



Industrial furnaces and dryers
Промышленные печи и сушилки

**Welcome,**

JSC "Termoskalé" is manufacturing-engineering company providing equipment for industrial thermal processes - electric and gas heating furnaces and ovens.

**Cześć,**

UAB "Termoskalé" - firma produkcyjno-inżynieryjna, handlująca sprzętem, przeznaczonym na przemysłowe procesy termiczne - elektrycznymi oraz gazowymi piecami i suszarkami.

**Hola,**

UAB "Termoskalé" es una sociedad industrial de ingeniería, que suministra equipos para procesos industriales térmicos y hornos de gas y equipos de seco.

**Bonjour,**

UAB « Termoskalé » c'est une société d'ingénierie industrielle qui fournit des équipements pour les procédés thermiques industriels : les fours électriques, les poêles à gaz et les sècheuses.

**Ciao,**

La "Termoskalé" UAB è una ditta ingegneristico-produttiva che fornisce gli impianti adibiti ai processi termici industriali quali forni ed essiccatoi, elettrici ed a gas

**Sveiki,**

UAB "Termoskalė" - tai gamybinė-inžinerinė įmonė, tiekianti įrenginius skirtus pramoniniams terminiams procesams - elektrines ir dujines krosnis bei džiovyklas.

**Здравствуйте,**

ЗАО "Termoskalė" это производственно-инженерное предприятие, поставляющее оборудование в сфере термических процессов – электрические и газовые печи и сушилки.

**Hallo,**

UAB "Termoskalė" ist eine industrielle Ingenieurgesellschaft, die Einrichtungen für industrielle thermische Prozesse und Gasofen und Trocknungseinrichtungen liefert.

**Hallo,**

UAB "Termoskalė" - industrielt - ingeniørselskap, som leverer anlegg for industrielle termiske prosesser - elektriske ovner, gassovner og tørker.

**Hallå,**

AB "Termoskalė" är ett industri- och ingenjörsföretag som förser med utrustning för termiska industriprocesser - el- och gasugnar samt torkare.



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Chamber ovens

Electric and gas heated chamber furnaces of periodical operation are designed for heat treatment of small and medium sized parts in piece or small series production.

Ovens of such type are suitable for low temperature heat treatment processes such as humidity removal, temperature resistance tests, removal of different volatile materials, preheating of different materials before other types of heat treatment processes, for powder painting, rubber vulcanization, low temperature annealing, low or medium temperature stress release, etc.

During low temperature thermal processes different gases and steams evaporate, therefore, working chamber construction must ensure tightness and exhaust of gases into ventilation system. Our ovens have air circulation systems which guarantee precise temperature uniformity, fresh air supply and gas exhaust from the working chamber. Depending on aggressiveness of the emitted gasses the working chamber can be made of different types of stainless steel or aluminum. The charge inside the working chamber can be loaded on special shelves, boggles or hanged up. The ovens, which are designed for processes where the speed of air circulation must be limited, have air speed controllers. For drying processes in explosive atmospheres heating elements with double protection and non-sparking components are installed. The construction of chamber ensures good air flow transience even when the shelves are fully loaded.

Working chamber volume - from 0,5m³ to 5m³. For ovens with chamber volumes higher than 5m³ we offer additional loading equipment.

For temperature control programmable controllers, which permit to set a temperature range in respect of time, are used.

Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
KS 4200/ 80	80	800x1200x2000	2100	3/ PEN 400/230 V AC 50Hz	28	2100
KS 1370/ 200	200	950x1200x1200	1370	3/ PEN 400/230 V AC 50Hz	16	800
KS 1380/ 350	350	950x1200x1320	1380	3/ PEN 400/230 V AC 50Hz	50	1200

Additional equipment:

- Software for data logging to PC
- Electromechanical or pneumatic door opening
- Automatic control of exhaust air flaps
- Forced cooling system
- Programmable indication of process
- Complete set of supplementary units such as shelves, workbenches, loading equipment, hardening vessels, etc.
- Version with protective atmosphere

Chamber furnaces

Electric and gas heated chamber furnaces of periodical operation are designed for heat treatment of small and medium sized parts in piece or small series production.

