

Navitas

Price Is What You Pay. Value Is What You Get.

Die Casting Dies

The Navitas logo, featuring the word "Navitas" in a blue, sans-serif font with a white underline, set against a dark blue background.

Navitas

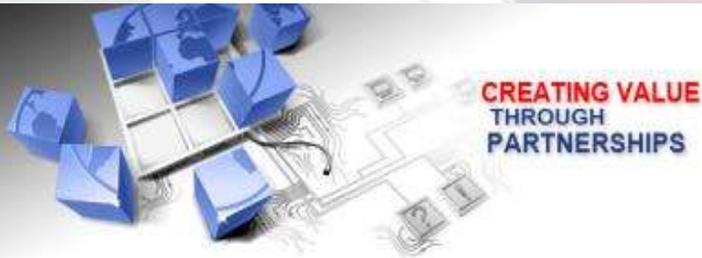


Navitas



- Full-service supplier in fabrication of high-quality and precision Die casting dies for Al and Mg parts
- Professional support in the design and construction of high-grade Die casting dies and parts at best costs
- Integrated capabilities in Die casting tool design, tool manufacturing, Die casting and final assembly, to help you to take your project from concept to realization

Navitas



CREATING VALUE
THROUGH
PARTNERSHIPS

Navitas 1st JV Factory

(Automotive Dies and Precision Dies)



- Established: 1999
- Certification: ISO9001:2008
- Factory area: 12,500m²
- Employees: 125
- Capacity : 250 Die casting dies/year
- 2-shift-operation (6 days per week)
- Location: Ningbo, China
- Die range in weight: 500T~ 9000T
- Focused on Automotive and Precision dies

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Navitas 2nd JV Factory

(Automotive Dies and Two-wheeler Dies)



- Established: 2003
- Certification: ISO9001:2008
- Factory area: 12,000m²
- Employees: 100
- Capacity: 200 Die casting dies/year
- 2-shift-operation (6 days per week)
- Location: Ningbo, China
- Die range in weight: 120T~ 3500T
- Main Capability: Automotive, Two-wheeler and Standard precision dies

Navitas



Design & Engineering



- Utilizing advanced CAD/CAM/CAE technologies, our professional engineers will transform your product ideas into reality
- Understanding customer requirements and specifications, we review your product design and conduct feasibility study report in order to communicate with you quickly and effectively and offer design optimization proposals
- The software we use includes UG, Pro/E, AutoCAD, Solid Works, Pro-Mill, Flow 3D and Any-Casting

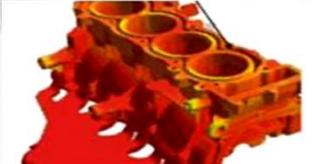
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Die 2D Design



Die 3D Design



CAE

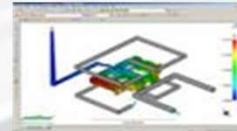
Die Development Process

TOOL IDEAS

- RFQ
- Product type
- Material type
- Lifetime
- Production volume
- Cavity
- Moulding place
- Cycle time

PHASE 0 PROJECT INITIATION

Concept idea
Feasibility study
Cost targets
Quotation



PHASE 1 CONCEPT DEFINITION

Project start
Tool design
Product analysis
2D/3D drawings



PHASE 2 DEVELOPMENT

Tool building
Milling/Wire-cut
CNC/EDM/Polish
Assembly

PHASE 3 VALIDATION

Tool trial & improve
Full dimension check
Tooling conditions
ISIR report



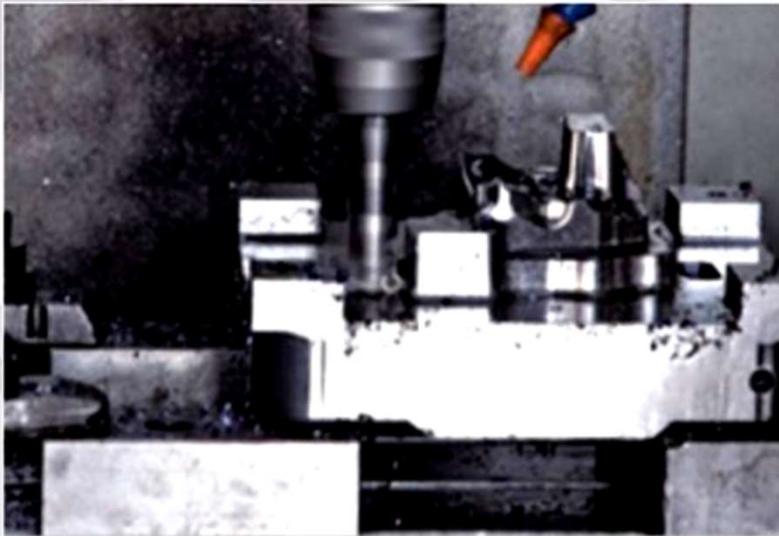
PHASE 4 PRODUCTION LAUNCH

Die casting
production

- CONTINUOUS IMPROVEMENTS
- TECHNICAL SUPPORT
- CUSTOMISED SERVICES

Die Manufacturing (A)

- Our skilled engineers and leading technology allow us to manufacture more accurate and effective Die casting dies, according to your specifications
- Navitas uses high grade steels from companies such as Daido, Assab (Uddeholm/Bohler), Finkl, Groditz or Thyssen



CNC Machining



Spark Erosion

Navitas



Die Workshop



CNC Machine Center



Depth Hole drilling



EDM

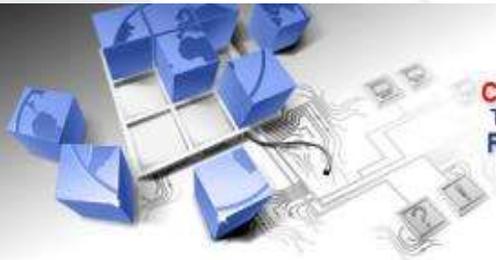


Spotting Machine



Wire Cut

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Die Workshop



DMG CNC Machine Center- Germany (3 SETS)

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Die Workshop



CNC Machine Center- (5 Axis, FANUC System)

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Die Sampling – Equipments (Inhouse)



