

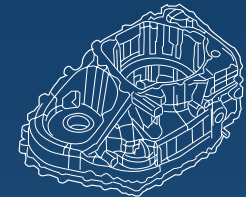


JINYOUNG PROTO co., ltd.

WE CAST YOUR DREAMS

precision prototype

PRECISION PROTOTYPE



WOODEN PATTERN
GRAVITY CASTING
SAND CASTING
PRECISION MACHINING
3D MEASUREMENT





The Moment of Truth

Everytime a cast comes out of the mold, the cast itself is the proof of how competent we are. We have done so-called “difficult jobs” and honed our techniques so far. We can make whatever you want! But that doesn't mean we skip something. We check EVERYTHING!



C.E.O. MESSAGE

Under the slogan of "Absolute Premium Quality & Value Creation", Jin Young Proto was founded to provide our customers with the prototypes that are superior to the mass produced. Combining art and technology, Jin Young Proto has acquired unparalleled craftsmanship in wooden pattern and cast products and is willing to contribute to helping the industry grow bigger and better. Jin Young Proto will never cease to amaze you with the state of the art quality products which are the results of our constant R&D and insatiable passion.

C.E.O. Sung-Chul Kim

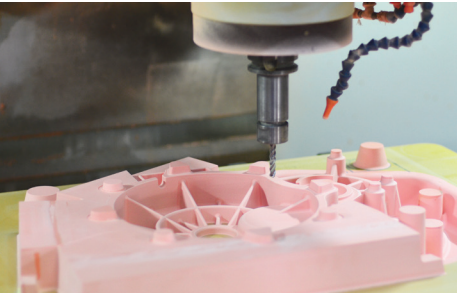
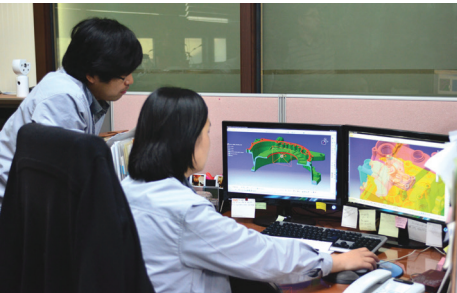
WE ALWAYS CHECK

- SCAB _____
- WASH _____
- CRACK _____
- CAVITY _____
- BUCKLE _____
- OVERFLOW _____
- SHRINKAGE _____
- BLOW-HOLE _____
- SEGREGATION _____
- DEFORMATION _____

EVERYTHING

FORMULA OF PROTOTYPE

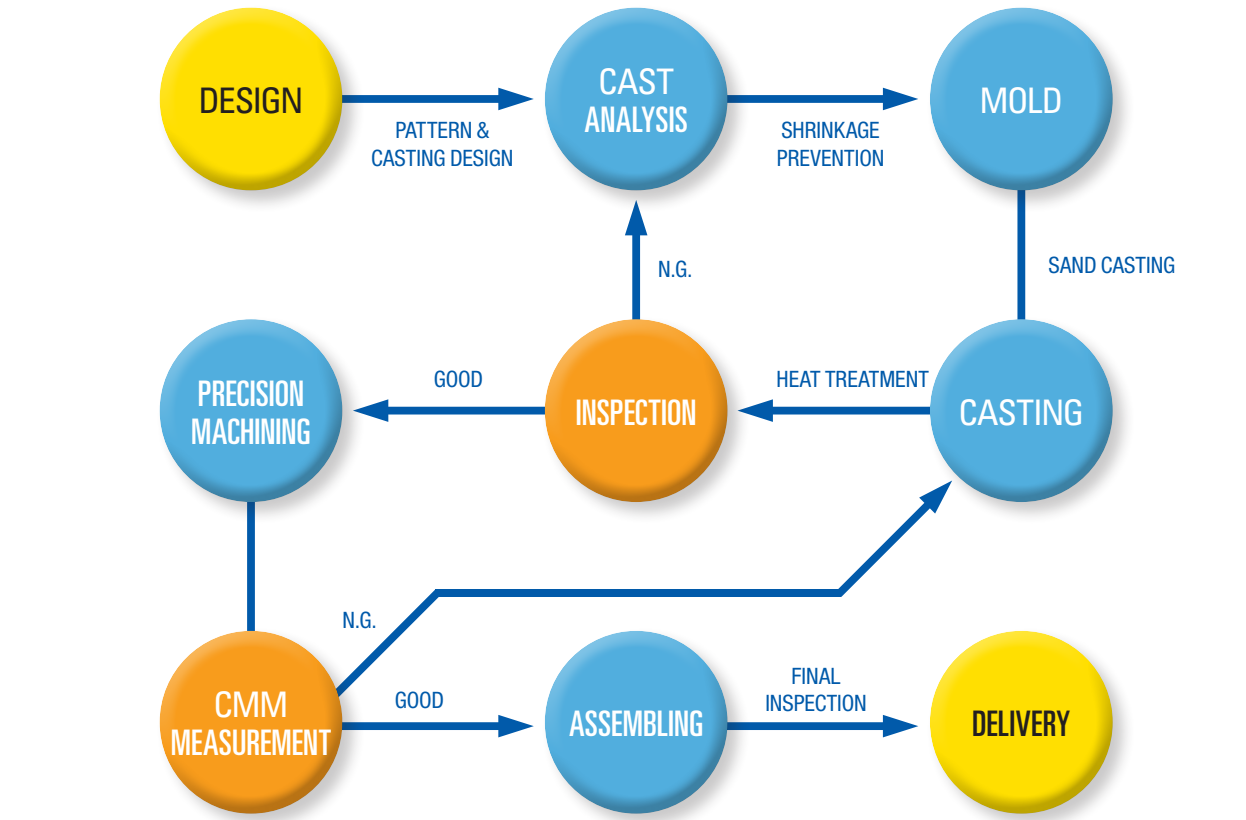
MANIFOLD
Level of Difficulty
★★★★★
22 CORES



