

KILNS UP TO  
**1800 °C**  
FOR INDUSTRY AND TRADE

*„Fire successfully  
from the start!“*

With kilns and  
controllers from  
KITTEC®



[www.kittec.eu](http://www.kittec.eu)







## WELCOME TO KITTEC®

### Welcome to the premium class of firing equipment

**Armin Flieher**

Managing Director and owner of the KITTEC® GmbH

**“With almost 40 years, Kittec is already one of the most experienced kiln construction companies.**

Part of our tradition is one of Europe's first top-loaders. The technology and equipment of our products have always been designed for many years of use in workshop and industrial operation.

We use high-quality materials and components for our kilns, which come from well-known manufacturers. Our specialists install everything in our modern factory with the utmost of precision. We carefully calculate our kilns, assemble them and they are then inspected by our company – for this purpose, the final check by the inspectors is marked on the seal of approval with their name. We give three years warranty to the kilns (2 years on industrial kilns), the heating elements however are excluded, this is normal.

**Today our claim on perfection defines the details.”**

Sincerely, your

Armin Flieher



# ABOUT US

**With almost 40 years, Kittec is already one of the most experienced kiln construction companies.**

**Part of our tradition is one of Europe's first top-loaders. The technology and equipment of our products have always been designed for many years of use in workshop and industrial operation.**

## Success story so far

The company Kittec was the first manufacturer to present the KeramikToplader CB 60 A. Innovation and consistent continued development have been the hallmark of KITTEC® ever since.

With many years of experience, we have further optimised our kilns and repeatedly set the standards for the construction of the kiln. In 1979, we introduced the first top-loader, which was a milestone in the construction of kilns.

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**1979** The introduction of the CB 60. Our first compact kiln is a milestone in kiln construction. The favourable construction of the top-loader, with all-round heat transfer to the object, leads to excellent firing results.

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**1986** With the introduction of the Microtherm® rear insulation, the CB series from KITTEC® becomes the new "reference" in kiln construction.

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**1994** Introduction of the successful door kiln series K180 T - K450 T.

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**1995** The CB 125 is the first GS-tested kiln with the "clever" swinging lid mechanism.

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**2001** The KITTEC® X-LINE kilns have a new type of construction. All models – from the X40 to X210 – have the ergonomic working height of 93 cm and a protective strap in the area of the loading edge. The proven "clever" lid opening is now supported by the X-handle – the lid can be easily opened and closed manually. All chassis parts are made of stainless steel or powder-coated. High-quality materials and components from renowned suppliers are mounted with precision.

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**2002** The front-loaders XR & XT of the KITTEC® X-Line have also been newly designed. With a complete stainless steel construction, height-adjustable legs and an innovative ceiling-plate solution, we are setting new standards in the construction of kiln doors.

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**2003** Our own installation and delivery service is introduced – especially for our front-loaders.

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**2004** KITTEC® celebrates its 25th anniversary and introduces the CB Studio-Line front-loader and fusing top-loader.

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**2006** At the Ceramitec trade show, the new CLASSIC-Line front-loaders were presented successfully.

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**2009** At the Ceramitec 2009, KITTEC® presented their first bogie hearth kiln from the company's CTH series.

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**2014** In order to meet the requirements of our customers in the future, the KITTEC® X-Line kilns have been completely revised. Behind the "KITTEC®-New Edition" is our claim to be able to offer our customers the best, unbeatable kiln alternatives.

# OUR TEAM

**As a competent specialist company we offer you an extensive range of services.**

Our qualified team supports you at any time in the implementation of your wishes and also accompanies you with the planning of your project. Please contact us – our staff will be glad to assist you!



## Heinrich Grosch

... was born in 1954 and has been on the KITTEC® staff since 2005. He is the contact person for suppliers, but also for customers in Germany, for example when it comes to the subject of special kilns. Heinrich Grosch speaks German and Czech.

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## Adelheid Wolff

... was born in 1970 and has been on the KITTEC® staff since 2012. She is contact person for all distributors and customers in Europe, excluding Germany. Adelheid Wolff speaks German, English, French and Italian.

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## Hendrik Sohr

... was born in 1968 and has been on the KITTEC® staff since 2006. He is a service technician and responsible for delivery and the installation service. Hendrik Sohr speaks German and English.

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## Alexander Fischer

... was born in 1976 and takes care of the international marketing and cooperation with our European partners. He speaks German, English, French and Spanish.

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## Michaela Roth

... was born in 1985 and has been taking care of our order processing for Germany since 2016. She also strengthens our team with many other administrative tasks. Michaela Roth speaks German, English, and Italian.

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## Armin Flieher

... was born in 1964 and has been Managing Director since 2002. He has over 25 years' experience when it comes to ceramic kilns. Armin Flieher speaks German and English.

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# LEGEND

## Explanations of symbols

-  General information
-  Gas kilns
-  Electric kilns
-  Top-loading kilns
-  Front-loading kilns
-  Applications
-  Custom constructed kilns
-  Technical information
-  STUDIO-LINE kilns
-  CLASSIC-LINE kilns
-  PROFESSIONAL-LINE kilns
-  INDUSTRIAL-LINE kilns
-  Machines and equipment

## Footnotes and tables

The terms used in the tables are presented in abridged form for easier readability and to make things clearer. The abbreviations used are identical in all tables.

[kW]: Power of the kiln model

Volt [V]: Voltage of the named kiln model

Ampere [A]: Current of the named kiln model









All linear dimensions are given in millimetres [mm].

All volume information is given in litres [L].

|   |                                       |      |           |
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## KITTEC® INFORMATION

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## KITTEC® STUDIO-LINE

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## KITTEC® CLASSIC-LINE

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## KITTEC® PROFESSIONAL-LINE

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## MACHINES & EQUIPMENT





# KITTEC® INFORMATION



## KITTEC® CONSULTATION



### Good advice right from the start!

We will be happy to answer your questions or take your order all-day from 9 am to 5 pm. Outside the personal consultation hours our answering machine is available. Give us your request and your telephone number and we will call you back promptly.