280T & 400T & 500T & 800T



1000 & 1250 T



2000 T



2500T & 5000T

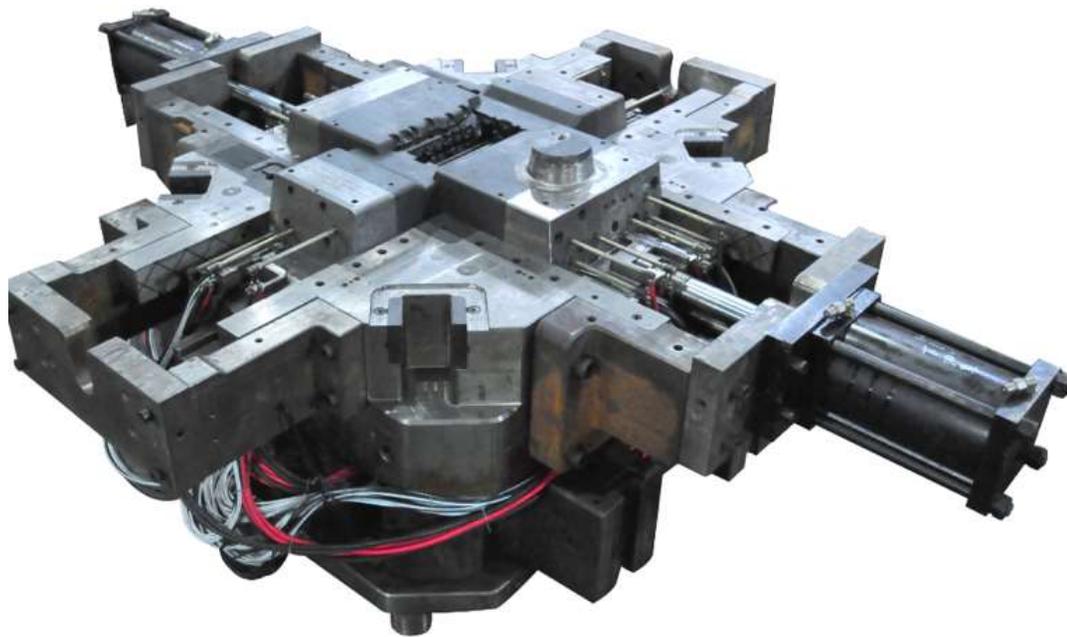
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Reference Dies

4 Cylinder Engine Block



- **1.0 Four Cylinder Engine Block**
- **1.4 Four Cylinder Engine Block**
- **1.6 Four Cylinder Engine Block**
- **1.8 Four Cylinder Engine Block**
- **2.0 Four Cylinder Engine Block**
- **2.4 Four Cylinder Engine Block**

Die size	3940*3815*1465 mm
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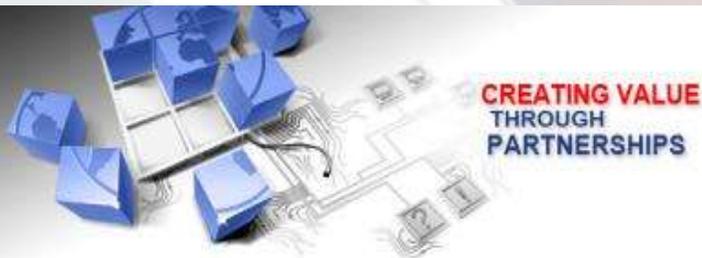
Die weight	29.8T
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Casting Machine Tonnage	2500T
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Casting Size	406*362*227 mm
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Casting Weight	16.47KG without bush
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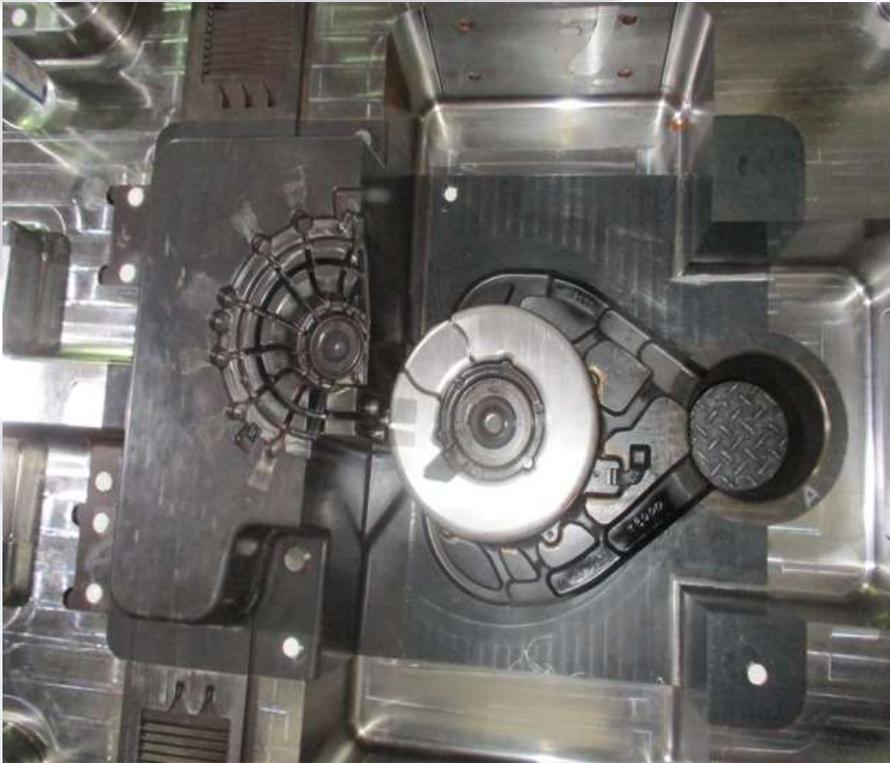
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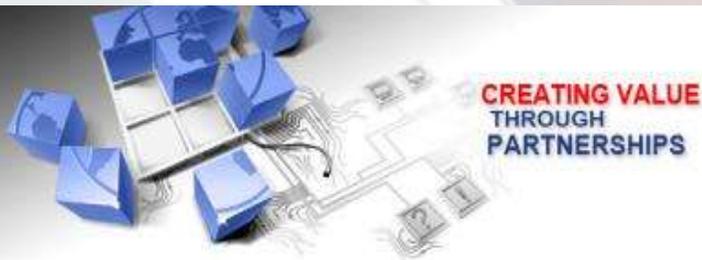
Die Reference

