304 Stainless Steel Precision Casting Silicon Sol Linear Guide Blocks

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: NC4624
- Certification: ISO9001,CE,SGS
- Model Number: 4624
- Minimum Order Quantity: 100 pcs
- Price: can talk
- Packaging Details: Wooden Case
- Delivery Time: 30 days
- Payment Terms: T/T, L/C
- Supply Ability: 80,000 pcs monthly

Product Specification

- Item Name: Linear Guide Blocks
- Material: 304 Stainless Steel
- Process: Precision Casting
- Tolerance: CT4-CT5
- Finish: Acid Zinc
- OEM: Customized

More Images

Our Product Introduction

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Product Description

304 Stainless Steel Precision Casting Silicon Sol Linear Guide Blocks

Product Details

Mateirals	Stainless steel, carbon steel, alloy steel, aluminum alooy, Titanium alloy, Copper alloy, special alloy
Casting dimension tolerance	CT7
Casting surface roughness	Ra 12.5 um
Casting weight range	0.1-90 kg
Casting Size	Max linear size: 1200 mm, Max diameter size: 600 mm
Machining Precision	Positioning accuracy 0.008 mm, Rep. position. accuracy 0.006 mm
Machining surface roughness	Ra0.8 ~ 6.3 um
Material standard	GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
Surface treatment	KTL (E-coating), Zinc plating, Mirror Polishing, Sand Blasting, Acid pickling, black oxide, Painting, Hot galvanizing,Powder coating, Nickel plating.
Quality control	100% inspection before packing
Application	Train & railway, automobile& truck, construction machinery, forklift, agricultural machinery, marine parts, petroleum machinery, construction, valve and pumps, electric machine, hardware, power equipment and so on.
Keywords	Investment casting, sand casting, precision casting, lost wax casting,water glass casting,silica sol casting ,die casting

Production Process

About Us

Sunrise Foundry is a professional casting manufacturer specializing in high-quality **investment casting (lost-wax casting) solutions**. With advanced technology and decades of expertise, the company focuses on producing precision components for industries such as **automotive, energy, mining, construction, and defense**.

We have six affiliated casting workshop and 2 professional CNC machining workshops.There are 200 staffs and 40 engineers now in our company. Its annual production capacity for all types of casting parts is about 3000 tons. Holding over 100 sets of advanced casting parts, machining and test equipments. It is also equipped with many advanced CNC machining center, CNC turning center, CNC milling machine and CNC lathes. It can do the heat-treatment, electricity polishing, mirror polishing and CNC machining at the request of clients.

Application

With their high precision, complex structure-forming capability, and superior surface quality, Investment casting components are extensively utilized across various industries.

These include:

Automotive : Turbocharger blades, engine components, and exhaust system parts
Aerospace : Aero-engine blades and combustion chamber components
Energy and power generation : Impellers, pump shells, and oil drilling blades
Heavy machinery : Mining and agricultural equipment accessories
Rrail systems : Anchor blocks and steering brackets
Hardware tools : Door/window hinges and specialized tools

The materials employed encompass stainless steel, carbon steel, alloy steel, and high-temperature alloys, all of which are designed to ensure lightweight construction, enhanced wear resistance, and reliability under extreme environmental conditions.

Quality Control

FAQ

Q1: What is the highest precision that investment casting can achieve?

A: Investment Casting can achieve ISO 8062 CT5 level precision (key dimensions ±0.1mm).

Q2: Do we accept small batch orders? How long does the delivery time usually take for small batch orders?

A: Yes, of couse. We adopt a flexible production system to ensure a rapid response, utilizing 3D printing of wax models and validating the casting process.
Under normal circumstances, the delivery time for small batch orders will be influenced by the order size, complexity, and production scheduling. Upon receiving the order, we initiate the production process promptly and maintain close communication with the customer to ensure the timely delivery of precision casting parts that meet the requirements.

Q3: How can we ensure the internal quality of the castings?

A: we employ a four-level inspection system to ensure the internal quality of the castings: Process monitoring: Utilizing real-time detection technology with online X-ray (scanning at 300 frames per minute) for monitoring. Physical and chemical analysis: Using direct reading spectrometers and electron microscopes (inclusion detection accuracy up to 0.01mm level) for analysis. Mechanical verification: Sampling each batch of castings for fatigue testing (number of cycles > 10^7 times). Digital traceability: If special requirements are present, we will add a casting number to each batch of parts, achieving full traceability of the melting batch and process parameters.

Q4: Do we provide one-stop service for subsequent machining/surface treatment?

A: We provide a one-stop integrated service for the entire process chain: Machining support: Five-axis CNC + coordinate grinding machine (positioning accuracy up to ±0.03mm) Surface strengthening: Shot peening / nitriding / PVD coating (hardness up to HRC65)
Assembly and inspection: Equipped with air tightness testing and dynamic balance testing equipment.

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