

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 red underline.

Navitas



- Full-service Supplier in the fabrication of high-quality and precision Die Casting Dies for serial production.
- Complete Solutions with Integrated capabilities in Feasibility studies, Die casting tool design, Tool manufacturing and Sampling leading to “production-ready” Dies.
- Prototyping and low-volume production with shortest lead times and best costs using HPDC Dies, billet-machining or sand-casting

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 Tonnage: **500T~ 9000T**
- Die range in weight: Up to **45Ton**
- Focused on Automotive – ICE & EV and high precision dies

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Navitas 2nd JV Factory

(Automotive Dies and Two-wheeler Dies)

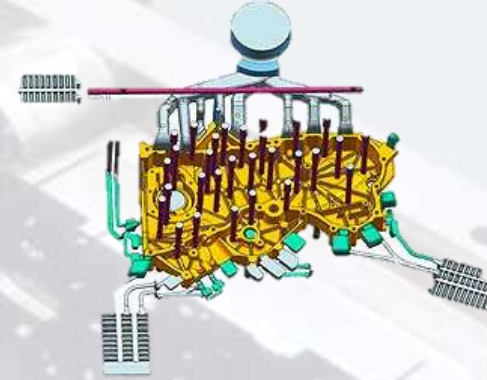


- Established: 2003
- Certification: ISO9001:2008
- Factory area: 12,000m²
- Employees: 100
- Capacity: 200 Die casting dies/year
- 2-shift-operation (6 days per week)
- Location: Ningbo, China
- Die range in Tonnage: **120T~ 3500T**
- Die range in weight: Up to **30Ton**
- Main Capability: Automotive, 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
 - Navitas uses high grade steels from companies such as Daido, Assab (Uddeholm/Bohler), Finkl, Groditz or Thyssen

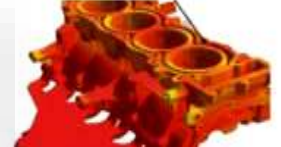
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Die 2D Design



Die 3D Design



CAE

Die Workshop



CNC Machine Center



Depth Hole drilling



EDM

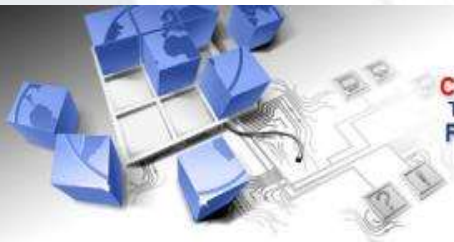


Spotting Machine



Wire Cut

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Die Workshop



DMG CNC Machine Center



CNC Fanuc 5Axis



Okuma 6000X3700X1500



Haitian 6 Axis machine



Omiron Double head EDM



Huadu 4000X3000X800

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Large equipment for Giga dies

Die Production – HPDC 5000T LK (Inhouse)



Vacuum Unit



Die temperature control unit



Auto transfer line



Plunger Pump



Robot arm



Heat treatment for T5/T6

Inhouse Trial/ Sampling range - **250T to 5000T**

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Die Production – Equipments (Inhouse)



800T



1000T



1250T



Spotting press 500 T



2000 T



2500 T

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Inhouse Trial/ Sampling range - 250T to 5000T

Part Machining Equipment



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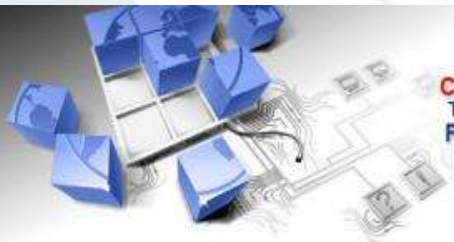
Advanced equipment to ensure product quality and delivery time

Cleaning & Spray Coating Equipment



1 product cleaning line, 3 automatic plastic spraying lines, 2 manual small batch proofing lines, and customised manual screen-printing process according to specific products. 5 groups of manual screen printing.