Housing For Electric Vehicle



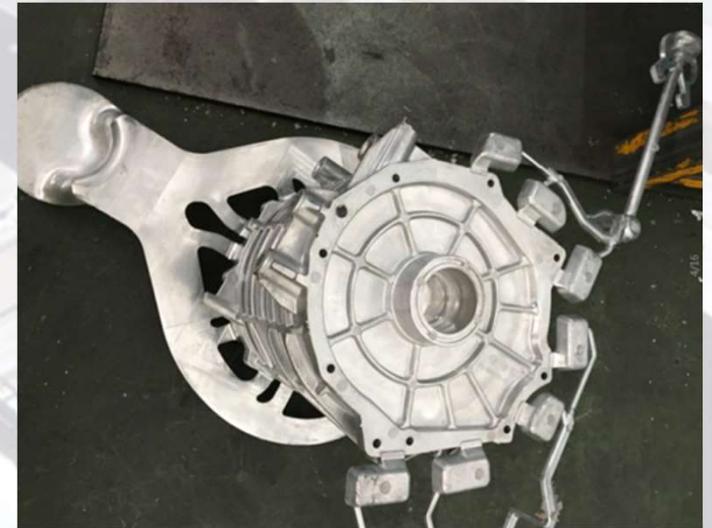
Die size	2850*2686*1535 mm
Die weight	15.4T
Casting Machine Tonnage	2500T
Casting Size	350*320*280 mm
Casting Weight	18.5KG

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Die Reference

Outer Case For Electric Vehicle



Die size 1195*1310*1208.5 mm

Die weight 14.68T

Casting Machine Tonnage 2000T

Casting Size 292.84*316.04*274.3mm

Casting Weight 7.71KG

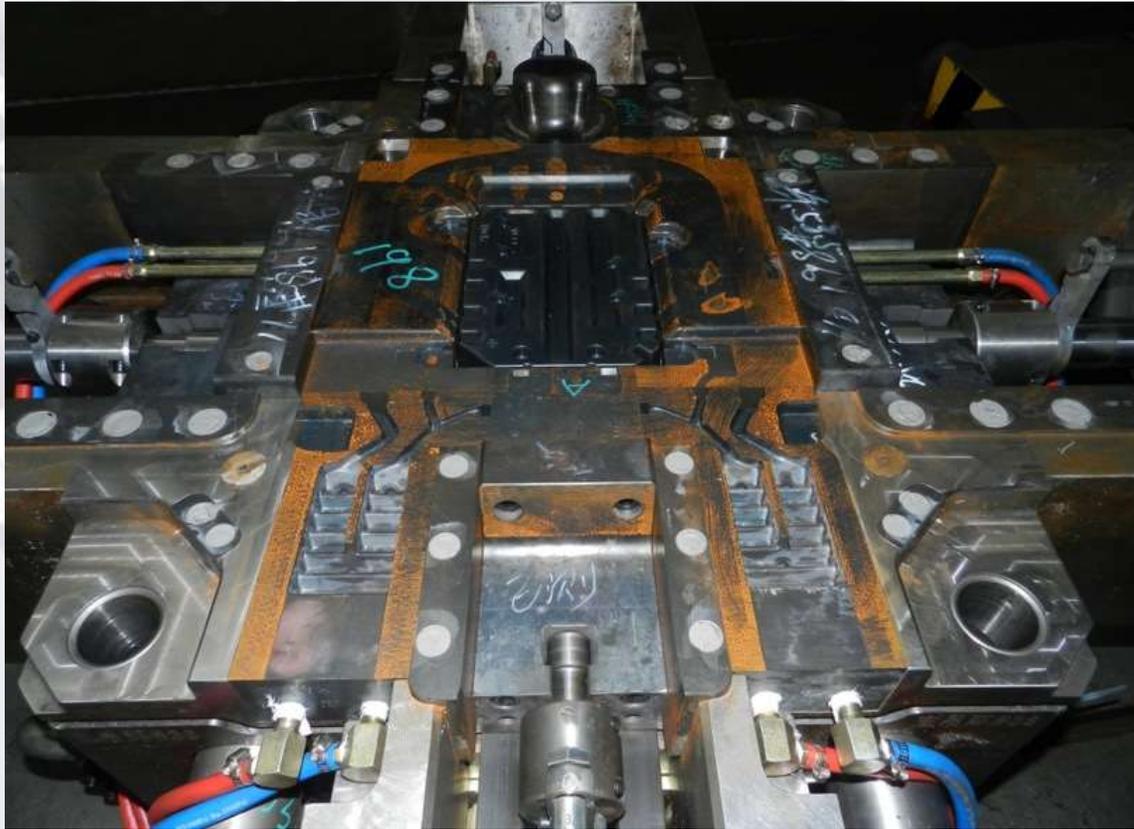
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Die Reference

Case For Electric Vehicle



Die size	800*835*755 mm
Die weight	3.47T
Casting Machine Tonnage	800T
Casting Size	227.9*236.8*76.8 mm
Casting Weight	1.08KG

