



- Steel & Cast Iron Industry Furnaces
- CNG Cylinders Heat Treatment Lines
- Aluminum Industry Furnaces
- Gas Carburizing Lines
- Automotive Industry Furnaces
- Electricity Industry Furnaces



#### ATBIN INDUSTRIAL GROUP

#### ATBIN INDUSTRIAL GROUP



High Capacity Furnaces



Medium Capacity Furnaces



Industrial Controllers & Meters



Automation & Control Equipments



Field Instruments



Thermocouples & Sensors



Combustion Systems (Krom Schroeder collaboration)



Insulating Materials (Isolite collaboration)

## HIGH CAPACITY FURNACES High Capacity Furnaces ATBIN INDUSTRIAL GROUP

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#### Introduction



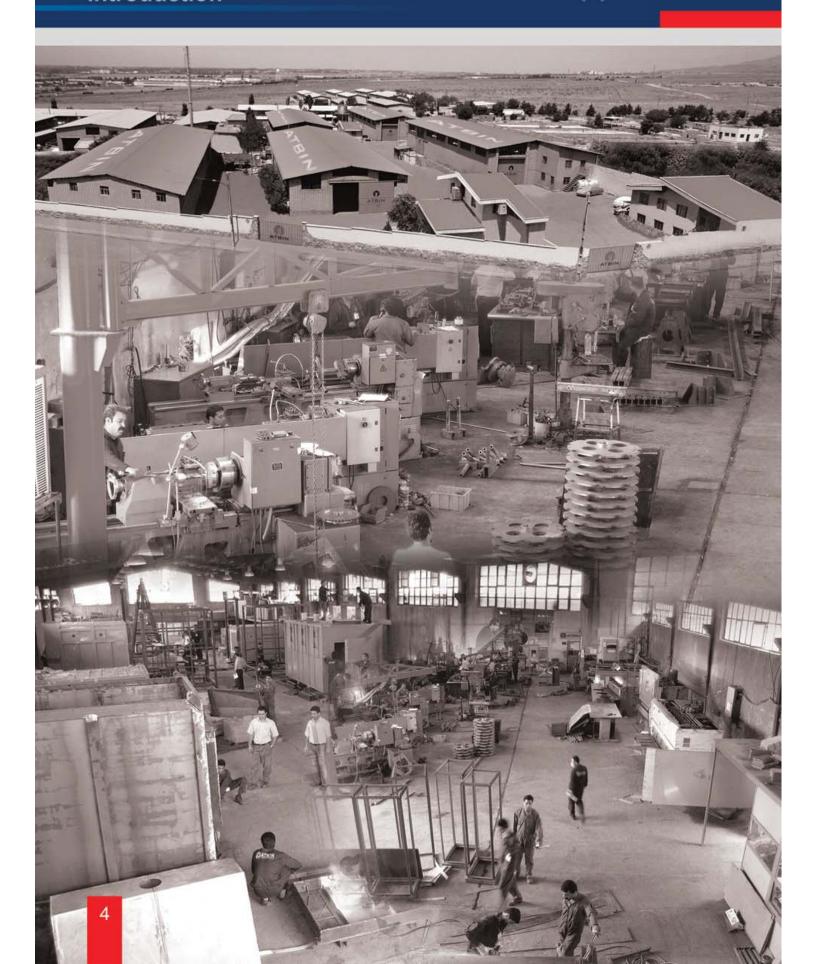
With over two decades of experience and 500 personnel, ATBIN Industrial Group is one of the pioneers in the region heat treatment industries.

At the time being other than having exports to 17 countries worldwide, thousands of ATBIN furnaces are in operation throughout the region and several heat treatment projects are either in progress or already executed by ATBIN. Higher technology furnaces are produced under licenses of creditable European and Asian companies.