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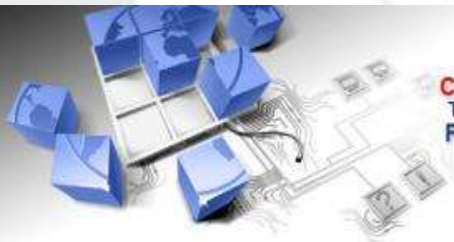


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High pressure Washing and Drying equipment



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Quality Assurance



CMM- (Zeiss – Prismo)

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Quality Assurance



CMM-3D (Lead)



3D Scanning

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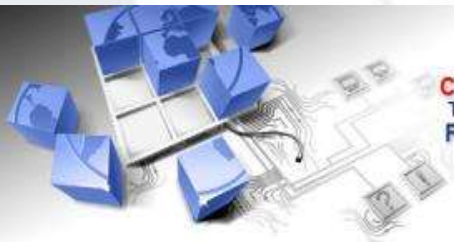
Quality Assurance



X Ray (in-house)



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Quality Assurance



**High/low
temperature testing**



Salt spray testing



**Mechanical
Property testing**

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Heat Treatment Equipment for Part T5 / T6 process

Subcontractor



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Conversion Coating or E-coating Process Plant

Subcontractor



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PARTNERSHIPS

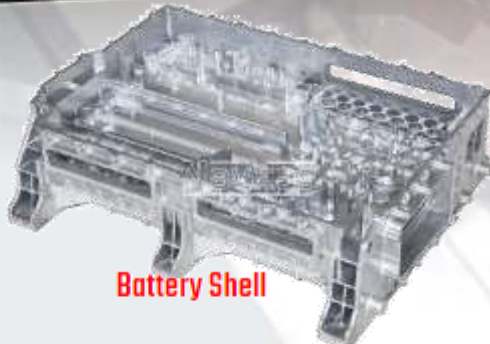
Will be done in-house by Sept, 2024

Die Reference



Gear Case (Heavy Truck)

520X570X380 | 38Kg | 5000T



Battery Shell

225*600*810 | 26.76Kg | 5000T



Double Motor Housing

368*685*621 | 36Kg | 5000T



Bearing Housing

465x445x610 | 24.6kg | 4000T

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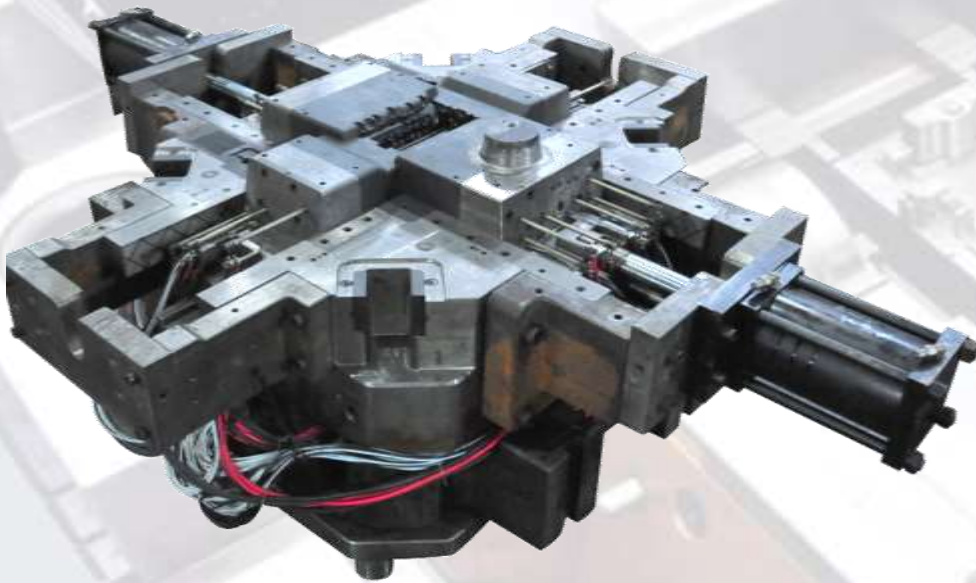