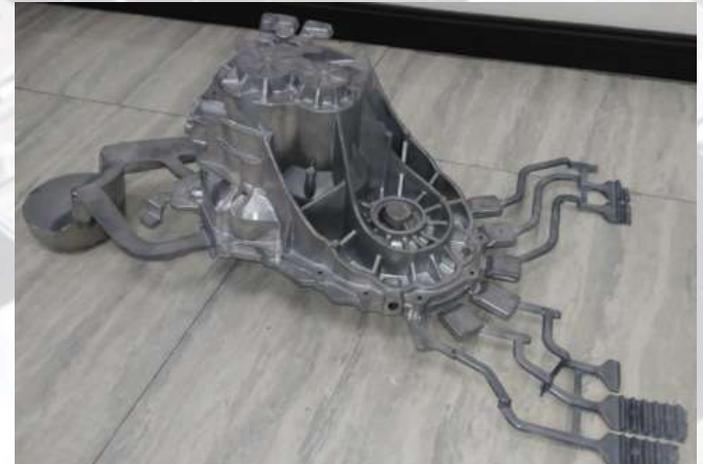
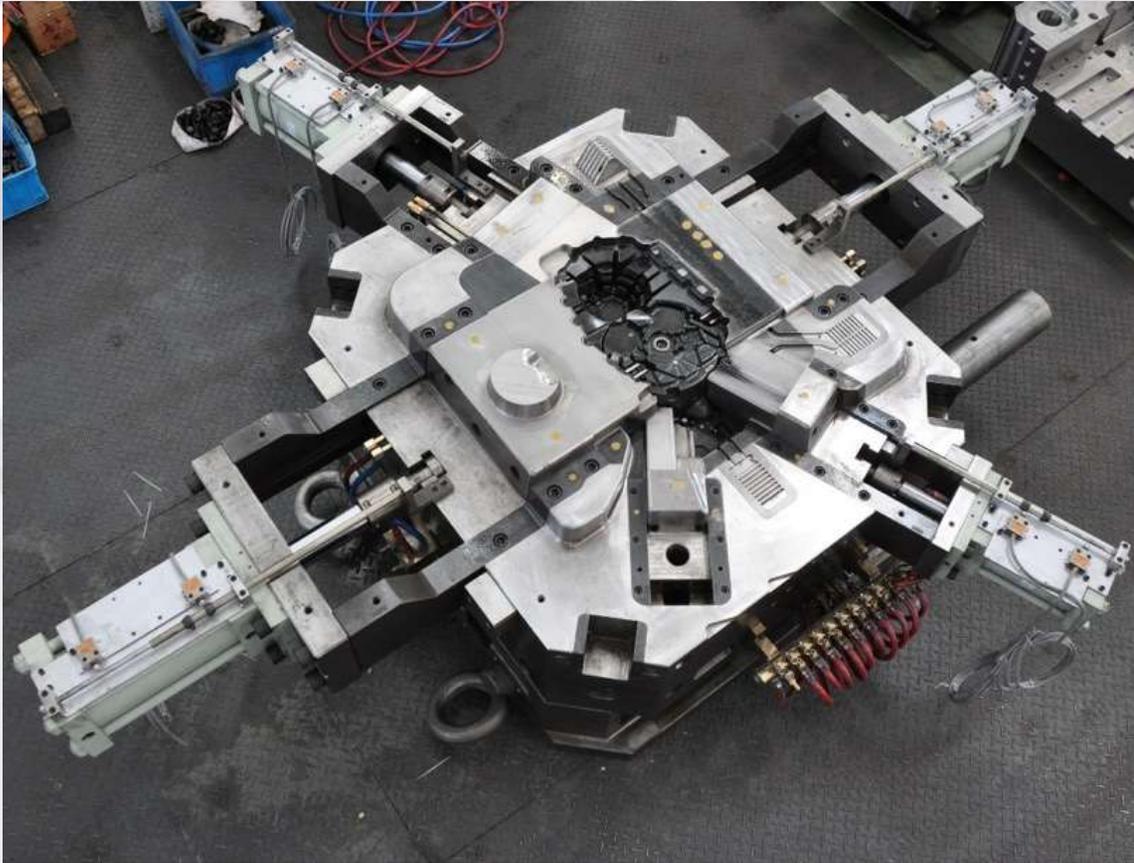
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Die Reference

Transmission Housing



Die size 2850*2686*1535 mm

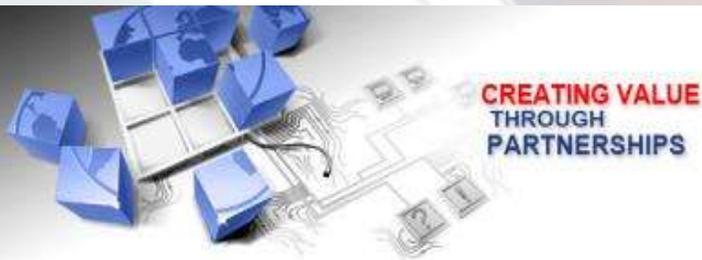
Die weight 15.4T

Casting Machine Tonnage 2500T

Casting Size 480*250*210 mm

Casting Weight 8.83KG

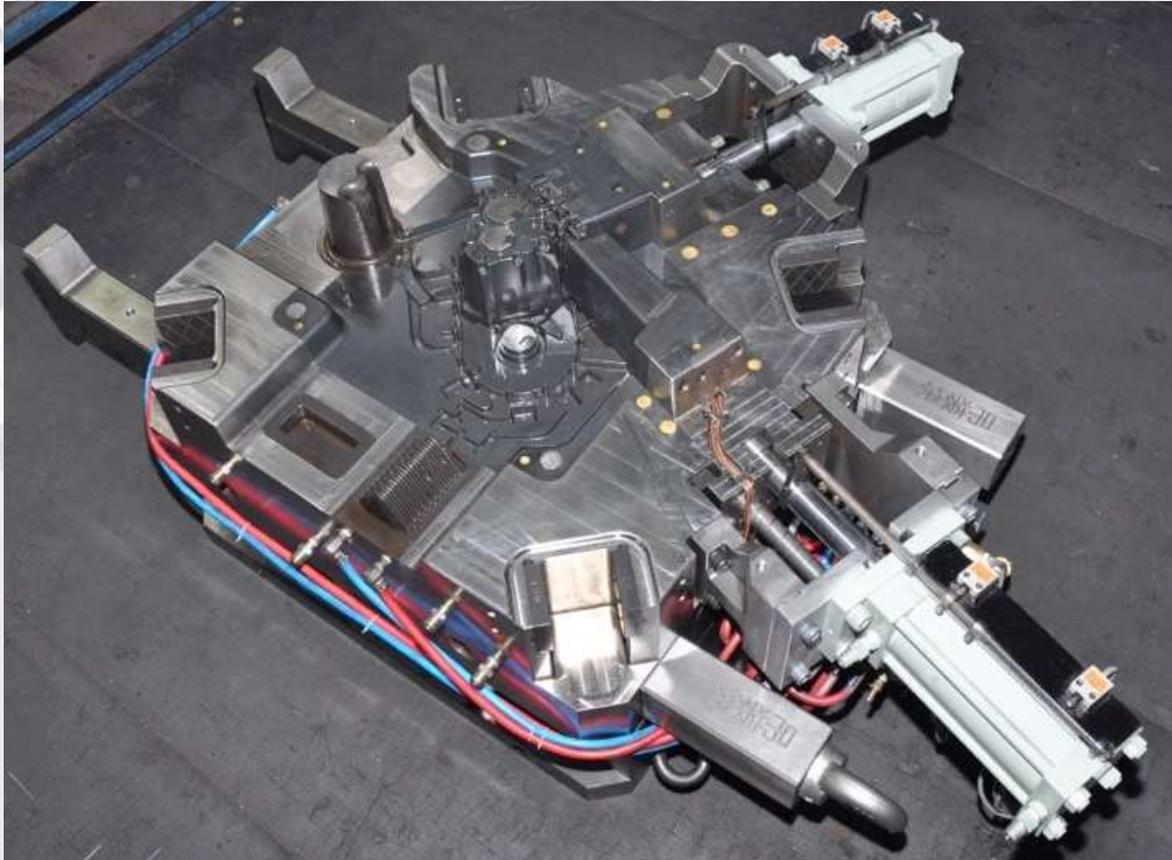
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Die Reference

