Kilns for glass
Kilns for glass

Introduction 3
Company profile 4
Fusing, slumping, sagging – hood kilns 6
Fusing, slumping, sagging – continuous kilns 9
Bending – hood kilns 10
Bending – car-type kilns 12
Bending – tank kilns 13
Casting – chamber kilns, car-type kilns 14
Heat soak test – car-type kilns 16
Decoration firing – chamber kilns 17
Decoration firing – continuous kilns 18
Firing of low-temperature coatings
  – chamber kilns, continuous kilns 19
Polishing of glass beads – chamber kilns, continuous kilns 20
Annealing – chamber kilns, continuous kilns 21
Malleablizing of crucibles – chamber kilns 22
Particular applications 23
Offer
Our company offers a wide range of kilns for both studio and industrial heat treatment of glass. Based on your inquiry we offer the best and convenient engineering solution. Once the kiln is manufactured we deliver it to your plant, we set it into operation and provide operator's training.

Operational temperatures
We develop and manufacture kilns for heat treatment of glass in the temperature field 20 – 1300 °C.

Standard and individual requests
In all categories we offer basic dimensional range, which can be modified and updated as per individual requests. A frequently used option is the "made-to-measure" kiln.

Heating systems
1. electrical heating
   a) resistant heating wire or strip
   b) resistant jacket heaters

2. gas heating
   a) impulse burners with forced inlet of combustion air
   b) injector middle pressure burners
   c) radiant burners
   d) monoblock automatic burners

Control systems
As a standard we offer a wide range of microprocessor programmable controllers from renowned manufacturers with many operational options, including connection and data transfer to PC. For the most complicated technologies we offer programmable logic controllers with process visualization, including software.

Optional features
- kiln furniture, inner bearing constructions
- stainless steel perforated plates
- ceramic moulds for glass bending
- controlled catalysts
company profile

The company was founded in 1990. It focuses itself on:
• production of industrial kilns and drying ovens
• production of industrial ceramics – kiln furniture, muffles and stones for kilns building
• repairs, reconstructions and renovations of kilns
• production and deliveries of spare parts

The company insists on high quality of all products and provided services and it has won a significant reputation. There is a team of experienced engineers who constantly work on the development and apply new technical knowledge. Half of the production is exported to both European and over-sea markets.

SEPARATE CATALOGUES AVAILABLE

■ Kilns for metal-working industry

- hardening plants
- forges
- press plants
- tool plants
- spring producing plants
- metal foundries
- pickling plants
- soldering
- galvanizing plants
- melting of metal scrap
- foundries of nonferrous metals
- low-temperature heating 100 – 500 °C

■ Kilns for glass industry

- glass annealing
- glass casting
- decoration on glass
- glass bending
- glass polishing
- heat soak test
- fusing
- glass hardening
- malleablizing

■ Kilns for ceramics

- biscuit firing
- glaze firing
- stoneware
- drying ovens
SEPARATE CATALOGUES AVAILABLE

- Kilns for porcelain
  - biscuit firing
  - glaze firing
  - decoration firing
  - melting-in decoration firing
  - drying ovens

- Ovens for surface finishing
  Drying ovens and low-temperature heating for all industries
  - enamel hardening
  - powder paints firing
  - hardening
  - artificial ageing
  - heating
  - forming

- Industrial ceramics
  - kiln furniture for firing of porcelain and ceramics
  - muffles pro laboratory furnaces
  - stones for kilns building
Our offer includes a wide range of kilns, from small studio kilns to huge industrial aggregates with high automation level. The wide choice of optional features will satisfy the highest technical requirements, coming with new technologies.
### Operational temperature up to 1000 °C

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Kilns for glass

Model designation
- PS – hood installed on the table (swivel hinges)
- PSV – hood installed on the supporting frame, pull-out table, rails
- PSR – “top lift system” hood suspended on the mobile frame, fixed table
- 1. digit defines inner dimensions of the model
- other digits define interior hood height in mm