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Giga Dies

Die Reference

4 Cylinder Engine Block

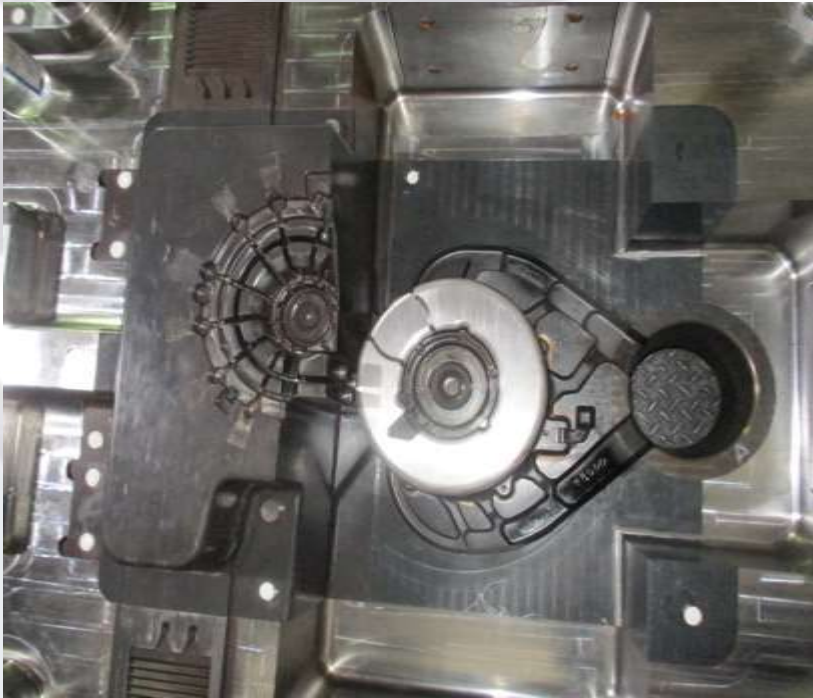


- *1.0 Four Cylinder Engine Block*
- *1.4 Four Cylinder Engine Block*
- *1.6 Four Cylinder Engine Block*
- *1.8 Four Cylinder Engine Block*
- *2.0 Four Cylinder Engine Block*
- *2.4 Four Cylinder Engine Block*

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

Die Reference

Housing For Electric Vehicle



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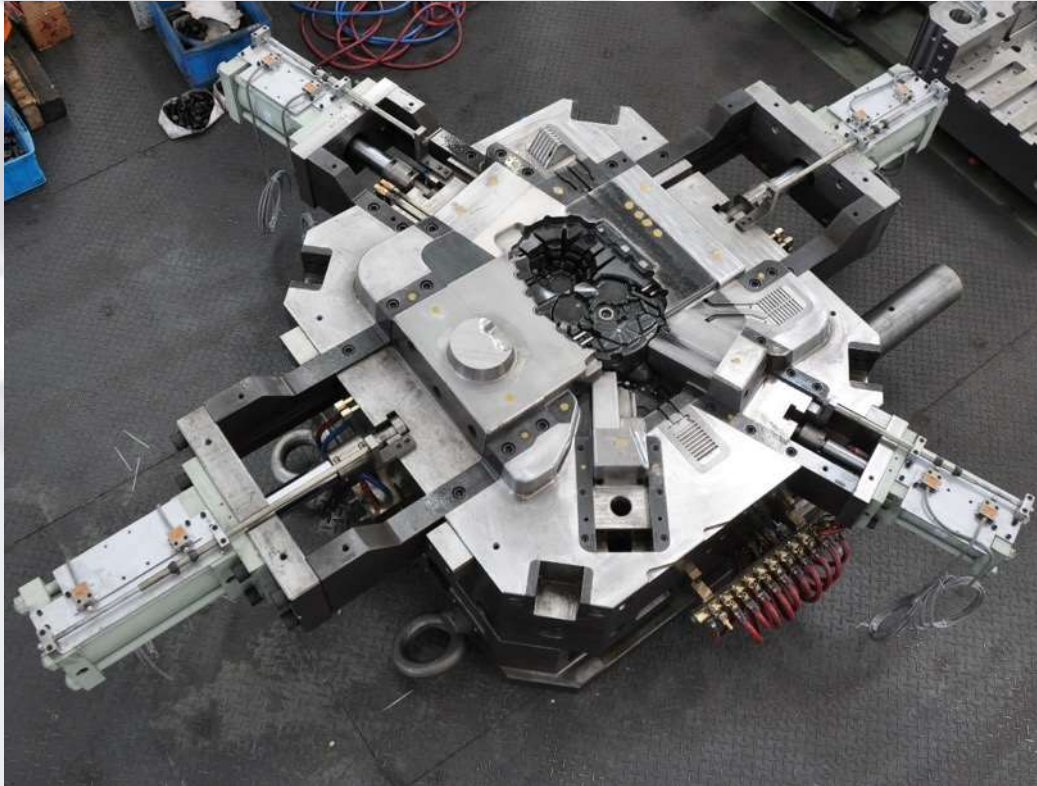
Casting Machine Tonnage	2500T
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Casting Size	350*320*280 mm
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Casting Weight	18.5KG
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Die Reference