#### Introduction









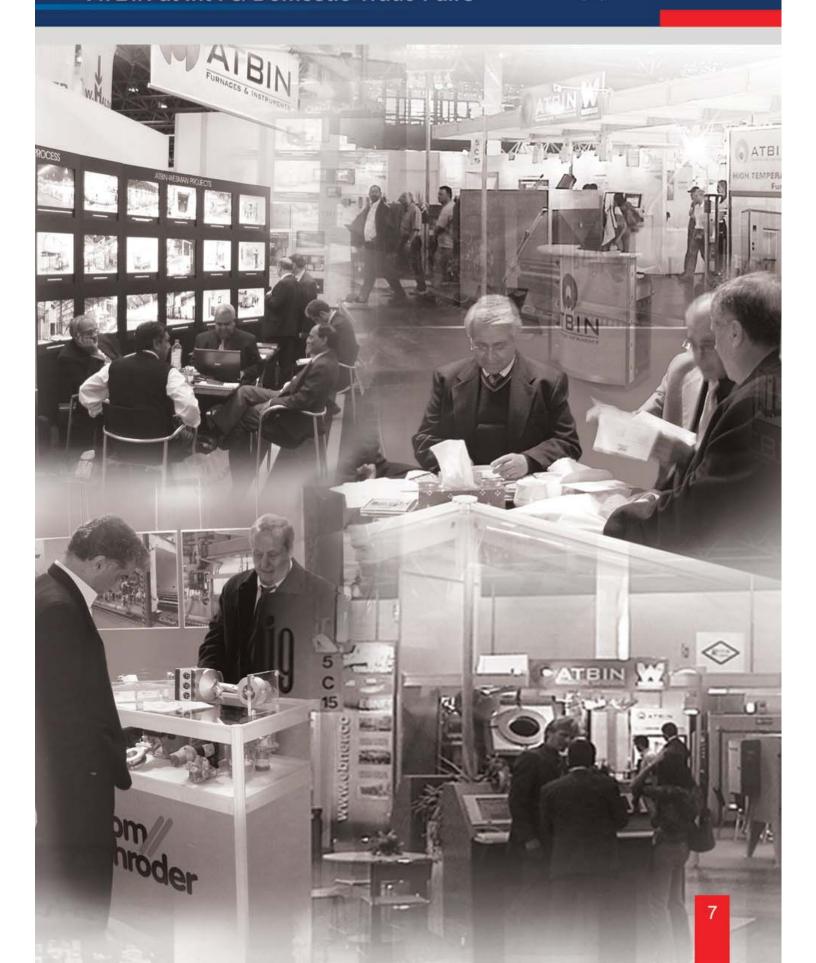
## Trade Fairs ATBIN at Int'l & Domestic Trade Fairs





#### ATBIN at Int'l & Domestic Trade Fairs





## **Trade Fairs**

ATBIN at Int'l & Domestic Trade Fairs

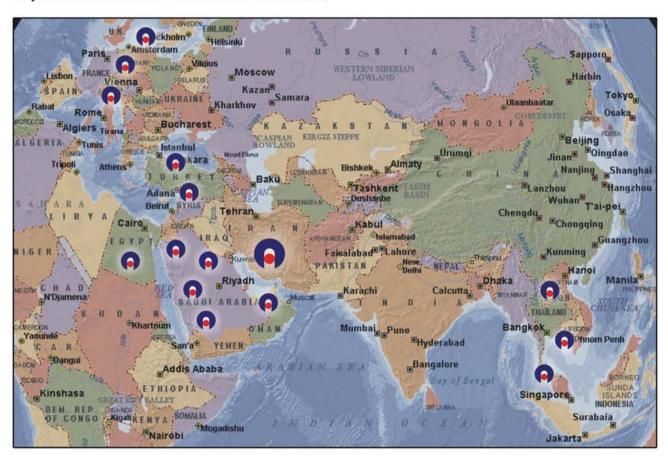




## ATBIN's Exports ATBIN's Exports



#### Export to seventeen countries in the world



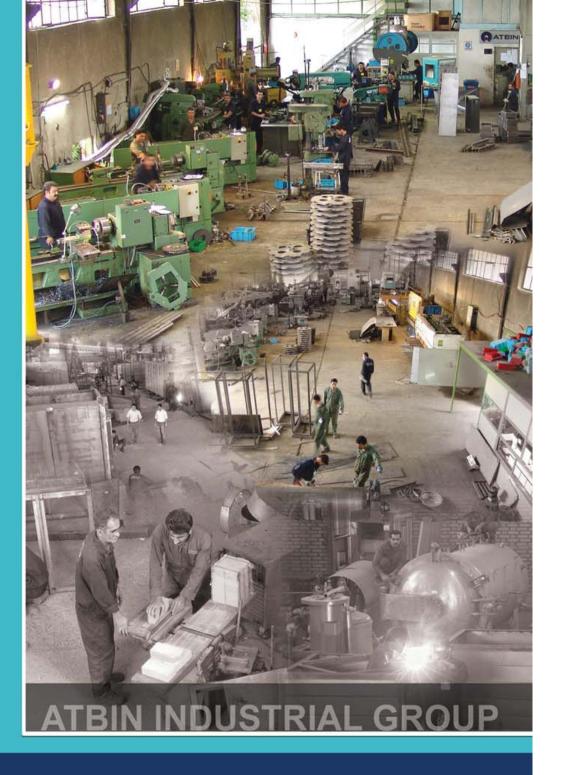
Having complied with internatinal standards and principles of furnace design and manufacturing, ATBIN now is in the lead
of and the only furnace manufacturer in the region exporting to Europe.