FEATURES WHAT WE CAN DO BETTER THAN OTHERS

- IN-HOUSE PRODUCTION SYSTEM
With the full in-house production system, we do all the work from designing to post-processing on the premises. If a problem ever occurs, we can correct them quickly and efficiently.
- LOW COST
Our molds are made of sand, which makes our process cost-effective and soft. It is easy to modify the design. Our system is suitable for pilot products or small quantity batch production.
- HIGH QUALITY
We provide high-end products that can be put into use right away. You can realize the full functionality that you have had in mind from the start. What you dream becomes reality with us.
- QUICK DELIVERY
We can deliver your product faster than any other competitors in the market. Our capability minimizes your loss and keeps you focused on your R&D projects at all times.

OUR ONE-STOP PROCESS

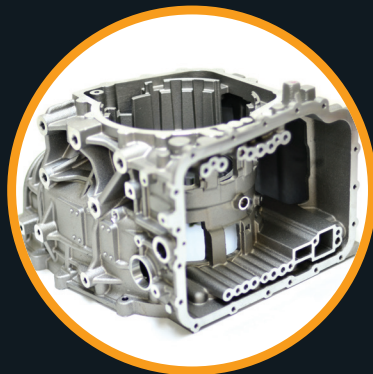
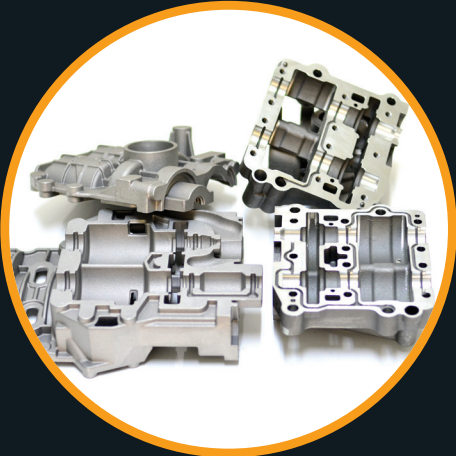
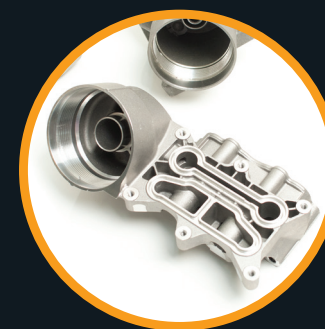
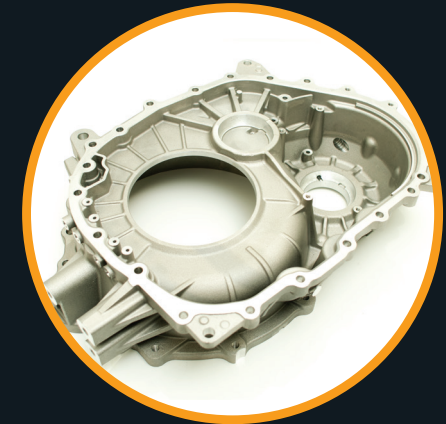
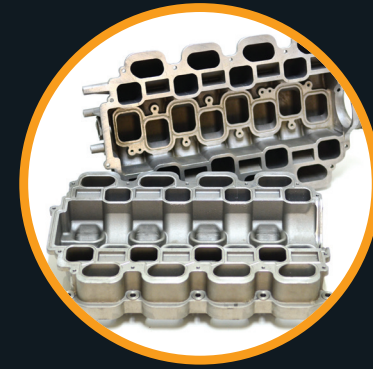
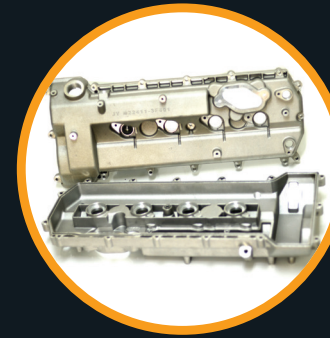
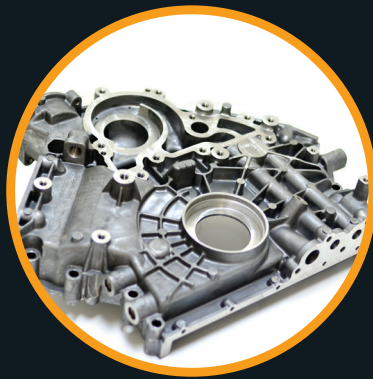


EQUIPMENT LIST

CATEGORY	MACHINE	MAKE	MODEL	Q'TY	CATEGORY	MACHINE	MAKE	MODEL	Q'TY
PATTERN	V-MCT	DOOSAN	NR-700	3	MACHINING	5-AXIS	MAZAK	i-700	1
PATTERN	V-MCT	YS	1,200	1	MACHINING	4-AXIS	MAKINO	A61NX	1
PATTERN	V-MCT	KAFO	BMC3116	1	MACHINING	4-AXIS	MAZAK	NEXUS 4000-III	1
CASTING	FURNACE	JUNGEUN	700kg	1	MACHINING	4-AXIS	WIA	63G	1
CASTING	FURNACE	JUNGEUN	400kg	1	MACHINING	4-AXIS	WIA	50G	3
CASTING	SAND MIXER	DM	5L/sec	2	MACHINING	3-AXIS	WIA	KF5600	2
CASTING	RECLAIMER	HKC	5ton/hr	1	MACHINING	3-AXIS	WIA	KF760BM	1
CASTING	HOT CHAMBER QUENCHING	JUNGEUN	1m³	1	MACHINING	3-AXIS	DOOSAN	Mynx	2
CASTING	HOT CHAMBER AGING	JUNGEUN	1m³	1	QA	CMM	ZEISS	CONTURA G2	2
CASTING	SHOT BLAST	DONGYANG	20HP	2	QA	CMM	MITUTOYO	CRYS-TA-Apex S122010	1
CASTING	CORE BLOWER	JYP	500kg/hr	3	QA	3D SCANNER	ZEISS	COMET L3D	1
MACHINING	5-AXIS	MAKINO	D500	1	QA	SHAPE /ROUGHNESS TESTER	MITUTOYO	SV-C3200	1