Design and options
- models 03, 1 and 2 in PS design
- models 3 and 4 in PS and PSV designs
- models 4, 5, 6, 7, 8 in PS, PSV and PSR designs
- standard interior heights 250 and 400 mm, optionally other interior heights “made-to-measure”
- construction of the hood and peripheral table parts made of stainless steel
- electric control box on the kiln side – right or left as per your choice
- surface finishing of the steel frame: fired powder coating, shade as per your choice
- brick lining of high thermal resistance, anti-dust finish
- models PS with adjustable feet
- observation holes in the sidewalls with manual flaps and two-position locking device
- automatically controlled side flaps from controller, with electric motors, possibility to open them manually when looking inside the kiln
- air vents in the top with manual flaps and multi-position locking device (excluding models PS 03 and 1)
- automatically controlled top flaps, with electric motors
- manual kiln opening – pneumatic struts
- automatic kiln opening, with electric motor
- operational surface exceeding the level of the table steel construction
- collecting strips to level glass separator on the table
- recessed table – 75 mm deep
- adaptation of the table for deep slumping
- electrical heating spirals
- infra-red emitters
- additional peripheral heating spiral in the hood, ON/OFF button
- additional peripheral heating spiral in the recessed table, ON/OFF button
- additional heating spirals for deep slumping, ON/OFF button
- additional heating spirals for deep slumping, controlled automatically
- independent control of both main and additional heating, possibility to preset different temperatures
- batch cooling by manual kiln opening
- electromechanical kiln opening with push-button
- automatic electromechanical kiln opening programmed on the controller
- glass annealing by natural temperature drop
- controlled annealing as per programmed curve
- final cooling by natural temperature drop, using air vents
- forced ventilation, ON/OFF button
- forced ventilation controlled automatically
- controller installed as per kiln model, equipment and technological requirements
- PID controllers for easy applications
- sets of PID controllers in MASTER / SLAVE concept
- programmable logic controllers including software
- dimensions “made-to-measure”

Other equipment
- additional table
- additional rings increasing the interior height
- additional peripheral heating spirals in the ring

Performance characteristics
- reliable technology of heating and annealing
- guaranteed temperature distribution in the kiln
- reliable repeatability of the process
FUSING, SLUMPING – CONTINUOUS KILNS

Our offer includes continuous kilns designed for industries and mass-production. The kilns provide fully automated operation in all process phases.

Operational temperature up to 1000 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner dimensions in mm</th>
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Design

- conveyor belt of refractory material
- electrical or gas heating
- electric control box on the kiln side – right or left as per your choice
- surface finishing of the steel frame: fired powder coating, shade as per your choice
- outer mantle of stainless steel sheets
- observation holes in the sidewalls with manual flaps and two-position locking device
- PID controller or programmable logic controllers including software
- continuous change of conveying speed
- dimensions “made-to-measure”

Performance characteristics

- extremely low energy consumption
- short start-up time
- both one-shift and continuous operation possible
- reliable technology of heating and annealing
- guaranteed temperature distribution in the kiln
- reliable repeatability of the process
- noiseless operation
- high output
Kilns for glass

BENDING – HOOD KILNS

We offer many kiln models: from small studio kilns to industrial aggregates with high automation level. Wide range of optional equipment will satisfy the most complicated demands on technical level.

- **PSO 1-400**
  - electrical heating
  - PID controller
  - manual flaps
  - controlled annealing

- **PSOV 5-400**
  - electrical heating
  - PID controllers
  - 2 heating zones – top + bottom
  - manual side flaps
  - automatic top flaps control
  - controlled annealing

- **PSV 7-800**
  - electrical heating
  - PID controllers
  - 3 heating zones – top + walls + table
  - manual side flaps
  - manual top flaps
  - manual kiln opening
  - controlled annealing

- **PSOR 7-800**
  - electrical heating
  - programmable logic controller
  - 18 heating zones
  - 2 rings increasing the interior height
  - observation windows in the walls
  - electromechanical kiln opening
  - process visualization on PC
  - full automation of the process
• **PSOV 7-600**
  • electrical heating
  • PID controllers
  • 2 heating zones – top + walls
  • automatic side flaps control
  • automatic top flaps control
  • electromechanical kiln opening
  • controlled annealing
  • forced final cooling

### Model designation
- **PSO** – hood installed on the table (swivel hinges)
- **PSOV** – hood installed on the supporting frame, pull-out table, rails
- **PSOR** – “top lift system” hood suspended on the mobile frame, fixed table

### Operational temperature up to 1000 °C

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### Performance characteristics
- reliable technology of heating and annealing
- guaranteed temperature distribution in the kiln
- reliable repeatability of the process
BENDING – CAR-TYPE KILNS

Classic conception provides stationary chamber with a door in one or both fronts and a car, which moves in steel rails and carries moulds with glass.