Furnaces of such type are used for hardening, annealing, heating before forging, normalization and other types of heat treatment of metal parts, and also for professional firing of ceramic and glass products.

Furnaces for heat treatment of metal are heavier and have a stronger construction comparing to similar equipment for ceramics and glass because parts with stronger mechanical and better thermal shock resistance properties are used in their production. Stronger construction of furnace frame and bottom, mechanical and thermal shock proof arch of chamber ensure stability and strength during the loading of heavy charge while higher power guarantees very quick recovery of temperature because normally loading-unloading works are performed after the furnace is heated up. Special flaps are mounted for exhaust of waste gas, which occur during thermal process of different parts inside working chamber.

Furnaces for firing of ceramics and heat treatment of glass have a lighter-weight construction made from light-weight materials, because thermal processes are performed in a soft mode.

For temperature control programmable controllers, which permit to set a temperature range in respect of time, are used.

Working chamber volume - from 0,2m3 to 5m3. For furnaces with chamber volumes higher than 2m3 we offer additional loading equipment.

Additional equipment:

Software for data logging to PC
 Electromechanical or pneumatic door opening
 Automatic control of exhaust air flaps
 Forced cooling system
 Programmable indication of process
 Complete set of supplementary units such as shelves, workbenches, loading equipment, hardening vessels, etc.
 Version with protective atmosphere



Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
KG 570/ 1200	1200	600x400x1200	290	3/ PEN 400/230 V AC 50Hz	35	1000
KG 35/ 1300	1300	300x250x500	370	3/ PEN 400/230 V AC 50Hz	13	450
KG 570/ 1200	1200	780x500x1500	580	3/ PEN 400/230 V AC 50Hz	55	1600

Bogie furnaces

Electric and gas heated bogie furnaces of periodical operation are designed for heat treatment of medium and large heavy parts in piece or serial production. Comparing to other types of heat treatment equipment the loading of charge is easier, the loading-unloading process can be mechanized using several regimes.

Furnaces for heat treatment of metal are heavier and have stronger construction comparing to similar equipment for ceramics and glass, because parts with stronger mechanical and better thermal shock resistance properties are used in their production. Stronger construction of furnace frame and bottom, mechanical and thermal shock proof arch of chamber ensure stability and strength during the loading of heavy charge while higher power guarantees very quick recovery of temperature because normally loading-unloading works are performed after the furnace is heated up. Special flaps are mounted for exhaust of waste gas, which occurs during thermal process of different parts inside working chamber.

Bogie furnaces for heat treatment of ceramics and glass have a lighter-weight construction made of light-weight materials, because loading and unloading works are performed in a soft mode.

Working chamber volume - from 1m³ to 10m³.

For temperature control programmable controllers, which permit to set a temperature range in respect of time, are used.



Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
SG 3500/ 1200	1200	1500x1500x1500	3500	3/ PEN 400/230 V AC 50Hz	135	4600
SG 8000/ 1150	1150	1500x1700x3200	10000	3/ PEN 400/230 V AC 50Hz	120	4400
SG 720/ 1170	1170	900x1600x500	720	3/ PEN 400/230 V AC 50Hz	59	1900

Additional equipment:

- Software for data logging to PC
- Temperature, door opening and bogie motion process control using PLC, program setting by "touch screen"
- Electromechanical or pneumatic door opening
- Electromechanical bogie motion drive
- Forced cooling system
- Programmable indication of process
- Complete set of supplementary units such as shelves, workbenches, loading equipment, hardening vessels, etc
- Version with protective atmosphere

Bogie ovens

Electric and gas heated bogie ovens are designed for heat treatment of various materials and parts in serial production. Comparing to other types of ovens the loading-unloading process is easier, it can be mechanized using several regimes.