### Your contact to KITTEC®:

- Tel.: **+49 (0)80 31 - 89 24 62**
- Fax: **+49 (0)80 31 - 89 27 79**
- E-mail: **info@kittec.eu**



## KITTEC® DELIVERY AND INSTALLATION SERVICE



### Reliably delivered and safely set up.

On request, we also offer you our own delivery and installation service.



## KITTEC® SPARE PARTS SERVICE



**Delivered quickly, always appropriate.**

Heating elements, supporting pipes, circuit breakers, thermocouples, control systems, insulating material – we have the common spare parts also for our first kilns at all times. We are also able to manufacture heating elements for all other kiln manufacturers according to your specifications. All you have to do is ask.

## KITTEC® REPAIR SERVICE



**Quickly made, always safe.**

We perform heating spiral change and other repairs on request. Give us a call, we will make you a non-binding offer and discuss the further procedure.



*„Pottery, ceramics, clay –  
Kittec does not limit  
my creativity.“*



## KITTEC® CERAMIC KILNS

The firing of clay and the refinement of the surface with glazes, in addition to the durability, gives the clayworks also fascination, meaningfulness and importance. Whether ceramics, glass or porcelain, with safe firing processes, you can successfully fire right from the start.

*„Heat treatment with high  
precision is important to me!“*



## KITTEC® LABORATORY KILNS

The technology and equipment of our products have been designed for many years of use in workshop and industrial operation. KITTEC® laboratory kilns are assembled by trained personnel with the utmost precision in our modern manufacturing facility and are individually inspected.

*„Melting out, heat treatment,  
prototyping – Kittec allows me  
to satisfy my customers!“*



## KITTEC® INDUSTRIAL KILNS

In KITTEC® industrial kilns only high-quality materials and components from well-known manufacturers are installed. Each part is inspected by our technicians before installation. Perfect assembly of KITTEC® industrial kilns guarantees highest reliability and longevity.

*„For my work, I need  
individual kiln solutions.“*



## KITTEC® CUSTOM CONSTRUCTION

Special challenges require special kilns. KITTEC® solves these tasks with professional custom designs. Beyond our standard programme, we manufacture custom kilns for your specific needs. Our scope of supply includes all special voltages for international markets. KITTEC® builds your kiln!



**KITTEC<sup>®</sup>  
APPLICATIONS**



## POTTERY CERAMIC CLAY



**Fire successfully from the start! –  
With kilns and controllers from KITTEC®**

The firing of clay and the refinement of the surface with glazes, in addition to the durability, gives the claywork also fascination, meaningfulness and importance. Whether ceramics, glass or porcelain, with safe firing processes, you can successfully fire right from the start.

**A newly designed kiln concept offers space for creativity**



## LABORATORY DENTAL



**Laboratory kilns from KITTEC® –  
for heat treatment with extreme precision**

The technology and equipment of our products designed for many years of use in workshop and industrial operation. We use high-quality materials and components for our series of laboratory kilns, which come from well-known manufacturers. Our specialists install everything in our modern manufacturing facility with the utmost of precision.

**Dental kilns · Enamelling kilns · Laboratory and muffle kilns**

High temperature uniformity and precision distinguish our kilns for the laboratory and dental sector. In cooperation with laboratories, we have developed these kilns and extensively tested them

in continuous daily workshop operation. Very short heating-up times are another feature of our KITTEC® laboratory and muffle kilns.

## INDUSTRY: HEAT TREATMENT MELTING PROTOTYPING



### Professional partner at your side – industrial kilns from KITTEC®

We use only high-quality materials and components for our series of industrial kilns, which come from well-known manufacturers. Our specialists install everything in our modern manufacturing facility with the utmost of precision.

Over the past 30 years, we have supplied many customers from the industry with our KITTEC® kilns the right solution for many applications. This experience is reflected today in our product lines, which we have designed for the industry.

As a result, Kittec today offers a wide range of industrial kilns for heat treatment of metal or glass, in melting kilns for prototyping processes, kilns for low-voltage solution annealing or hardening at normal or protective gas atmosphere operation, electrically or gas heated.

## CUSTOM CONSTRUCTION



### The right kiln for every application!

Special challenges also require special kilns. KITTEC® solves these tasks with professional custom designs. Tell us your requirements!

In addition to our standard programme, we are also able to offer special construction and custom-made kilns. We have already successfully implemented a large number of special constructions for a wide range of applications. We are also pleased to meet your special

requirements. Our scope of supply already today provides for all the special voltages for the international market.

Special sizes and special constructions for your needs – we have the solutions.



## KITTEC® ELECTRIC KILNS

Electric kilns are easy to use for various applications. Depending on the requirements, our electric kilns are designed for voltages from 230 V to 400 V three-phase current.



## KITTEC® GAS KILNS

In addition to low energy consumption and the independence from a current source, the reduction effect on the firing object is particularly evident when using gas kilns. We offer gas kilns in various constructions, shapes and sizes.



## KITTEC® TOP-LOADER

Our top-loaders are manufactured in small series and offer an excellent price / performance ratio. In 1979, KITTEC® started this series and was one of the first in Europe with a Top -Loader, since then we have continuously further developed this product.