Transmission Housing



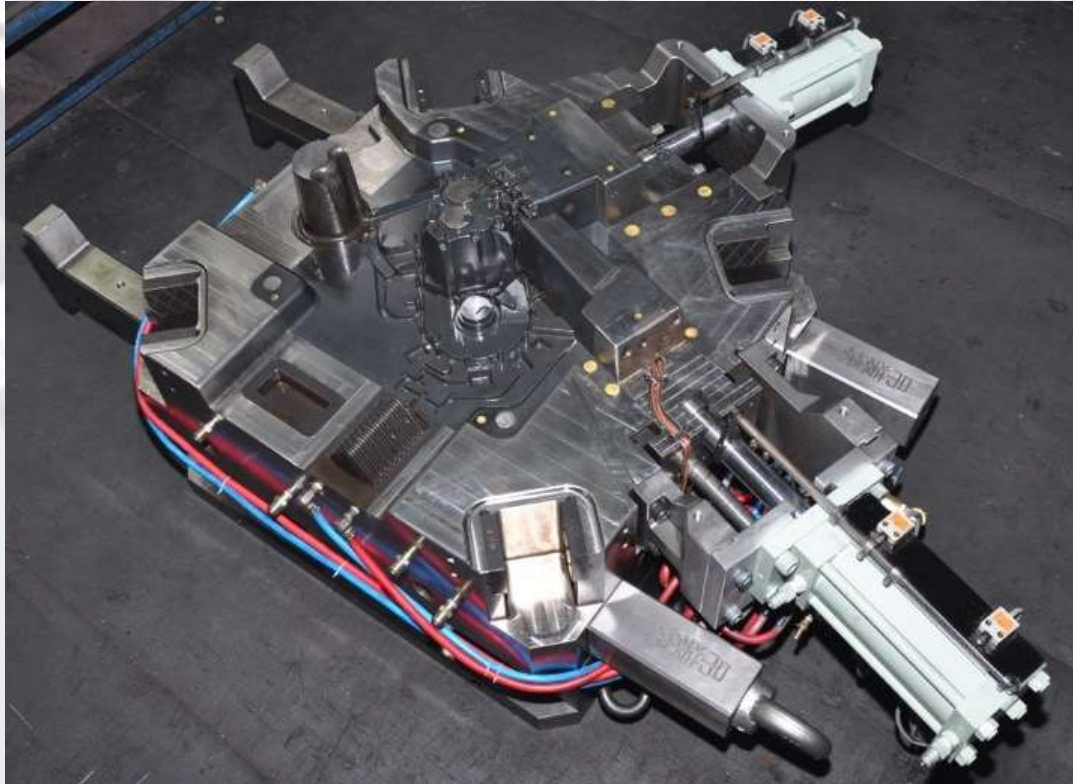
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Die size	2850*2686*1535 mm
Die weight	15.4T
Casting Machine Tonnage	2500T
Casting Size	480*250*210 mm
Casting Weight	8.83KG

Die Reference

Transmission Housing



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Die size	2960*2870*1535 mm
Die weight	16.9T
Casting Machine Tonnage	2500T
Casting Size	460*370*230 mm
Casting Weight	8.75KG

