



Accurate Casting

Mfg. of Steel & Alloy Steel Investment Casting

OUR COMPANY:

Accurate casting was founded in year 2021. over the years specialized in the production of high or low alloy iron and steel castings in stainless steels, martenstic stainless steel, carbon steels, duplex stainless steels, super alloys and nonferrous metals in medium or large batches. weight of our casting varies from 500 gram to 100 Kg.

The primary objective of our company is the satisfaction of our customers in terms of quality, In time delivery and competitive price. quality and continuous improvement of all functions can never be over-stressed. our company boasts state-of-the-art production and control facilities and highly-qualified technical department.

Area: 2000 Square Meters

Covered : 1500 Square Meters

Un Covered: 500 Square Meters

Mfg. Process: Lost Wax Investment Castings

Production Capacity: 50000 kg / Month

Product Capability: 500 gram/pc to 100 kg/pc

VISION

To be a reputed global provider of reliable, ready to use high integrity castings, especially structural steel castings.

To offer customer delight and employee growth.

organization with focus on innovation and creativity.



MISSION

To understand, creatively interact & meet customer needs.

To offer all round services to customers, which represent the best value for money, so as to earn complete customer loyalty and facilitate access to expanding market.

To do product development so as to keep pace with emerging market needs and to develop processes to deliver products of consistent quality and reliability.

COMPANY POLICY

Accurate casting is strictly customer-focused. Your complete satisfaction with our product quality, price and delivery time is our principal objective. We aim to supply all castings in conformity with appropriate cast metal standards and agreed specifications, to meet and even exceed your expectations.

Our business objectives and goals are summarized in an active business plan and we regularly monitor our performance. This assists in our drive for continuous improvement in our product range, product quality and the effectiveness of our quality management system. We review our policies and processes regularly,



CERTIFICATIONS:

ISO 9001:2015

Certification Body : TUV NORD CERT GmbH.

Certificate Registration No. :44 100 22393669

Certificate Validity: 15-07-2025



CERTIFICATIONS:

- Pressure Equipment Directive 2014/68/EU
- Certification Body : TUV NORD CERT GmbH.
- Certificate Registration No. :0045/202/1409/WZ/2661/23
- Certificate Validity: April 2026



TUV NORD

CERTIFICATE

Quality management system for material manufacturer
in accordance with the requirements of
Pressure Equipment Directive 2014/68/EU

Certificate No.: 0045/202/1409/WZ/2661/23
Name and address of manufacturer: Accurate Casting
Plot No. 11, 12 and 13, Survey No. 57/1, P-1, Global Industrial Estate, Nr. Ribda Railway Station, Kotda Sangani Road, Ribda-Gondal
District: Rajkot - 360 311, Gujarat, India

This is to certify that the manufacturer has implemented and applies a quality management system in relation to materials. This QM system has been subject to specific verification in accordance with the requirements of Directive 2014/68/EU, Annex I, point 4.3 in relation to the materials. The manufacturer is entitled to issue certificates of specific tests on materials in accordance with the Pressure Equipment Directive and the underlying technical specifications.

Test specification: EN 764-S, section 4.2 and AD 2000 W0
Audit report No.: 812 181 9335
Range of products: Manufacture of valve housings (casted)
Place of manufacture: Plot No. 11, 12 and 13, Survey No. 57/1, P-1, Global Industrial Estate, Nr. Ribda Railway Station, Kotda Sangani Road, Ribda-Gondal
District: Rajkot - 360 311, Gujarat, India

This certificate is valid until: April 2026

Notified Body 0045 for pressure equipment

Attachment:  **TUVNORD** Digital unterschrieben von Niekamp Dirk

Contact: niekamp@tuv-nord.de
E-Mail: +49 201 925-2722
Phone:

To verify the validity of the digital signature of the TUV NORD Systems employee, the installation of the TUV NORD GROUP root certificate is required.
<https://www.tuv-nord.de/ressourcen/signed-files/signature>
Certificate of material manufacturer TNC_eng_fem_00_Agility_2023.08