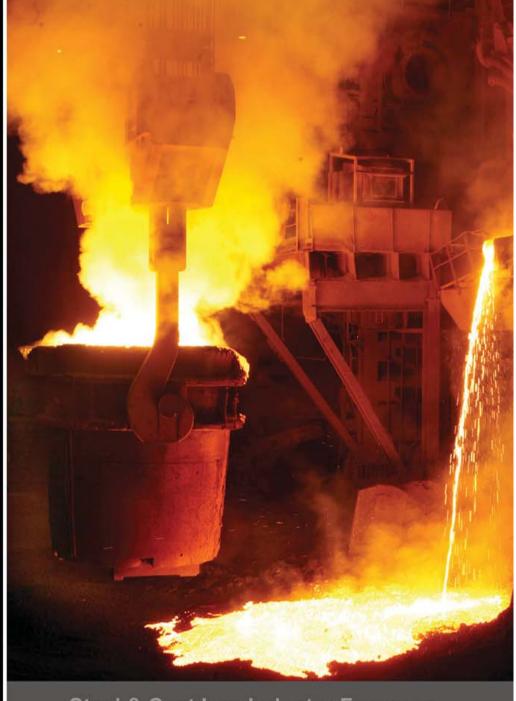


# ATBIN Industrial Group

				2			
	Ceramic Fibers & Firebricks	Combustion Systems	Thermocouples & Sensors	ATBIN Projects, Industrial Furnaces & Ovens	Controllers & Meters	Industrial Automation	Instruments & Control Equipments
CNG Cylinders Hardening Lines	Jening Lines	I Steel Industry Furnaces	urnaces	Automotive Industry Furnaces	Gas Carl	Gas Carburizing Lines	Atmosphere Controlled & Vacuum Furnace
Walking Beam Austentizing Furnace     Automatic Quenching System     Continuous Tempering Furnace     with Hot Air Circulating System     Conveyer     Walking Beam     PLC-controlled Automation & Monitoring System	g System ng Furnace ng System ng System mation &	Bogie Hearth Heat Treating Furnaces Rotary Hearth Heat Treating Furnaces Rolling Lines Preheating Furnaces - Rolling Lines Preheating Furnaces - Walking Hearth Type - Walking Beam Type - Walking Beam Type Walking Beam Furnaces	Treating Treating sting Furnaces pe dening laces	Fuel-fired/Electrical Isothermal Annealing Line including: -Austenitizing Furnace - Fast Cooling Zone - Hot Air Circulating Furnace - Automotive Parts Heat Treating Furnaces - Core Paint Drying Line - Stabilizer Bar Hardening Line - Helical/Leaf Springs Heat - Treatment Furnaces - Piston Graphitzing Furnaces - Aluminum Parts Heat Treating - Furnaces	Main Carburizing Furnace     Preheating Furnace with H     Air Circulating System     Tempering Furnace with H     Air Circulating System     Endothermic Gas General     Charging and Transportati     System     Washing Machine	Main Carburizing Furnace Preheating Furnace with Hot Air Circulating System Tempering Furnace with Hot Air Circulating System Endothermic Gas Generator Charging and Transportation System Washing Machine	High Temperature Atmosphere     Controlled & Vacuum Furnaces     Pressurized Auto Clave     Atmosphere Controlled Furnaces     Gas Nitriding Furnaces     Continuous Furnaces with Endothermic Atmosphere     Vacuum Furnaces (Driers)     Bell Type & Pit Type Atmosphere Controlled & Vacuum Furnaces     Roller Hearth Furnaces for Bright Annealing of Pipes and Sections with Controlled Atmosphere
Aluminum Industry Furnaces	y Furnaces	Electricity Industry Furnaces	y Furnaces	General Industrial Furnaces	snpul	I Industrial Ovens	High Temperature Furnaces up to 1800
Aluminum Meting & Holding     Furnaces up to 35 Ton     Aluminum Annealing &     Homogenizing Lines     Aduminum Solution Furnaces     According to Aerospace Standards     Aluminum Ageing Furnaces     Gas Nitriding Furnaces     Sheet Preheating Furnaces     Continuous Aluminum Solution     Furnaces     Aluminum Colis Annealing Furnaces     Aluminum Colis Annealing Furnaces	Acking  R  R  R  R  R  R  R  R  R  R  R  R  R	Vacuum Driers     Bell Type Annealing Furnaces     Drying Ovens     Vamish Baking Ovens	Furnaces	• Teflon Firing Lines • Rotary Furnace for Powder Drying • Fuel-fired/Electrical Industrial Furnaces • Bell Type Furnaces • Tempering Furnaces • Salt Bath Furnaces • Ceramic Firing Furnaces	Electrical Indus     Fuel-fired Indus     Equipped with i     Fuel-fired/Elect     Ovens     Electrical Oven     Composite She     Vacuum Ovens	Electrical Industrial Ovens Fuel-fired Industrial Ovens Equipped with Heat Exchanger Fuel-fired/Electrical Continuous Ovens Electrical Ovens for Glass and Composite Sheet Forming Vacuum Ovens	Electrical High Temperature     Furnaces     Gas-fired High Temperature     Furnaces     Elevator Hearth Furnaces     Car Bell Furnaces     High Temperature Atmosphere     Controlled Furnaces



- Steel & Cast Iron Industry Furnaces
- CNG Cylinders Heat Treatment Lines
- Aluminum Industry Furnaces
- Gas Carburizing Lines
- Automotive Industry Furnaces
- Electricity Industry Furnaces
- Other Products



