

DROP BOTTOM QUENCH FURNACE

- ▶ Batch capacity up to 20 MT.
- ▶ Well adapted for aluminium solution treatment for aerospace application.
- ▶ Maximum temperature up to 650 °C.
- ▶ Electrically heated.
- ▶ Temperature uniformity within ± 2-3° C.
- ▶ Electromechanical / Electrohydraulic winch for quenching within 15 seconds or Unique hydraulic scissor platform design to facilitate fast quenching within 7 seconds.



ROTARY TUBE FURNACE

- ▶ Capacity up to 750 Kg/hr.
- ▶ Varied applications such as :
 - ▶ Pre-sintering of ferrites,
 - ▶ Calcination, reduction, stabilisation and reoxidation of minerals, ores, etc.,
 - ▶ Drying of alumina oxide powder.
- ▶ Maximum temperature up to 1000 °C.
- ▶ Horizontal draw out type furnace for easy maintenance.
- ▶ Atmosphere control with mechanical seal design.
- ▶ Super kerosene firing option, using monobloc burners.
- ▶ Scrubber system as option.



REHEATING FURNACE

- ▶ Batch capacity up to 150 MT.
- ▶ Specially designed for reheating of ingots for forging seamless rings, rolls, pipes, etc.,
- ▶ Box or Bogie type options.
- ▶ Maximum temperature up to 1300 °C.
- ▶ Oil or gas fired options.
- ▶ Mass flow fuel control for better combustion efficiency.
- ▶ Unique flat roof construction.
- ▶ Energy efficient recuperator.
- ▶ PC-PLC control.



ABOUT US

- ▶ Founded in the year 1971, Precision Controls (PRECONS) have close to four decades of experience behind us in the design and manufacture of industrial furnaces for varied and demanding applications. PRECONS furnaces are performing commendably in diverse sectors such as auto/auto ancillaries, heavy & medium engineering, aerospace, nuclear, metal industries such as steel / aluminium and electrical and electronics.
- ▶ Equally impressive is our range of applications that include atmospheric / non-atmospheric and continuous / batch types. PRECONS can proudly claim to be the pioneer and market leader in the bell annealing furnace design of domestic origin and has to its credit more than 100 installations in India and abroad. PRECONS has recently developed a 30T bell annealing furnace, the largest ever attempted by an Indian manufacturer.
- ▶ Vantageously located in the leading industrial estate of Ambattur in Chennai, PRECONS is operating in a covered shed area of close to 50,000 sq.ft spread over two locations separated by a distance of not more than 2 KMs. Thus it has the benefit of access to skilled vendor base and an efficient supply chain back up.
- ▶ PRECONS' major strength is our commitment to customer satisfaction as can be seen from the repeat orders our customers prefer to place on us time and again. We are fortunate to have an array of best known names in different industry segments as our clientele.



PRECISION CONTROLS

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Industrial Furnaces
PRECONS

FURNACE / PRODUCT CATEGORIES				INDUSTRY SEGMENT								
Level 1	Level 2	Level 3	Application	Auto / Auto Components	Steel	Aluminium	Heavy & Medium Engg	Aerospace	Nuclear	Electrical/ Electronics	Ceramics	
Atmospheric	Continuous	Mesh Belt	Hardening & Tempering									
			Sintering									
		Multi strand	Annealing									
			Patenting									
		Rotary Kilns	Oxidation/ Reduction/ Calcination/ Etc of minerals									
			Nitriding									
		Batch	Pit	Carburizing								
				Carbonitriding								
	Through hardening											
	Annealing/ Bright Annealing											
	Bell Type		Spheroidised Annealing									
			Spheroidised Annealing									
	Non – Atmospheric	Continuous	Pusher	CRGO Transformer core annealing								
				Pusher								
			Roller Hearth	Billet heating								
				Annealing / Normalising								
Batch		Rotary Kilns	Oxidation / Reduction / Calcination / etc of minerals									
			Heat treatment/ Heating									
		Bogie Hearth	Bar Annealing									
			Pit	Varied applications								
Industrial Ovens	Continuous	Drop bottom Quench furnace	Solutionising									
			Kilns	Debinder/ Sintering								
		Mesh belt	Dacro coating									
			Hydrogen de-embrittlement									
	Batch	Bogie hearth	Composite curing									
			Ageing									
Vacuum chamber			Electron beam welding/ simulated Testing									
	Storage systems			Spent fuel storage								

Over three decades of experience