



UNITED ENTERPRISES

FURNACE & FURNACE ATMOSPHERE

SINCE
1998

ONE STOP SOLUTION TO ALL YOUR FURNACE NEEDS



1000+
Installations

250+
Clients Worldwide

30°C to 3000°C
Heating Range

99.99%
Gas Purity Achievable

PRODUCT VERTICALS

TURNKEY PROJECTS: Continuous Annealing Line (CAL), Continuous Galvanizing Line (CGL), Paint Coating Line, Sintering Line, Razor Blade Production Lines

CONTINUOUS FURNACES: Bright Annealing Furnace, Roller Hearth Furnace, Mesh Belt Furnace, Strand Annealing Furnace, Wire Patenting Furnace, Pusher Furnace, Rotary Hearth Furnace, Walking Beam Furnace, Billet/Slab Reheating Furnace

BATCH FURNACES: Bogie Hearth Furnace, Pit & Pit-Pot Furnace, Bell Furnace, Box Furnace, Hood Furnace, Rotary Retort Furnace, Salt Bath Furnace, Sealed Quench Furnace (SQF), Solution Hardening Furnace with Charge Manipulator, Melting Furnace

GAS GENERATION SYSTEMS: Ammonia Cracker, Nitrogen, Oxygen, Hydrogen, Exothermic and Endothermic Gas Generators, Gas Mixing Unit

HEAT TREATMENT FURNACES: Annealing Furnace, Bluing Furnace, Carburizing Furnace, Carbo-Nitriding Furnace, Dehydrogenation Furnace, Hardening Furnace, Tempering Furnace, Aluminium Homogenizing Furnace, Nitriding Furnace, Post-Weld Heat Treatment Furnace

VACUUM & HIGH TEMPERATURE FURNACES: Vacuum Heat Treatment Furnace, Vacuum Brazing Furnace, Pyrolysis Furnace, De-binding Furnace, Graphitization Furnace (3000°C)

JEWELLERY FURNACES: Static Annealing Furnace, Belt Furnace for Brazing/Soldering & Continuous Annealing, Wire Annealing Furnace, Hardening Furnace

INDUSTRIAL OVENS: Electrically Heated Oven, Gas Fired Oven, Oil Fired Oven, Muffle Furnace, Incinerator, Fire Assay & Cupellation Furnace

KEY ACHIEVEMENTS

- The only firm of its kind, worldwide with integrated capability to engineer such an extensive range of furnaces together with gas generators under a single roof.
- India's first Anti-Flaking (Dehydrogenation) Furnace for hydrogen removal in critical steel.
- Manufactured India's largest 300 Nm³/hr Ammonia Cracker for a major steel plant.
- Developed & commissioned India's first ultra-high-temperature 3000°C Graphitization Furnace, setting a new benchmark in advanced thermal processing.
- Successfully executed On-site heat treatment for the Kudankulam Nuclear Plant Dry Shield.
- Provided consultancy to Jindal, Hissar for the bright annealing of cupro-nickel alloy for Indian coinage — the pivotal material in Indian coin currency.
- Innovated India's first coal-fired Exo-Gas Generator capable of producing exo-gas from coal, supplied to Jindal Saw Pipe, Nashik.
- Spearheaded the development of the nitriding process for MIG fighter-aircraft components nitriding process.

CERTIFICATIONS & RECOGNITION

- ISO-certified quality systems
- CE-compliant engineering
- Recognized as Top 10 Industrial Furnace & Oven Manufacturers (2024 & 2025) by Industry Outlook Magazine

CLIENT CREDIBILITY

- 250+ satisfied industrial clients
- Trusted by PSU and multiple defence-sector organisations
- Supplying leading steel and engineering companies across India

Contact us for custom-engineered solution for your thermal process.

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