



# 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: August 2028



# 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 764-5, 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: [dniekamp@tuv-nord.de](mailto:dniekamp@tuv-nord.de)  
E-Mail: [dniekamp@tuv-nord.de](mailto:dniekamp@tuv-nord.de)  
Phone: +49 201 925-2722

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://www.tuv-nord.de/ressourcen/typografische-signaturen>  
Certificate of material manufacturer: PFD\_ang\_fem\_08\_April\_2026.DIG

# 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 Niekamp 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  
4507 Essen E-Mail: dirk.niekamp@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://www.tuv-nord.com/en/press/press-releases/2023/04/23>

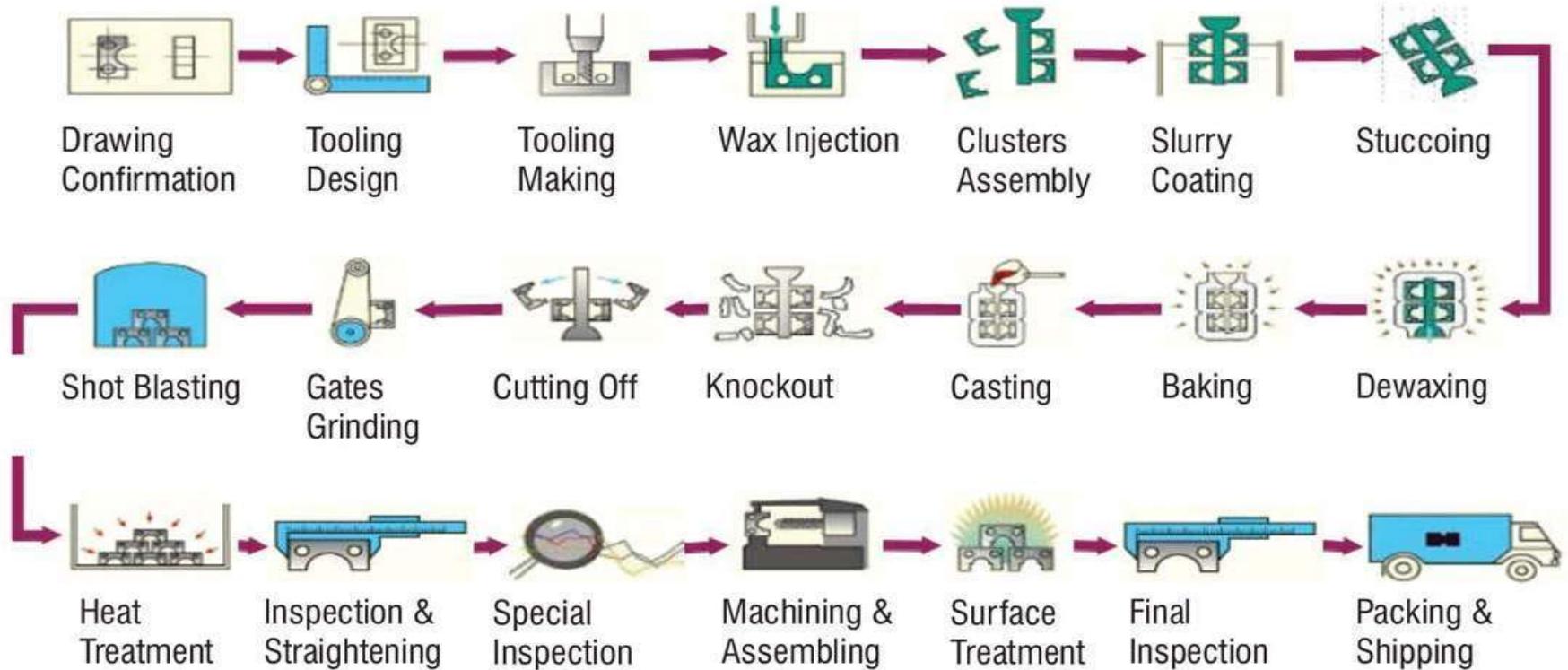
## INVESTMENT CASTING :

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.



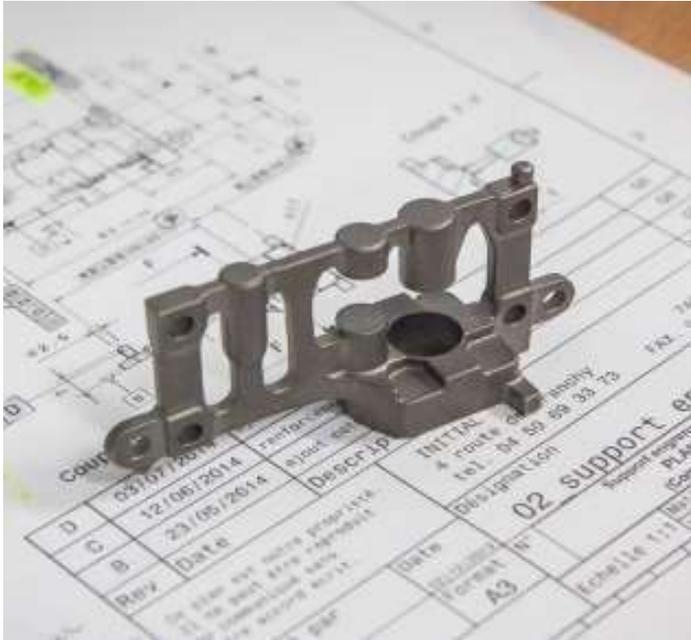
# PROCESS FLOW



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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.  
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



**Accurate Casting**

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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



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## 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
	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	
	Super Austenitic Stainless Steel	CK3MCuN

# 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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## PRODUCT :



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## VALUED CUSTOMERS:

**Brightech**<sup>®</sup>  
Fluid Control Solutions



**SONIC INDUSTRIES**

**AKSHAR ENGINEERS**



**NEO VALVES INDUSTRIES**

Our Motto "Engineering Towards Better Future"



**VTV**  
VALUE TO VALVES  
VEE TECH VALVES  
PRIVATE LIMITED



LK Automotive Pvt. Ltd.

**Calisto**  
TECHNOCAST PVT. LTD.

**Manav**<sup>®</sup>  
Pumps

**ofenedge**

HEATING MATTERS

## 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,Ribada Gondal. Dist.:Rajkot Gujarat (INDIA)

GST No. 24ABWFA6588Q1Z8

Contact Person: Mr. Kalpesh Kansagara

Marketing Manager : Vraj Vadaliya

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[accuratecasting21@gmail.com](mailto:accuratecasting21@gmail.com)

Web [www.accuratecasting.com](http://www.accuratecasting.com)

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

Weekly Holiday : **Wednesday**





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**THANKS**