Operational temperature up to 900 °C

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- reliable door hinges – door opening to the right or to the left as per your choice
- reliable locking devices
- adjustable closing pressure of the door towards the kiln front
- two-position locking device for manual side flaps
  - observation holes in the sidewalls covered with glass ceramics (instead of flaps)
  - automatically controlled side flaps, possibility to open them manually
- automatically controlled top flaps, with electric motors
- forced ventilation
- electric control box on the kiln sidewall – right or left as per your choice
- brick lining of high thermal resistance, anti-dust finish
- electrical heating system - spirals in the top
- additional heating spirals in the side walls
- total number and layout of heating zones as per kiln model – dimension
- possibility to preset different temperatures in respective heating zones
- controller installed as per kiln model, equipment and technological requirements
- supporting bars carrying the moulds, built in the table
- surface finishing of the steel frame: fired powder coating, shade as per your choice
- dimensions “made-to-measure”

Performance characteristics
- reliable technology of heating and annealing
- guaranteed temperature distribution in the kiln
- reliable repeatability of the process
BENDING – TANK KILNS

The basic design consists of one heating position, one annealing position and one mobile tank equipped with openable front and mobile construction for moulds with glass. The kiln can be delivered with two annealing positions and more tanks with a complex rail system. The system can be designed to create a closed circuit. Heating spirals are installed in the top, above the heating position; the annealing positions are equipped with flaps for controlled annealing.

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<td>1000 1500 500</td>
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<tr>
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<tr>
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<td>3800 3100 1500</td>
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<td>NSO 2.3.08-9</td>
<td>2000 3000 800</td>
<td>4800 3600 1800</td>
<td>180</td>
</tr>
</tbody>
</table>

- observation holes in the sidewalls with manual flaps and two-position locking device
- observation holes in the sidewalls covered with glass ceramics (instead of flaps)
- air vents in the top with manual flaps and multi-position locking device
- automatically controlled top flaps, with electric motors
- brick lining of high thermal resistance, anti-dust finish
- electrical heating system - spirals in the top
- additional electrical heating spirals in the tank walls
- total number and layout of heating zones as per kiln model – dimension
- possibility to preset different temperatures in respective heating zones
- controller installed as per kiln model, equipment and technological requirements
- solid pedestal to pull out the mobile construction with moulds
- surface finishing of the steel frame: fired powder coating, shade as per your choice
- dimensions “made-to-measure”

Performance characteristics
- reliable technology of heating and annealing
- guaranteed temperature distribution in the kiln
- reliable repeatability of the process

Design and options
Kilns for glass

- **KSP 1900**
  - electrical heating
  - heating spirals in all kiln walls
  - 2 heating zones
  - programmable PID controllers
  - controlled annealing

- **KSP 1900 A**
  - W. 1900, d. 1000, l. 1000 mm
  - electrical heating
  - heating spirals in all kiln walls
  - 2 heating zones
  - programmable PID controllers
  - forced ventilation
  - controlled annealing

GLASS CASTING
### Operational temperature up to 1100 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume ( \text{dm}^3 )</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSP 60</td>
<td>52</td>
<td>370 350 400</td>
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<td>220</td>
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<tr>
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<td>270</td>
</tr>
<tr>
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<td>1500 1540 1980</td>
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<td>1290 930 1150</td>
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<td>1440</td>
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<tr>
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<td>1610</td>
<td>1290 1040 1200</td>
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<td>1520</td>
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<tr>
<td>KSP 1900</td>
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<td>2350</td>
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### Operational temperature up to 1100 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume ( \text{dm}^3 )</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSP 1100</td>
<td>1100</td>
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<td>1500 2200 1950</td>
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<td>900 1900 900</td>
<td>1500 2700 1950</td>
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<td>1500 3200 1950</td>
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<tr>
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<td>900 2900 900</td>
<td>1500 3700 1950</td>
<td>104</td>
<td>3850</td>
</tr>
</tbody>
</table>