CERTIFICATIONS:

- AD 2000-Merkblatt W 0
- Certification Body : TUV NORD CERT GmbH.
- Certificate Registration No. :07/203/1409/WP/2661/23
- Certificate Validity: April 2026



CERTIFICATE

Certificate No.: 07/203/1409/WP/2661/23

TÜV NORD Systems GmbH & Co. KG certifies that the manufacturer

Accurate Casting
Plot No. 11,12 and 13, Survey No. 57/1, P-1, Global Industrial Estate,Nr.Ribda Railway Station,Kotda Sangani Road, Ribda-Gondal
District: Rajkot – 360 311
Gujarat, India

has been verified and recognized as

material manufacturer acc. to AD 2000-Merkblatt W 0

in accordance with the requirements of the certification scheme TNS-AD2000-W0.

Details can be found in the report and the scope of approval.

The manufacturer has the following prerequisites:

- equipment for proper manufacturing and testing,
- suitable procedures for the manufacture of the products,
- skilled personnel for the manufacture and testing of the products, and
- a quality management system with appropriate records that ensures proper manufacture of the products and compliance with the requirements specified in the material specification.

Manufacturing site: as above

Validity: April 2023 until April 2026
Date of issue: 23.04.2023
Audit report No.: 812 181 9335
Annex: Scope

TUVNORD Digital unterschrieben von Nikamp Dirk

TÜV NORD Systems GmbH & Co. KG
Große Behrenstraße 31, D-22525 Hamburg
Conventional Power Plant Phone: +49 201 825-2722
Am TÜV 1 Fax: +49 201 825-2850
42007 Essen E-Mail: dnikamp@tuv-nord.de

To verify the validity of the digital signature of the TÜV NORD Systems employee, the installation of the TÜV NORD GROUP root certificate is required.
<https://tncs.tuv-nord.de/portal/secure/verify-the-signature>

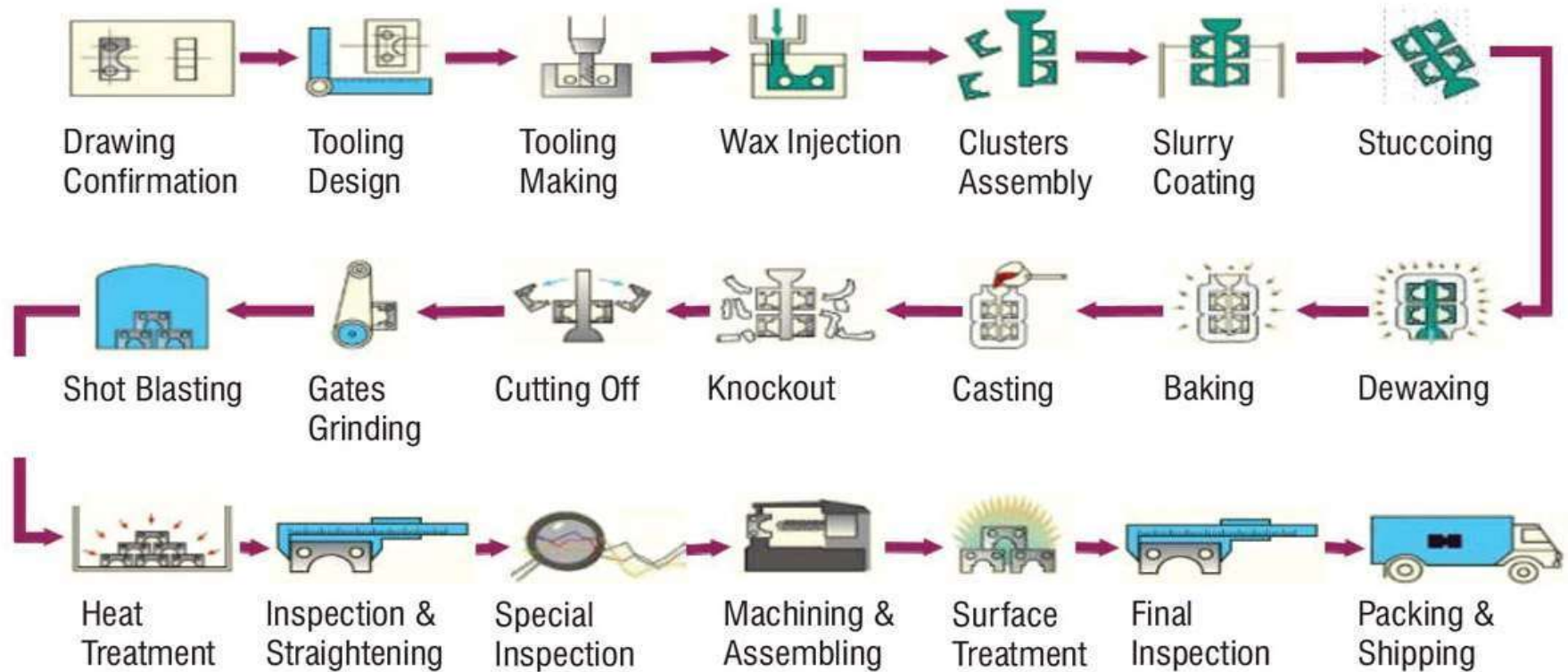
INVESTMENT CASTING :