## Steel & Cast Iron Industry Furnaces

- Bogie Hearth Heat Treating Furnaces
- Rotary Hearth Heat Treating Furnaces
- Reheating Furnaces:
  - -Pusher Type
  - -Walking Hearth Type
  - -Walking Beam Type
  - -Roller Hearth Type
- Preheating and Hardening Walking Beam Furnaces

## Steel & Cast Iron Industry

## Steel & Cast Iron Industry





- Applications: annealing, normalizing, hardening, tempering and stress relieving of steel and cast iron parts
- Maximum operating temperature of 1250°C
- Electrical/Fuel-fired heating system
- $^{\circ}$  Advanced pulse firing burners control system to reach to the thermal uniformity of  $\pm 3^{\circ}\text{C}$
- Different types of burners:
- Burners with ceramic blocks
- Burners with SiC tubes and higher velocity
- Self-recupareator burners with ceramic tubes





## Steel & Cast Iron Industry



#### **Steel & Cast Iron Industry**



- . Loading types: bogie hearth / rotary hearth / stationary
- Door types: motoried or hydraulic rising type / hinged type / fixed-to-wagon type
- Bogie movement: manual / motoried with rack & pinion system
- . Internal lining made of ceramic fiber modules (Z-block)
- No direct contact of flame with treated parts
- Surface oxidation control system
- Adjustable cooling cycles
- PLC-controlled automation and central monitoring system



## Steel & Cast Iron Industry

## Steel & Cast Iron Industry





#### **Reheating Furnaces**

- For reheating of various types of steel section for production of profiles, rods, ...
- Thermal uniformity of ±100°C
- · Fuel-fired heating system
- Maximum temperature of 1250°C
- Movement system: Pusher type, Walking hearth, Walking beam
- Maximum output capacity: 100 ton/hr
- Equipped with recuperator system
- Pressure control system to minimize the oxidation and scale loss
- PLC-controlled automation and central monitoring system





## **CNG Cylinders Hardening Lines**

- Walking Beam Austenitizing Furnace
- Automatic Quenching System
- Continuous Tempering Furnace with Hot Air Circulating System
  - Conveyer
  - Walking Beam
- PLC-controlled Automation & Monitoring System

#### **CNG CYLINDERS HARDENING LINES**

## CNG Cylinders Hardening Lines





#### **CNG Cylinders Hardening Line:**

- The line is comprised of three main parts:
- 1- Hardening furnace
- 2- Automatic quenching tank
- 3- Tempering furnace
- Capable of charging CNG cylinders in different sizes and weights
- Continuous with adjustable motion pace
- Gas fired heating system
- No direct contact of flame with the surface of treated parts





#### **Hardening Furnace**

- Gas fired heating system
- Continuous walking beam type
- Maximum temperature: 1100°C
- With preheating and soaking zones
- Low surface oxidation
- Automatic cylinder charging and discharging tables

#### **CNG CYLINDERS HARDENING LINES**



#### **CNG Cylinders Hardening Lines**



#### **Automatic Quenching Tank**

- Automatic immersion and extraction of the cylinders
- · Affording various quenching methods
- · Equipped with the cooling and heating systems
- Suitable agitation inside the quenching tank



#### **Tempering Furnace**

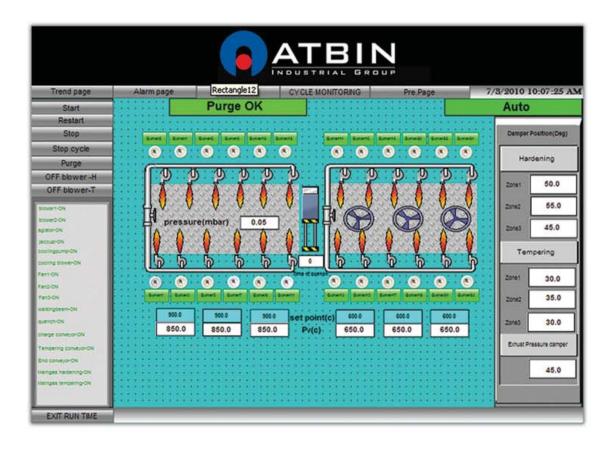
- Gas-fired heating system
- Continuous movement with conveyor or walking beam systems
- Hot air circulation system to reach to the best thermal uniformity
- Maximum operating temperature of 750°C
- Including preheating and soaking zones with excellent thermal uniformity
- . No direct flame contact with treated parts



