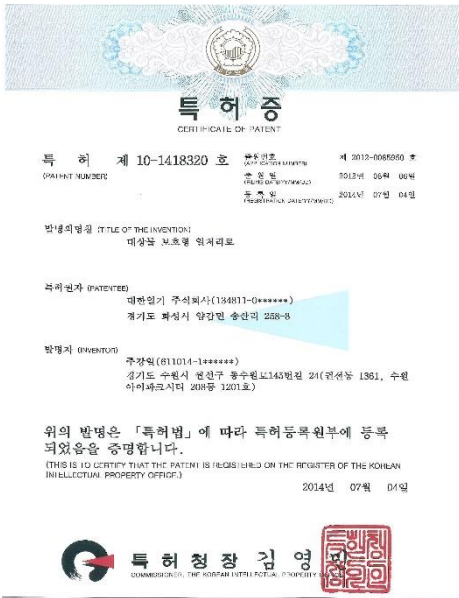


LPR Global

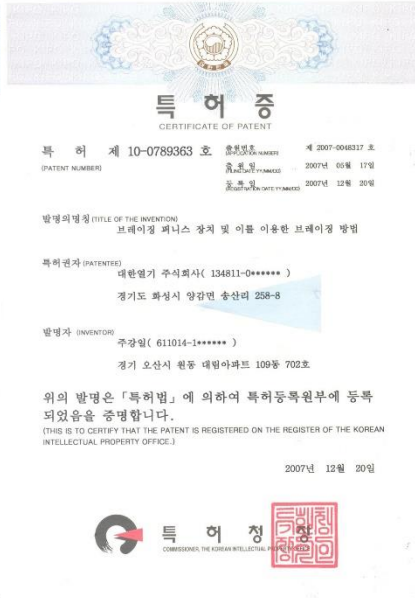
Brazing and Heat Treatment Furnace

344 Bloor St. West, Unit #607 Toronto, ON M5S 3A7 Canada
www.uskoreahotlink.com
TEL. +1 416 – 423 – 5590
E-Mail. info@lprglobal.com

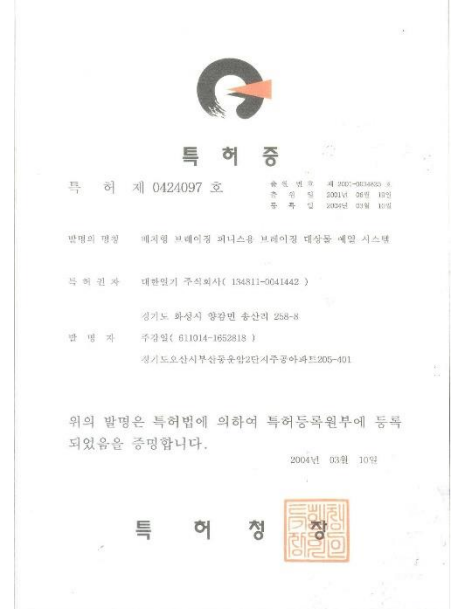
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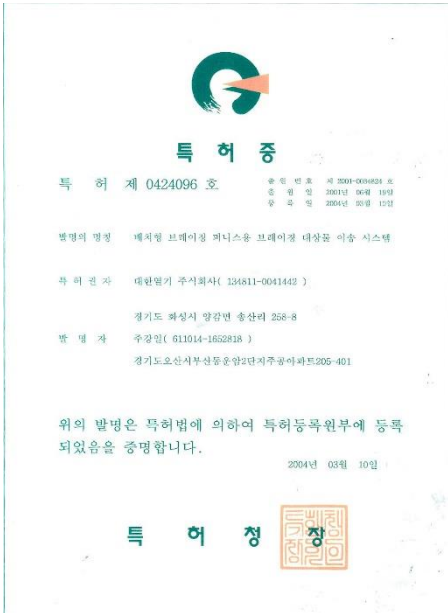
Product protective Heat treatment furnace No.10-1418320



