



OEM Precision Parts Solution

OEM Präzisionsteile Lösung

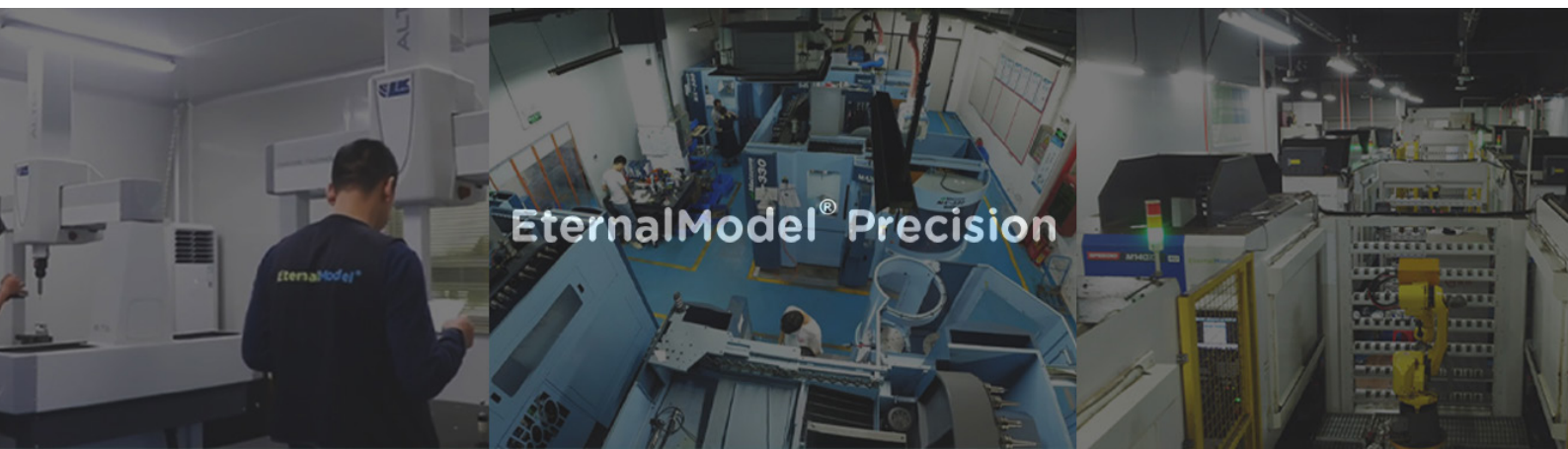
Prototyping to Mass production

EternalModel Precision Parts Solution



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Company Profile

Since 1998

EternalModel Precision, founded in Shenzhen, China in 1998, is a company focusing on prototyping to volume production. We have a professional core team, advanced equipment, and our own factory building. At the same time, we passed the ISO9001 quality management system.

In southern China, we have two manufacturing centers and one processing technology R&D bases



EternalModel team pursues excellence and takes the initiative to continuously optimize the production process. At the same time, EternalModel also introduced the world's top machine tools and highly automated equipment to improve the quality stability and production efficiency of the process. With many years of high-quality production and hard work, EternalModel has won the praise and trust of the industry and customers!



SHENZHEN, CHINA

Headquarters
Manufacturing Center
Processing R&D Center



HUIZHOU, CHINA

Manufacturing Center



HONGKONG, CHINA

Office

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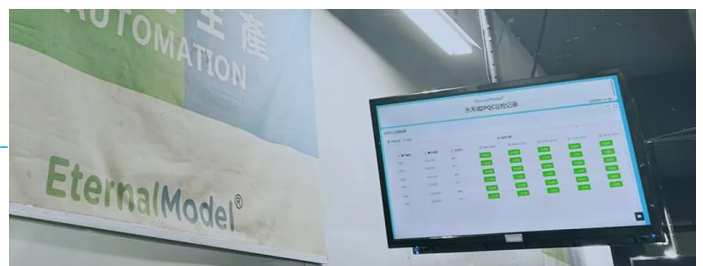
Automation lines