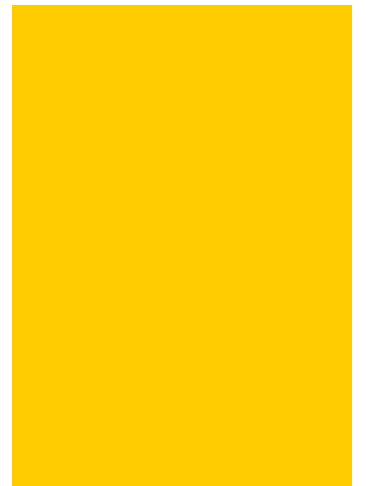


## KITTEC® FRONT LOADER

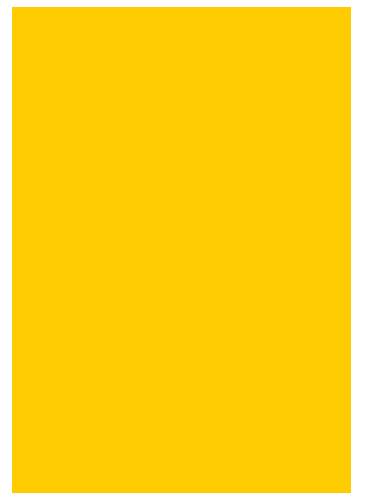
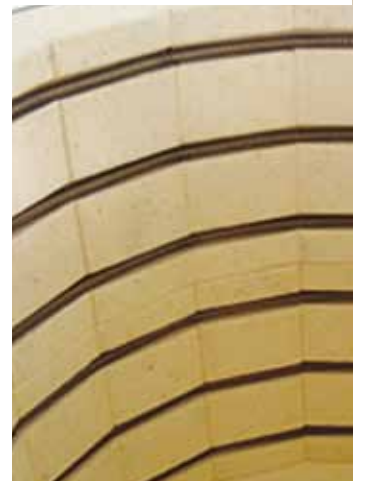
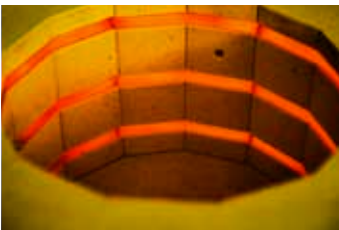
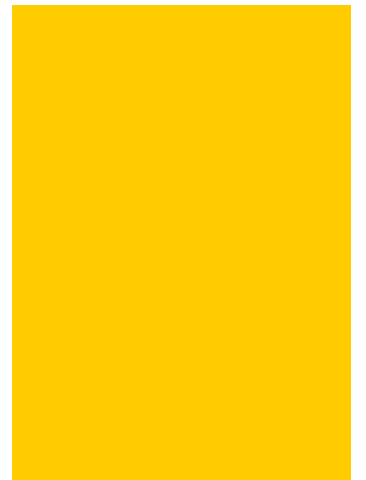
We use high-quality materials and components for our series of front-loaders, which come from well-known manufacturers. Our specialists install everything in our modern factory with the utmost of precision. Our inspectors guarantee the best quality with their final inspection.







 **KITTEC®**  
**STUDIO-LINE**



# **KITTEC® STUDIO-LINE**

The **KITTEC® STUDIO-LINE** kilns are manufactured in small series and offer an excellent price / performance ratio. This series is the re-design of the highly successful **CB series**, with which Kittec started the top-loader series in 1979 as one of the first in Europe.

Our kilns are designed for regular use within the specified temperature range. They are carefully calculated, assembled and inspected only then do they leave our facilities – for this purpose, the final check by the inspectors is marked on the seal of approval with their name. We give three years warranty to the kilns, the heating elements however are excluded, this is normal.

You will receive our kilns through the specialist trader, who will provide you with advice and assistance. We would be happy to name a partner near you.



- ✓ Thermocouple for temperature detection, protected



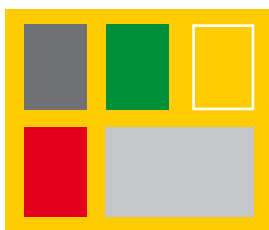
- ✓ Stainless steel components, rust-free, low outside temperature



- ✓ Optional: transport castors (two of the four castors with brake)



- ✓ Heating elements in grooves



- ✓ Available in the colours charcoal grey, green, yellow, red and silver



- ✓ Easy-to-use control with over-temperature protection



- ✓ Kanthal® heating elements with lower surface load, secured against slipping



- ✓ Gas pressure lid opener



- ✓ Subsequent expansion due to extension ring



- ✓ Bypass exhaust air nozzles

# KITTEC® STUDIO-LINE TOP-LOADER

Electric top-loader up to 1320 °C  
out of stainless steel and coated steel



- ✓ Lid added without mortar, no contamination
- ✓ Two-layer insulation:  
Fire bricks + high-quality, ceramic-fibre-free insulation
- ✓ ESP Energy saving package for extremely low energy consumption at all CB Plus, otherwise optional
- ✓ All models from CB70 onward can be taken apart, this solves all transport problems with door widths above 50 cm
- ✓ All-round heating for good heat distribution
- ✓ Easy opening of the lid by using gas pressure springs (from CB70)
- ✓ Convenient handles for safe and fast transport
- ✓ Two possible working heights by means of a turnable stand legs
- ✓ Lid can be opened wide
- ✓ Exhaust air connection on the right side, condensation proof – optional left
- ✓ Body added without mortar, no cracking
- ✓ Lid closure (lockable)
- ✓ Subsequent expansion for many models with extension rings: 50% more volume!
- ✓ Custom designs on request

## STUDIO-LINE Electric top-loaders up to 1320 °C

The KITTEC® STUDIO-LINE kilns are manufactured in small series and offer an excellent price / performance ratio. This series is the re-design of the highly successful CB series, with which KITTEC® started the top-loader series in 1979 as one of the first in Europe.

- ✓ Lid can be opened wide (>90°)
- ✓ Two-layer insulation:
  - Fire brick + high-quality Microtherm®-insulation with all CB50 and CB70
  - Fire bricks + Superwool (ceramic-fibre-free) for all other models
- ✓ Optional Microtherm® insulation instead of Superwool for low energy consumption