Transmission Housing



Die size 2960*2870*1535 mm

Die weight 16.9T

Casting Machine Tonnage DCC2500T

Casting Size 460*370*230 mm

Casting Weight 8.75KG

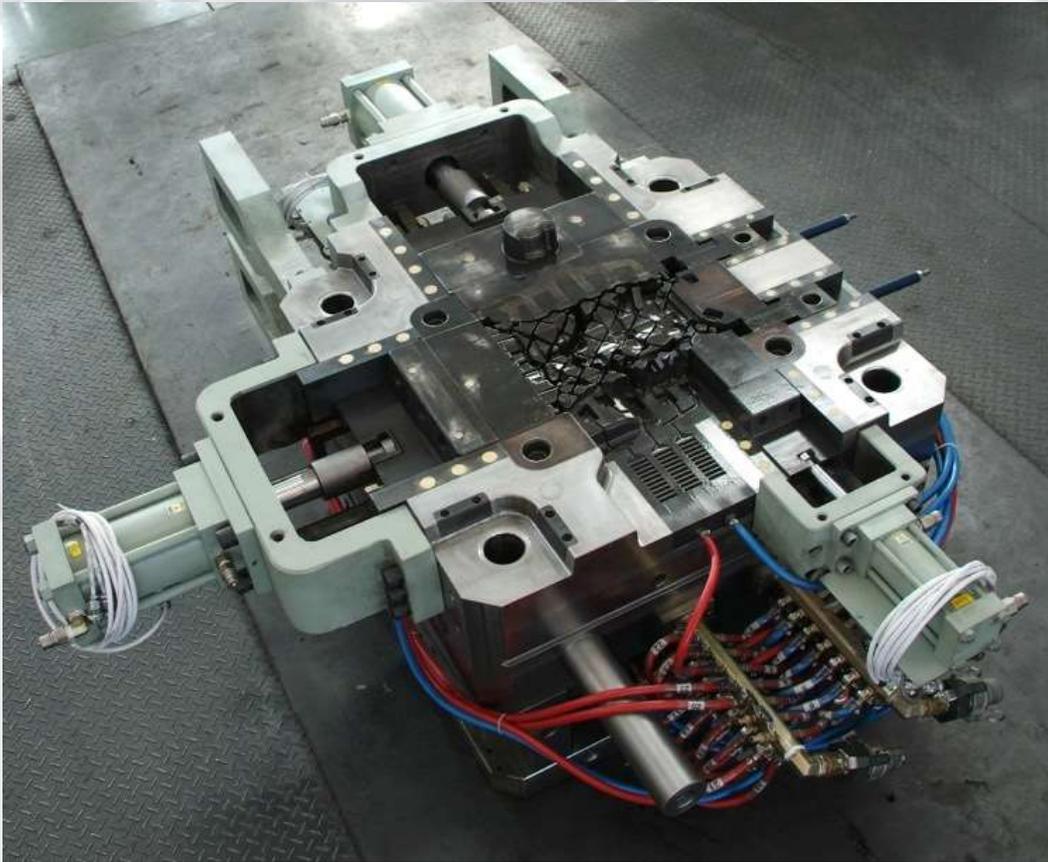
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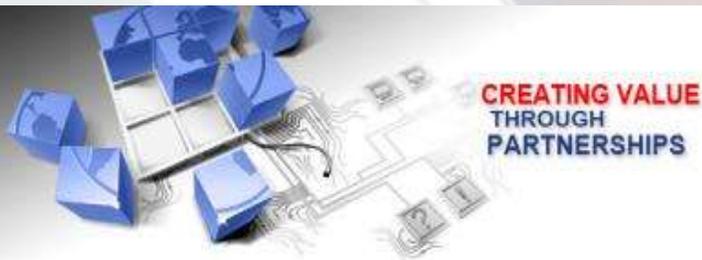
Die Reference

Oil Sump-Upper



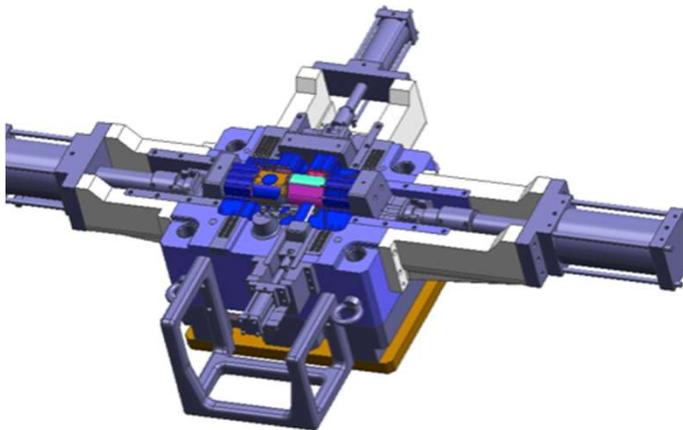
Die size	2190*1700*935 mm
Die weight	7.45T
Casting Machine Tonnage	DCC1250T/1600T
Casting Size	400*320*120 mm
Casting Weight	4.36KG