Precision 5-axis Workshop



Precision Lathe Workshop

Self-developed ERP&MES



Core Service

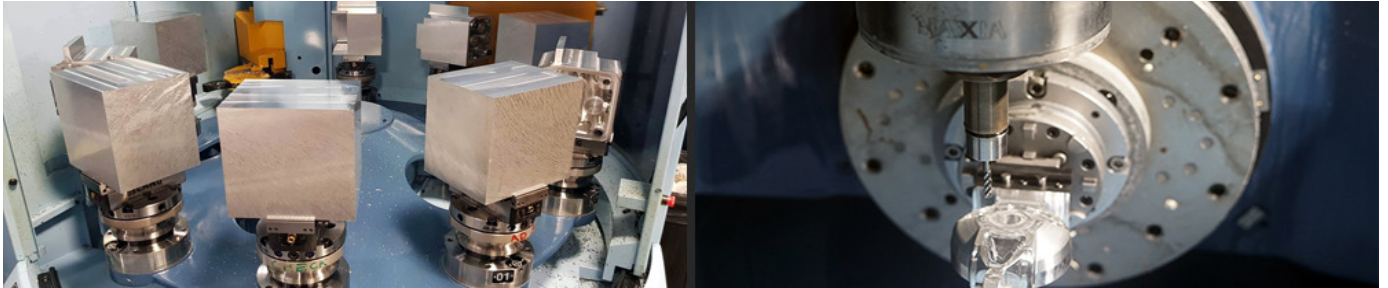
Precision Solutions for Your Toughest Challenges

Ultra-Precision 5 Axis Machining

Advantages: Ultra Precision, High Finish, Reach high geometrical tolerance requirements, pallet feeding

Tolerance: Up to ± 0.005 mm

Material Applied: Aluminum alloy, titanium alloy, copper alloy, stainless steel, special alloy and other metal materials, POM, PEEK, PPSU, and other engineering materials



Automated CNC Machining

Advantages: Precision, High Finish, Reach complex mass production requirements, robot feeding

Tolerance: Up to ± 0.005 mm

Material Applied: Aluminum alloy, copper alloy, stainless steel, and other metal materials, POM, PEEK, PPSU, and other engineering materials

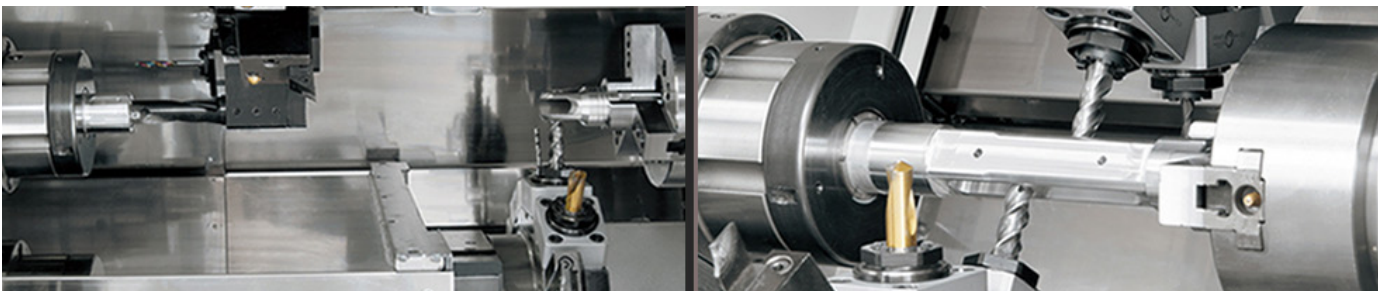


Ultra-Precision Turning & Milling Machining

Advantages: Ultra Precision, High Finish, Reach high concentricity and geometrical tolerance requirements

Tolerance: Up to ± 0.005 mm

Material Applied: Aluminum alloy, titanium alloy, copper alloy, stainless steel, special alloy and other metal materials, POM, PEEK, PPSU, and other engineering materials



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Associated Service

One-stop solution for all processes

Production Process

Die-Casting



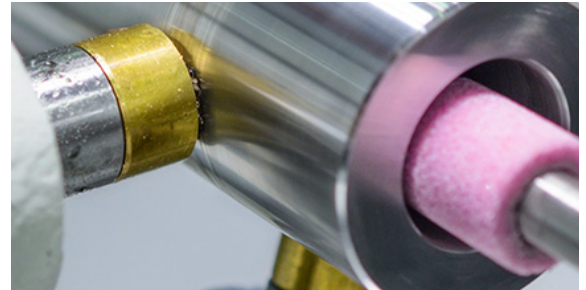
EDM



Mold injection



Grinding



Surface Treatment

Polishing	Anodizing	Sandblasting	Plating
Passivation	Heat Treatment	Spray	Laser engraving

Assembly

Assembling the parts in-house, we can ensure that each part is assembled correctly and meets the required, at the same time, we can reduced turnaround time and meet the customer's final demand for the whole process.