**i** Appropriate firing sets, tools and additional equipment to KITTEC® STUDIO-LINE kilns are from page 63 onwards



### STUDIO-LINE type CB

| Model              | Form  | Firing chamber ø [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External Ø [mm] | External width [mm] | External depth [mm] | External height [mm] | External height [mm] with legs | Temperature max. [°C] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|--------------------|-------|-----------------------|---------------------------|---------------------------|----------------------------|------------|-----------------|---------------------|---------------------|----------------------|--------------------------------|-----------------------|------------|-------------|-------------|-------------|
| <b>CB 20</b>       | round | 330                   | -                         | -                         | 230                        | 20         | 520             | -                   | 650                 | 545                  | -                              | 1320                  | 3          | 230 N~      | 13          | 30          |
| <b>CB 40</b>       | round | 400                   | -                         | -                         | 305                        | 40         | 590             | -                   | 720                 | 620                  | 780                            | 1320                  | 3.6        | 230 N~      | 16          | 50          |
| <b>CB 50</b>       | round | 400                   | -                         | -                         | 380                        | 50         | 590             | -                   | 720                 | 700                  | 860                            | 1280±30               | 3.6        | 230 N~      | 16          | 55          |
| <b>CB 50 PLUS</b>  | round | 400                   | -                         | -                         | 380                        | 50         | 590             | -                   | 720                 | 700                  | 860                            | 1320                  | 3.6        | 230 N~      | 16          | 55          |
| <b>CB 50 S</b>     | round | 400                   | -                         | -                         | 380                        | 50         | 590             | -                   | 720                 | 700                  | 860                            | 1320                  | 4.4        | 400 2N~     | 2x11 CEE16  | 55          |
| <b>CB 66</b>       | round | 400                   | -                         | -                         | 535                        | 66         | 590             | -                   | 720                 | 850                  | 1010                           | 1200±30               | 3.6        | 230 N~      | 16          | 60          |
| <b>CB 66 PLUS</b>  | round | 400                   | -                         | -                         | 535                        | 66         | 590             | -                   | 720                 | 850                  | 1010                           | 1250±30               | 3.6        | 230 N~      | 16          | 60          |
| <b>CB 66 S</b>     | round | 400                   | -                         | -                         | 535                        | 66         | 590             | -                   | 720                 | 850                  | 1010                           | 1320                  | 5          | 400 2N~     | 2x13 CEE16  | 60          |
| <b>CB 70 PLUS</b>  | round | 430                   | -                         | -                         | 460                        | 70         | 620             | -                   | 750                 | 780                  | 1010                           | 1230±30               | 3.6        | 230 N~      | 16          | 60          |
| <b>CB 70 S</b>     | round | 430                   | -                         | -                         | 460                        | 70         | 620             | -                   | 750                 | 780                  | 1010                           | 1320                  | 5.6        | 400 2N~     | 2x12 CEE16  | 60          |
| <b>+ Extension</b> | round | 430                   | -                         | -                         | 230                        | 30         | 620             | -                   | 750                 | 230                  | -                              | 1320                  | 3.0        | -           | -           | 25          |
| <b>= CB 100 S</b>  | round | 430                   | -                         | -                         | 690                        | 100        | 620             | -                   | 750                 | 1010                 | -                              | 1320                  | 8.6        | 400 3N~     | 3x12 CEE16  | 85          |
| <b>CB 80 PLUS</b>  | round | 510                   | -                         | -                         | 380                        | 80         | 700             | -                   | 830                 | 700                  | 1010                           | 1200±30               | 3.6        | 230 N~      | 16          | 65          |
| <b>CB 80 S</b>     | round | 510                   | -                         | -                         | 380                        | 80         | 700             | -                   | 830                 | 700                  | 1010                           | 1320                  | 5.6        | 400 2N~     | 2x12 CEE16  | 65          |
| <b>+ Extension</b> | round | 510                   | -                         | -                         | 230                        | 40         | 700             | -                   | 830                 | 230                  | -                              | 1320                  | 3.0        | -           | -           | 25          |
| <b>= CB 120 S</b>  | round | 510                   | -                         | -                         | 610                        | 120        | 700             | -                   | 830                 | 930                  | -                              | 1320                  | 8.6        | 400 3N~     | 3x12 CEE16  | 90          |
| <b>CB 130 S</b>    | round | 590                   | -                         | -                         | 460                        | 130        | 780             | -                   | 910                 | 780                  | 1010                           | 1320                  | 7.2        | 400 2N~     | 2x16 CEE16  | 105         |
| <b>+ Extension</b> | round | 590                   | -                         | -                         | 230                        | 60         | 780             | -                   | 910                 | 230                  | -                              | 1320                  | 3.8        | -           | -           | 30          |
| <b>= CB 190 S</b>  | round | 590                   | -                         | -                         | 690                        | 190        | 780             | -                   | 910                 | 1010                 | -                              | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 135         |
| <b>CB 200 S</b>    | round | 690                   | -                         | -                         | 535                        | 200        | 880             | -                   | 1010                | 850                  | -                              | 1320                  | 12         | 400 3N~     | 3x26 CEE32  | 145         |
| <b>+ Extension</b> | round | 690                   | -                         | -                         | 230                        | 100        | 880             | -                   | 1010                | 230                  | -                              | 1320                  | 6.0        | -           | -           | 35          |
| <b>= CB 300 S</b>  | round | 690                   | -                         | -                         | 765                        | 300        | 880             | -                   | 1010                | 1080                 | -                              | 1320                  | 18         | 400 3N~     | 3x26 CEE32  | 180         |
| <b>CB 220 S</b>    | Oval  | -                     | 820                       | 590                       | 535                        | 220        | -               | 1020                | 930                 | 850                  | 1010                           | 1320                  | 15         | 400 3N~     | 3x22 CEE32  | 180         |
| <b>CB 330 S</b>    | Oval  | -                     | 930                       | 590                       | 690                        | 330        | -               | 1130                | 930                 | 1010                 | -                              | 1320                  | 18         | 400 3N~     | 3x26 CEE32  | 220         |
| <b>CB 520 S</b>    | Oval  | -                     | 1145                      | 690                       | 765                        | 520        | -               | 1350                | 1030                | 1080                 | -                              | 1320                  | 24         | 400 3N~     | 3x35 CEE63  | 260         |

## STUDIO-LINE Squadro Electric top-loaders up to 1320 °C

As the first manufacturer worldwide, KITTEC® offers square kilns without the heavy, bulky steel frame. As a result, these kilns are very easy to transport, they will fit through any door larger than 50 cm in width. In addition, they have the unique possibility of expansion through an extension ring.