#### CNG CYLINDERS HARDENING LINES

#### **CNG Cylinders Hardening Lines**

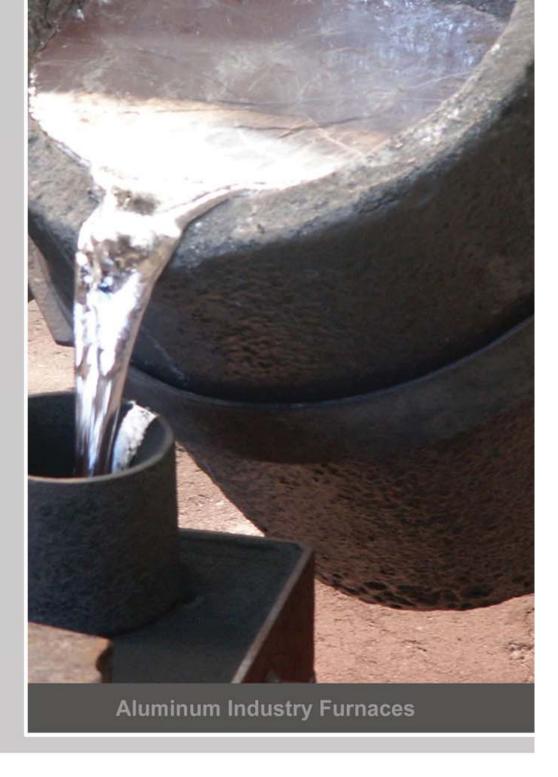




#### PLC-controlled Automation & Monitoring System:

Capabilities of this system are:

- Temperature control and display of actual and set temperatures graphs in each zone
- · Display of burners status
- Display of temperature graphs for each zone (Temperature-Time graph)
- Data recording such as temperature, pressure, ...
- Display of doors status
- Display of system motion performance
- Display of motor fans mode (On/Off)
- Display of PLC operation option (Manual/Automatic)
- Alarming in cases of air pressure drop, gas pressure drop/rise, temperature rise in each zone, burner turn off and PLC malfunction



- Aluminum Melting & Holding Furnaces up to 35 Ton
- . Aluminum Annealing & Homogenizing Lines
- Aluminum Solution Furnaces According to Aerospace Standards
- Aluminum Ageing Furnaces
- Gas Nitriding Furnaces
- Sheet Preheating Furnaces
- . Continuous Aluminum Solution Furnaces
- Aluminum Coils Annealing Furnaces

## ALUMINUM INDUSTRY ALUMINUM INDUSTRY





#### Aluminum Melting & Holding Furnaces up to 35 Ton

- Gas, gas-oil and dual fired heating system
- Maximum capacity: 35 tons
- Capable of charging different ingots and scraps
- · Automatic molten metal flow control
- Lined by 85% alumina content refractory bricks for maximum molten metal purity
- . In two stationary and tilting models
- No direct flame contact with charged materials
- Minimum oxidation and scale loss due to pressure control system



#### **Twin Chamber Melting Furnaces**

These sort of furnaces are designed with two molten metal chambers. Molten metal circulation in these two chambers can be designed in a way that even tiny and thin scrap pieces can be charged with the lowest possible scale loss.

## ALUMINUM INDUSTRY ALUMINUM INDUSTRY



#### **Aluminum Annealing and Homogenizing Lines**

- · Double door bogie hearth furnace
- Fuel-fired heating system with radiant tube burners
- No combustion flue gas inside the chamber
- Two loading wagons
- Hot air circulation system

- Mobile cooling system for adjusting the cooling rate
- Loading capacity up to 60 ton of Aluminum billets in different sizes
- Special stands for various types of loading
- PLC-controlled automation and central monitoring system





#### **Ammonia Tight Gas Nitriding Furnaces**

- · For case hardening of steel parts and extrusion molds under ammonia atmosphere
- PLC-equipped heating cycles control system
- Equipped with emitted gas burn off
- Special standard welded and NDT tested chamber
- Inlet gas preheating
- Pressure control system

## ALUMINUM INDUSTRY

#### **ALUMINUM INDUSTRY**



#### **Aluminum Solution Furnaces**

- For solution heat treating of various types of cast and wrought Aluminum alloys (T4, T6, T7)
- Excellent thermal uniformity according to aerospace standards (±3°C)
- Hot air circulation system
- · No direct radiation on treated parts
- · Electrical/ Fuel-fired heating system
- Adjustable discharging speed between 5-15 seconds
- Equipped with quench tank with adjustable quench temperature
- Automatic charging and discharging system





#### **Aluminum Aging Furnaces**

- Electrical/Fuel-fired heating system
- Batch type with hot air circulation system
- Loading on wagon or trolley
- Maximum operating temperature of 400°C
- Excellent thermal uniformity (±3°C)
- Capable of constant and long-term working at operating temperature
- Programmable PID temperature control system









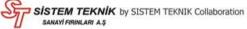
- Main Carburizing Furnace
- Preheating Furnace with Hot Air Circulating System
- Tempering Furnace with Hot Air Circulating System
- Endothermic Gas Generator
- Charging and Transportation System
- Washing Machine

## **Gas Carburizing Lines**

## **Gas Carburizing Lines**







#### Gas Carburizing Line with 1000 Kg Capacity

Suitable for carburizing, hardening and normalizing treatments under protective atmosphere including:

- Main furnace (Fuel-fired/Electrical)
- Electrical tempering furnace with hot air circulation
- Washing machine
- · Charging & transportation system
- Endothermic gas generator