- considerably short annealing time
- reliable door hinges – door opening to the right or to the left as per your choice
- reliable locking devices
- adjustable closing pressure of the door towards the kiln front
- surface finishing of the steel frame: fired powder coating, shade as per your choice
- electric control box on the kiln sidewall – right or left as per your choice
- brick lining of high thermal resistance, anti-dust finish
- electrical heating, resistant spirals on ceramic tubes in all kiln walls
- two-zone-control: models from 300 to 1200 \( \text{dm}^3 \), three-zone-control: models more than 1200 \( \text{dm}^3 \)
- manual or automatic control of air vents in the top and bottom
- controlled annealing
- controller installed as per kiln model, equipment and technological requirements
- door in both fronts: models KSP 2 and VSP 2
- dimensions “made-to-measure”

Performance characteristics:
- guaranteed temperature distribution in the kiln
- noiseless operation
### HEAT SOAK TEST – CAR-TYPE KILNS

**Operational temperature up to 400 °C**

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner dimensions in mm (w. l. h.)</th>
<th>Outer dimensions in mm (w. l. h.)</th>
<th>Power kW</th>
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<tbody>
<tr>
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<tr>
<td>VSH 1,3.2,6.1,5-4</td>
<td>1300 2600 1500</td>
<td>1800 3300 2500</td>
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</tr>
<tr>
<td>VSH 1,3.3,2,2,2-4</td>
<td>1300 3200 2200</td>
<td>1800 3900 3200</td>
<td>180</td>
</tr>
<tr>
<td>VSH 1,7,4,2,2,2-4</td>
<td>1700 4200 2200</td>
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<td>220</td>
</tr>
<tr>
<td>VSH 1,7,5,2,2,2-4</td>
<td>1700 5200 2200</td>
<td>2200 5900 3200</td>
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</tbody>
</table>

- reliable door hinges – door opening to the right or to the left as per your choice
- reliable locking devices
- adjustable closing pressure of the door towards the kiln front
- electromechanical door opening upwards, with horizontal closing towards the kiln front
- electric control box near the kiln
- brick lining of high thermal resistance, anti-dust finish
- electrical heating or automatic gas burners
- forced atmosphere circulation
- automatically controlled air vents
- controlled annealing
- final cooling by forced ventilation
- programmable logic controller
- temperature measurement checkpoints
- data transfer to PC
- tools for batch stowing
- manual or electromechanical car motion
- dimensions “made-to-measure”

**Performance characteristics**
- guaranteed temperature distribution in the kiln
- reliable repeatability of the process
• KSD 400
• electrical heating
• 2 heating zones
• programmable logic controller
• LCD touch-screen
• controlled catalyst
• controlled removal of combustion gases
• controlled annealing
• cycle length 6 – 8 hours

Operational temperature up to 600 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume dm³</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
<th>Weight kg</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>w. l. h.</td>
<td>w. l. h.</td>
<td>w. l. h.</td>
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<td></td>
</tr>
<tr>
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<td>55</td>
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<td>730 840 1680</td>
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<tr>
<td>KSD 130</td>
<td>130</td>
<td>490 500 530</td>
<td>820 950 1680</td>
<td>9</td>
<td>230</td>
</tr>
<tr>
<td>KSD 180</td>
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<td>550 550 600</td>
<td>920 1090 1680</td>
<td>12</td>
<td>320</td>
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<tr>
<td>KSD 250</td>
<td>250</td>
<td>700 530 680</td>
<td>1100 1090 1780</td>
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<tr>
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<td>300</td>
<td>700 650 680</td>
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<td>KSD 400</td>
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<td>1200 1240 1880</td>
<td>21</td>
<td>500</td>
</tr>
<tr>
<td>KSD 500</td>
<td>500</td>
<td>800 810 780</td>
<td>1200 1400 1880</td>
<td>24</td>
<td>600</td>
</tr>
<tr>
<td>KSD 650</td>
<td>670</td>
<td>900 750 1000</td>
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<tr>
<td>KSD 1550</td>
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<td>1350 960 1200</td>
<td>1750 1540 1980</td>
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<td>1350 1270 1250</td>
<td>1750 1850 1980</td>
<td>60</td>
<td>1550</td>
</tr>
</tbody>
</table>

