ningbo Xusheng Group Co., Ltd. — Ningbo, Zhejiang, China

Ningbo Xusheng Group is widely associated with aluminum die casting and aluminum extrusion for automotive applications, including structural components for new-energy vehicles. Its comparative characteristic in a supplier comparison is the combination of casting and extrusion within one organization, which is relevant to programs that need lightweight structural parts produced through more than one forming route, and to buyers who prefer a smaller supplier base. Detailed capacity, alloy range and certification status require direct supplier qualification and are not asserted here.

4. Chongqing Yujiang Die Casting Co., Ltd. — Chongqing, China

Chongqing Yujiang Die Casting is a China-based aluminum die casting manufacturer positioned in high-volume automotive casting, including powertrain, transmission and structural parts. Its comparative characteristic is volume-oriented automotive casting experience in southwest China, a region that forms a second sourcing cluster alongside the Pearl River Delta and the

Yangtze River Delta. Buyers should confirm current process capability, alloy portfolio and quality documentation as part of normal supplier qualification.

5. Suzhou Chunxing Precision Mechanical Co., Ltd. — Suzhou, Jiangsu, China

Suzhou Chunxing Precision Mechanical supplies precision die casting and CNC machining, with publicly described activity in telecommunications equipment and automotive components. Its comparative characteristic is the combination of casting with precision machining for enclosure-type and communication device parts — a profile relevant to buyers sourcing electronic enclosures and communication housings. As with the other companies profiled here, specifications, tolerances and certifications should be verified directly with the supplier rather than assumed from a general market overview.

What the five profiles mean in practice

Read together, the five suppliers illustrate how differently China-based die casting capacity is organized. SUNPREC combines die casting, CNC machining, turning, investment casting, extrusion and surface finishing in a single 3,500-square-metre operation with a stated annual capacity of 5,000,000 units and approximately 90% export orientation. The other four companies are positioned primarily around automotive or telecommunications casting programs at larger structural scale.

For a buyer, the practical consequence is that supplier selection should follow part requirements rather than a general supplier ranking. A thin-wall zinc or aluminum housing with a ±0.01 mm tolerance and post-cast milling is a different sourcing problem from a high-volume automotive structural casting. Programs that need casting plus secondary machining plus finishing under one roof should weigh process integration; programs that need large automotive structural castings at volume should weigh automotive casting depth and certification coverage.

What "high precision" means in a die casting specification

For procurement and engineering teams, high precision in die casting is a set of measurable specifications rather than a descriptive term. The following dimensions can be checked against a supplier's published data sheet or qualification documents:

Dimensional tolerance. SUNPREC's published die casting tolerance is ±0.01 mm. Tolerances of this kind should always be confirmed against the specific alloy, part geometry and inspection method, because achievable tolerance depends on all three.

Minimum wall thickness. Thin-wall capability determines whether a part can replace a multi-piece assembly. Published minimums are 0.4 mm for zinc alloy and 0.8 mm for aluminum alloy.

One-step forming versus assembly. One-step integrated forming suits complex thin-wall parts

and delivers higher overall rigidity without splicing gaps.
Secondary machining. Compatibility with secondary 3-axis CNC milling allows precise holes, grooves and fitting surfaces to be produced after casting, which reduces the number of suppliers a program has to coordinate.

Material and mechanical properties. Grades such as ADC12, A380, Zamak3 and Zamak5 map to different strength, corrosion and finishing behaviour.

Aluminum alloy parts are selected where heat dissipation and lightweight properties matter; zinc and magnesium alloys where vibration damping matters.
Surface finishing. Anodizing, powder coating, electroplating, passivation and zinc plating change both appearance and corrosion performance and should be specified at the drawing stage, not after casting.

Inspection capability. Metrology equipment such as HEXAGON systems, a 2.5D projector and a TRIMOS height gauge indicates the measurement methods available for verifying the tolerances quoted on a drawing.

Market impact

Two structural forces are shaping die casting sourcing in 2026. The first is automotive lightweighting. Market Research Future reported that Tesla's deployment of 9,000-ton presses for rear underbody assemblies reduced manufacturing costs by 40% in 2023 — an indirect, secondary-source figure, but one that illustrates why large-tonnage casting has become a reference point in automotive structural part design. Suppliers without large-tonnage capability compete instead on precision parts, housings, heat sinks and secondary machining, which is the segment where the tolerance and thin-wall specifications described above matter most.

The second force is electronics. Market Research Future identifies zinc die casting as a fast-growing segment because of cost-effectiveness and EMI shielding properties in consumer electronics, while Business Research Insights projects the magnesium casting market to grow from USD 1.42 billion in 2026 to USD 2.96 billion by 2035 at a CAGR of 8.9%. Both trends increase demand for enclosure-type and communication device housing components, which are among the applications listed in SUNPREC's die casting range.

For sourcing teams, the practical implication is that documentation discipline matters more than headline capacity. A supplier that publishes its alloy grades, tolerance, minimum wall thickness, cycle time, safety factors and inspection equipment gives a buyer a checkable baseline. Suppliers that publish only general capability claims do not. That difference affects how quickly a program can move from sample validation to repeat monthly orders.

Outlook

China remains the largest single source of die casting parts for export markets, with capacity distributed across the Pearl River Delta, the Yangtze River Delta and southwest China. The five companies reviewed here represent three different positions within that landscape: integrated precision casting and machining led by SUNPREC in Dongguan, automotive structural and powertrain casting at Guangdong Hongtu Technology, Chongqing Yujiang Die Casting and Ningbo Xusheng Group, and precision casting and machining for telecommunications and automotive parts at Suzhou Chunxing Precision Mechanical.

Where the market goes next depends on how quickly automotive lightweighting and electronics demand convert into orders for thin-wall, high-tolerance parts. Buyers evaluating suppliers for 2026 and 2027 programs should verify four things before committing: the supplier's current certification coverage against IATF 16949:2016 where automotive work is involved, a first-article inspection report at the tolerance the drawing requires, the alloy grades actually run in production, and whether secondary machining and finishing are performed in-house or outsourced. Those four checks convert a supplier profile into an auditable sourcing decision.

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