SAND-CAST PROTOTYPE

- We provide samples for renowned automobile companies and mechanical parts research institutes all around the world.
- We specialize in sand-casting complex and difficult parts that can not usually be achieved by our competitors.
- Our engineers have decades of experiences and top notch techniques. We give you value by improving the function and performance of your products.



HIGH PRECISION SAND CASTING

- We do the 3D modeling process first, make molds with the CNC machine and then cast the prototype.
- We can undertake difficult projects with multi core molds. We have RP machines that irradiate LASER on the sand coated with phenol resin.
- Our product line-up includes various parts for hybrid cars, hydrogen cars, electric cars, dental equipment and diagnostic medical equipment.

CEASELESS INNOVATIONS

● We have exerted our efforts to lower the defect rate in the last decade through constant and ceaseless innovations. We deliver the products not only perfect in dimensions but also perfect in designed functions.

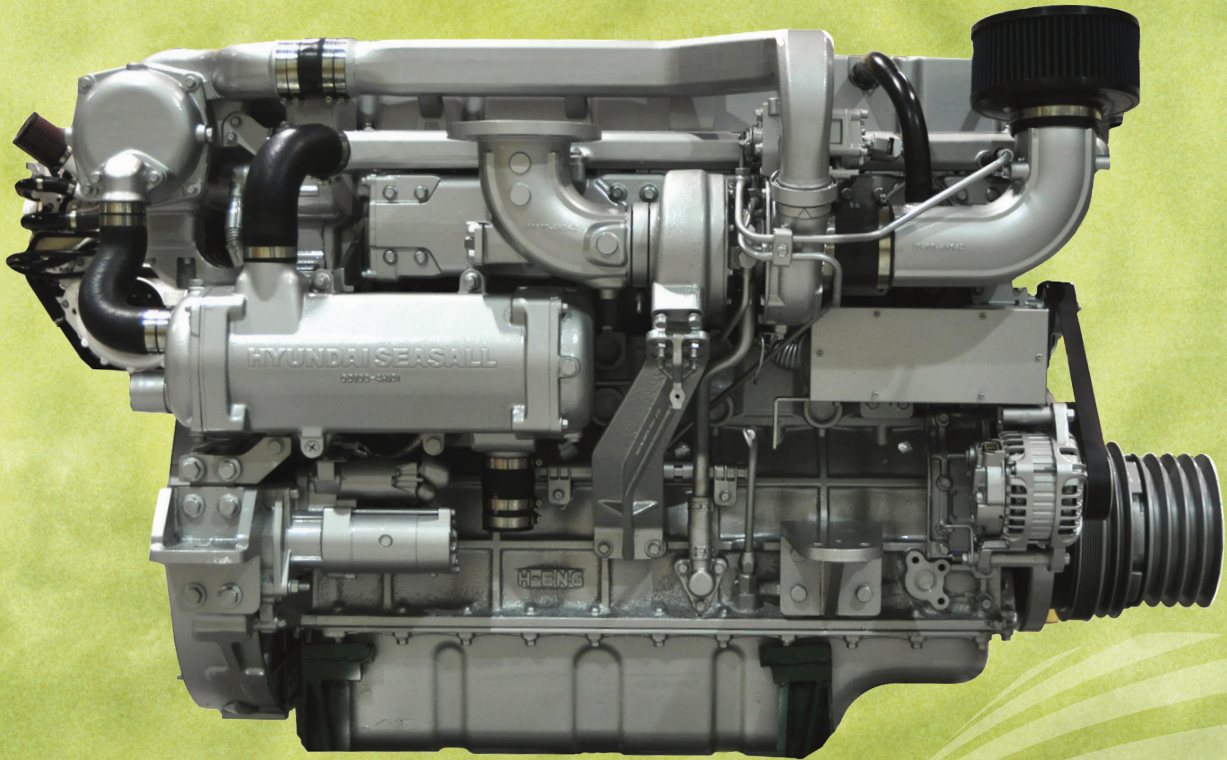
WE CAST YOUR DREAMS

● When our dreams come true, we end up living in an advanced, more comfortable and developed world. We owe our current life style to the pioneers who would never stop at any risk.

We are always on the side of those pioneers who make our dreams reality. Your imagination can take form and shape with Jin Young Proto co., Ltd.