Our future that really makes our foundry a cut above the rest is its specialization in Investment Casting. This method offers excellent possibilities for the manufacturing of complex parts requiring good surface finish and close tolerance.

Investment casting is a manufacturing process in which a wax pattern is coated with a refractory ceramic material. Once the ceramic material is hardened its internal geometry takes the shape of the casting. The wax is melted out and molten metal is poured into the cavity where the wax pattern was. The metal solidifies within the ceramic mold and then the metal casting is broken out. This manufacturing technique is also known as the lost wax process. Parts manufactured in industry by this process include dental fixtures, gears, cams, ratchets, jewelry, turbine blades, machinery components and other parts of complex geometry.

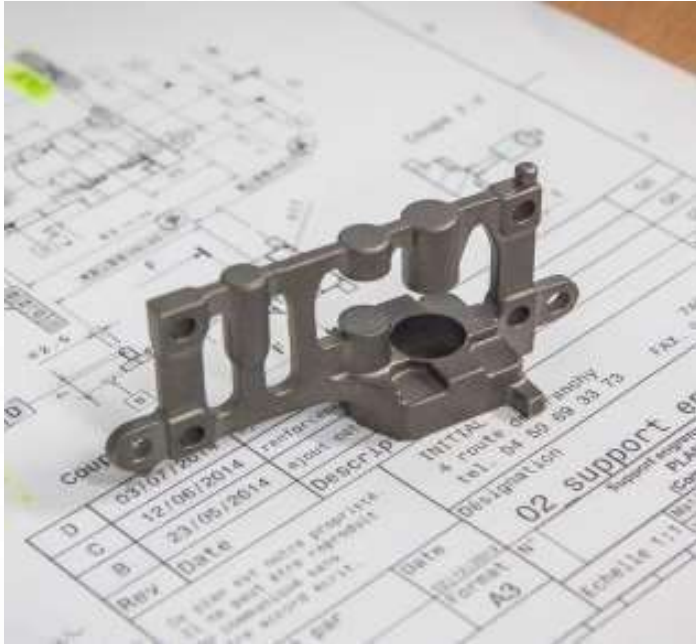


PROCESS FLOW



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TECHNICAL DEPARTMENT:



Our Technical Department is geared towards close cooperation with the customer. In the product conception phase it is important to address what the part will actually be used for in order to optimize the use of modern technical procedures and ensure compliance by client specifications.

