



PRECONS

INDUSTRIAL FURNACES



PRECONS

BELL ANNEALING FURNACES – ELECTRIC / GAS



APPLICATIONS:

Steel Plants, Fastener Industries, Auto components, Manufacturer of Bearings, Bicycle Parts, Roller Chains, Forged components, Wire Processing Units- Commercial Heat Treaters.



SALIENT FEATURES:

- Trusted and dependable name with over 5 decades of experience.
- Best Quality output at economical installation and operating cost.
- Excellent temperature uniformity.
- Decarb control through unique Hydro-carbon liquid purging/Vacuumization systems.
- Electric and Fuel fired options are available.
- Auto Operation through PLC and SCADA.
- Available in 6T/7T/10T/15T/18T/30T and Higher capacities or request.
- Furnaces complying with CQI-9 requirements.
- Application: -Spheroidized & RC Annealing of wire rod coils/ Strips/Auto components.

“Quality is not an act, it is a habit.”

CONTINUOUS HARDENING AND TEMPERING FURNACES



APPLICATIONS:

For Manufacturers of Fasteners, Screws, Nails, Auto components, Bearings, Bicycle Parts, Roller Chains, Forged components, Commercial Heat Treaters.



SALIENT FEATURES:

- Trusted and dependable name with over 5 decades of experience.
- Well suited for through hardening/case Hardening and tempering of fasteners and other cold forged auto components.
- Consisting of auto feeder, prewash, hardening, oil quenching, post wash, tempering and Thermal blackening.
- Methanol & LPG atmosphere.
- PLC based SCADA control system.
- Oxyprobe carbon potential system.
- Furnaces complying with CQI-9 requirements.
- India's largest manufacturer of continuous line furnaces.
- Energy efficient and Sturdy design
- Standard available model's 225 – 250 kgs/hr., 450-500 kgs/hr., 1000 kgs/hr. and 1200 kgs/hr.

“Quality isn't expensive, it's priceless.”

BELL TYPE BAR ANNEALING FURNACES



APPLICATIONS:

Steel Plants, Fastener Industries, Automobiles, Manufacturers of Bicycle Parts, Bearing Industries, Roller Chains, Forged components, Wire Processing Units – Commercial Heat Treaters.



- Trusted and dependable name with over 5 decades of experience.
- Best Quality output at economical installation and operating cost.
- Excellent temperature uniformity.
- Decarb control through N₂ Purging.
- Electric and Fuel fired options are available.
- Auto Operation through PLC and SCADA.
- Available in 10T/20T/25T/30T/40T and Higher capacities on request.
- Furnaces complying with AMS 2750 latest Standard & CQI- 9 requirements.
- Application: - Spheroidized annealing & RC Annealing of wire rod coils/Auto components.



DROP BOTTOM QUENCH FURNACES

APPLICATIONS:

Aluminium Sheets /Plates, Aluminium Components of Aerospace, Defence and Aeronautical, Automobile, Bicycle Parts, Forged components.

SALIENT FEATURES:

- Trusted and dependable name with over 5 decades of experience
- Affordable solution for demanding automotive and aerospace application.
- India's first furnaces company to have NADCAP compliant technology
- Furnaces complying with AMS 2750 latest standard.
- Process: - Solutionizing, Annealing, Ageing.
- Quench delay time within 5 to 15 seconds depending on application
- Batch capacity up to 20MT Electrically heated
- Well adapted for aluminium solution treatment for aerospace application
- Complete Auto Operation through PLC and SCADA.



“All our customers are partners in our mission.”

OTHER RANGES OF FURNACES AND FEATURES

COMPOSITE CURING OVENS:



- Trusted and dependable name with over 5 decades of experience.
- Affordable solution for Aerospace and Automotive industries in the field of composite curing.
- Aerospace and Automotive industries are using composite material to help their products lighter, stronger and faster.
- Lower installation and operating cost.
- Various capacities and sizes of box type and trolley type designs are available.
- Curing ovens are complying with AMS-2750-Class 1 standard & NADCAP.
- Complete Auto Operation through PLC and SCADA.
- Ovens are provided with vacuum ports and vacuum measurement ports with necessary instruments to ensure the products are cured under desired vacuum also.