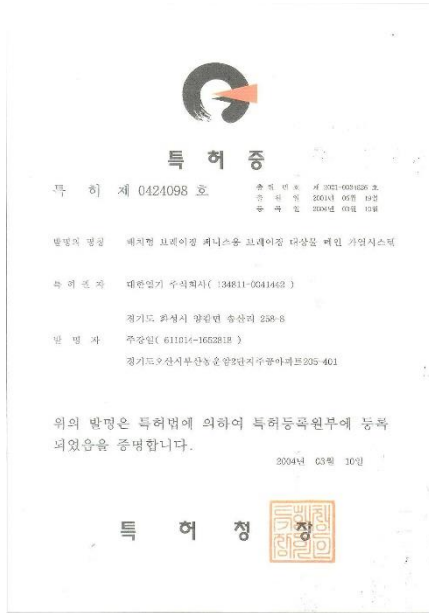
Brazing Furnace and Assoc. Brazing technology No. 10-0789363



Preheating system for Batch type brazing furnace No.0424097



Transporting system for Batch type brazing furnace No.0424096



Main heating system for batch type brazing furnace No.0424098



Batch type brazing furnace No. 0424095

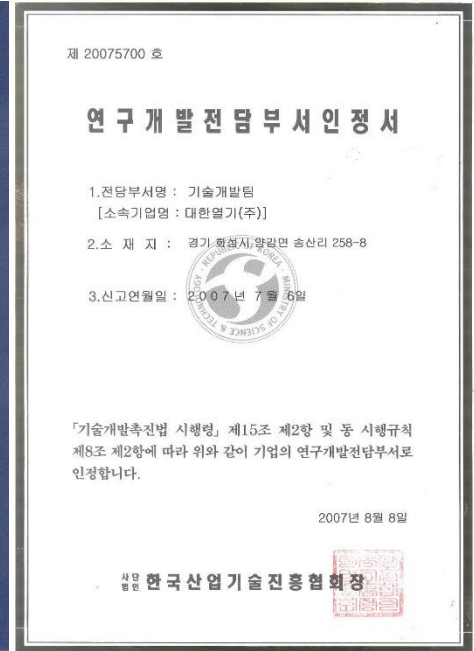
Certificates



Certification of Quality Management System
ISO 9001:2000/KS A 9001:2001
No. DKQ-5291



Certification of Registration
ISO 9001:2000/ KS A 9001:2000
No CI/2915



Certification of Dedicated Research and Development



실용신안등록증

등록 제 0255893 호
 출원 번호 제 2001-0018395 호
 출원 일자 2001년 06월 20일
 등록 일자 2001년 11월 19일

고안의 명칭 배치형 브레이징 퍼니스용 브레이징 대상물 예열 장치

실용신안권자 대한열기 주식회사 (134811-0041442)
 경기도 파주시 대안읍 반월리 344-3 남양빌딩 5층

고안자 주장일(611014-1652818)
 경기도오산시부산동운암2단지주공아파트205-401

위의 고안은 실용신안법에 의하여 실용신안등록 원부에 등록되었음을 증명합니다.

2001년 11월 19일



이 실용신안권은 실용신안법 제44조에 따라 실용신안법 제25조 제2항에 의한 등록특허권과 동등한 효력을 가지며, 이 실용신안권의 침해로 인해 손해가 발생하면 그 권리를 행사할 수 있습니다.