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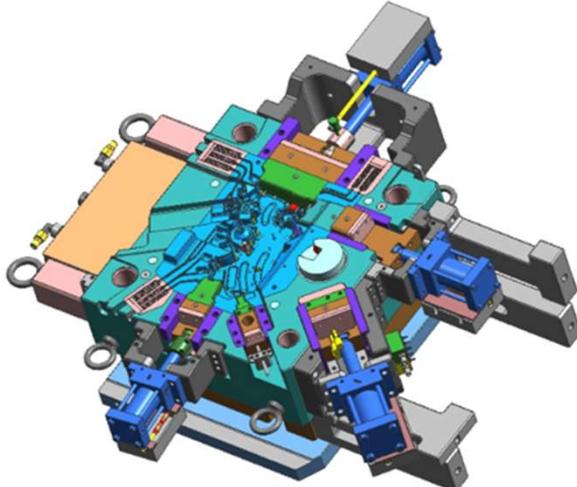


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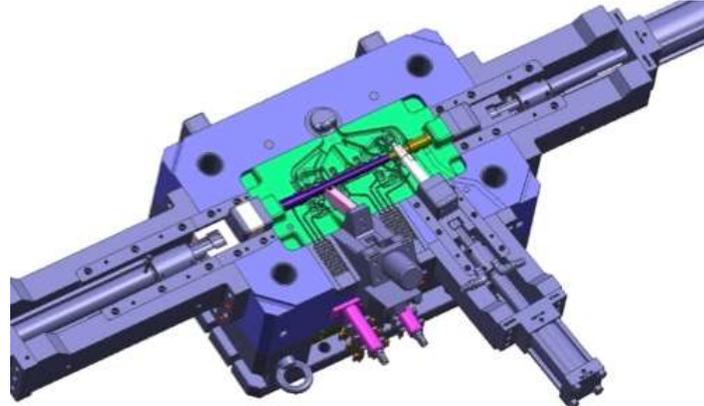
Die Drawings



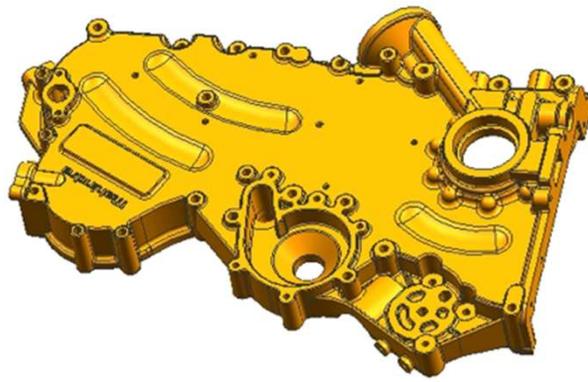
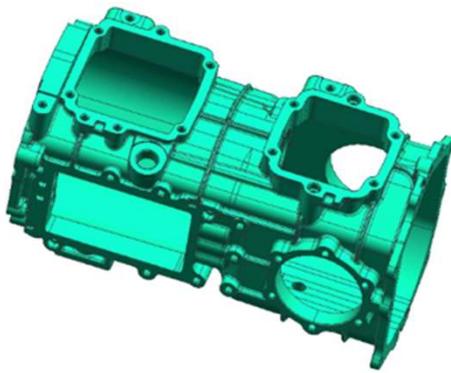
Transmission Housing



Pump Casing & Front Cover



Rack Housing



Product References

(Electric Vehicle)



Stator Casing



**Reverse Transmission
End Cover**



**Reverse Transmission
Front Cover**



Transmission Housing

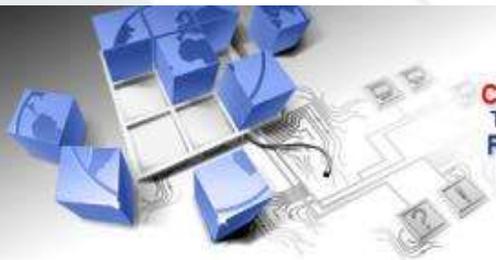


Rear Motor Case



Gear Case

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Product References

(Electric Vehicle)



Case



Outer Case



Cell Housing



Rear Case

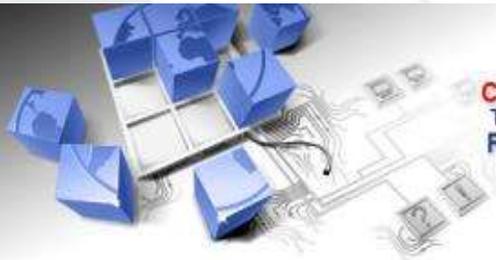


Photovoltaic
new energy



Cell Case

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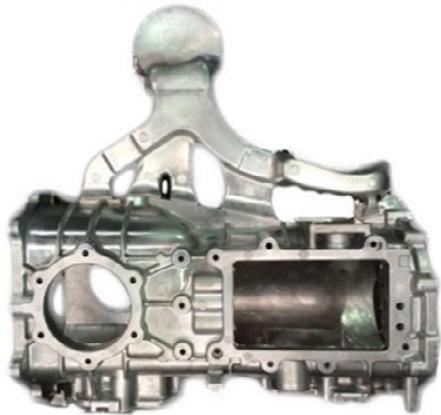
Product References

(Automotive parts)

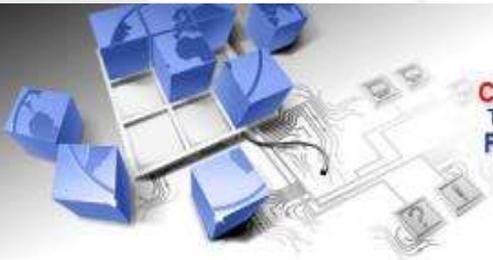


Product References

(Automotive parts)