Design and options

• reliable door hinges – door opening to the right or to the left as per your choice
• reliable locking devices
• adjustable closing pressure of the door towards the kiln front
• surface finishing of the steel frame: fired powder coating, shade as per your choice
• heating spirals with full radiation on ceramic tubes in all kiln walls, bottom and top
• brick lining of high thermal resistance, anti-dust finish
• two-zone-control: models from 300 to 1200 dm³, three-zone-control: models more than 1200 dm³
• controlled catalyst
• controlled ventilation in heating phase
• controlled annealing
• controller installed as per kiln model, equipment and technological requirements, incl. programmable logic controller
• data records, transfers and saves to PC
• dimensions "made-to-measure"
• kiln capacity optimized to the technology
• kiln furniture: inner bearing constructions, perforated plates /shelves
• volume loading with a manual trolley

Performance characteristics

• low energy consumption
• cycle length cold / cold 6 – 8 hours
• reliable technology of heating and annealing in automatic mode
• guaranteed temperature distribution in the kiln
• faultless products
• reliable repeatability of the process
• noiseless operation
Kilns for glass

- PSD 08.18.03-6
- electrical heating
- conveying speed 2 – 4 mm/s
- belt width 800 mm
- batch passage through the kiln 75 – 150 min
- output batch temperature 40 °C

### DECORATION FIRING – CONTINUOUS KILNS

**Operational temperature up to 600 °C**

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
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<td>w. L. h.</td>
<td>w. L. h.</td>
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<td>1000 22000 1600</td>
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<tr>
<td>PSD 06.18.03-6</td>
<td>600 18000 300</td>
<td>1200 22000 1600</td>
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<td>1600 22000 1600</td>
<td>80</td>
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<td>1800 22000 1600</td>
<td>80</td>
</tr>
</tbody>
</table>

- modular concept of the kilns, module length 2 m
- random length of the kiln as per technological and capacity requests
- electrical heating
- three heating zones
- three annealing zones
- an independent temperature control in each zone
- records of all operational and technological data
- conveyor belts made of refractory wire
- kiln furniture for multilayer loading
- adjustable slide gates on both ends (as per batch height)
- input and output table of 2 m in length
- continuous conveying speed control
- automatic belt tensioning

**Performance characteristics**

- low energy consumption
- short start-up time
- both single shift and continuous operation possible
- reliable heating and cooling in automatic mode
- faultless products
- noiseless operation
- long service life
- effective operation
### FIRING OF LOW-TEMPERATURE COATINGS

#### Operational temperature up to 250 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume dm³</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
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<td>KSN 400</td>
<td>410</td>
<td>800 700 730</td>
<td>1100 1240 1780</td>
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</tr>
<tr>
<td>KSN 600</td>
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<td>900 840 830</td>
<td>1200 1400 1880</td>
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<tr>
<td>KSN 1000</td>
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<td>1000 840 1200</td>
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</table>

#### Operational temperature up to 250 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
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<tbody>
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<td>PSN 08.6.03-2</td>
<td>800 600 300</td>
<td>1400 800 1600</td>
<td>70</td>
</tr>
</tbody>
</table>

#### Design and options
- Electrical heating
- Forced atmosphere circulation
- Thermal insulation of composite materials
- Forced ventilation in heating phase
- Controlled cooling
- PID microprocessor programmable controller
- Dimensions “made-to-measure”
- Kiln power optimized to the batch weight
- Kiln furniture: inner bearing constructions, perforated plates /shelves
- Volume loading with a manual trolley
- Random conveying speed
- Performance characteristics
  - Low energy consumption
  - Cycle length cold / cold 3 hours
  - Faultless products
  - Noiseless operation
**Continuous kilns**

- PSL 03.8.01-8
- Electrical heating
- Three-zone-control
- Controlled forced cooling
- Random conveying speed