Utility Model Registration for Preheating system of Batch type Brazing Furnace
No.0255893



실용신안등록증

등록 제 0255894 호
 출원 번호 제 2001-0018396 호
 출원 일자 2001년 06월 20일
 등록 일자 2001년 11월 19일

고안의 명칭 배치형 브레이징 퍼니스용 브레이징 대상물 메인 가열 장치

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2001년 11월 19일



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Utility Model Registration for Heating system of Batch type Brazing Furnace
No.0255894



실용신안등록증

등록 제 0255891 호
 출원 번호 제 2001-0018388 호
 출원 일자 2001년 06월 20일
 등록 일자 2001년 11월 19일

고안의 명칭 배치형 브레이징 퍼니스 장치

실용신안권자 대한열기 주식회사(134811-0041442)
 경기도 파주시 대안읍 반월리 344-3 남양빌딩 5층

고안자 주장일(611014-1652818)
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Utility Model Registration for Batch type Brazing Furnace
No.0255891

Continuous Brazing Furnace for Aluminum parts



Brazing Furnace by Radiation

Brazing Furnace | Radiation | Aluminum parts

Radiation type brazing furnace produces continuous brazing process for aluminum based automotive parts. This brazing furnace operates with application of flux in the inert atmosphere and its continuous process provides high productivity.

Features:

Pure Atmosphere: Consumption of less atmosphere gas enables atmosphere to have high purity. As well, the brazing furnace can purge out impurities generated from work pieces and flux during the brazing process.

Resistant to Environmental influence: Entrance and exits are openable and accessible. But, Atmosphere shielding mechanisms are placed to tighten the atmosphere purity and make the brazing furnace resistant to external environment.

Applications:

Brazing heat exchangers for automobiles, radiators, condensers, aluminum- based parts for automobiles and electric apparatus. Continuous brazing of small to medium parts in high quantity.

2 patents

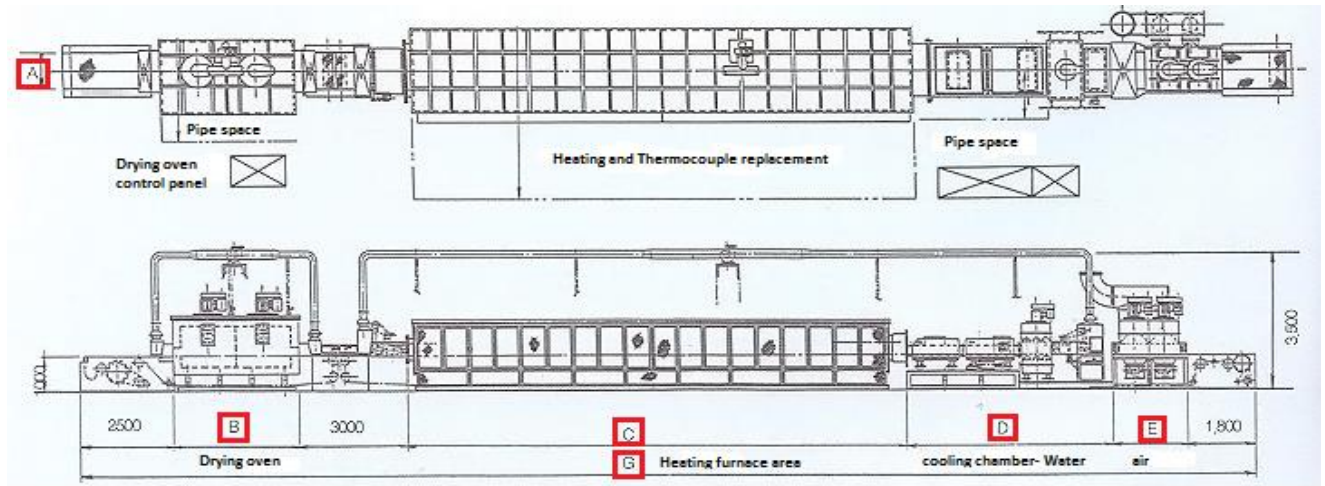
Deformation Prevention of Muffle case (US No.4416623, Japan No.1668238, and GB No. 2130348B)

Convection stream adjusting device for atmosphere gas flow (US No. 4586899, EC 84304752,3, Japan No. 59-099637)



Continuous Brazing Furnace for Aluminum parts

Brazing Furnace by Radiation
Specifications:



Model	Dimensions (mm)								Power
	A	B	C	D	E	F	G	Effective Height	
MES-NOC-500	500	2500	7000	5100	1100	4900	23000	150	230KVA
MES-NOC-750	750	5100	16000	7000	2000	5300	37400	150	450KVA
MES-NOC-1000	1000	8200	23000	8400	3100	5700	50000	150	750KVA

Pre-heating Convection Furnace



Convection Furnace | Preheating

The Convection Furnace is suitable for pre heating metal parts before brazing. The furnace utilizes minimum length that is approximately half the length of regular furnaces.

Advantage of Convection Furnace is its ability to save space and energy. Its use of forced circulation within tight space allows rapid preheating process that also leads to Brazing process within shorter space.

Specifications are available upon request.

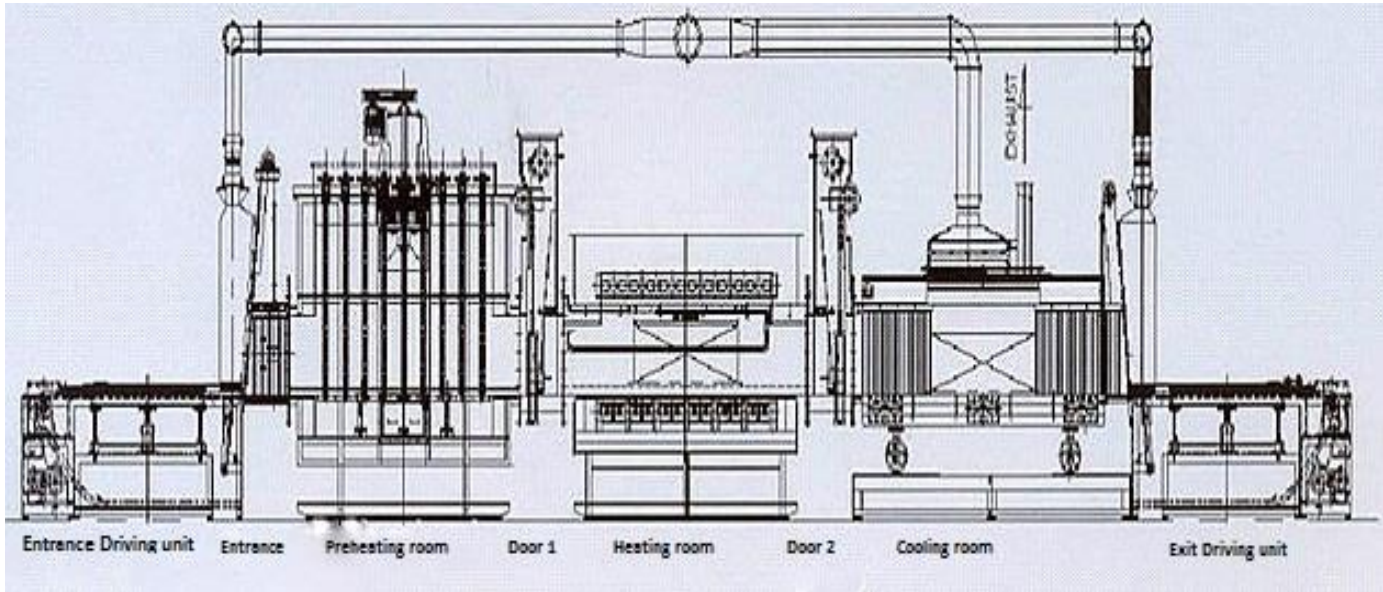
Batch type Brazing Furnace



Batch Furnace | Brazing Large parts

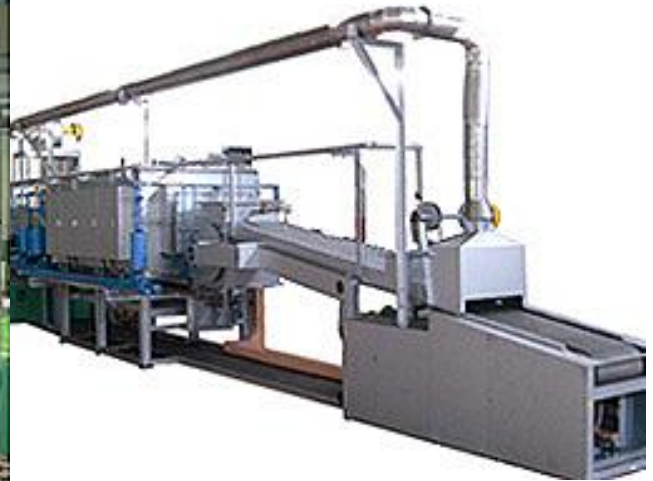