Ovens of such type are used for lower temperature heat treatment processes such as humidity and different volatile materials removal, preheating of different parts before other thermal processes, for powder painting, rubber vulcanization, low temperature annealing, low or medium stress release, etc.

During low temperature thermal processes different gases and steams evaporate, therefore, working chamber construction must ensure tightness and exhaust of gases into ventilation system. Our ovens have air circulation systems which guarantee precise temperature uniformity, fresh air supply and gas exhaust from the working chamber. Depending on aggressiveness of the emitted gasses the working chamber can be made of different types of stainless steel. The ovens which are designed for processes where the speed of air circulation must be limited have air speed controllers. For drying processes in explosive atmospheres normally heating elements with double protection and non-sparking components are installed.

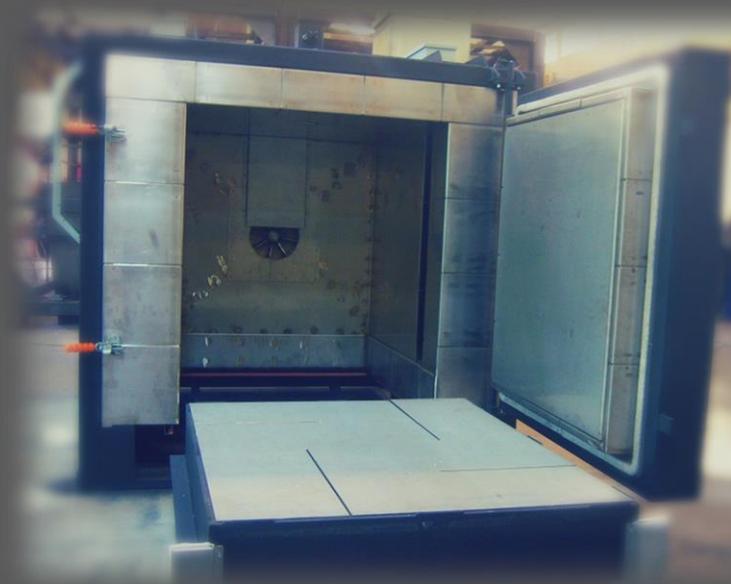
Working chamber volume - from 1m³ to 10m³

For temperature control programmable controllers, which permit to set a temperature range in respect of time, are used.

Additional equipment:

Software for data logging to PC;
 Temperature, door opening and bogie motion process control using PLS, program setting by "touch screen".
 Electromechanical or pneumatic door opening
 Electromechanical bogie motion drive
 System for protection gas supply
 Automatic control of gas exhaust flaps
 Sterile chambers, air filtration systems
 Forced cooling system
 Programmable indication of process
 Complete set of supplementary units

Version with protective atmosphere



Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
SG 3500/ 200	200	1500x1500x1500	3500	3/ PEN 400/230 V AC 50Hz	95	4000
SG 8000/ 280	280	1500x1700x3000	8000	3/ PEN 400/230 V AC 50Hz	110	3900
SG 750/ 350	350	900x1600x500	750	3/ PEN 400/230 V AC 50Hz	45	1900



Continuous furnaces and ovens

Continuous electric and gas heated furnaces and ovens designed for heat treatment of various materials and parts in serial production.

Equipment of such type can be easily integrated into continuous technological lines, which are more productive than ordinary furnaces depending on the degree of mechanization and automation.

By using of multi zone control it is a possibility to make several technological processes in one furnace. The charge along the working chamber can be transported by bogies, chain belts, rollers, etc.

For furnace control programmable controllers are used.