Die Reference

Outer Case For Electric Vehicle



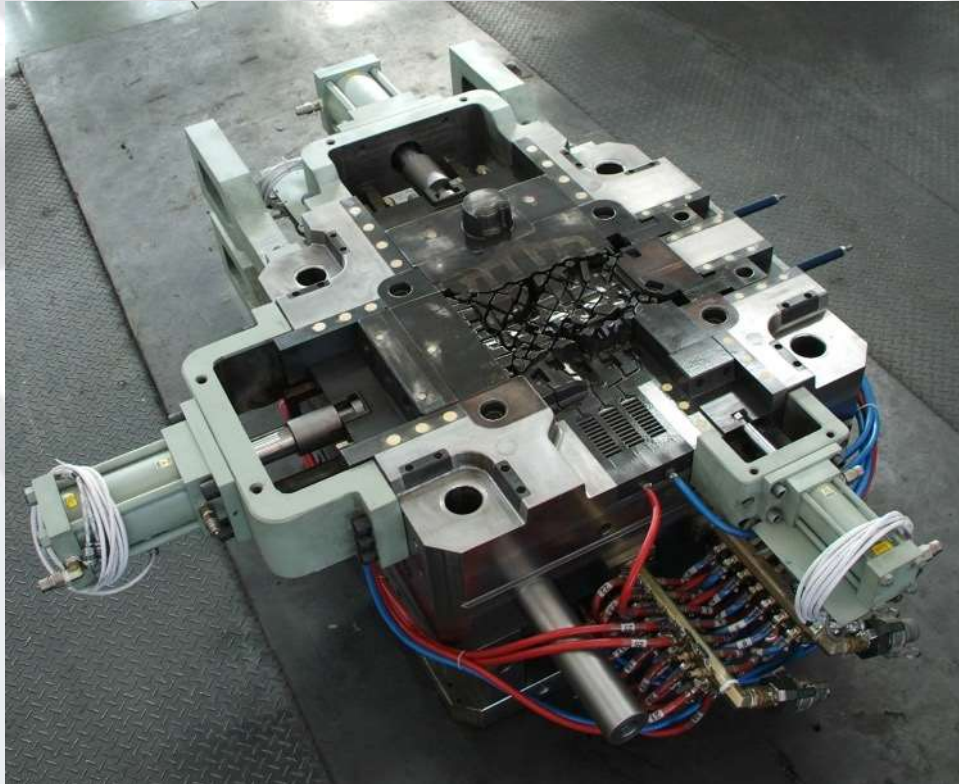
Die size	1195*1310*1208.5 mm
Die weight	14.68T
Casting Machine Tonnage	2000T
Casting Size	292.84*316.04*274.3mm
Casting Weight	7.71KG