AGEING OVENS:

- For Aerospace, Automotive, transportation industries in the Field of ageing application.
- Ageing ovens are used to increase the yield and tensile strength of aluminium parts.
- Aluminium/Aluminium alloys are slowly heated and soaked at low temperature to Increase the strength.
- Excellent temperature uniformity as per AMS 2750-Class 1 standard & complying with NADCAP.
- Complete auto operation through PLC & SCADA.
- Low installation & operation cost.



MOVING TYPE ANNEALING CUM AGEING FURNACE:



- Stationary base with moving type furnaces
- Batch capacity: Depends upon customer requirement
- Annealing and ageing of aluminium alloys
- Charge material – aluminium wires, Bobbin and drums.
- Maximum Temperature up to 600°C.
- Cost effective
- Optimum space utilization
- Optimum operating cost
- Easy mechanised loading of bobbins for second and third tier.

TRANSFORMER CORE ANNEALING FURNACES:

- Batch capacity as per customer requirements.
- Specially designed for annealing CRGO silicon core.
- Bogie hearth construction for easy loading/unloading.
- Maximum temperature up to 800°C.
- Nitrogen atmosphere for scale free annealing
- Optimum Nitrogen gas consumption



“Customer satisfaction is our motto and is priceless.”

LARGE CAPACITY GAS FIRED RE-HEATING & HEAT TREATMENT FURNACES

GAS FIRED RE-HEATING FURNACES



SALIENT FEATURES:

- Reheating furnaces are used to heat the steel stock (billet, blooms and slabs)
- Type of furnaces: Box type furnaces/ Bogie type furnaces
Features:
 - Batch capacity up to 150 tonnes
 - Max temperatures up to 1300°C
 - Energy efficient combustion system
 - Less scale loss
 - Better temperature uniformity
 - Multipurpose application like hardening, tempering, normalizing etc.
 - Auto operation through PLC & SCADA.

BOGIE HEARTH HEAT TREATMENT FURNACES

SALIENT FEATURES:

- Batch capacity up to 300 MT
- Maximum temperature up to 1150°C
- Gas fired options
- Better combustion efficiency
- Auto operation through PLC & SCADA.
- Close temperature control accuracy
- Suitable for annealing, normalising, tempering & stress relieving of heavy engineering components like boiler parts, steel rolls, forged & cast parts etc.
- Meeting IBR requirement for the heat treatment of high pressure Boiler parts.



ROTARY FURNACES



SALIENT FEATURES OF ROTARY FURNACES

- Pre-sintering of ferrites
- Calcination, reduction, stabilization and reoxidation of Minerals, iron ores, controlled oxidation, drying and hydro fluorination etc.,
- Drying of alumina oxide powder
- Capacity up to 750 Kgs/hr.
- Horizontal draw out type furnaces for easy maintenance
- Maximum temperature up to 1100°C
- Atmosphere control with mechanical seal design
- Electric/fuel fired option
- Scrubber system for exhaust gas cleaning

“Customer's perception is our reality.”

OUR PRODUCTS AT A GLANCE

INDUSTRIAL FURNACES

- Electric & Gas fired Bell type spherodized annealing furnaces
- Continuous hardening and tempering furnace line
- Bell type bar annealing furnaces.
- Electric & Gas fired Bogie hearth furnaces.
- Drop bottom quench furnace for solution annealing of aluminum alloy.
- Pit furnaces.
- Continuous Roller hearth furnaces
- Rotary tube furnaces
- Gas fired Reheating & heat treatment furnaces.
- Box and bogie type aluminum homogenizing furnace.
- Thermal Stability furnaces.
- Modular Furnaces.

