

## MATERIALS

- ▷ Carbon Steel – WCB, WCC, LCB, LCC, RCCM – 20 MN 5M
- ▷ Alloy Steel – WC6, WC9, 90-60, 60K, 4C/4D/4Q, C5, C12, C12A, CA6NM
- ▷ Stainless steel – CF3, CF3M, CF8, CF8M, CF8C, CG3M, CG8M, CK3MCuN, CN3M, CN7M
- ▷ Duplex Stainless Steel – 1A, 2A, 3A, 4A, 5A, 6A
- ▷ Nickel Alloy – CW12MW, CW2M, Cu5MCuC, CW6MC, CY4o, M35-1
- ▷ Copper Alloys – C95200, C95300, C95400, C95500, C95800. Equivalent EN grade can be manufactured

## ARUNA ADVANTAGES

- ▷ Fully integrated component manufacturer (Pattern – casting – machining – testing – overlay welding)
- ▷ One stop shop for sourcing of machined components
- ▷ Global quality approvals
- ▷ High alloy capability for complex geometry and design
- ▷ Weight range 5 kg – 14 MT
- ▷ Integrity of system and traceability in manufacturing
- ▷ Technical competency
- ▷ Business continuity
- ▷ Ease of communication
- ▷ Speed to market in product development with full in-house set-up
- ▷ R&D facility for material development



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CAST TO DELIVER  
EXCELLENCE





Aruna Alloy Steels Pvt. Ltd. Is a world class certified supplier of steel castings to reputed valve manufacturers both in Domestic and in International arena. Headquartered in the city of Madurai, the company was formed in 1961 and has since excelled in the faultless supply of high performance steel and alloy castings ranging from 5 kg to 14,000 kg. Aruna manufactures 5000 tonnes of high quality steel castings in Carbon Steel, Alloy Steel, Copper Alloy, Stainless Steel and Nickel Alloy per year. Aruna is fast emerging as a customer-centric entrepreneurial company focused on sustainable value creation for all stakeholders, while strengthening its competitive position and being oriented to growth.

**Focus sectors**



**Product Line Structure**

		Casting Range	Tonnage/Month	Annual Capacity (in tons)
<b>Unit 1</b>	Small Casting Line	50 – 250 kg	100	1200
<b>Unit 3</b>	Medium Casting Line	250 kg – 1 T	175	2100
	Heavy Casting Line	1 T – 14 T	225	2700
	Machine Shop	5 kg – 25 T	350	4200

Capacity is 500 tons per month and 6000 tons per Year



# INFRASTRUCTURE

## PATTERN AND STORAGE

- ▷ 15,000 sq. ft. Manufacturing Area
- ▷ 300 kg Aluminium Pattern
- ▷ 3VMCs for Pattern Making
- ▷ Pro/E, Creo Suite NC Tooling
- ▷ MAGMA for Method Design



## MELTING AND MOULDING

- ▷ CO2 Process Moulding and Core
- ▷ Furnace Capacity
  - ▷ Small – 25 kg, 50 kg
  - ▷ Medium – 250 kg, 750 kg, 2000 kg
  - ▷ Large – 6 MT(Dual Track), 10MT
  - ▷ Max Liquid Metal 24,000 kg



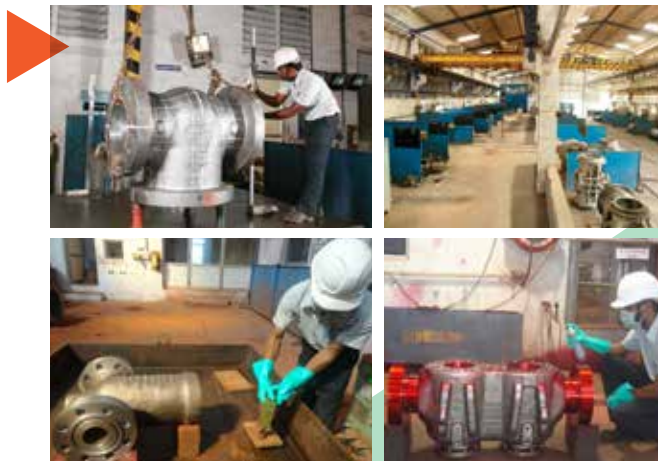
## MATERIAL TESTING

- ▷ Spectrometer
- ▷ UTM 60 T
- ▷ Hardness – Brinell, Vicker
- ▷ Impact / Charpy
- ▷ Drop Weight
- ▷ IGC, Pitting
- ▷ HIC (Hydrogen Induced Cracking)
- ▷ SSCT (Sulphide Stress Corrosion Test)
- ▷ CCT (Crevice Corrosion Test)
- ▷ Microscope with Camera
- ▷ Ferritoscope
- ▷ Sand Testing



## FINAL INSPECTION

- ▷ Magnetic Particle Testing (Dry, Wet, Fluorescent / Prod., Yoke)
- ▷ Liquid Penetrate Testing
- ▷ Ultra Sonic Testing
- ▷ Radiography (IR 192–50 Curie, Co60–100 Curie, Beta Tran, Linear Accelerator)
- ▷ 4 Radiography Bunkers
- ▷ Dimensions
- ▷ Pickling and Passivation



## HEAT TREATMENT

- ▷ 16 Heat Treatment Furnace
- ▷ Electric and Oil Fired
- ▷ Auto Quenching upto 6 MT
- ▷ Third Party Calibrated
- ▷ Touching Thermocouple
- ▷ Digital Temperature Measurement and Control



## MACHINE SHOP

- ▷ 22 CNC Machines
- ▷ Single Setup Machining
- ▷ Satellite Overlay welding
- ▷ Hydro Testing up to 4500 Pr. Class (600 T)