Our continuous-Batch furnace has three divisions linked with doors for preheating, brazing and cooling large sized aluminum parts like generators and heat exchangers. The Batch furnace is excellent to use within tight space.

Applications: Brazing of large parts for generator, aircrafts, ships, electronics, and heat exchanger.



Stainless Steel and Steel Brazing Furnace- Mesh Belt

Stainless Steel Brazing Furnace



Stainless Steel Brazing Furnace | Mesh Belt Furnace

This Brazing Furnace operates with mesh belt to maintain a continuous Brazing process of Stainless steel, copper alloys and other metals that require light atmosphere for their brazing process.

Mesh Belt Brazing Furnace can also be used for bright annealing. It's a double duty furnace that serves both of your needs.

Features:

Stable Atmosphere in both Heating and Cooling sections

Internal temperature Curve can be easily chosen.

Mesh belt continuous process leads to High productivity.

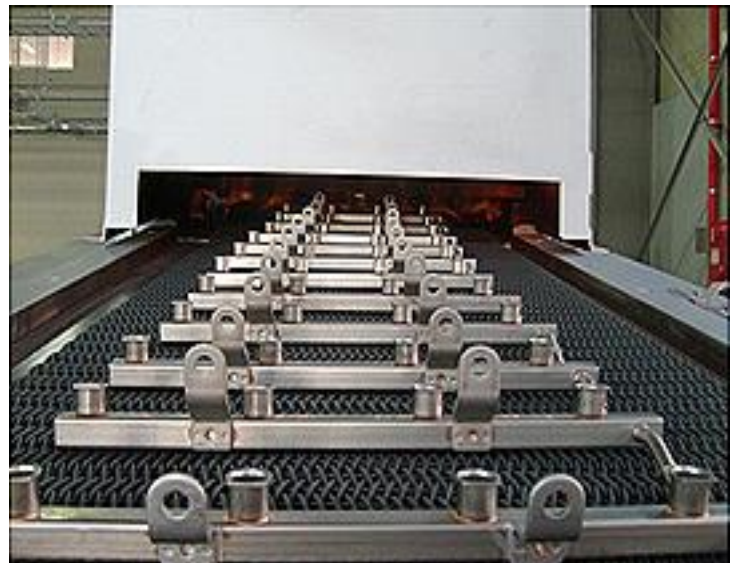
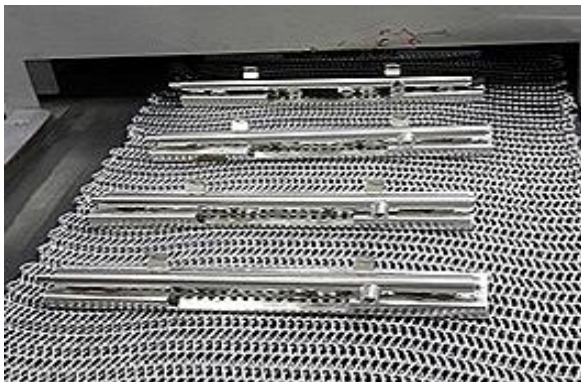
Cost Effective process due to use of light atmosphere (e.g. H₂ Gas)