## ATBIN

## Gas Carburizing Lines Gas Carburizing Lines



#### **Tempering & Preheating Furnace**

- Electrical heating system
- Maximum operating temperature of 650°C
- Loading weight up to 1000 Kg
- Roller hearth loading/unloading system
- Hot air circulation system to reach to the best thermal uniformity



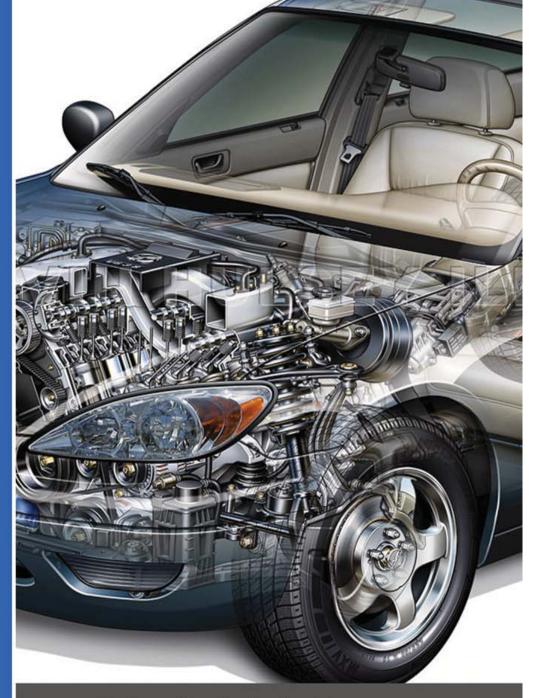
#### **Endothermic Gas Generator**

- Maximun temperature: 1100°C
- Dew point of the atmosphere is controlled & measured
- · Electrical/Fuel-fired heating system
- Internal chamber made from heat resistant steels
- Capacity 10m<sup>3</sup>/hr 40m<sup>3</sup>/hr



#### **Washing Machine**

- Two separated chambers for degreasing treatment by immerging and spraying method
- System for separating oil and grease from degreasing solvent in each chamber
- · Electrical heating system
- Motorized rising door
- Automatic level control system of solvent in both chambers



## **Automotive Industry Furnaces**

- Automotive Parts Heat Treating Furnaces
- Core Paint Drying Line
- Stabilizer Bar Hardening Line
- Springs Heat Treatment Furnaces
- Fuel Fired/Electrical Isothermal Annealing Line including:
  - Austenitizing Furnace
  - Fast Cooling
  - Air Circulating Furnace
- Piston Graphitizing Furnaces
- Aluminum Parts Heat Treating Furnaces

## **AUTOMOTIVE INDUSTRY**

## **Automotive Industry**





#### **Isothermal Annealing Heat Treatment Line (Cycle Annealing)**

- · Continuous furnace for annealing of automobile gearbox parts
- · Gas, gas-oil and dual fired heating system
- Including three main zones:
- 1- Heating zone up to 1100°C
- 2- Fast cooling zone
- 3- Soaking zone at 650°C with hot air circulation system
- Surface oxidation control system
- Walking beam or pusher type movement system
- PLC-controlled automation and central monitoring system







## **AUTOMOTIVE INDUSTRY**

## **Automotive Industry**





#### **Core Paint Drying Line**

- Conveyorized continuous oven with the lowest level of vibration in order to reach to the best foundry core quality
- Gas, gas-oil and dual fired heating system
- Indirect heating system using heat-exchanger
- Hot air circulation system to reach to the best thermal uniformity
- Omitting destructive effects of combustion flue gas
- PLC-controlled automation and central monitoring system to control the perfurmance of and influencing parameters
- Conveyor return systems: Direct and Parallel



## **AUTOMOTIVE INDUSTRY**



## **Automotive Industry**





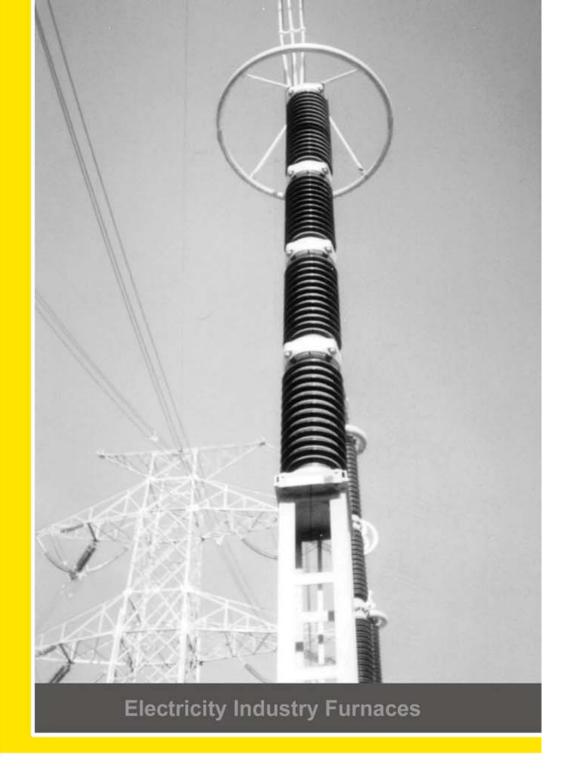
#### **Leaf Spring Heat Treatment Furnaces**

