

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 **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:

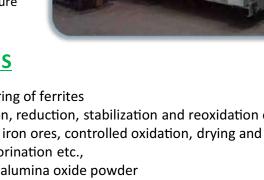
- \geq Batch capacity up to 300 MT
- ≻ Maximum temperature up to 1150°C
- ≻ Gas fired options
- ⊳ Better combustion efficiency
- ≻ Auto operation through PLC & SCADA.
- ≻ Close temperature control accuracy
- \triangleright Suitable for annealing, normalising, tempering & stress relieving of heavy engineering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

SALIENT FEATURES OF ROTARY FURNACES



ROTARY FURNACES

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



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 Deembrittlement ovens.

SPECIAL EQUIPMENTS

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



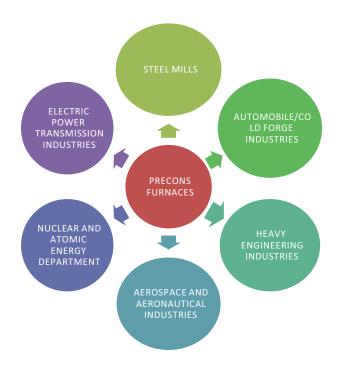








OUR PRODUCTS - INDUSTRY WISE SPREAD



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

CUSTOMER SPREAD ACROSS INDIA





PRECISION CONTROLS

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