

ENDEAVOUR
TILL EXCELLENCE



Rainbow Technocast

Mfg. of Ferrous & Non Ferrous Investment Castings



!INDEX

01	AT A GLANCE
02	ABOUT RAINBOW TECHNOCAST
03	FOREWORD
04	INFRASTRUCTURE
06	PRODUCTS
08	QUALITY CONTROL & TESTING
10	TECHNICAL CAPABILITIES
12	RENEWABLE ENERGY
13	CERTIFICATION
13	APPLICATIONS



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AT A GLANCE

CAPABILITIES:

- Can produce casting weight range from a few grams to 140 kilograms per piece.
- Can produce precision ferrous, nonferrous and super alloy investment casting components. As per various specifications like IS, BS, ASTM, DIN and other international standard specifications.
- Annual production capacity of more than 1800 MT/Year.
- Expertise in lost wax process technology with highly qualified and dedicated workforce and technocrats.
- Shorter Sample/Prototype casting development time.

COMPETITIVE EDGE:

- The responsible use of resources is important to us – which is why we are able to produce complex casting with at most precision.
- It is more important than ever to balance economic requirements with the needs of mankind and Industries. Striking this balance, We Rainbow Technocast has mastered in casting heavy components for global industries.
- Believing in a clean and a better future, we use renewable energy therefore we installed solar power plants and wind mills to generate the clean energy.
- Expertise creates new perspectives. We are making heavy components using best technology and expertise of years. We always find a way to make best, in line with the requirements of our customers.
- We are continually striving to improve our processes and products in terms of sustainability and efficiency. Therefore we have Well equipped quality control department with all instruments and machineries.
- The highest level of expertise in dealing with materials, designs, processes and validation is essential to sustainable production. Therefore we have installed crane for pouring facility for heavy components.

RAINBOW TECHNOCAST

A symbol of precision, perfection, and perseverance, Rainbow Technocast, under its parent group, has been serving the nation from more than five decades now, by developing precision ferrous, nonferrous and super alloy investment casting components. We cater to a variety of industries. From high precision Valves manufacturing like Gate Valves, Globe Valves, Knife edge gate valves and Butterfly Valves, to Pumps, Engineering and Food Processing industries.

Situated at Shapar, near Rajkot in Gujarat, with a capacity of 1800 MT per annum in a spread of 72000 sq. feet, Rainbow Technocast is undoubtedly a leading giant in the industry of Precision Investment Casting in India.

BACKGROUND

The roots of our company lie in the leadership of its visionary Late Shri Ramjibhai Nagjibhai Siyani, who founded Rajmoti Engineering Works in 1965, aiming at manufacturing diesel engines for the country.

In 2007, the legacy created by him was taken forward by his sons who ventured into creating what is today known as RAINBOW TECHNOCAST - one of the finest manufacturers of precision investment casting exporter globally.

Today, Rainbow Technocast is a result of years of hard-work and commitment of several people and families.

FOREWORD

Rainbow Technocast today has become a global company with prestige and a legacy of five decades of hard-work and progressive vision. With a current turnover of more than 7 million US Dollars and a projected turnover of more than 10 million US Dollars by 2020, Rainbow Technocast is quickly growing owing to its quality and efficiency. Through our manufacturing expertise and quality we are committed to cater the global industries with its every casting needs.

INFRASTRUCTURE

DIE DESIGN:

Best in class Die design department aids in making quality dies which efficiently cope with high volume production and best resources helps in reducing costs.

SIMULATION SOFTWARE:

Radical simulation software helps in increase efficiency of complex casting, to setting methods and improvement of yield.

SEMI-AUTOMATIC PATTERN MAKING MACHINE:

Precision is the key and this machine Helps in increasing productivity, reduce manpower and increasing accuracy.

COATING:

State-of-the-art coating facilities with infrastructure like temperature control, humidity control and a fully functional process oriented dry room.

DE-WAXING:

with latest automatic dewaxing facility, we can help in meeting the growing demand of our customers.

HEAT TREATMENT:

To adapt and fulfil customer specific requirements, our heat treatment plant furnace allows us maximum flexibility.

TESTING:

To ensure maximum customer satisfaction, We test at every stage by advanced technologies like Chemical Testing Facility which includes Spectrometer and Physical Testing Facility including Hardness Tester, Universal Testing Machine, Hydro Testing Machine etc.