QUALITY CONTROL : CHEMICAL ANALYSIS



- Each metal pour can contain up to 25 different chemical constituents so it is vital that this balance is correct. If there is insufficient magnesium, for example, the casting will not cure properly when heat treated and it would not be fit for purpose.
- Various elements can affect the chemical composition such as the percentage of raw ingot or recycled metal used. At the foundry, we use a spectrometer to verify the chemical constituents of every metal melt before it is poured to ensure that it meets BSI standards.
- First of all, a metal dab is produced using a sample of the molten material from the furnace. This is placed in a lathe where the surface is machined to ensure a smooth, flat finish. The metal dab is then placed in the spectrometer and it is vaporized with a testing probe.

QUALITY CONTROL : DESTRUCTIVE TESTING

Physical testing

- In house universal testing machine.
- In house hardness testing machine.



SAROJ
Make



SAROJ
Make



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QUALITY CONTROL :



DIMENSIONAL INSPECTION

Dimension Inspection Equipment

Vernier Caliper,
HeightGauge,
RadiusGauge,
Depth Gauge

Type : Digital/Dial/Analogue
Make : Baker, Mitutoyo, Groz
Capacity : 0 - 300 mm/0-1000 mm

QUALITY CONTROL :



NON DESTRUCTIVE TESTING

Liquid Penetrant Examination

Pentrant	: Magnaflux, Spotcheck
Cleaner	: Magnaflux, Spotcheck
Developer	: Magnaflux, Spotcheck
Method	: Solvent Washable Solvent Removal



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QUALITY CONTROL : NON DESTRUCTIVE TESTING(OUT SOURCE)

Radiography Testing

In radiographic testing (RT), a source of X-Ray or Gamma-Ray radiation is used to produce an image of the component on photographic film (by placing the radiation source on one side of the component and the film on the other). Following exposure to radiation, the film is then processed and then viewed on an illuminated screen for visual interpretation of the image.

Radiography gives a permanent record (the exposed film), which is a major advantage of the method, and is widely used to detect volumetric flaws (surface and internal).



QUALITY CONTROL : NON DESTRUCTIVE TESTING(OUT SOURCE)

Magnetic Particle Testing

This method is used for the detection of surface and near-surface flaws in ferromagnetic materials and is primarily used for crack detection. The specimen is magnetized either locally or overall, and if the material is sound the magnetic flux is predominantly inside the material. If, however, there is a surface-breaking flaw, the magnetic field is distorted, causing local magnetic flux leakage around the flaw. This leakage flux is displayed by covering the surface with very fine iron particles applied either dry or suspended in a liquid.



QUALITY CONTROL : NON DESTRUCTIVE TESTING(OUT SOURCE)

Ultrasonic Testing

Ultrasonic testing (UT) comprises a range of non- destructive testing (NDT) techniques that send ultrasonic waves through an object or material. These high frequency sound waves are transmitted into materials to characterize the material or for flaw detecting. Most UT inspection applications use short pulse waves with frequencies ranging from 0.1-15 MHz, although frequencies up to 50 MHz can be used. Ultrasonic inspection uses a piezoelectric transducer connected to a flaw detector, which in its most basic form is a pulser- receiver and oscilloscope display. The transducer is passed over the object being inspected, which is typically coupled to the test object by gel, oil or water..



METALLURGICAL CONTROL :

Heat Treatment

Equipment : Electrical Heat Treatment

Furnace with Auto Quenching
Facility

Type : Batch

Make : KPT ThermalEngineering

Capacity : 800 Kgs

Size : Length 1300 mm

: Width 1500 mm

: Height 1000 mm

Temperature: 620 °C

Range 920 °C

1250 °C



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MATERIALS: FERROUS

Materials Poured at ACCURATE :					
	ASTM	DIN			
Austenitic Stainless Steel	CF8	Equivalent DIN Standards	Nickel and Nickel Alloys	CZ100	Equivalent DIN Standards
	CF8M			M25S	
	CF3			M30C	
	CF3M			M30H	
	CF8C			M35-1	
	CF10			M35-2	
	CF10M			N7M	
	CK20			N12MV	
	CH10			CU5MCuC	
	CH20			CW2M	
	CN7M			CW6M	
	HK30			CW6MC	
	HK40			CW12MW	
	CN3MN			CX2M	
	CG3M			CX2MW	
	CG8M			CY40	