INDUSTRIAL OVENS

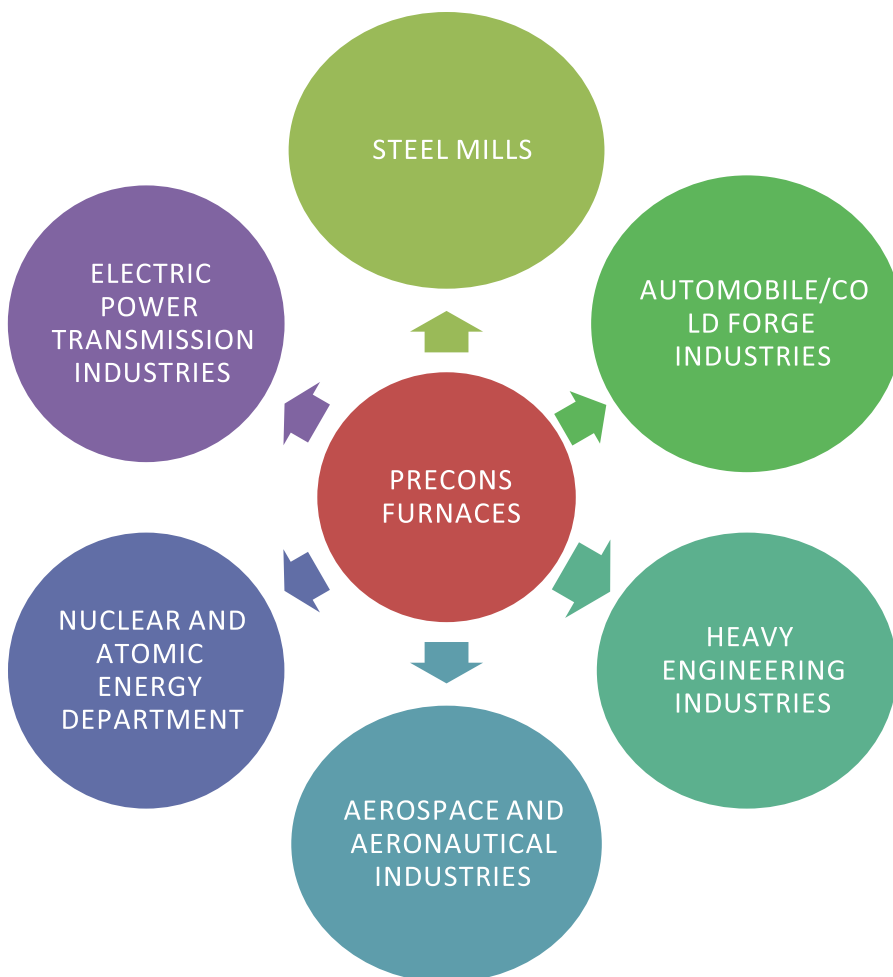
- Composite Curing Ovens.
- Ageing Ovens.
- Continuous mesh belt conveyor type Dacro coating Ovens.
- Continuous mesh belt conveyor type Hydrogen De- embrittlement ovens.

SPECIAL EQUIPMENTS

- Autoclave machines
- Vacuum Chamber
- Billet Heating Furnaces
- Charging machine



OUR PRODUCTS - INDUSTRY WISE SPREAD



“Perfection is not attainable. But if we chase perfection, we can catch excellence.”

CUSTOMER SPREAD ACROSS INDIA



WESTERN INDIA



EASTERN INDIA



NORTHERN INDIA



SOUTHERN INDIA

CUSTOMER SPREAD ACROSS GLOBE



A FEW OF OUR MOST VALUED CLIENTS



PRECISION CONTROLS

PRECONS



OFFICE & WORKS



No. 424, SIDCO INDUSTRIAL ESTATE,
AMBATTUR, CHENNAI – 600098. INDIA



PHONE : 044 – 61344200 – 299 (100 LINES)

DIRECT: 044 – 61344250

MOBILE: +91 9840930370



CORPORATE OFFICE



NO.5A, D SILVA ROAD
MYLAPORE CHENNAI - 600004 INDIA.



Email : info@precons.in

Website : www.precons.in

Website : www.preconsfurnaces.com



OUR GROUP COMPANIES

MIRRA AND MIRRA INDUSTRIES
OPULENT VENTURES PRIVATE LIMITED
OPULENT GREEN ENERGY PRIVATE LIMITED