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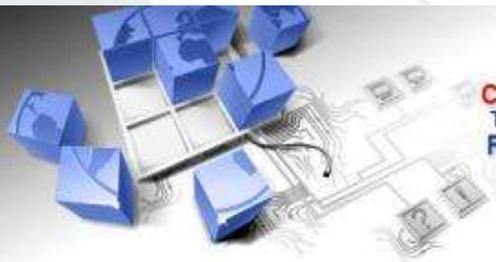
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Product References

(Automotive parts)



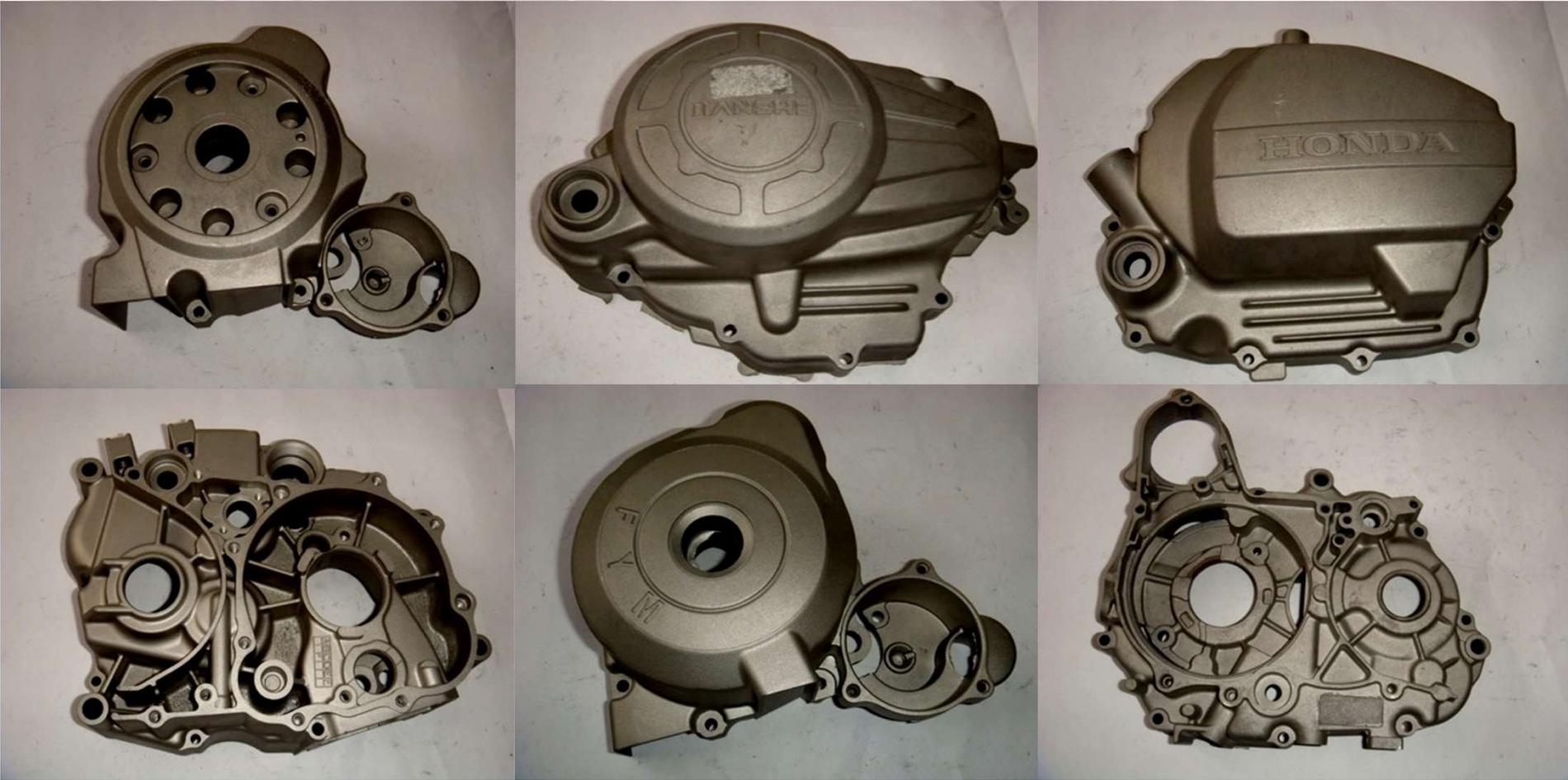
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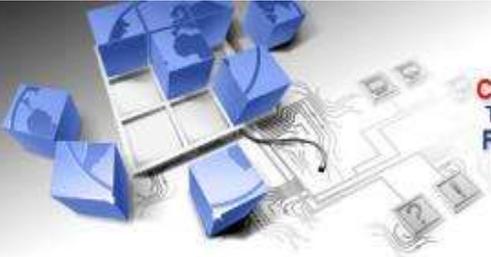
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Product References

(Two-wheeler parts)



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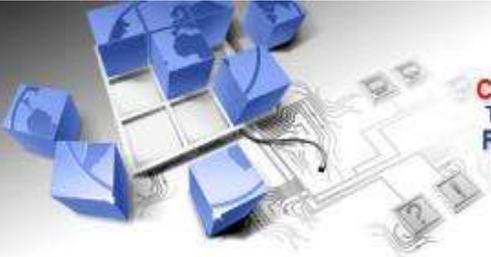
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Product References

(Two-wheeler parts)



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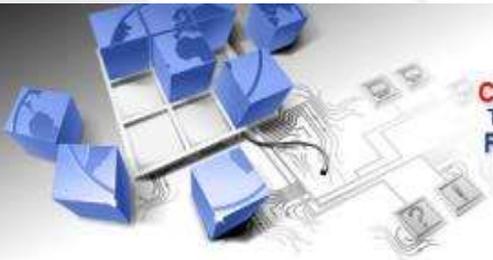
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Product References

(General Gasoline parts)