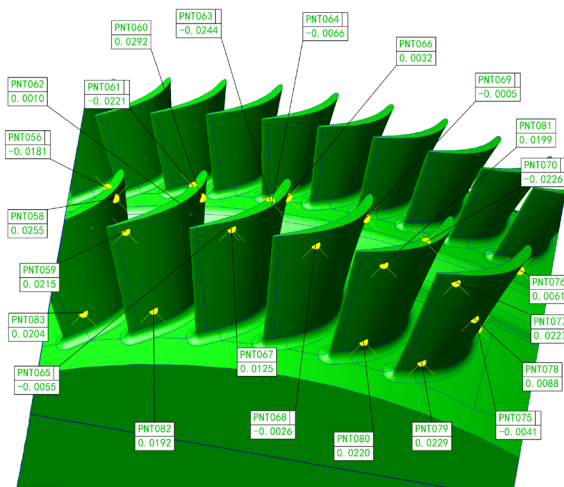
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Quality Assurance

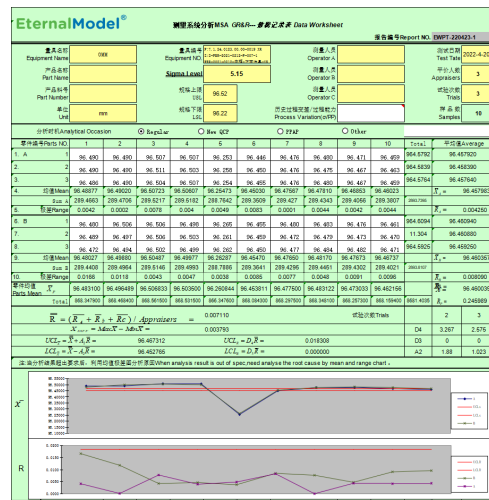
Ensuring Precision Every Step of the Parts Manufacturing

We will establish clear quality standards and procedures that define the requirements for the parts, including dimensions, tolerances, and material specifications. Conduct regular inspections throughout the production process to ensure that parts meet the required specifications. This can include visual inspections, dimensional measurements, and material testing.

CMM inspection is one important part of a comprehensive quality assurance program. We integrate CMM inspection results into its broader quality control process and ensure that any issues identified during inspection are addressed promptly.



CMM Report of Blade Part



Measurement System Analysis



CMM Inspection Room (Constant temperature and humidity)

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Parts Show

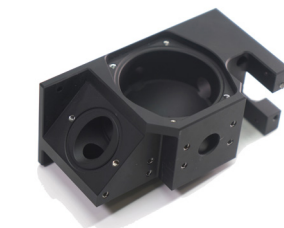
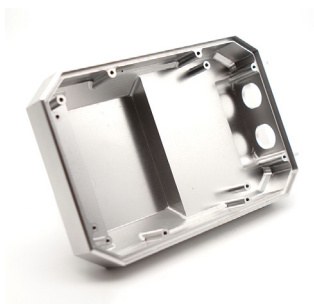
Precision / High Finish / Tight Tolerance

Optical Parts

Material: AL7075-T6

Surface: Anodized

Tolerance: Geometric Tol. - Up to ± 0.01
Roughness - Ra0.4

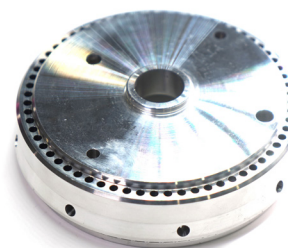


Turning&Milling Parts

Material: AL6061-T6

Surface: As machined

Tolerance: Diameter Tol - Up to ± 0.005
Geometric Tol. - Up to ± 0.01
Roughness - Ra 0.2

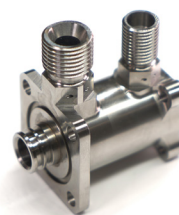


Air Pump Parts

Material: Titanium alloy

Surface: As machined

Tolerance: Geometric Tol. - Up to ± 0.01
Roughness - Ra 0.4

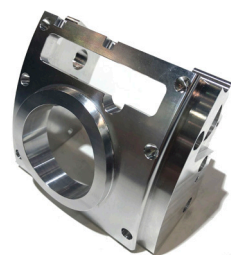


Mechanical Parts

Material: Stainless Steel

Surface: Passivation

Tolerance: Geometric Tol. - Up to ± 0.01
Roughness - Ra 0.4



Consumer Products Parts

Material: AL6061-T6

Surface: Anodized Color

Tolerance: Geometric Tol. - Up to ± 0.02
Roughness - Ra 0.8



Applied Equipment

Advanced Equipment for Precision Results

EternalModel always uses advanced facilities, which can provide numerous benefits to customers, including increased precision, efficiency, flexibility, cost-effectiveness, and consistency in manufacturing processes.