Specifications

Type	T max (°C)	Chamber dimensions	Length (m)	Voltage (V)	Power (Kw)	Weight (Kg)
TS 60/ 1700	170	300x150x1300	3	3/ PEN 400/230 V AC 50Hz	65	150
TG 60/ 400	400	255x200x1200	2,1	3/ PEN 400/230 V AC 50Hz	15	80
TS 4750/ 600	600	1250x1700x2500	2	3/ PEN 400/230 V AC 50Hz	120	5000

Additional equipment:

- Software for data logging to PC
- Adjustable speed of charge transportation.
- Protection gas supply systems
- Temperature, humidity, charge movement process control using PLS, program setting by "touch screen".
- Protection gas supply system
- Automatic control of air-gas flaps
- Forced cooling system
- Programmable indication of process.
- Supplementary units such as shelves, loading-unloading equipment, etc.

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Shaft furnaces

Electric shaft type furnaces for heat treatment of lengthy metal parts in vertical position and for heavy parts where it is necessary to use lifting equipment. Working chamber can be of cylinder or rectangular shape and depending on particular process the chamber can be equipped with fan unit for air circulation.

These furnaces can be equipped with retorts which are used for thermo chemical processes such as nitrating, carburizing or nitrocarburizing.

Working chamber volume - from 0,5m³ to 5m³

For temperature control programmable controllers, which permit to set a temperature range in respect of time, are used.



Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
<i>PG 1900/ 1150S</i>	1150	800x1200x2000	300	3/ PEN 400/230 V AC 50Hz	70	4500
<i>PG 620/ 1200</i>	1200	560x2000x560	627	3/ PEN 400/230 V AC 50Hz	50	2500
<i>PG 80/ 750S</i>	750	250x500x650	80	3/ PEN 400/230 V AC 50Hz	7	500

Additional equipment:

Software for data logging to PC
 Programmable indication of process
 Retorts for thermo chemical processes
 Gas supply systems
 Chamber cover lifting equipment

Crucible furnaces

Electrical crucible furnaces for melting non-ferrous metals are designed for melting of aluminum, copper, bronze, zinc and other non-ferrous metals, and their alloys, as well as their storage in the liquid state. The maximum furnace temperature is 1200 °C.

There are two types of crucible melting furnaces: stationary and tilting.

Furnaces are used in various industries for melting of non-ferrous metals, as well as production of part for domestic electric appliances, machine works and etc. In our furnace we are using Morgan, Mammut and other producers' crucibles



Additional equipment:

- Software for data logging in PC
- Programmable indication of process
- Electromagnetic or pneumatic lid opening

Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
TL 250/1100	1100	1350x1100x1500	200	3/ PEN 400/230 V AC 50Hz	52	1350
TL 300/1100	1100	1300x1100x1450	300	3/ PEN 400/230 V AC 50Hz	53	1200
TL 200/1100	1100	1300x1100x1450	150	3/ PEN 400/230 V AC 50Hz	50	1100

Water Quench

Quenching bath intended for cooling the steel in oil, water or polymer environment. Quenching in polymer fluids is a new, modern cooling steels technology.

Quench is a rectangular capacity, welded from mild steels sheets for quenching in oil or stainless steel for quenching in water or polymers.

Inside the tank installed Basket designed to extract details directly with their precipitation into the tank or spillage from loading baskets. For preheating and cooling liquid quenching bath equipped with automatic maintaining the temperature of the quenching medium. Quench tanks are supplied assembled with the necessary power and control equipment mounted in the control cabinet.



Specifications

Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
GV 800/ 80/ Water	80	400x700x600	350	3/ PEN 400/230 V AC 50Hz	10	700
WS 400/ 120/ Oil	120	400x2000x400	400	3/ PEN 400/230 V AC 50Hz	10	500
GV 300/ 220	220	400x1200x600	300	3/ PEN 400/230 V AC 50Hz	20	750

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Type	T max (°C)	Chamber dimensions	Chamber volume (l)	Voltage (V)	Power (Kw)	Weight (Kg)
CG 625/ 650	650	670x200x5000	670	3/ PEN 400/230 V AC 50Hz	105	4500

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