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Die Reference

Oil Sump-Upper



Die size	2190*1700*935 mm
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Die weight	7.45T
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Casting Machine Tonnage	1250T/1600T
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Casting Size	400*320*120 mm
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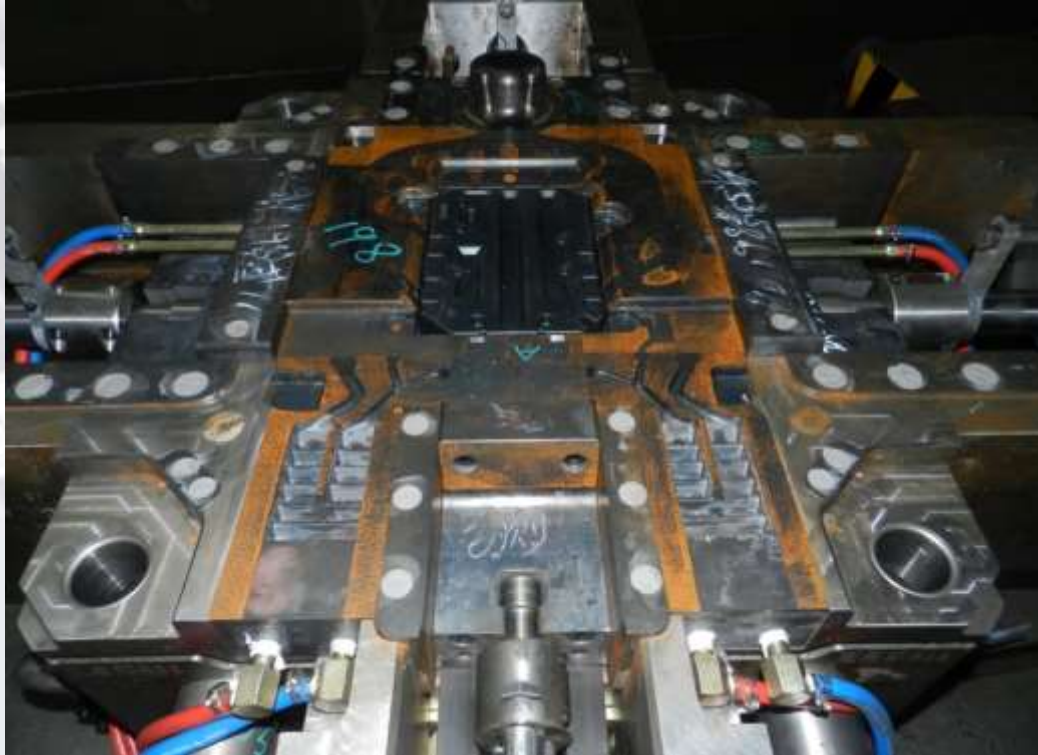
Casting Weight	4.36KG
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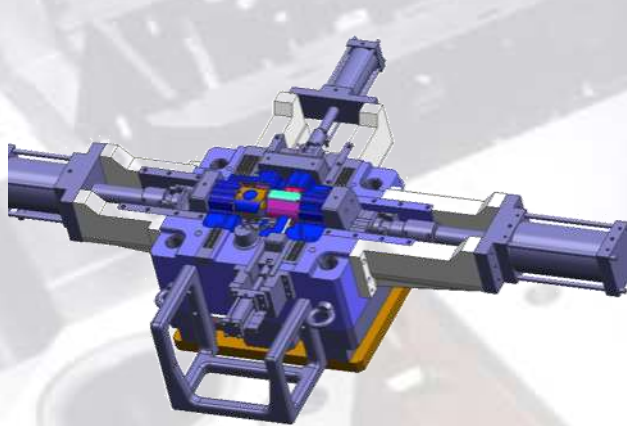
Die Reference

Case For Electric Vehicle

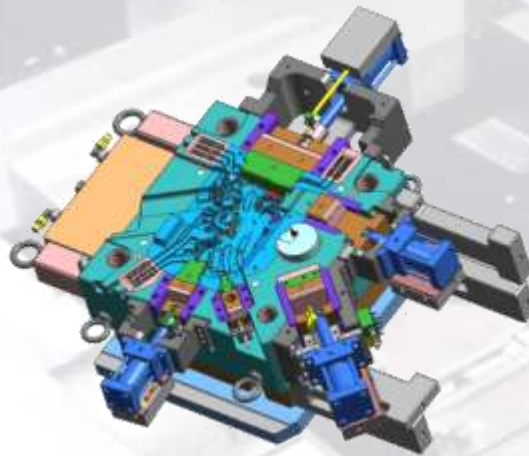


Die size	800*835*755 mm
Die weight	3.47T
Casting Machine Tonnage	800T
Casting Size	227.9*236.8*76.8 mm
Casting Weight	1.08KG

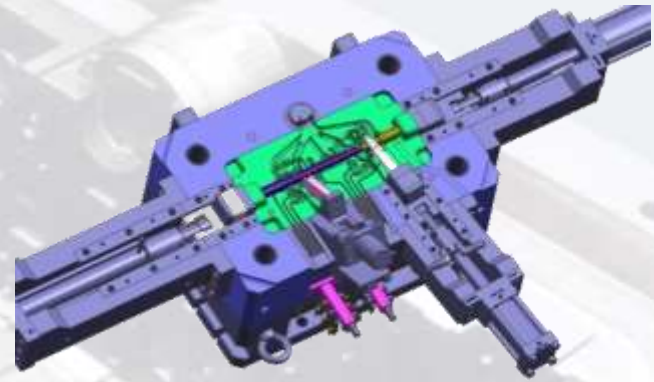
Die Drawings



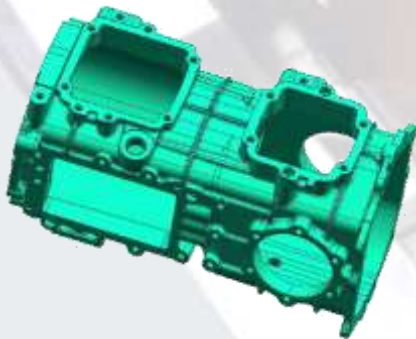
Transmission Housing



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



Product References

(Electric Vehicle)