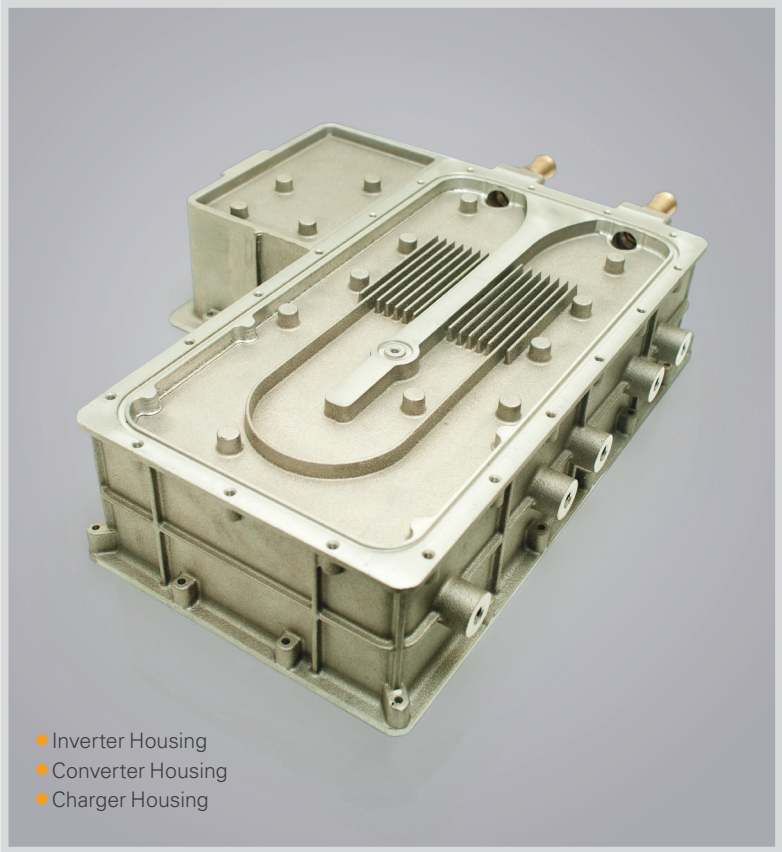


we
CAST
Your
Dreams



Marine Engine

PRODUCT LINE-UP



- Inverter Housing
- Converter Housing
- Charger Housing



AVERAGE LEAD TIME

01	02	03
04	05	06
07	08	09
10	11	12

01_12 days
02_15 days
03_25 days give or take
04_12 days
05_30 days
06_20 days
07_15 days
08_22 days
09_20 days give or take
10_21 days give or take
11_33 days
12_17 days give or take

AUTO PARTS

● Transmission Case, Water Pump, Oil Pump, Converter Housing, Engine Block, Intake Manifold, Exhaust Manifold, Hybrid-Car Parts, Electric-Car Parts, Hydrogen-Car Parts, Balance Shaft Carrier, Cylinder Head, Gearbox, Pinion Housing, Rack Housing, MDPS, Working Mock-Up

SMALL QUANTITY BATCH PRODUCTION

● Blower Pump, Medical Equipment, CT, DR, Semiconductor Equipment, Marine Engine Parts, Aircraft Parts, Railroad Vehicle Parts, Communication Equipment Parts, Custom-made Parts

ETC.

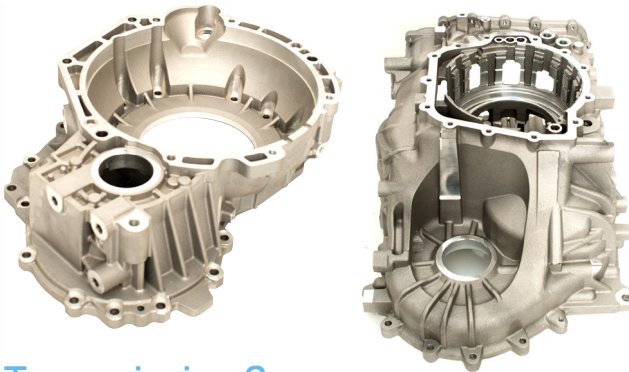
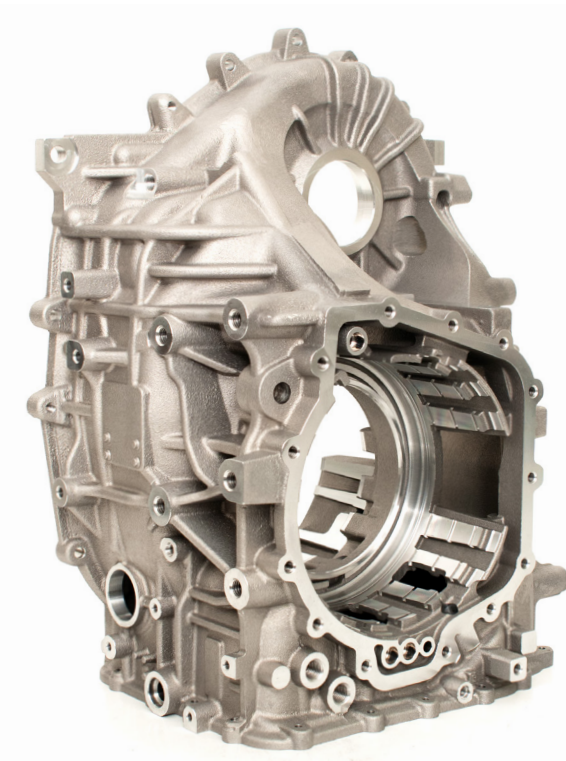
● Wooden Pattern, Mock-Up, Resin Pattern, Cell Pattern, Gravity Casting, Sand Casting, MCT