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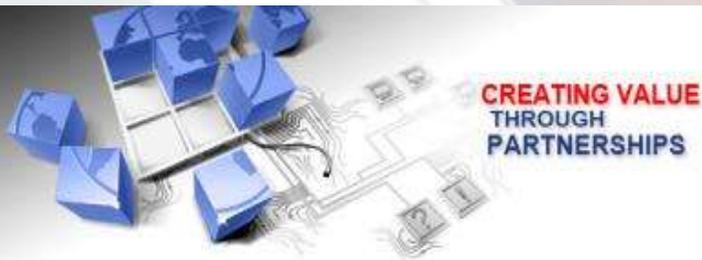
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Quality Assurance

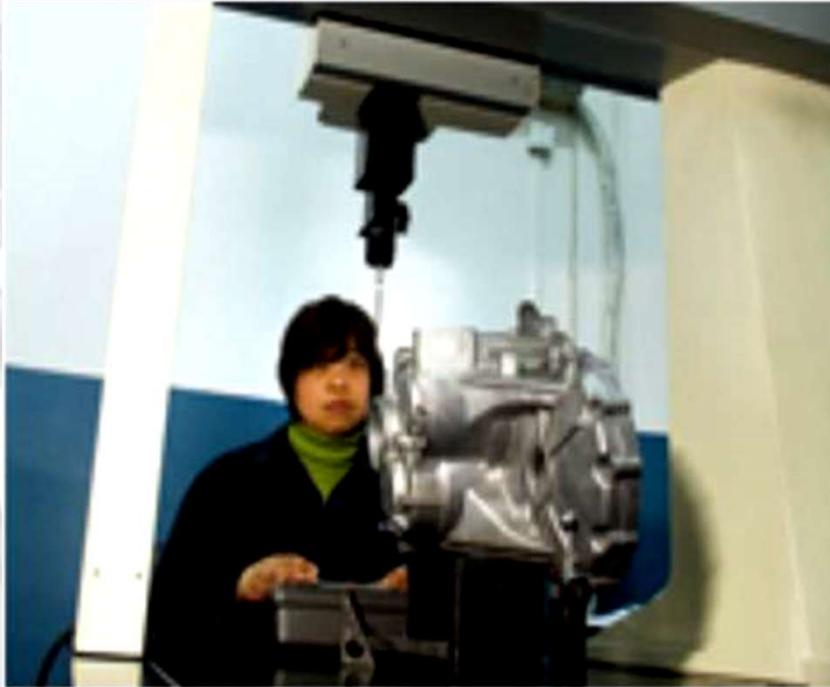


- ISO9001: 2008 certified
- Formal quality systems to manage the overall quality process
- Use precision measurement facilities by our well-trained team
- All tooling and parts produced at our facilities are constantly monitored by our Quality Assurance Department to meet your specifications including material, dimensional accuracy, surface finish, hardness, casting standard, inspection, and packaging
- Our quality systems are always center around our customers and our products

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Quality Assurance

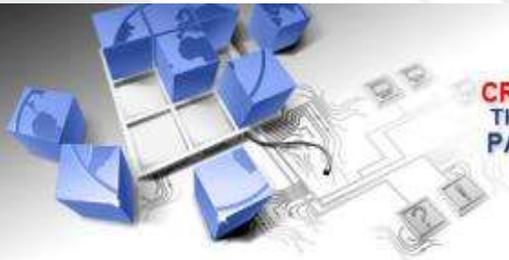


CMM-3D



3D Scanning

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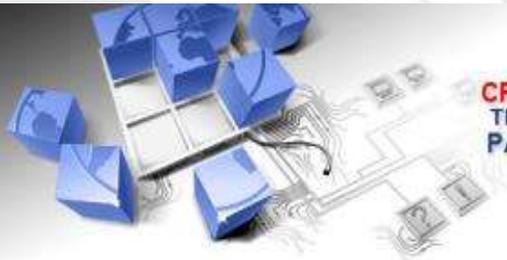
Quality Assurance



X Ray



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Zero Defect Policy

Eliminate
Bad Designs

Eliminate
Bad
Components

Eliminate
Bad
Manufacturing

Eliminate
Non-Conforming
Products



**ZERO
DEFECT**

Die Design
System

Use of Standard
Components

Advanced Equipments
& Skilled Engineers

Quality Assurance
System

Navitas

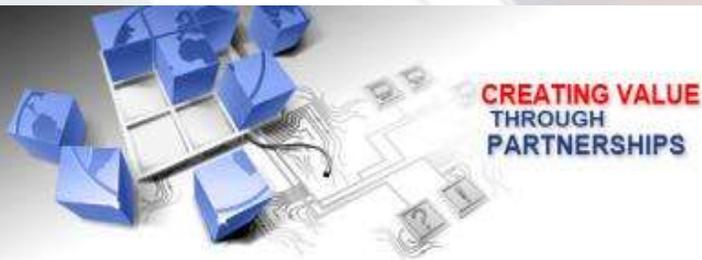


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Why Navitas?

We bring to you:

- **Customer-Centric approach.** Over twenty years of industry experience in the development of Tooling's and Parts for the finest European, American and Asian manufacturers.
- **Best Cost of ownership.** Performance track record for cost-reductions, not just "Unit Cost" but the "total cost of ownership".
- **Complete Solutions.** Navitas tools are fully optimized and made production-ready prior to shipment, in terms of workmanship, part-quality, and cycle time.
- **Local presence.** Navitas resident engineers are located close to customers in Europe, North America and Asia, with tie-ups to local Toolrooms for any necessary support.
- **Flexibility in supply base.** Work with subcontractors, if necessary, to take advantage of their expertise.
- **Operational Excellence:** Expert engineering and manufacturing team, professional project management with service-orientation.

The Navitas logo is displayed in white text on a dark blue rectangular background.

Navitas Network

Navitas - France
+33 66 4833 519

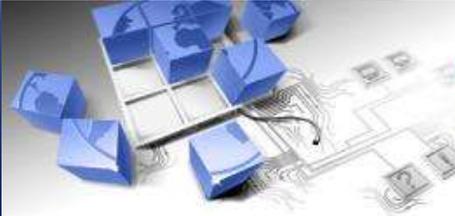
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+91 98331 57276

Navitas - China
+86 755 2315 3622

Navitas - HK
+852 2749 7575



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Thank you!

Come to **Navitas**, we will assist you in creating value by building solutions that combine products and services

For more information, please visit
<https://www.navitastooling.com>

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