Materials Poured at ACCURATE :		
	ASTM	DIN
Carbon Steel	WCB	Equivalent DIN Standards
	WCC	
	LCC	
	LCB	
Low Alloys Steel	WC1	
	WC4	
	WC5	
	WC6	
	WC9	
	WC11	
	C5	
	C12	
	C12A	
	CK3MCuN	
Super Austenitic Stainless Steel		

PRODUCT :

□ Industries We Serves

- Valve Industries
- Marine Industries
- Automobile Industries
- General Engineering
- Medical Industries
- Agriculture Industries
- Pharmaceutical Industries
- Food Industries
- Instrumentation Industries
- Mining Industries Textile Industries

- Wide range of wear-resistant parts for different applications in the public works sector.
- Chain link and parts with special mechanical requirements.
- Refined steel and special alloy parts for application in the paper and wood processing industries.
- Grooved Pipe Fittings, Screwed Pipe Fittings
- Wear-resistance parts with good surface quality for short-blasting machine.

PRODUCT :



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VALUED CUSTOMERS:



HEAD OFFICE:

506-507 Fortune Imperia, Field Marshal Road Near Speedwell Party Plot Mota Mava, City: Rajkot, State: Gujarat (INDIA)

REGISTERED OFFICE & FACTORY :

Plot No.11,12&13, Global Industrial Estate, Near Ribda Railway Station, Kotada-Sangani Road, Ribda Gondal. Dist.: Rajkot Gujarat (INDIA)

GST No. 24ABWFA6588Q1Z8

Contact Person: Mr. Kalpesh Kansagara

Marketing Manager : Vraj Vadaliya

marketing@accuratecasting.com

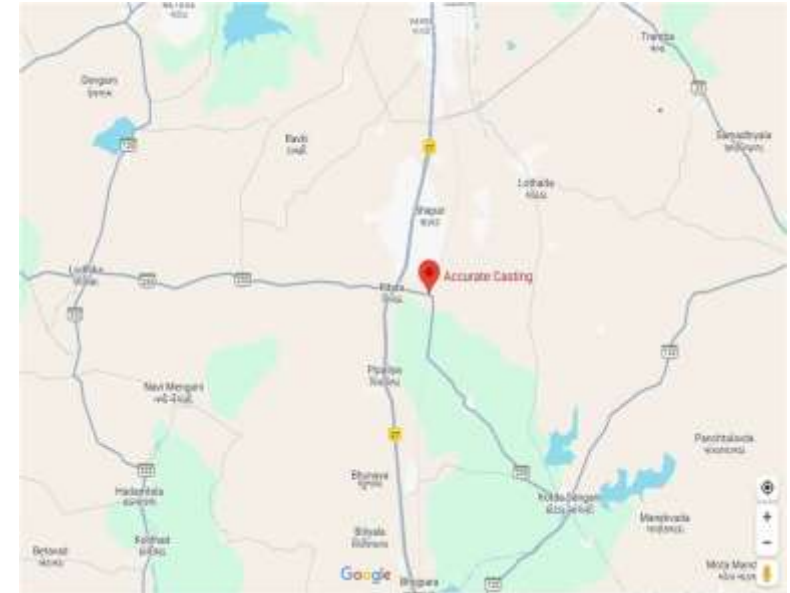
Info@accuratecasting.com

accuratecasting21@gmail.com

Web www.accuratecasting.com

Working Hour : **09:00** AM to **6:00** PM

Weekly Holiday : **Wednesday**





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THANKS