- ✓ Lid can be opened wide (>90°)
- ✓ Two-layer insulation:
  - Fire bricks + high-quality Microtherm®-insulation with all SQ 50 and 70 SQ models
  - Fire bricks + Superwool (ceramic-fibre-free) for all other models
- ✓ Optional Microtherm® insulation instead of Superwool for low energy consumption

**i** Appropriate firing sets, tools and additional equipment to KITTEC® STUDIO-LINE kilns are from page 63 onwards



### STUDIO-LINE type Squadro SQ



| Model              | Form        | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External Ø [mm] | External width [mm] | External depth [mm] | External height [mm] | External height [mm] with legs | Temperature max. [°C] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|--------------------|-------------|---------------------------|---------------------------|----------------------------|------------|-----------------|---------------------|---------------------|----------------------|--------------------------------|-----------------------|------------|-------------|-------------|-------------|
| <b>SQ 11</b>       | Square      | 220                       | 220                       | 230                        | 11         | -               | 460                 | 560                 | 550                  | 720                            | 1320                  | 2.4        | 230 N~      | 10          | 25          |
| <b>SQ 50</b>       | Square      | 380                       | 380                       | 340                        | 50         | -               | 620                 | 720                 | 660                  | 890                            | 1280±30               | 3.6        | 230 N~      | 16          | 55          |
| <b>SQ 70</b>       | Square      | 380                       | 380                       | 460                        | 70         | -               | 620                 | 720                 | 780                  | 1010                           | 1250±30               | 3.6        | 230 N~      | 16          | 65          |
| <b>SQ 90 S</b>     | Square      | 450                       | 450                       | 460                        | 90         | -               | 690                 | 790                 | 780                  | 1080                           | 1320                  | 7.2        | 400 2N~     | 2x16 CEE16  | 85          |
| <b>+ Extension</b> | Square      | 450                       | 450                       | 230                        | 50         | -               | 690                 | 790                 | 230                  | -                              | 1320                  | 3.8        | -           | -           | 25          |
| <b>= SQ 140 S</b>  | Square      | 450                       | 450                       | 690                        | 140        | -               | 690                 | 790                 | 1010                 | -                              | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 110         |
| <b>SQ 150 S</b>    | Square      | 560                       | 560                       | 460                        | 150        | -               | 800                 | 900                 | 780                  | 1080                           | 1320                  | 12         | 400 3N~     | 3x26 CEE32  | 120         |
| <b>+ Extension</b> | Square      | 560                       | 560                       | 230                        | 70         | -               | 800                 | 900                 | 230                  | -                              | 1320                  | 6.0        | -           | -           | 30          |
| <b>= SQ 220 S</b>  | Square      | 560                       | 560                       | 690                        | 220        | -               | 800                 | 900                 | 1010                 | -                              | 1320                  | 18         | 400 3N~     | 3x26 CEE32  | 150         |
| <b>SQ 165 S</b>    | Rectangular | 780                       | 450                       | 460                        | 165        | -               | 980                 | 790                 | 780                  | 1010                           | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 140         |
| <b>SQ 235 S</b>    | Rectangular | 780                       | 560                       | 535                        | 235        | -               | 980                 | 900                 | 850                  | -                              | 1320                  | 16         | 400 3N~     | 3x24 CEE32  | 180         |
| <b>SQ 350 S</b>    | Rectangular | 890                       | 560                       | 690                        | 350        | -               | 1090                | 900                 | 1010                 | -                              | 1320                  | 20         | 400 3N~     | 3x29 CEE32  | 250         |
| <b>SQ 390 S</b>    | Rectangular | 890                       | 560                       | 765                        | 390        | -               | 1090                | 900                 | 1080                 | -                              | 1320                  | 22         | 400 3N~     | 3x32 CEE32  | 270         |



## STUDIO-LINE Fusing top-loaders up to 1000 °C

This series for glass fusing is a re-design of the highly successful CB series, with which KITTEC® started the top-loader series in 1979 as one of the first in Europe.

- ✓ SQF: Standard legs with rollers  
(all four wheels with brake)

**i** Appropriate firing sets, tools and additional equipment to KITTEC® STUDIO-LINE kilns are from page 63 onwards



### STUDIO-LINE fusing kiln type CBF

| Model            | Form        | Firing chamber Ø [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | External height [mm] with legs | Temperature max. [°C] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|------------------|-------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|--------------------------------|-----------------------|------------|-------------|-------------|-------------|
| <b>CBF 45</b>    | round       | 430                   | -                         | -                         | 305                        | 44         | 620                 | 750                 | 620                  | 850                            | 1000                  | 3.6        | 230 N~      | 16          | 50          |
| <b>CBF 65</b>    | round       | 510                   | -                         | -                         | 305                        | 62         | 700                 | 830                 | 620                  | 850                            | 1000                  | 3.6        | 230 N~      | 16          | 60          |
| <b>CBF 65 S</b>  | round       | 510                   | -                         | -                         | 305                        | 62         | 700                 | 830                 | 620                  | 850                            | 1000                  | 5          | 400 2N~     | 2x11 CEE16  | 60          |
| <b>CBF 85 S</b>  | round       | 590                   | -                         | -                         | 305                        | 83         | 780                 | 910                 | 620                  | 850                            | 1000                  | 6          | 400 2N~     | 2x13 CEE16  | 70          |
| <b>CBF 115 S</b> | round       | 690                   | -                         | -                         | 305                        | 114        | 880                 | 1010                | 620                  | 850                            | 1000                  | 7          | 400 2N~     | 2x16 CEE16  | 80          |
| <b>SQF 95 S</b>  | Rectangular | -                     | 560                       | 560                       | 305                        | 95         | 860                 | 960                 | 1150                 | -                              | 1000                  | 6.9        | 400 3N~     | 3x10 CEE16  | 75          |
| <b>SQF 185 S</b> | Rectangular | -                     | 1015                      | 560                       | 305                        | 173        | 1310                | 960                 | 1150                 | -                              | 1000                  | 8.4        | 400 3N~     | 3x13 CEE16  | 120         |

### STUDIO-LINE Combination kiln top-loader

We can offer all KITTEC® STUDIO-LINE top-loaders also with an additional heating in the lid. These combination kilns are then suitable both for conventional firing processes and for other applications such as glass fusing.