MELTING:

We equipped with specialized induction melting furnaces use energy efficient methods in making high grade alloy and our modern auto crane facility supports in pouring heavy casting.

FETTLING:

Well-trained man power and best machineries help in fettle and clean cast.

NDT TESTING:

We also have a range of NDT facility that includes Dye Penetration Test, Magnetic Particle Inspection Test, Radiography and Ultrasonic Test.

MACHINING:

Our in-house machining shop equipped with computerized numeric control; gives accuracy in Turning, Milling and drilling centre for best out come with fully finished parts.

DISPATCH:

Being a service and quality centric company, We have our own warehouse space to ease transport logistics and safely store finished goods until the final delivery. With the complete in-house process, we ensure an on-time delivery of our products.



PRODUCTS

Rainbow Technocast Undertakes manufacturing and supply wide range of unmachined (raw castings) and machined Alloy Steel and Stainless Steel Castings to the domestic and global customers according to their supplied drawings and specifications.



BEST QUALITY FINISH



QUALITY CONTROL

To ensure maximum customer satisfaction, the casts undergo Dimensional inspection of the die and wax patterns to final cast. We test at every stage by advanced technologies like Chemical Testing Facility which includes Spectrometer and Physical Testing Facility including Hardness Tester, Universal Testing Machine, Hydro Testing Machine etc.

We also have a range of NDT facility that includes Dye Penetration Test, Magnetic Particle Inspection Test, Radiography and Ultrasonic Testing Machine.

Our Quality Control Machines and process determine if the manufactured products meet the specified standards and specifications of the drawing, and whether they are at par with our International standards. Quality is a must.

TESTING

NON-DESTRUCTIVE TEST

- Ultrasonic Test
- Dye Penetration Test
- Radiography Test
- Magnetic Particle Test

RAW MATERIAL:

- Sieve Analysis
- % SiO₂ in Binder
- Radiation Measurement
- Chemical Analysis
- Wax Hardness
- Ash Content of Wax

CASTING:

- Chemical Composition
- Borescope Inspection
- Mechanical Testing
- Hydro Test
- Corrosion Test
- Microscopic Examination

IN-PROCESS CONTROL AT

WAX:

- Hardness
- Ash Content

MELTING:

- Chemical Analysis
- Argon Plunging
- Temperature of Melt
- Temperature of Shell

SHELLING:

- Viscosity
- PH Measurement

MACHINING:

- Dimensional Inspection
- Custom Gauging & Inspection
- Surface Roughness



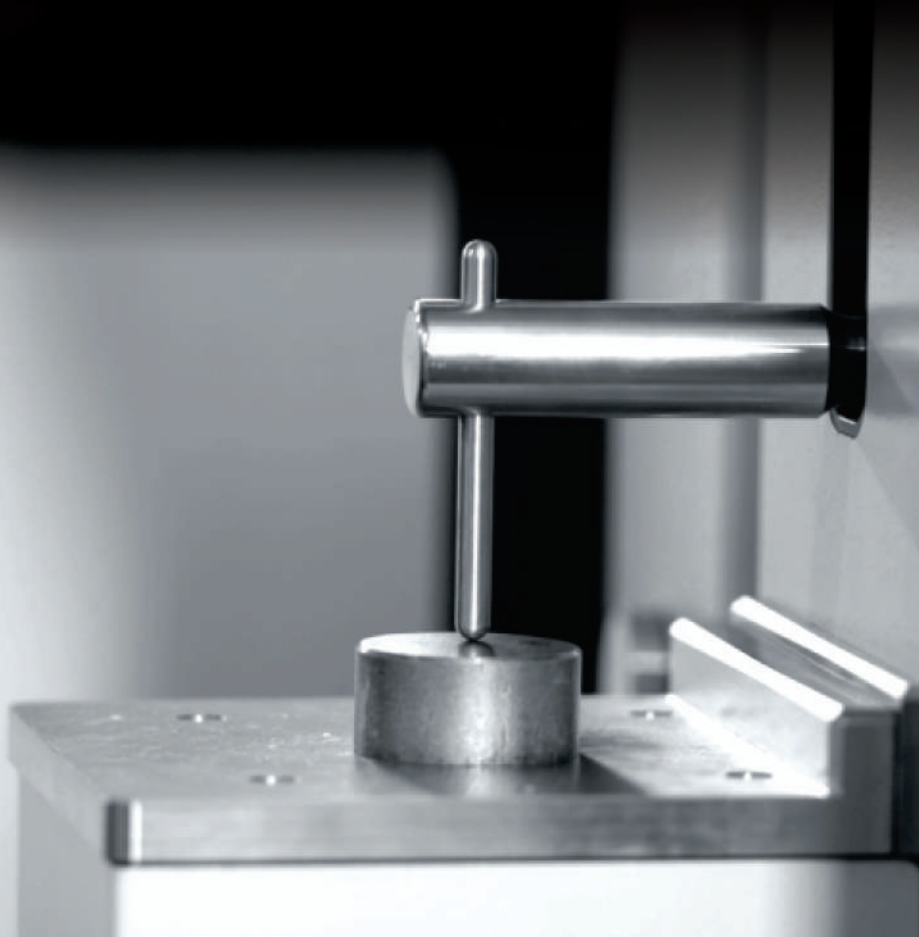
BEST QUALITY FINISH



TECHNICAL CAPABILITIES

	ASTM	DIN
Carbon Steel	A216 - WCB	1.0619
	A216 - WCC	
	A352 - LCC	1.1138
	A352 - LCB	
Low Alloys Steels	A217 - WC1	1.5419
	A217 - WC4	
	A217 - WC5	
	A217 - WC6	1.7356
	A217 - WC9	1.7379
	A217 - WC11	
	A217 - C5	1.7363
	A217 - C12	
	A217 - C12A	
Martensitic Steels	A743 - CA15	1.4008
	A743 - CA40	1.4028
	A743 CA-6NM	1.4313
Austenitic Stainless Steel	A351 - CF8	1.4308
	A351 - CF8M	1.4408
	A351 - CF3	1.4306
	A351 - CF3M	1.4404 / 1.4409
	A351 - CF8C	1.4827
	A351 - CF10	1.4308
	A351 - CK20	1.4843
	A351 - CH20	
	A351 - CN7M	1.4500
	A351 - CG8M	1.4431
	A351 - CG3M	
	A351 - CK3MCuN	
Duplex Stainless Steel	A995 - GR1B	
	A995 - GR2A	
	A995 - GR3A	
	A995 - GR4A	
	A995 - GR5A	
	A995 - GR6A	

	ASTM	DIN
Corrosion Resisting Steel	A494 - CZ 100	
	A494 - M-35-1	
	A494 - M-35-2	
	A494 - M 30 C	
	A494 - N-12MV	
	A494 - N-7M	2.4365
	A494 - Cy40	
	A494 - CW12MW	
	A494 - CW6M	
	A494 - CW2M	
	A494 - CW6MC	2.4816
	A494 - CX2MW	2.4686
	A494 - Cu5MCuC	
	A560 - 50Cr50Ni	2.4610
	A560 - 50Cr50Ni-Nb	2.4856
A560 - 60Cr40Ni	2.4602	



RENEWABLE ENERGY



WINDMILL

We use windmills to help generate electricity for commercial use. Since our energy generation does not rely on fossil fuels, our electricity prices are insulated from the volatility of commodity pricing. This approach has allowed us to generate efficiencies of scale that further drive down system costs.

Installing a renewable energy system is one of the best ways to reducing carbon impact on the environment.

SOLAR PANELS



As a responsible company, we can help protect the environment now and for future generations by producing our own solar energy. Solar energy helps decrease the amount of fossil fuels we utilize, thereby decreasing pollutants causing global warming. Existing sources of energy are becoming increasingly expensive as they are being depleted, but solar is a plentiful, reliable, and renewable energy source. Adding a solar power generating system to our enterprise is a responsible business decision that makes us feel good about benefitting the environment.

Renewable solar energy contributes to the reduction of our country's dependence on foreign fuel, which makes generating our own electricity from a solar energy system patriotic as well as environmentally and fiscally responsible.



ISO 9001 CERTIFICATE



PED CERTIFICATE



AD CERTIFICATE



NORSOK M650 CERTIFICATE



IBR CERTIFICATE

APPLICATIONS



Automobile



Machine Tools



Power Plant



Valves



Food Processing



Defense



Pumps



Textile



Surgical Implants



Rainbow Technocast

Mfg. of Ferrous & Non Ferrous Investment Castings

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