



the company

VISION

To be a global solutions provider for metallurgical components for diversified markets; to optimize relevant and innovative technologies and retain our position as leaders in the Indian investment casting field.

MISSION

To achieve customer satisfaction through a solutions-driven approach and create a significant international presence by offering cost-effective and high-end technologies to diversified markets across the globe.

A PART OF THE NETERWALA GROUP OF COMPANIES

The Group is a professionally-run and family-owned business enterprise with more than five decades of steadfast growth & experience in its industry. It is technologically-robust with diverse manufacturing interests in metallurgy, engineering, environmental engineering, human resource related softwares, oil-field chemicals & instrumentation and specialty chemicals.

Continuous innovation, sustained dedication of employees, a judicious use of acquired technologies and a strong international presence through joint venture partnerships are the many factors that have together ensured the Group's leading market position.



the timeline

- 1974** A Collaboration with Deritend Precision Casting Limited, (U.K.)
- 1977** Commenced manufacturing in the Thane plant
- 1986** Set up a second plant at Maneck Nagar to enhance capacity
- 1991** Obtained approval in accordance with AD Merkblatt WO/TRD 100 from TUV Nord
- 1994** Acquired accreditation of **ISO 9001 Quality System** from TUV CERT
- 1994** Installed CAD/CAM systems at the Thane plant
- 1996** Expansion of Maneck Nagar plant was carried out with the addition of 20,000 sq ft area and a controlled atmosphere heat treatment furnace was installed
- 2001** Received Self-Certification status from the Ministry Of Defence
- 2002** Set up a **2.4 MW wind farm**
- 2002** Set up a Standard Room on international norms
- 2005** Set up the third plant at Nasik with **India's first robotic** shelling line
- 2007** Modernized the heat treatment plants and enhanced capacity by 35% at Maneck Nagar plant and 40% at Nashik plant
- 2008** Set up **in-house CNC machining facilities** with state of the art VMCs, HMCs, etc. along with CNC CMMs

core competencies

- An R&D set-up that is recognized by the Department for Scientific and Industrial Research, Government of India
- In-house capabilities to manufacture various types of waxes and ceramic cores, both castable and injectable for complex parts
- Design and development capabilities for a wide variety of castings in intricate shapes, sizes, weights and hard-to-cast parts
- Engineering support that carries out timely part design alterations as per changing customer needs
- A single source for all client needs with multiple manufacturing plants that provide reliability and flexibility to the customers
- A workforce that is qualified, skilled and disciplined
- Sound process control systems that achieve the most stringent of requirements
- Casts of over 200 different alloys can be created according to various international specifications
- More than 10,000 parts have been developed in-house

quality certifications, objective and testing facilities

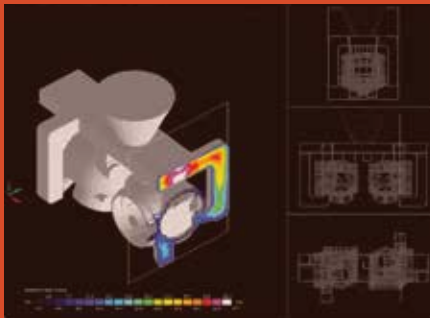
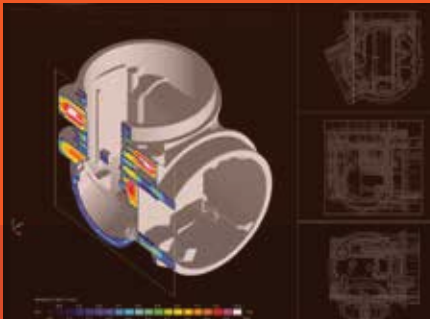
- ISO 9001:2000 / EN ISO 9001:2000 by TUV Nord, Germany
- ISO/TS 16949:2002 Certification from TUV Nord, Germany
- AD 2000 Merkblatt WO statutory source approval in accordance with German regulations
- PED/97/23/EC certification from TUV Nord, Germany
- Self-certification status from automotive manufacturers and OEM's
- CNC-CMMs and metrological equipment
- Casting, washing and millipore testing to ensure cleanliness standards
- In-house pressure and leak test facilities