The switching of this lid heater is not only a selector switch with a "lid heating off" or "side heating off", but there is also a step-less switch, with which you can adjust the ratio of lid to side heating as a percentage. It does not get any more convenient than that, to fire alternatively both ceramics and glass – the ideal combination kiln!

**Give us a call!**  
We would be pleased to advise you regarding heating and control.



## STUDIO-LINE Gas top-loaders up to 1320 °C

- ✓ Temperature indicator battery-powered
- ✓ Bottle connection (Pressure regulator with manometer including all fittings between burner and gas bottle)
- ✓ Extremely quiet, very well adjustable high-performance burners for propane / butane
- ✓ Optional: Natural gas burner (compressor required)
- ✓ Extremely short heat-up times
- ✓ Low energy consumption
- ✓ Detailed operating instructions
- ✓ 3 years warranty
- ✓ Test seal for quality assurance

Bottle connection, pressure regulator with manometer including all fittings between burner and gas bottle



### STUDIO-LINE type CBG



| Model          | Form | Firing chamber width (mm) | Firing chamber depth (mm) | Firing chamber height (mm) | Volume (L) | External width (mm) | External depth (mm) | External height (mm) | Temperature max. [°C] | Power [kW] | Number of burners | Weight [kg] |
|----------------|------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|-----------------------|------------|-------------------|-------------|
| <b>CBG 90</b>  | Oval | 450                       | 500                       | 460                        | 90         | 820                 | 870                 | 760                  | 1320                  | 20         | 1                 | 100         |
| <b>CBG 160</b> | Oval | 540                       | 590                       | 530                        | 160        | 880                 | 950                 | 830                  | 1320                  | 40         | 2                 | 130         |
| <b>CBG 210</b> | Oval | 540                       | 590                       | 690                        | 210        | 880                 | 950                 | 960                  | 1320                  | 40         | 2                 | 150         |
| <b>CBG 280</b> | Oval | 640                       | 690                       | 690                        | 280        | 980                 | 1050                | 960                  | 1320                  | 40         | 2                 | 180         |

## CBR STUDIO-LINE Raku top-loaders up to 1150 °C

Raku – a firing technique from the Far East. Each ceramic produced here is unique, unmistakable and not reproducible. Our Raku kilns are characterised by the fact that they are easy to transport, have very short heating-up times and are easy to handle.

In recent years, the Raku firing has become quite a boom. Each ceramic produced here is unique, unmistakable and not reproducible.

The firing material is sprayed and is usually glazed before it is heated to between 750 and 1050 °C. It is removed while glowing from the hot kiln with the Raku forceps. It is then cooled by placing it in a container with sawdust, leaves or grass. Immersion in water ultimately changes the glaze again. This allows everyone to develop their own technique in order to give a personal touch to their ceramic. This always makes Raku exciting.

Raku kilns are characterised in that they are easy to transport. Easy handling and very short heat-up times are also desirable. All these advantages are combined with the KITTEC® CBR Raku kiln. It is thus an inexpensive and robust alternative to self-built "Raku-casks" – ceramic-fibre-free and durable. And this with an excellent price-performance ratio.

- ✓ Optional: Extremely quiet, highly adjustable high-performance burner
- ✓ Easy to transport due to detachable legs
- ✓ Optional: Bottle connection (pressure regulator and manometer including all fittings between burner and gas bottle)
- ✓ Optional: Temperature indicator battery-powered
- ✓ Optional: Built-in and protected thermocouple for temperature detection
- ✓ Optional: Transport castors (two of the four castors with brakes)
- ✓ Optional: Levelling feet
- ✓ Special dimensions and CBRB Raku ring kiln on request



Bottle connection, pressure regulator with manometer including all fittings between burner and gas bottle



## STUDIO-LINE type CBR



| Model            | Form  | Firing chamber Ø [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | Temperature max. [°C] | Recommended firing power [kW] | Weight [kg] |
|------------------|-------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|-----------------------|-------------------------------|-------------|
| <b>CBR 44 T</b>  | round | 395                   | -                         | -                         | 350                        | 56         | 550                 | 680                 | 780                  | 1150                  | 20                            | 45          |
| <b>CBR 80 T</b>  | round | 430                   | -                         | -                         | 500                        | 89         | 580                 | 710                 | 930                  | 1150                  | 20                            | 70          |
| <b>CBR 120 T</b> | round | 510                   | -                         | -                         | 580                        | 141        | 660                 | 790                 | 1010                 | 1150                  | 30                            | 85          |
| <b>CBR 170 T</b> | round | 590                   | -                         | -                         | 580                        | 189        | 740                 | 870                 | 1010                 | 1150                  | 30                            | 110         |

# KITTEC® STUDIO-LINE FRONT LOADER

**Electric front-loader up to 1320 °C  
out of stainless steel and coated steel**



- ✓ Legs - Available in the colours charcoal grey, green, yellow, red and silver
- ✓ Can be heated on 3-sides (from CBN 100 S) for even temperature distribution
- ✓ Optional: Levelling feet

### **For the budget-conscious ceramists**

The KITTEC® CBN STUDIO-LINE front-loaders are characterised by a heating system with heating elements in grooved bricks. They are well protected and integrated into the wall structure. A three-sided all-round heating (from CBN 100 S) ensures a good temperature distribution.

### **Special features**

The KITTEC® CBN models are equipped with a heating system in grooved bricks. Our quality plus: All CBN front-loaders are equipped with a rear insulation – safety for optimum temperature rise even in the upper temperature range!

### **Processing - stainless steel**

With the KITTEC® CB STUDIO-LINE front-loaders we are deliberately using a frame of coated steel and smooth surfaces made of stainless steel. The stainless steel parts are absolutely rust-free and vouch for our quality.