Power Train Parts

Highest Precision Parts

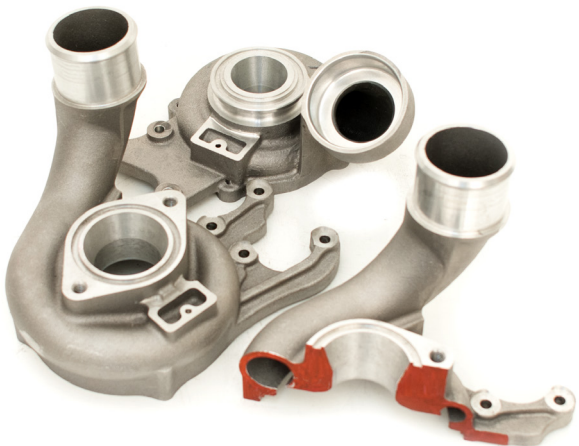
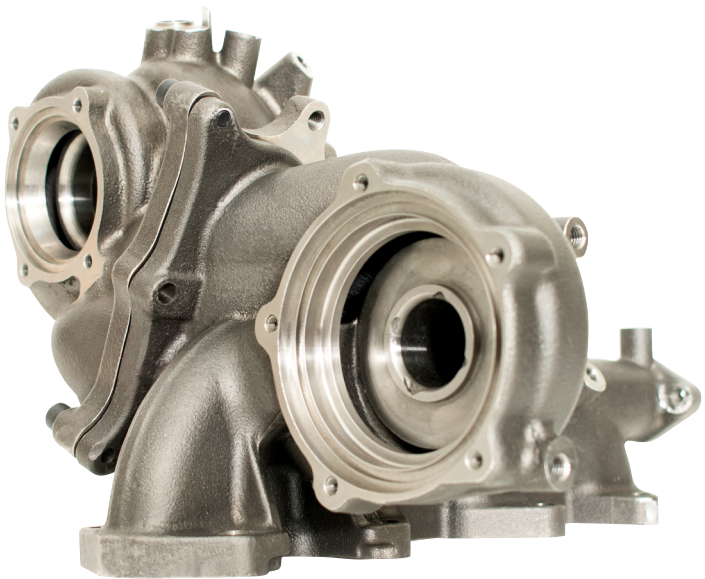
JY PROTO has been producing the most difficult parts.



Transmission Cases

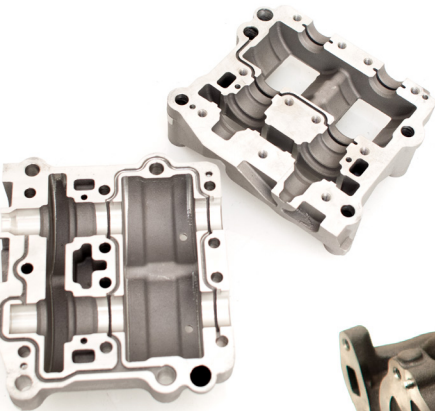
High precision is required for transmission cases, for it is a highly complicated part as well as a system of systems. Hydraulic system, electronic system, and mechanical system is integrated at the same time for the transmission to be able to function properly. The current projects with JY PROTO is 8-speed DCT and 10-speed DCT.

We are proud to tell you that we have been a reliable and trustworthy partner for the top class automobile makers of the world.



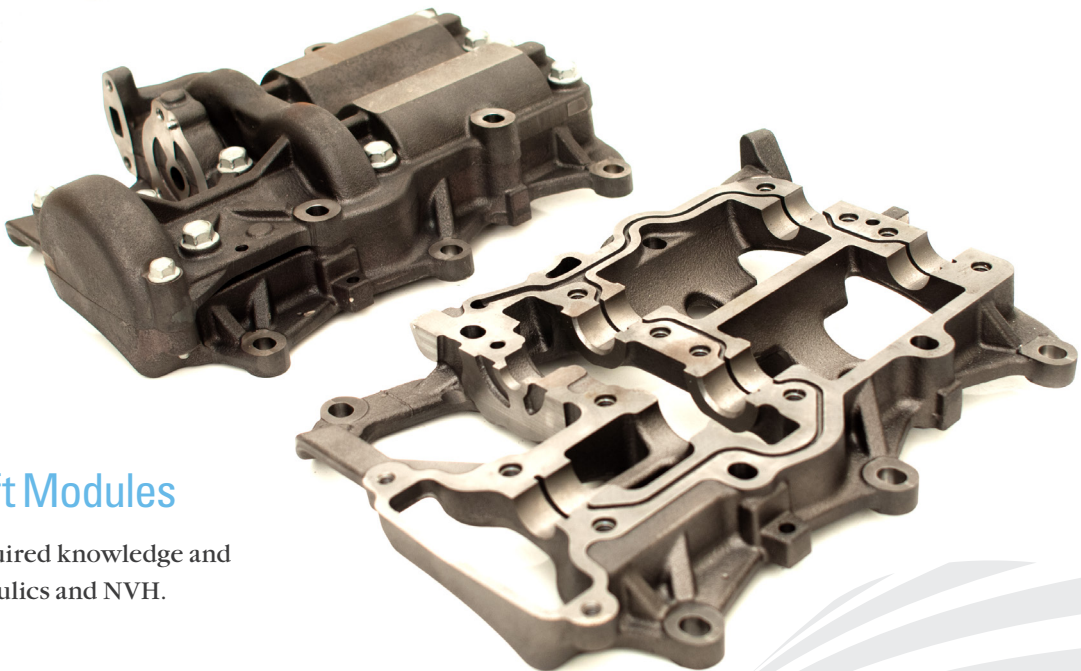
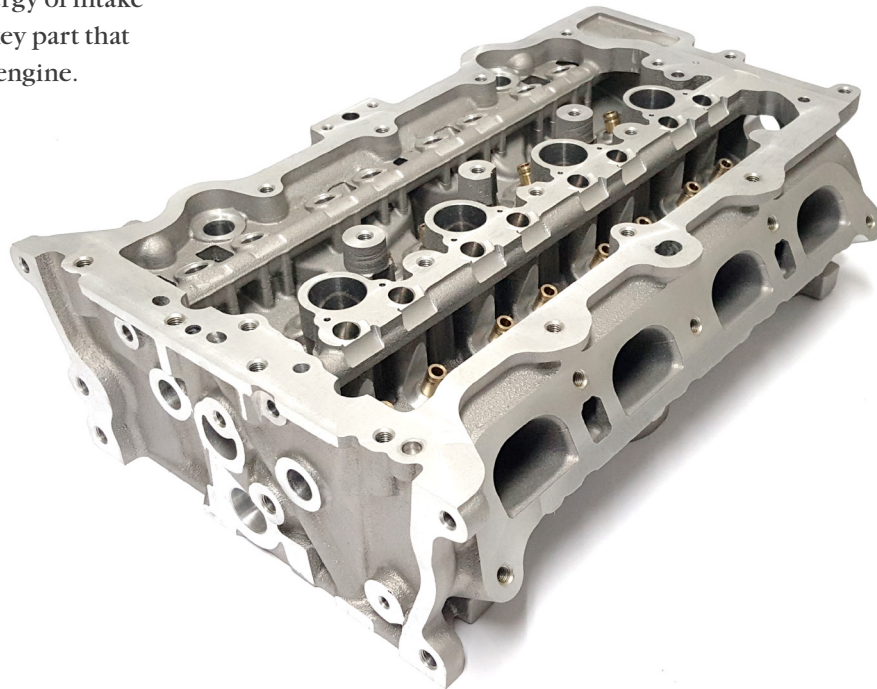
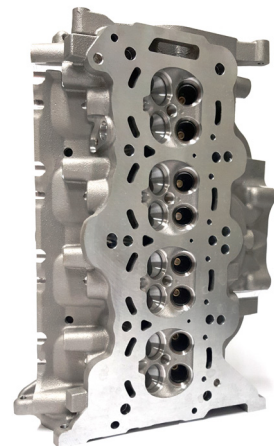
Turbochargers

