



C-Way Engineering Exports

CASTING PRODUCT



ABOUT US

- With the legacy of 27 years of excellence, 'C-Way Engineering Exports' journey began with the vision of a highly experienced, visionary engineer, who dedicated his expertise in the field of manufacturing engineering products. Today, we are committed towards our product quality and our customer's trust.
- Our Investment Casting Plant Is Set Up With The Latest, Sophisticated & Ultra Modern Infrastructure & Machines, Equipments, Instruments & Facilities To Maintain Quality Assurance To High Precision Degree Of Accuracy Required Inprocess.
- We Are Engaged In Field Of Casting For More Than 25 Years. Our Experience And Our Skills In Casting Make Us Highly Qualified To Produce Quality Investment Casting. We Are Having A Team Of Qualified & Experienced Metallurgical And Mechanical Engineers, Skilled Workers, Operators, Inspection & Management Staff.
- We Manufacture Precision Investment Casting From Metal/alloys Such As Stainless Steel, Alloy Steel, Carbon Steel, Super Alloys, Ductile Iron, Other Ferrous Metals.
- We Can Take Up Investment Casting As Per Drawing, Specification, Material Composition And Sample Provided By Customers. Our Ability Is To Undertake Investment Casting Weighing From Very Few Grams Up To 70kgs., Size Up To 500 Mm. Diameter.

Manufacturing Facility

Tooling And Pattern

- ⦿ Making A tool is built to customer-provided specifications (A). Cold wax is then injected into the tool to create a wax pattern/prototype (B) that will hold precise dimensional requirements in the final casting.

Pattern Assembly

- ⦿ The wax patterns are assembled onto the sprue.

Dipping And Coating

- ⦿ Successive layers of ceramic (A) and stucco (B) are applied to the sprue assembly to form a hard shell.

De-Waxing And Firing

- ⦿ The molds are flash fired to remove the wax and sprue materials and then heated to 1,000C° and placed on a sand bed, ready for pouring

Casting

- ⦿ Molten metal, up to 1,600C° poured into the hollow mold and then cooled.

Knockout

- ⦿ The ceramic shell is broken off, and the individual castings are cut away.

Finishing

- ⦿ Excess metal is removed, surfaces are finished, and castings are heat treated.

Testing and Inspection

- ⦿ Castings undergo thorough testing and inspection to ensure that they meet dimensional tolerances and specifications.

Packing And Shipping

- ⦿ Castings are securely packaged for shipping to the customer.

Testing Facilities



Man Power

- ◉ 5 Senior Engineer
- ◉ 12 Engineer
- ◉ 60 Skilled Worker



Spectrometer

Model: Brucker(Q2) With 22 Channels
Fe Base
Certified Reference Materials In

- ◉ Carbon – Manganese steel
- ◉ Low alloy steel
- ◉ Stainless steel
- ◉ Tool Steel
- ◉ Cast Iron



Mechanical Testing

- ◉ UTM machine with capacity of 200 KN
- ◉ Electronic Extensometer for 0.2% proof stress.



Impact Testing

- ◉ Range: 300J max
- ◉ Testing temp: From Room temperature to -196°C



Hardness Testing

- ◉ Poldi hardness tester



Micro Structure Examination

- ◉ We Can Arrange Third Party Lab Testing



Corrosion test

- ◉ We Can Arrange Third Party Lab Testing



Production Solutions
That Make Sense

Testing Facilities



Radiation Check Meter

- ◉ We Can Arrange Third Party Lab Testing



Non-Destructive Testing

- ◉ Liquid Penetrant Testing: Solvent Removal (in House Testing Facility)
- ◉ Magnetic particle testing: Dry & Wet fluorescent method. Prod type technique (therd party lab)
- ◉ Radiography testing: Ir 192 & Co 60 (therd party lab)
- ◉ Ultrasonic testing (therd party lab)
- ◉ Personnel qualification as per ASNT NDT Level II in all NDT Test
- ◉ NDT procedure for RT, UT, MPT, LPT and VT are approved by EN & ASNT Level II personnel

Material Grade Capabilities

GROUP	STANDARDS	GRADES
Carbon Steel	ASTM A216	WCB, WCC
Low Alloy Martensitic Steel	ASTM A217	Wc1, WC6, WC9, C5
	ASTM A352	LCB, LCC, LC1, LC2, LC3, Lc4
Martensitic steel	ASTM A217	C12, C12A, Ca15
	ASTM A352	CA6NM
	ASTM A243	CA15M, CA40, CA6NM
	ASTM A148	90-60, 105-85
	ASTM A487	4-A, 4-B, 4-C
Precipitation Hardneble Steel	ASTM A747	CB7Cu-1, CB7Cu-2
Austenitic Stainless Steel	ASTM A351	Cf3, CF3M, CF8, CF8M, CF8M, CF8C, CF3MN, CG3M, CG8M, CK20, CT15C, CH20, CK3MCuN, CN7M, CN8MS, CN3MN
	ASTM A743	Cf20
Duplex And Super Duplex Stainless Steel	ASTM A890	1A, 1B, 1C, 2A, 3A, 4A, 5A, 6A
	ASTM A995	2A, 3A, 4A, 5A, 6A
Nickle Base Alloy Steel	ASTM A494	Cu5MCuC, CZ100, M35-1, M35-2, M30-H, M25-S, CY-40, CW-6MC, CW-2M, CW-12MW, CX-2MW, N-7M, N-12MW, CX2M

Testing Facilities





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