State-of-the-art environmentally friendly processes in stainless steel processing ensure the latest standards with precision. The powder-coated steel frame can be ordered in the colours charcoal grey, green, yellow, red or silver.

Accessories - firing sets optional, see Page 64

## STUDIO-LINE Electric front-loaders up to 1320 °C

- ✓ Exhaust air connection on the back, condensation proof
- ✓ Optional: Supply bottom valve + supply air hole in the base
- ✓ Two-layer insulation: Fire bricks + high-quality, ceramic-fibre-free insulation
- ✓ ESP Energy saving package for extremely low energy consumption standard with some models, otherwise optional
- ✓ Body added without mortar, no cracking
- ✓ Door can be opened wide (approx. 170°)
- ✓ Safety door switch, forced separation



### STUDIO-LINE type CBN

| Model            | Form        | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | External height [mm] with legs | Temperature max. [°C] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|------------------|-------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|--------------------------------|-----------------------|------------|-------------|-------------|-------------|
| <b>CBN 15</b>    | Rectangular | 225                       | 285                       | 230                        | 15         | 460                 | 590                 | 560                  | 1370                           | 1320                  | 2.6        | 230 N~      | 10          | 25          |
| <b>CBN 33</b>    | Rectangular | 340                       | 340                       | 285                        | 33         | 580                 | 645                 | 620                  | 1405                           | 1320                  | 3          | 230 N~      | 13          | 40          |
| <b>CBN 50</b>    | Rectangular | 360                       | 400                       | 340                        | 50         | 600                 | 705                 | 675                  | 1435                           | 1280 ± 30             | 3.6        | 230 N~      | 16          | 55          |
| <b>CBN 70</b>    | Rectangular | 400                       | 400                       | 460                        | 70         | 640                 | 705                 | 790                  | 1485                           | 1230 ± 30             | 3.6        | 230 N~      | 16          | 60          |
| <b>CBN 70 S</b>  | Rectangular | 400                       | 400                       | 460                        | 70         | 640                 | 705                 | 790                  | 1485                           | 1320                  | 5.4        | 400 2N~     | 2x12 CEE16  | 60          |
| <b>CBN 100 S</b> | Rectangular | 455                       | 400                       | 570                        | 100        | 690                 | 705                 | 905                  | 1455                           | 1320                  | 7.5        | 400 3N~     | 3x11 CEE16  | 85          |
| <b>CBN 140 S</b> | Rectangular | 455                       | 515                       | 580                        | 140        | 690                 | 820                 | 915                  | 1465                           | 1320                  | 9          | 400 3N~     | 3x13 CEE16  | 110         |
| <b>CBN 200 S</b> | Rectangular | 570                       | 515                       | 680                        | 200        | 805                 | 820                 | 1015                 | 1525                           | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 140         |
| <b>CBN 280 S</b> | Rectangular | 570                       | 625                       | 800                        | 280        | 805                 | 930                 | 1130                 | 1590                           | 1320                  | 13.5       | 400 3N~     | 3x20 CEE32  | 180         |
| <b>CBN 330 S</b> | Rectangular | 570                       | 740                       | 800                        | 330        | 805                 | 1050                | 1130                 | 1590                           | 1320                  | 17         | 400 3N~     | 3x25 CEE32  | 200         |

## CBR STUDIO-LINE Raku front-loader up to 1150 °C

Raku – a firing technique from the Far East. Each ceramic produced here is unique, unmistakable and not reproducible. Our Raku kilns are characterised by the fact that they are easy to transport, have very short heating-up times and are easy to handle.

In recent years, the Raku firing has become quite a boom. Each ceramic produced here is unique, unmistakable and not reproducible.

Raku kilns are characterised in that they are easy to transport. Easy handling and very short heat-up times are also desirable. All these advantages are combined with the KITTEC® CBR Raku kiln. It is thus an inexpensive and robust alternative to self-built "Raku-casks" – ceramic-fibre-free and durable. And this with an excellent price-performance ratio.

- ✓ Optional: Extremely quiet, highly adjustable high-performance burner
- ✓ Easy to transport due to detachable legs

- ✓ Optional: Bottle connection (pressure regulator and manometer including all fittings between burner and gas bottle)
- ✓ Optional: Temperature indicator battery-powered
- ✓ Optional: Built-in and protected thermocouple for temperature detection
- ✓ Optional: Transport castors (two of the four castors with brakes)
- ✓ Optional: Levelling feet
- ✓ Door can be opened wide (approx. 170°)



Bottle connection, pressure regulator with manometer including all fittings between burner and gas bottle



### STUDIO-LINE type CBR

| Model            | Form        | Firing chamber Ø [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | Temperature max. [°C] | recommended firing power. [KW] | Weight [kg] |
|------------------|-------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|-----------------------|--------------------------------|-------------|
| <b>CBR 90 F</b>  | Rectangular | -                     | 455                       | 455                       | 440                        | 118        | 690                 | 610                 | 870                  | 1150                  | 20                             | 85          |
| <b>CBR 180 F</b> | Rectangular | -                     | 570                       | 455                       | 670                        | 207        | 800                 | 610                 | 1100                 | 1150                  | 30                             | 130         |





**KITTEC®**  
 **CLASSIC-LINE**





# KITTEC® CLASSIC-LINE

The KITTEC® CLASSIC-LINE kilns ensure optimal temperature distribution all-round due to a 3 or 5-sided heating. They are characterised by heating with heating elements in grooved bricks. They are well protected and integrated into the wall structure.