Arrived Machines/CAM Before 2023

Brand	Machines/Software	Model / Specification	QTY	ORIGIN
	Mastercam 2020	3/4/5 axis Milling and Turning Programming	1	USA
	Matsuura 5-axis CNC Machine	MX330-PC10	6	JAPAN
		MX520-PC4	2	JAPAN
	Brother 5-axis CNC Machine	M140X2 / M200X3	10	JAPAN
	OKK five-axis CNC Machine	VP400	1	JAPAN
	Okuma 3-axis CNC Machine	MXR-560V	1	JAPAN
	Brother 3-axis CNC Machine	S500	1	JAPAN
	Fanuc 4-axis CNC Machine	α-D14MiA	19	JAPAN
	VIRIN 3-axis CNC Machine	MV1000P	2	JAPAN
	Nakamura-Tome (Two-Turret, Two-Y-Axis)	WY-100II	1	JAPAN
		WY-150II	1	JAPAN
	Lathe	8-Inch Chuck	2	CHINA
	Lathe	3-Inch Chuck	16	CHINA
	Fanuc Robot Line		2	JAPAN
	LK (NIKON) CMM	ALTERA S 15-10-8	1	UK
		ALTERA S 8-7-6	1	UK
	HEXAGON TESA Height Gauges	MAGNA 700		SWITZERLAND
	2.5 Coordinate Detector		1	CHINA
	Roughness Meter, Needle gauge, Geight Gauge, Micrometers, Calipers, etc.		1	JAPAN

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Development of EternalModel

Building Tomorrow's Solutions Today

EternalModel has always been committed to innovation, quality, efficiency and customer satisfaction, as well as adapting and evolving to respond to changing circumstances. With the increasing complexity of most products, we have been optimizing technology, increasing automation rate, and reducing production cost to meet future customer needs

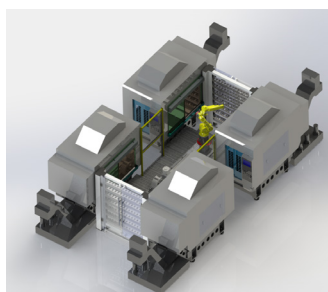
Construction of Digital Workshop

We have always focused on the construction of digital workshops. According to our more than 20 years of experience in machining processes, we will implement the latest ERP and MES systems in the new factory building in Huizhou.

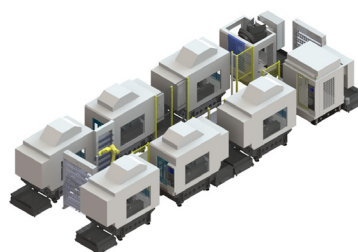
The development of a digital workshop will involve a focus on leveraging digital technologies to improve efficiency, precision, and quality, as well as a commitment to ongoing innovation and improvement to stay ahead of the curve in a rapidly evolving technological landscape.

Increase in Automation Rate

Automation is important for EternalModel because it can improve efficiency, safety, cost savings, scalability, quality, and data collection and analysis in a variety of industries and applications. By automating tasks that are repetitive, dangerous, or inefficient, companies can free up human resources to focus on more strategic and value-added activities, leading to greater overall success and competitiveness.







Automation Line #1 at Shenzhen HQ



Automation Line #2 at Shenzhen HQ

Equipment Investment

Planned Ordered Equipment 2023

Brand	Machines/Software	Model/Specification	QTY	ORIGIN	Estimated arrival time
	Brother 5-axis CNC Machine	M200X3	15	JAPAN	2023-2024
	Matsuura 5-axis CNC Machine	MX330/MX520	10	JAPAN	2023-2026
	GOM 3D SCANNING	GOM SCAN 1	1	GERMANY	2023-2024
	Zeiss CMM	Contura 7/10/6	1	GERMANY	2023-2024

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EternalModel®

LET'S DO THE BEST FOR YOUR DESIGN!



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