Applications:

Extensive applications

Stainless steel, copper based parts

Brazing and/or bright annealing for Automotive parts



Stainless Steel and Steel Brazing Furnace- Mesh Belt

Steel Brazing Furnace



Steel Brazing Furnace | Continuous and Energy Efficient

This Brazing Furnace is used to braze ferrous and copper alloys as well as steel products. The use of embedded exothermic gas generator in the heating section of the Brazing Furnace effectively utilizes the heat and energy generated from the gas generator. Therefore, unlike other gas generators that need large volumes of water to cool down, wasting water and energy, our Brazing furnace saves Water and Energy.

Features:

Utilization of Energy generated from Gas generator save 35% to 50% of energy.

Furnace internal Atmosphere is very stable.

Internal temperature curve can be managed easily

Applications:

Used extensively and variously on the brazing and Annealing of Copper, Iron, Steel and their alloys.



Stainless Steel and Steel Brazing Furnace- Mesh Belt

Specifications:

Stainless Steel Brazing Furnace

Mark Type	Electric Power (kw)		
	Heating	Driving	Total
HNP-SUB-200	50	0.6	50.6
HNP-SUB-250	60	0.6	60.6
HNP-SUB-300	75	0.6	75.6
HNP-SUB-350	85	0.6	85.6
HNP-SUB-400	105	0.6	105.6
HNP-SUB-450	125	0.8	125.8
HNP-SUB-500	160	0.8	160.8

Steel Brazing Furnace

Mark Type	Effective Height (mm)	Heater Capacity (kw)	Electric Power (kw)	LPG Amount (kg)	DX-Gas Amount (m ³ /Hr)	Capacity (kg/Hr)
MES-FES-250	150	55	60	5	35	45
MES-FES-300	150	70	75	5	40	60
MES-FES-350	150	80	85	6	45	70
MES-FES-400	150	100	105	7.5	50	85
MES-FES-450	150	120	125	7.5	55	110
MES-FES-500	150	140	145	10	60	125
MES-FES-600	150	170	174	10	70	165
MES-FES-750	150	210	220	11	90	210

Roller Hearth Furnace Annealing Furnace | Bright Annealing



Roller Hearth Furnace | Annealing

The embedded atmosphere gas generator to the furnace, allows this Roller Hearth Furnace to utilize/recycle energy generated from the atmosphere gas for its preheating process. This embedment saves 180kWh and decreases CO₂ output by 27% for an annealing process at 2000kg/hr. The Roller Hearth Furnace for Annealing metal parts is Energy Efficient and Cost Efficient as a result.

Also, the cooling chamber of this Annealing Furnace is specially constructed to allow heat treatment of metal coated parts

Applications: Non-oxidative Annealing Stainless steel and Steel pipes, cu-Alloy, Spheroidizing Annealing, Electromagnetic Annealing