- Continuous movement with conveyor or walking beam systems
- Gas, gas oil and dual fired heating system
- Suitable for various types of leaf springs in different sizes and weights
- Recording and storing of all heating graphs and cycles
- With preheating, soaking and cooling zones
- PLC-controlled automation and central monitoring system

#### **Spring and Stabilizer Bar Tempering Furnaces**

- Conveyor or walking beam continuous movement system
- Recording and storing of all heating graphs and cycles
- · Heat transfer through hot air circulation system
- Programmable PID temperature control system
- · Gas-fired, indirect flame heating system
- With different heating zones and water spray cooling section
- Suitable for various types of springs and stabilizer bars





- Vacuum Driers
- Bell Type Annealing Furnaces
- Drying Ovens
- Varnish Baking Ovens

## ELECTRICITY INDUSTRY

## **Electricity Industry**





#### Vacuum Driers Chambers with 350m<sup>3</sup> Capacity

- For drying bobbins, transformer coils and active parts under 10<sup>-2</sup> mbar vacuum using rotary and diffusion pumps
- Fulfillment of DIN, VDE and VDI standards
- Design temperature: 200°C
- Two separate doors with automatic movement system

- · Automatic charging and discharging system
- Hot oil circulation heating system using heat exchangers
- PLC-controlled automation and central monitoring system to control the performance of influencing parameters





## ELECTRICITY INDUSTRY

## **Electricity Industry**





#### **Bell Type Furnaces**

- For annealing of copper coils & wires
- Sealed internal chambers
- Under protective atmosphere or vacuum
- Special formed metalic retorts for vacuum applications
- Cooling stations can be added to control the cooling rate
- · Hydraulic cylinders is utilized for furnace movement
- Suitable design for heavy loadings





#### **Ceramic Mould Preheating Furnaces**

- Gas, gas-oil and dual fired heating system
- Two separate, motorized rising doors
- · Capable of working constantly and frequently
- Specially designed flue gas exhausts to reach to the best thermal uniformity
- . Internal lining is made of ceramic fibers with constant operating temperature of 1200°C
- · Automatic burner control system: High-Low
- Equipped with after burners for de-waxing of ceramic molds for investment casting industries

## **ELECTRICITY INDUSTRY**



## **Electricity Industry**



#### **Drying Ovens**

- Drying and varnish baking ovens for electromotors, transformers and rotors
- Maximum operating temperature of 400°C
- Electrical/Fuel-fired heating system
- Hot air circulation system

- Loading by wagon or trolley
- · Indirect heating system using heat-exchanger
- · Excellent thermal uniformity
- Capable of working under constant and long-term conditions
- Programmable PID temperature control system







#### **Other Products**

- Industrial Ovens
- General Industrial Furnaces
- Atmosphere Controlled & Vacuum Furnaces
- High Temperature Atmosphere Controlled Furnaces
- Pressurized Auto Clave

#### HIGH TEMPERATURE FURNACES

## High Temperature Furnaces







## **High Temperature & Atmosphere Controlled Furnaces** (Oxidation Free)

- Maximum operating temperature up to 1800°C
- . Two different loading designs:
  - 1- Front loading
  - 2- Elevator hearth
- Under protective Ar/N<sub>2</sub>, reducing or oxidizing atmosphere
- Equipped with special seals for gas inlet and outlet ports, thermocouples and heating elements

#### **High Temperature Gas-fired Furnaces**

- Car bell type
- Working temperature up to 1800°C
- · Equipped with hydraulic cylinders and wagon
- Automatic inside pressure control
- Suitable for very low heating rates & long heat-up cycles
- Fully PLC-controlled automation and monitoring system

## HIGH TEMPERATURE FURNACES ATBIN

## High Temperature Furnaces



#### **High Temperature Atmosphere Controlled Furnaces**

- Low weight and compact design
- Minimum thermal loss
- High grade AL<sub>2</sub>O<sub>3</sub> insulation
- MoSi<sub>2</sub> heating elements
- Fast heating-up
- Door with parallelogram type movement
- Programmable PID temperature control system
- Over-tempetature protection system
- Working tempetature: 1600°C / 1750°C / 1800°C
- Atmosphere Options:
- Argon
- Nitrogen
- Oxygen
- Models:
- Front Loading
- Elevator Hearth

## ATBIN

## **INDUSTRIAL OVENS**

## **Industrial Ovens**



- For drying, varnish baking, paint & resin drying, metalic parts preheating, electrode baking, paper, filter & plastitc dryers
- Hot air circulation system through centrifugal fans
- Equipped with heat-exchanger for indirect heat transfer
- No combustion flue gas inside the operating chamber