- Difficult and intricate shapes are cast inexpensively which otherwise would have been machined from bar stock
- Tool costs are significantly lower than those of forging or die casting
- In the designing of thick and thin walls, investment casting provides flexibility in a single piece with many transitions. Thus, through this process, complex parts are made easily
- Simplifies assembly requirements by the consolidation of multiple parts, that otherwise would require welding into a single piece casting
- High volumes with consistency in quality are assured
- There is a multitude of choice available for casting the part in any alloy, thus permitting designers total freedom to achieve the end-use specification
- A smooth and clean finish is achieved as the end result
- The turnaround time is much faster and hence can reach markets quicker



advantages of investment casting



process up-gradations

- India's first robotic shelling system commissioned in UDL, Nashik
- Automated material-handling systems for waxes
- Conveyor system for material-handling in foundry
- Controlled atmosphere & high temperature heat treatment furnaces
- Controlled atmosphere and high temperature heat treatment furnaces
- In-house induction hardening furnaces
- Rotary hearth furnace for pre-heating of moulds for a FIFO system
- Simulation software to speed up development of new jobs to ensure first-time right castings



export markets

MARKET SEGMENTS

Automotive

Pumps & Valves

Locomotive (Turbo Charger)

Diesel Engines

Trucks, Trailers & Tractors

Earth Moving Equipment

Air & Gas Compressors

Electrical Engineering

Nuclear Power Plants

Defense

General Engineering

EXPORTS

Germany/USA

Europe

USA

Switzerland/Germany

Italy/Germany

Spain

Japan

Australia

Poland

Denmark

Sweden/Denmark



Dimensional

Coordinate Measurement Machine (CMM)
Contracer
Surface Finish Measurement Machine
Profile Projector
Standards Room

Analytical

Optical Emission Spectrometer
Calorimetric Analysis
Wet Chemical analysis
Corrosion testing

Mechanical Testing

Tensile testing
Impact testing
Hardness testing

in house testing facilities

Non-Destructive

Magnaflux testing
Dye Penetrant testing
Ultrasonic testing
X-Ray & Gamma Ray (outsourcing)

Metallography

Microscope with
Photographic attachment
Micro hardness tester

r&d achievements

- Indigenisation of all raw materials and consumables like binders, waxes and stucco materials
- Development of ceramic binders and wax formulations:
 - Pattern waxes - filled and unfilled
 - Water soluble waxes
 - Riser waxes
 - Ceramic filters
 - Injection molded ceramic cores
 - Chemically set ceramic cores
 - Ceramic cement from ceramic shell waste
- Design and installation of an effluent treatment plant for water-soluble waxes



value chain extension

- CNC machining facilities consisting of Haas and Makino HMCs and VMCs & LMW CNC Turning Centers
- CAD & CAM Systems for machining and tooling
- Welding Capabilities
- Manufacture of sub-assemblies

product capabilities

Weight per casting	6 grams to 90 kgs
Shape & Size	upto 600 mm dia
Materials	Over 225 alloys, Conforming to IS, BS, AISI, ASTM, DIN & other international standards

Carbon Steels
Copper alloys
Low alloy steels
Nickel alloys
High-alloy steels
Cobalt alloys
Stainless steels
Aluminum alloys
Equivalents of Monels,
Hastelloys, Stellites, etc.

value engineering by investment casting process

We have helped many customers reduce costs by providing design for their parts and offering metallurgical alternatives.

CASE HISTORIES

Here are some before and after examples that illustrate how UDL has helped many customers achieve near net-shaped components with considerable cost savings.

Sl. No.	Part	Process used before	Advantages
1	Compressor plate	Stamping 3 different plates from sheet metal, machining, friction welding the 3 pieces together for making the final component	The elimination of welding makes the component more reliable and consistent in quality.
2	Engine Tappet		Shorter lead time and lower costs by the elimination of processes (welding & machining). Converted into a single piece.
3	Impeller	Shell moulded and machined	Having a good as cast surface finish means that the pump efficiency is increased with minimal machining. Cost savings due to reduced machining stock.
4	Guide Steering Lock with an inside undercut	Sand castings and subsequent machining	Ceramic core technology allows us to cast undercuts, eliminating this complex machining operation, in turn reducing the weight by 115%. Reduced rejects lead to a better supply lead times.
5	Eye Casting for Textile Spinning Machine	Complex shape machined out of bar stock	Machining cost and time saved. A weight reduction of 200% was achieved. Shorter delivery time.
6	Transmission forks	Forging and complex machining	Besides the weight reduction, machining is also reduced. Improves delivery time & inventory carrying costs.

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