**Design and options**

- Modular concept
- Brick lining of high thermal resistance, anti-dust finish
- Electrical heating, spirals divided into three independent zones
- Controlled forced cooling
- Random conveying speed
- Controller installed as per kiln model, equipment and technological requirements
- Kiln furniture – steel plates for glass

**Performance characteristics**

- Low energy consumption
- Faultless products
- Noiseless operation

### Operational temperature up to 800 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
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<td>PSL 04.8.01-8</td>
<td>400 800 100</td>
<td>1000 10000 1600</td>
<td>66</td>
</tr>
</tbody>
</table>

**Chamber kilns**

- Reliable door hinges – door opening to the right or to the left as per your choice
- Surface finishing of the steel frame: fired powder coating, shade as per your choice
- Electric control box on the kiln sidewall – right or left as per your choice
- Brick lining of high thermal resistance, anti-dust finish
- Electrical heating – resistant spirals
- Forced atmosphere circulation
- Controlled cooling
- Controller installed as per kiln model, equipment and technological requirements
- Kiln furniture: inner bearing constructions, perforated plates/shelves
- Volume loading with manual trolley

**Performance characteristics**

- Guaranteed temperature distribution in the kiln
- Faultless products
- Noiseless operation

### Operational temperature up to 800 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume dm³</th>
<th>Inner dimensions in mm w. l. h.</th>
<th>Outer dimensions in mm w. l. h.</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
<tr>
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<td>180</td>
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<td>920 1100 1680</td>
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<tr>
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<td>700 650 680</td>
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</tr>
<tr>
<td>KSL 400</td>
<td>405</td>
<td>800 650 780</td>
<td>1200 1250 1880</td>
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</tr>
<tr>
<td>KSL 600</td>
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<td>900 750 1000</td>
<td>1300 1350 1980</td>
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</tr>
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<td>KSL 800</td>
<td>840</td>
<td>900 830 1150</td>
<td>1300 1450 1980</td>
<td>30</td>
</tr>
<tr>
<td>KSL 1000</td>
<td>1120</td>
<td>1100 860 1200</td>
<td>1500 1500 1980</td>
<td>39</td>
</tr>
<tr>
<td>KSL 1200</td>
<td>1270</td>
<td>1100 960 1200</td>
<td>1500 1600 1980</td>
<td>42</td>
</tr>
</tbody>
</table>
• KSC 2000
• electrical heating; two-zone-control
• forced cooling
• automatic control
• inner construction for shelves of refractory steel
• adjustable shelves (plates)

ANNEALING

Operational temperature up to 550 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume dm³</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC 500</td>
<td>570</td>
<td>700 x 820 x 1000</td>
<td>1200 x 1400 x 1960</td>
<td>14</td>
</tr>
<tr>
<td>KSC 700</td>
<td>720</td>
<td>800 x 820 x 1100</td>
<td>1300 x 1400 x 1960</td>
<td>17</td>
</tr>
<tr>
<td>KSC 1000</td>
<td>1050</td>
<td>800 x 1200 x 1100</td>
<td>1300 x 1800 x 1960</td>
<td>21</td>
</tr>
<tr>
<td>KSC 1600</td>
<td>1580</td>
<td>1200 x 1200 x 1100</td>
<td>1700 x 1800 x 1960</td>
<td>24</td>
</tr>
<tr>
<td>KSC 2-1600</td>
<td>1580</td>
<td>1650 x 800 x 1200</td>
<td>2150 x 1400 x 1960</td>
<td>24</td>
</tr>
<tr>
<td>KSC 2000</td>
<td>2160</td>
<td>1200 x 1500 x 1200</td>
<td>1700 x 2100 x 1960</td>
<td>30</td>
</tr>
<tr>
<td>KSC 2-2500</td>
<td>2400</td>
<td>1650 x 1200 x 1200</td>
<td>2150 x 1800 x 1960</td>
<td>34</td>
</tr>
<tr>
<td>KSC 2-3700</td>
<td>3700</td>
<td>1650 x 1900 x 1200</td>
<td>2150 x 2500 x 1960</td>
<td>38</td>
</tr>
</tbody>
</table>