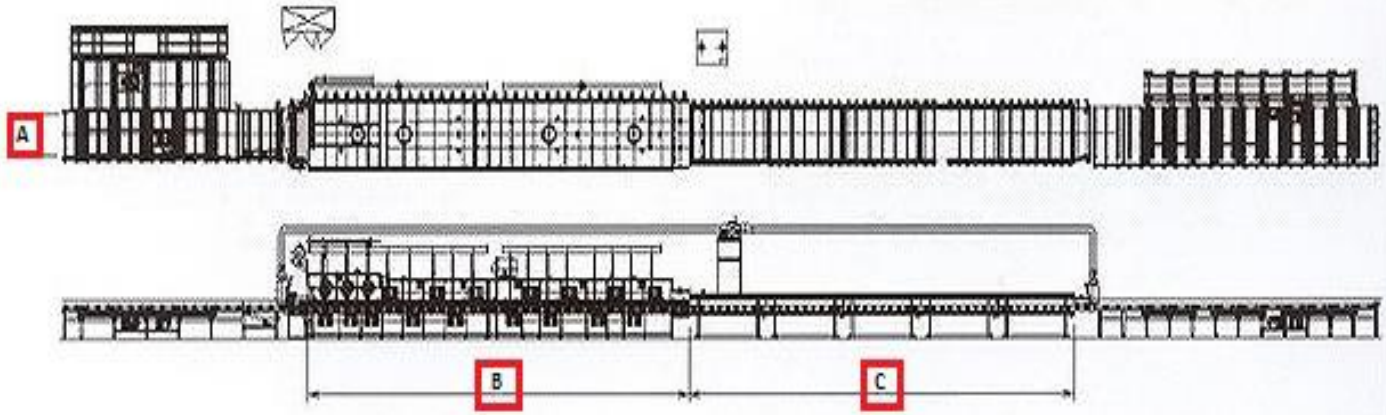
Stainless Steel Annealing Furnace
H₂ gas



Steel Annealing Furnace
DX or RX gas

Roller Hearth Furnace Annealing Furnace | Bright Annealing

Specifications



Treatment capacity at annealing temperature of 700°C	Treatment capacity at annealing temperature of 900°C	Measurement (mm)			Amount
		A	B	C	Installed Capacity (kg/H)
1,000kg/H	800kg/H	1,100	7,100	10,300	36
1,500kg/H	1,200kg/H	1,300	8,800	12,700	43
2,000kg/H	1,600kg/H	1,300	11,500	16,700	51
2,500kg/H	2,000kg/H	1,500	12,100	17,500	58
3,000kg/H	2,400kg/H	1,500	14,500	21,000	66

Heat Treatment Furnace for Bolts and Nuts



Heat treatment Furnace for Nuts and Bolts | Carburizing, Tempering

This heat treatment furnace operated on mesh belt SKID rails have reduced frictional resistance to allow heat treatment on large quantity products up to 1500 kg / hr. The continuous mesh belt process uses both electrical and gas heating to guarantee productivity. This type of heat treatment furnace can be manufactured for Hardening, or Tempering, or Carburizing or other Case hardening process.

Features:

Optimum Quality for minimum expense: Gas generator is equipped in the furnace to reduce the cost of gas production by 50%. Also, Atmosphere gas are recycled to cut raw material cost. Finally, exhaust gas are refined to recycle for heat treatment of N₂ base.

Atmosphere Control Technology: Inner atmosphere is strictly controlled to block external influence. Complete prevention of incompletely resolved gas is achieved by running on self-generation system. Curtains are installed inside to separate and maintain each zone at its optimum atmosphere.