Nowadays, the turbine housing is made of high-temperature material such as D5S or nickel alloy. Dual Turbocharge is often required for the purpose of performance and it is so-called "state of the art."



Cylinder Heads

Making use of the dynamic energy of intake air flow, cylinder heads are the key part that decides the performance of the engine.



Balance Shaft Modules

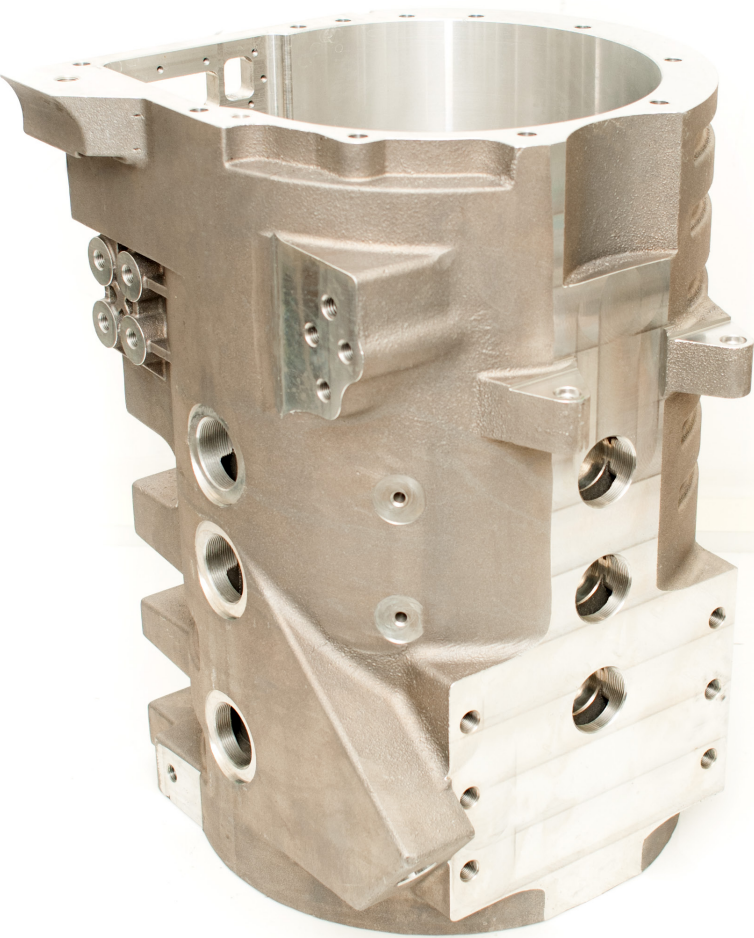
JY PROTO has acquired knowledge and experience in hydarulics and NVH.



Electric Vehicle Parts

Green Car Parts

JY PROTO is capable of producing urgent and important prototype manufacturing, which often occurs in the process of R&D process of the top-class technology companies.



Cooling Fins



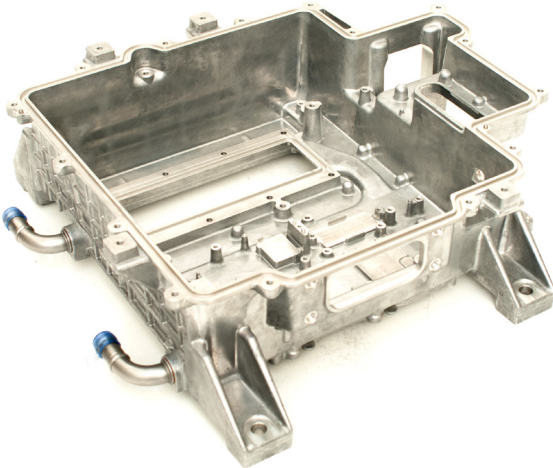
Fuel Cell Housing

Electric Motor Housing with Cooling Channels

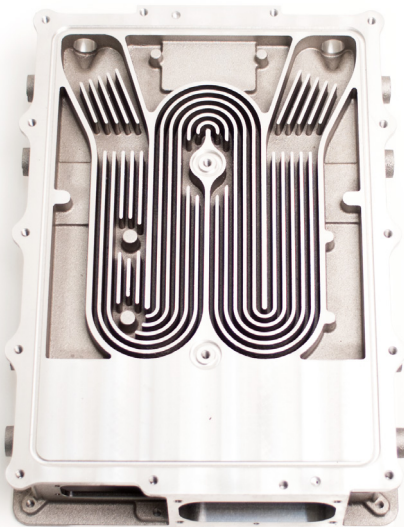
As the need for fast, powerful and reliable electric vehicles is rising continuously, the solution for cooling is also getting more and more important. Forced air cooling has its limits, because the overall heat transfer coefficient can not be increased dramatically over a certain point. Our predecessors invented a way out of this problem by forcing water to flow over the surface of the heat generating elements. But if you want to cast a case with internal coolant passages, you have to cast a case inside a case simultaneously. JY PROTO has its edge in making difficult casts in a very short period of time. We can deliver it in half the time, with higher quality and at lower cost than our competitors.