Operational temperature up to 550 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCG 1,2.16.04-5</td>
<td>1200 x 1600 x 400</td>
<td>2000 x 22000 x 1700</td>
<td>240</td>
</tr>
<tr>
<td>PSCG 1,4.16.04-5</td>
<td>1400 x 1600 x 400</td>
<td>2200 x 22000 x 1700</td>
<td>240</td>
</tr>
<tr>
<td>PSCG 1,6.16.04-5</td>
<td>1600 x 1600 x 400</td>
<td>2400 x 22000 x 1700</td>
<td>300</td>
</tr>
<tr>
<td>PSCG 2.20.04-5</td>
<td>2000 x 20000 x 400</td>
<td>2800 x 26000 x 1700</td>
<td>360</td>
</tr>
</tbody>
</table>

Design

- reliable door hinges – door opening to the right or to the left as per your choice
- vertically divided door (models KSC 2-xxxx)
- number and size of the small input doors layout corresponding to the inner bearing construction
- manual or pneumatic control of small input doors
- surface finishing of the steel frame: fired powder coating, shade as per your choice
- electric control box on the kiln sidewall – right or left as per your choice
- electrical heating or automatic gas burners
- forced atmosphere circulation
- automatic control of air vents
- controlled annealing
- final cooling by forced ventilation
- controller installed as per kiln model, equipment and technological requirements
- kiln furniture: inner bearing constructions, perforated plates / shelves
- layout of the inner bearing construction, number of shelves as per request

Performance characteristics
- low energy consumption
- reliable control in automatic mode
- faultless products
- noiseless operation

Continuous kilns

Design and options

- gas heating (automatic gas burners) or electrical heating
- heating and annealing in independently controlled zones
- random conveying speed
Kilns for glass

KST-C 1500
- multi-purpose kiln for malleablizing and annealing
- electrical heating – two-zone-control
- microprocessor controllers
- controlled annealing
- automatic control of air vents in bottom and top
- inner bearing construction of refractory steel with plates/shelves
- three small input doors with quick operating devices

MALLEABLIZING OF CRUCIBLES – CHAMBER KILNS

Operational temperature up to 1280 °C

<table>
<thead>
<tr>
<th>Model</th>
<th>Crucible mm</th>
<th>Inner dimensions in mm</th>
<th>Outer dimensions in mm</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>KST 1000</td>
<td></td>
<td>700</td>
<td>1000 1000 1100</td>
<td>1500 1600 1960 34</td>
</tr>
<tr>
<td>KST-C 1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KST 1500</td>
<td></td>
<td>900</td>
<td>1200 1200 1100</td>
<td>1700 1800 1960 40</td>
</tr>
<tr>
<td>KST-C 1500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KST 2000</td>
<td></td>
<td>1100</td>
<td>1400 1400 1100</td>
<td>1900 2000 1960 48</td>
</tr>
<tr>
<td>KST-C 2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

KST – models for malleablizing of crucibles
KST-C – multi-purpose models for malleablizing of crucibles, annealing and decorations firing

Design and options

- multi-purpose models:
  - door for malleablizing
  - door for annealing with small input doors
  - kiln furniture: inner bearing constructions, perforated plates/shelves for annealing
  - surface finishing of the steel frame: fired powder coating, shade as per your choice
  - brick lining of high thermal resistance, anti-dust finish
  - electrical heating, spirals in 5 walls, in annealing mode in 3 walls
  - two-zone-control
  - automatic air vents control
  - controlled annealing
  - controller installed as per kiln model, equipment and technological requirements
  - forced ventilation for final batch cooling
  - pneumatic opening of small input doors
  - basic shelves covering the kiln bottom

Performance characteristics
- one kiln for two (three) technologies
- guaranteed temperature distribution in the kiln
- faultless products
PARTICULAR APPLICATIONS

- continuous kiln with suspended conveyor, designed for decorations firing and hardening of float glass
- max glass size 1500 x 1000 mm
- capacity: 30 pc / hour

- the biggest kiln for casting
- manufactured for a client from U.S.A.
- inner dimensions:
  w. 2250, d. 2150, h. 4000 mm