Case



Outer Case



Cell Housing



Rear Case



**Photovoltaic
new energy**



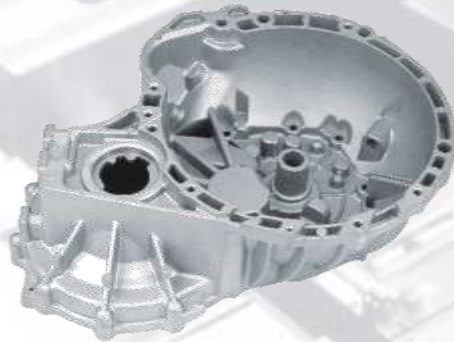
Cell Case

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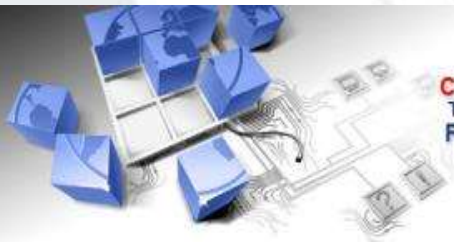


Product References

(Automotive parts)



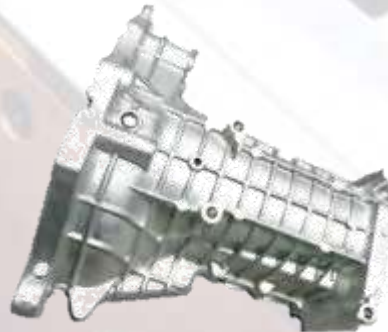
Navitas



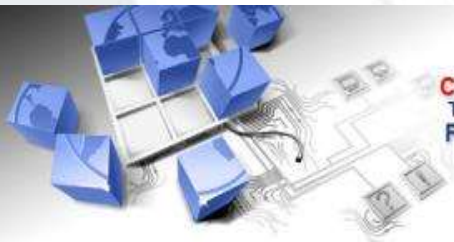
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Product References

(Automotive parts)