- · No direct radiation on treated parts
- Special design of the air ducts, number and location of the circulating fans according to the loading method and in an arrangement to reach to the best thermal uniformity



#### Continuous Ovens with Hot Air Circulation

- Electrical/Fuel-fired heating system
- Conveyorized movement system (chain, mesh belt, ...)
- Completely separate heat-exchanger without direct effects on operating chamber
- Three zones including preheating, heating and cooling
- Adjustable output speed and heating cycles

## **INDUSTRIAL OVENS**

## **Industrial Ovens**





#### **Electrical Ovens for Glass & Composite Sheets Forming**

- Suitable zoning and specific design of circulation paths inside the chamber
- Adjustable blowing speed
- Excellent thermal uniformity for glass sheet forming (±3°C)
   according to related standards & employing uniformity tests
- Capable of adjusting internal humidity
- PID temperature control system with ±1°C temperature stability
- Omission of dusts and small particles by installation of suitable filters to maintain clean room conditions







#### **General Industrial Furnaces**





#### **Industrial Heat Treatment Furnaces**

- For heat treatment of metalic parts such as annealing, normalizing, hardening, tempering, stress relieving, preheating & firing of ceramics, classware, porcelain, ...
- Operating temperature up to 1250°C

- Bogie hearth or stationary
- Electrical/Fuel-fired heating system
- Customized-design furnaces



Rotary furnace for powder drying process at pH=14, up to 1000°C including preheating, heating & cooling sections

## GENERAL INDUSTRIAL FURNACES

#### **General Industrial Furnaces**



#### **Teflon Firing Lines**

- Continuous gas fired furnaces
- · Indirect flame using radiant tubes
- With hot air circulation system

- . No direct flame and flue gas contact with surface of treated parts
- With different heating zones and cooling part
- · Fine gas collection system providing high firing quality



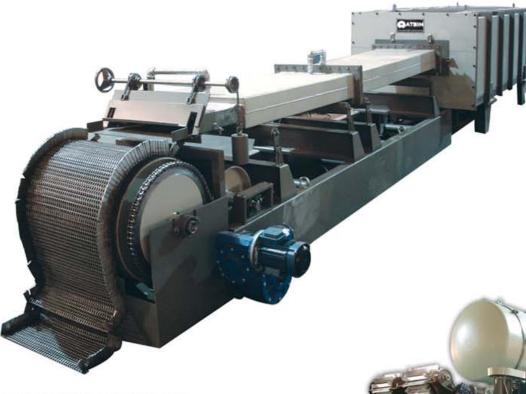






#### **Atmosphere Controlled & Vacuum Furnaces**

## ATBIN Atmosphere Controlled & Vacuum Furnaces

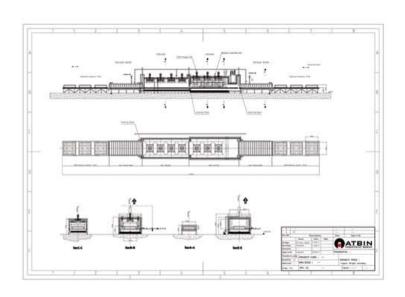


#### **Mesh belt Continuous Furnaces**

- Maximum operating temperature of 900°C
- Equipped with Endothermic gas generator for protection of the parts surfaces against oxidation
- Preheating, heating and soaking zones
- · Heat resistant steel mesh belt
- Equipped with all necessary alarms and safety systems for Endothermic gas
- Both water and oil quench tanks
- Heating and cooling systems for exact adjustment of quench temperature
- Charge and discharge system for quench tank

#### Roller heart Continuous furnaces

Copper and steel pipes and profiles roller hearth heat treatment lines under protective atmosphere, up to 1000°C equipped with vacuum and cooling sections

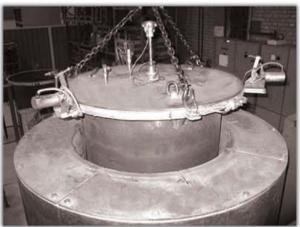


#### Atmosphere Controlled & Vacuum Furnaces

## Atmosphere Controlled & Vacuum Furnaces 🕞 ATBIN







#### **Vacuum & Inert Gas Protective Atmosphere Furnaces**

- · For variety of heat treatment processes under protective atmosphere to omit surface oxidation or parts color change
- . In different types: Top-loading, Front-loading, Pit type and Bell type
- Maximum operating temperature of 1250°C under Ar/N<sub>2</sub> protective atmosphere
- Adjustable heating and cooling rate
- Air/Gas blowing cooling stations
- . Non destructive tests (NDT) to control the welding quality of the sealed
- The chamber is made of special formed sheets for vacuum applications
- Flow control and pressure adjustment of the inlet gas
- Main applications:
- Bright annealing of finished parts under reducing atmosphere
- Hardening of steel parts
- Ammonia-tight gas nitriding
- Annealing of copper coils





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