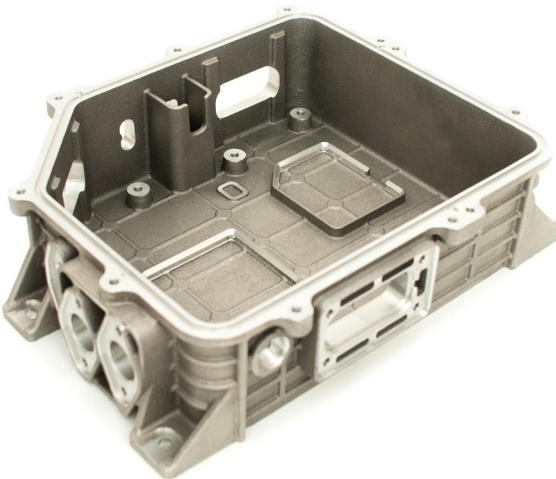
Inverter Housing



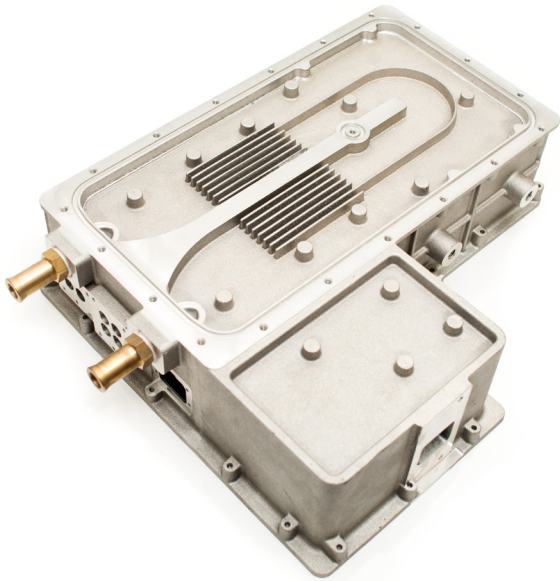
EPCU Housing



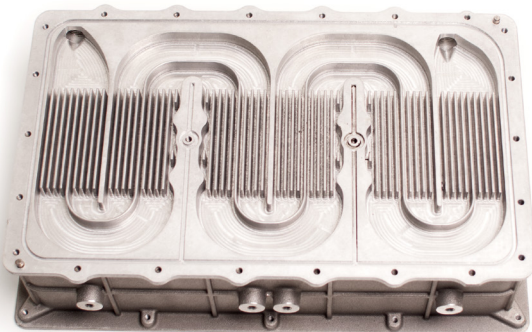
EPCU Housing



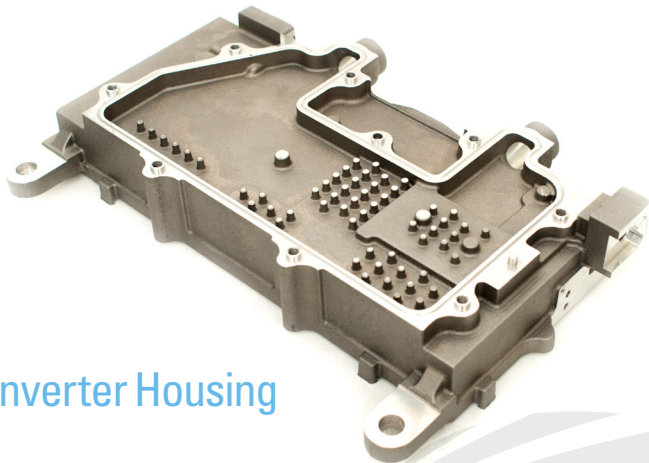
EPCU Housing



Inverter Housing (Fin Side)