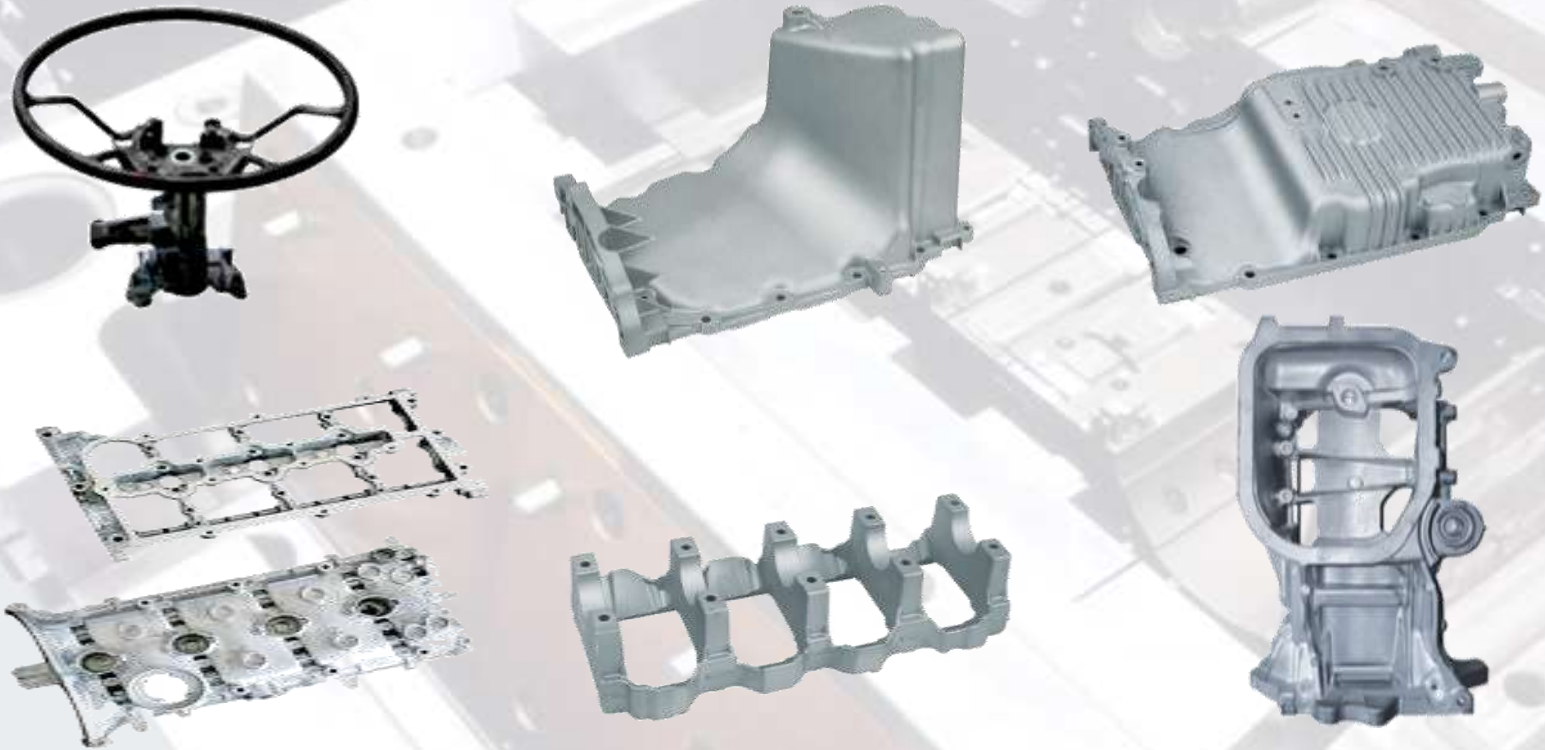
Navitas



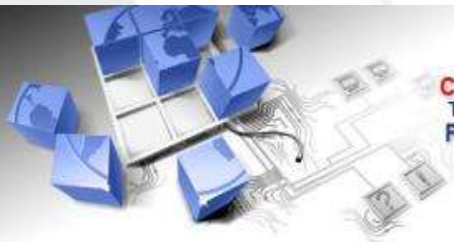
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Product References

(Automotive parts)



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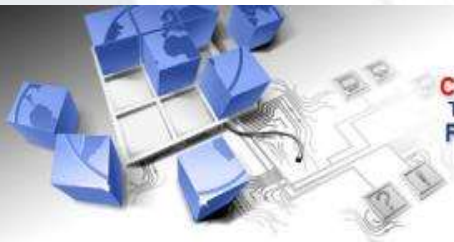
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Product References

(Two-wheeler parts)



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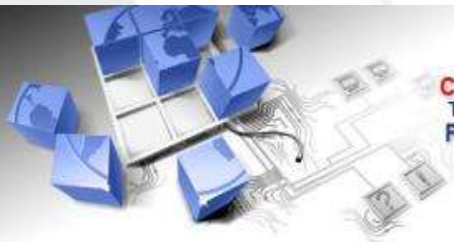
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Product References

(Two-wheeler parts)



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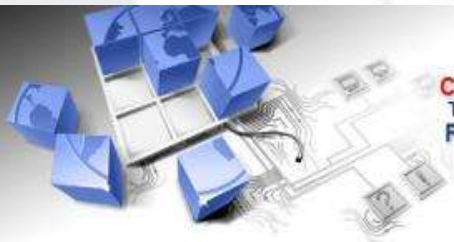
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Product References

(General Gasoline parts)



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Quality Assurance



CMM



CMM



3D Scanning



X Ray



Navitas



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



**CREATING VALUE
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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, featuring the word "Navitas" in a stylized font with a blue and red color scheme.

Navitas Network

Navitas - France
+33 66 4833 519

Navitas - Germany
+49 7424 8675 398

Navitas - USA
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Navitas - India
+91 98331 57276

Navitas - HK
+852 2749 7575

Navitas - China
+86 755 2315 3622

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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>
info@navitas.cn

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