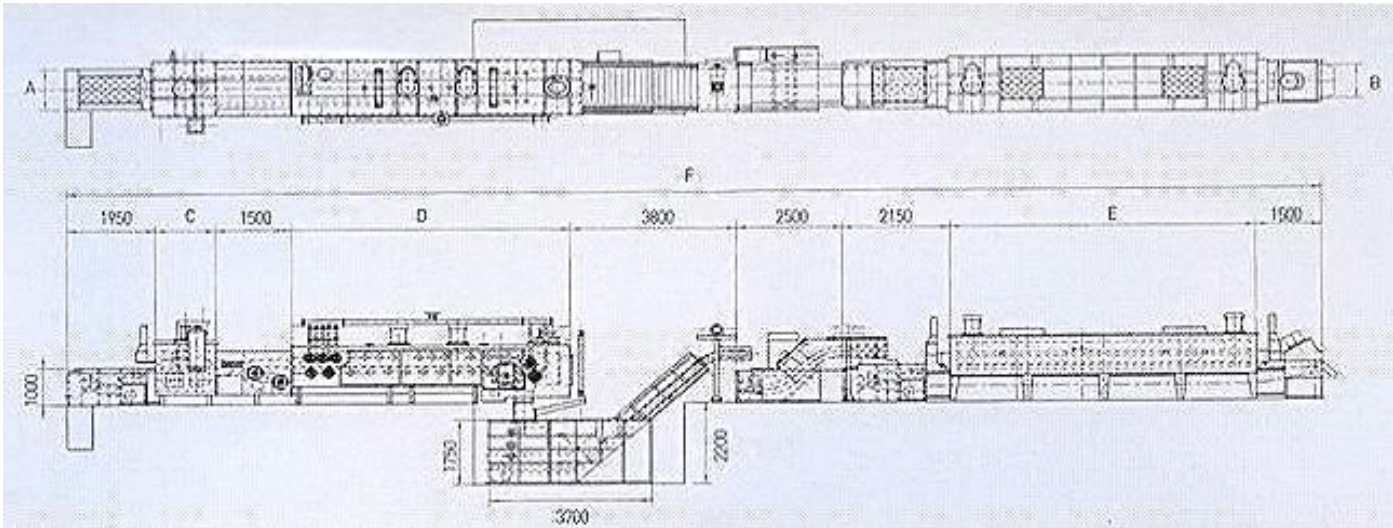
Oxidation Prevention: The combustion exhaust gas from DX-Gas burner is directed inside the Furnace to prevent oxidation that occurs under High Temperature.

Maximum temperature of 950°C

Applications: Nuts and Bolts for Automotive parts

Heat Treatment Furnace for Bolts and Nuts

Specifications:



	Treatment Capacity	Measurement (mm)						Installed Capacity				
		A	B	C	D	E	F	Quenching			Tempering	
								Electricity (kw)	Electricity + Gas Electricity (kw) Gas (kw)	Electricity (kw)	Gas (kw)	
Harden	200kg/H	500	700	1200	4000	5000	22150	90	49	4.5	50	5.5
	350 kg/H	700	900	1200	4800	6500	22450	124	72	5.8	80	9.1
	500 kg/H	900	1100	1800	4800	7500	26050	158	68	10.0	110	12.7
	600 kg/H	900	1100	1800	5800	8500	28050	176	87	10.0	130	14.5
	700 kg/H	900	1300	2300	6700	8500	29450	194	105	10.0	150	16.4
	1000 kg/H	1100	1500	2300	7800	10000	32050	252	126	14.0	-	22.7
Carburize	100 kg/H	700	500	1200	7200	4500	24400	100	48	5.8	20	-
	200 kg/H	900	700	1200	9300	5800	27800	124	72	5.8	30	-
	350 kg/H	1100	900	1200	11800	7600	32100	176	87	10.0	40	-

Heat Treatment Furnace for Bolts and Nuts

Past Clients

ACI CHEMICALS- Egypt
Alesion-Thailand
Al metal
Behr-Germany
Calsonic-Thailand, Taiwan
Daedong Radiator
Daewoo Electric
Daihan Cooling & Heating – China
Denso-India
Dephi-Korea
Donghyun Steel
Halla Climate Control-Thailand, Korea
Husteel
Hyundai Hysco
Hyundai Motor
Iljin Light Metal
Japan Sumitomo –Taiwan
Jiada Precision Tube- China
Jiangsu Doutian Automobile-China
JianSu DooWon Automotive-China
KAPEC
KIA Motors
Kobe Aluminum-Japan
Kuil C.C
K.Y.K –Japan
LG electronics
Mitsubishi-Japan
MMS Russia
Modine China
PT-Three star- Indonesia

SamHwa C.C
Samsung climate control
Samsung Electronics- India, China
Seah Steel
ShoWa Aluminum-Japan
SS Steel
ThreeStar Co.,Ltd-Indonesia, Korea
Toyo Rad-Indonesia
TY Group
VALEO-China, Mexico
Visteon –India
Xinxiangshi Longteng Zhileng-China
Y.B.S
Y.C.P
Zhejiang YinLun Machinery-China

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