Inverter Housing



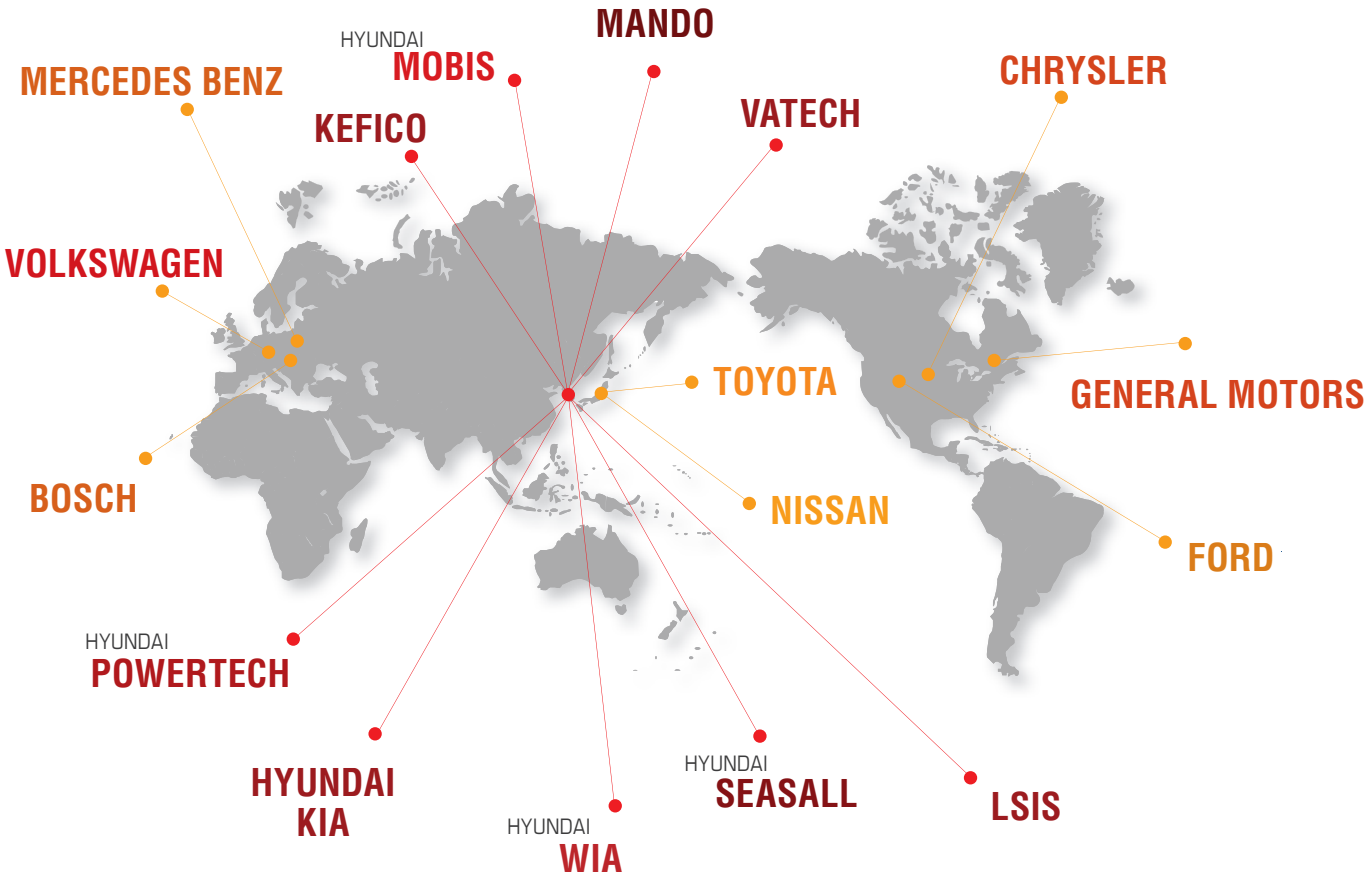
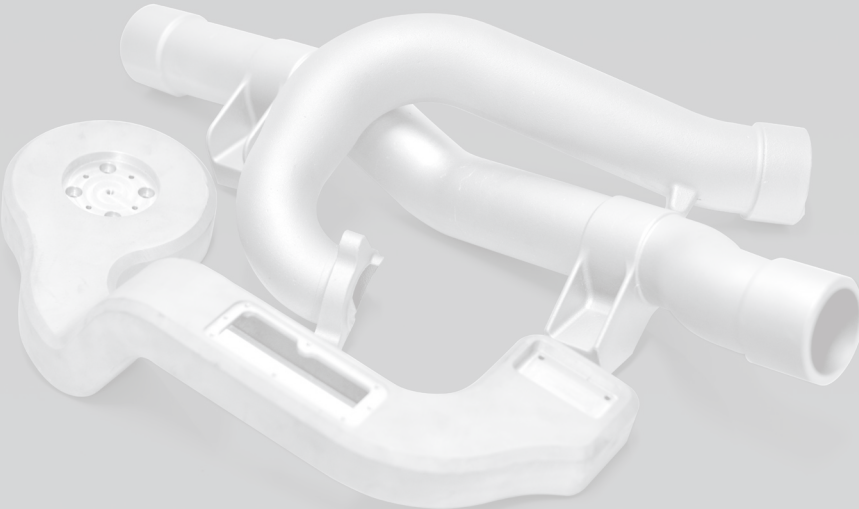
Inverter Housing

JIN YOUNG PROTO co., Ltd.

• Jin Young Proto has grown up doing all the difficult molds in the last decade. Dual structured cast, multi-cored cast, minimum allowance cast. With all the technological superiority, we know how to solve the problems you may have.

GOING WORLD-WIDE

• With all the technology and reputation beneath our wings, we are flying high over the world. We will always do our best to bring a better future through the cooperation with world class corporations.



We Cast Your Dreams
DREAMERS'
PARTNER



JIN YOUNG PROTO Co., Ltd.

We design, develop and deliver

the parts for automobiles, ships, railroad cars, bikes, medical equipment and other industries in compliance with your orders. We have many renowned companies as our client all over the world, including Hyundai Motor Company that designated us as a preferred provider for precision cast parts.

We produce and deliver the most reliable parts to you with our ISO9001 certified in-line production system. Our experiences in the field and unique production system have earned and will continue to earn your trust.

● HISTORY OF JINYOUNG PROTO SINCE FOUNDATION

	● DATE	● HISTORY
	1999 Jan	FOUNDATION
	2005 Oct	ISO9001 Quality Management System
	2008 Jun	Enterprise with Bright Prospects by Government
	2011 Mar	R&D Center Established
	2011 Oct	Jin Young Proto co., Ltd. Incorporation
	2012 Jun	Certified as Specialist of Parts & Materials
	2014 Jan	ISO/TS16949 and ISO14001 Certified
	2014 Jul	Certified as Specialist of Root-Technology
	2018 Nov	FC Factory Constructed