- ✓ Platinum rhodium thermocouple for temperature detection – mounted free of wear and break-proof



- ✓ High-quality industrial plug connection for kilns and control, standard IP55



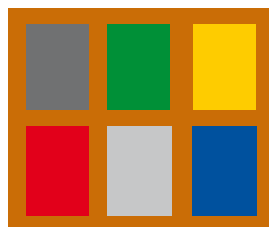
- ✓ Joint-less mortar-free firing chamber protects against cracking in the fire bricks



- ✓ Stainless steel plates on the sides, at the door and the lintel



- ✓ Wall bracket for the control



- ✓ Steel frame powder-coated, on request in the colours charcoal grey, green, yellow, red, silver and blue



- ✓ Lockable stainless steel door lock



- ✓ Perforated sheet metal on the kiln to protect against heat and moisture



- ✓ Legs can be taken apart for easy transport



- ✓ Very robust, adjustable door hinge



# KITTEC® CLASSIC-LINE FRONT LOADER

## Electric front-loader up to 1320 °C

✓ Large door opening angle – easy loading

✓ Tested safety door switch-forced separation

✓ Very robust, adjustable door hinge

✓ Kanthal® heating elements with a low surface load ensuring a long service life

✓ Ergonomic door handle

✓ Three-layer insulation for low energy consumption

✓ Bypass exhaust air system on the side, making it condensation proof

✓ R-SiC cover plate to protect against contamination of the firing material from the lid above



## Optional

✓ Adjustable air bottom valve

✓ Heat-resistant SiC floor covering

✓ Exhaust air hole and door hinge on the left side

✓ Legs with castors for easy moving of the kiln

✓ Firing sets made of plates and supports, suitable for every type of kiln

✓ Observation hole in the door for checking the firing material

✓ Supply air and / or exhaust air valve control

✓ Supply air ventilator

✓ Multi-zone control system

✓ Solid-state relay (noiseless)

✓ Temperature up to 1,350 °C

✓ Loading frame

✓ External power supply for the control (with night-time electricity)

## CLASSIC-LINE type CL 3

The KITTEC®CLASSIC-LINE third series front-loaders are characterised by a heating system with heating elements in grooved bricks. They are well protected and integrated into the wall structure. A three-sided all-round heating of the sides and the base ensures good temperature distribution.

✓ 3-sided heating: Sides and back

✓ Good temperature distribution

**i** Appropriate firing sets, tools and additional equipment to KITTEC® CLASSIC-LINE kilns are from page 63 onwards



## CLASSIC-LINE type CL 3

| Model    | Loading      | Form        | Energy   | Firing chamber [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | Temperature max. [°C] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|----------|--------------|-------------|----------|---------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|-----------------------|------------|-------------|-------------|-------------|
| CL 43    | Front-loader | Rectangular | Electric | 350 x 400           | 350                       | 400                       | 340                        | 47         | 590                 | 720                 | 1450                 | 1320                  | 3,6        | 230 N~      | 16          | 90          |
| CL 60    | Front-loader | Rectangular | Electric | 350 x 400           | 350                       | 400                       | 455                        | 63         | 590                 | 720                 | 1500                 | 1230±30               | 3,6        | 230 N~      | 16          | 120         |
| CL 100-3 | Front-loader | Rectangular | Electric | 400 x 450           | 400                       | 450                       | 570                        | 102        | 640                 | 770                 | 1520                 | 1320                  | 7,5        | 400 3N~     | 3x11 CEE16  | 160         |
| CL 140-3 | Front-loader | Rectangular | Electric | 450 x 580           | 450                       | 580                       | 570                        | 148        | 690                 | 900                 | 1520                 | 1320                  | 9          | 400 3N~     | 3x13 CEE16  | 220         |
| CL 210-3 | Front-loader | Rectangular | Electric | 520 x 580           | 520                       | 580                       | 680                        | 205        | 760                 | 900                 | 1630                 | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 270         |
| CL 280-3 | Front-loader | Rectangular | Electric | 550 x 580           | 550                       | 580                       | 850                        | 271        | 790                 | 900                 | 1800                 | 1320                  | 15         | 400 3N~     | 3x22 CEE32  | 300         |
| CL 330-3 | Front-loader | Rectangular | Electric | 610 x 610           | 610                       | 610                       | 880                        | 327        | 850                 | 930                 | 1830                 | 1320                  | 18         | 400 3N~     | 3x26 CEE32  | 400         |
| CL 440-3 | Front-loader | Rectangular | Electric | 610 x 720           | 610                       | 720                       | 980                        | 430        | 850                 | 1040                | 1830                 | 1320                  | 22         | 400 3N~     | 3x32 CEE32  | 540         |
| CL 600-3 | Front-loader | Rectangular | Electric | 720 x 830           | 720                       | 830                       | 1020                       | 610        | 960                 | 1150                | 1870                 | 1320                  | 32         | 400 3N~     | 3x46 CEE63  | 660         |

## CLASSIC-LINE type CL 5

The KITTEC®CLASSIC-LINE fifth series front-loaders are characterised also by a heating system with heating elements in grooved bricks. They are well protected and integrated into the wall structure. A five-sided all-round heating of the sides, rear, door and base ensures optimal temperature distribution.

✓ 5-sided heating: Sides, rear wall, doors and base

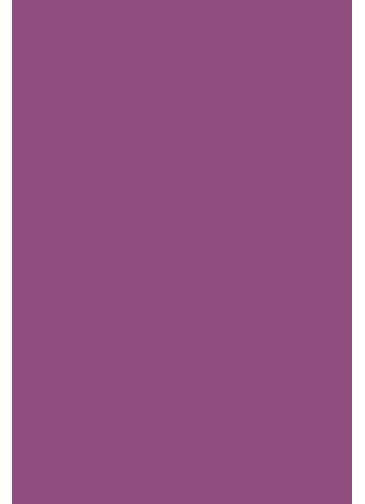
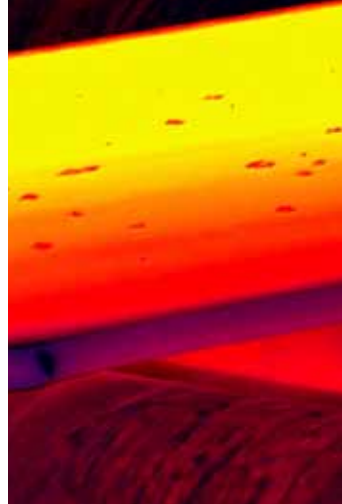
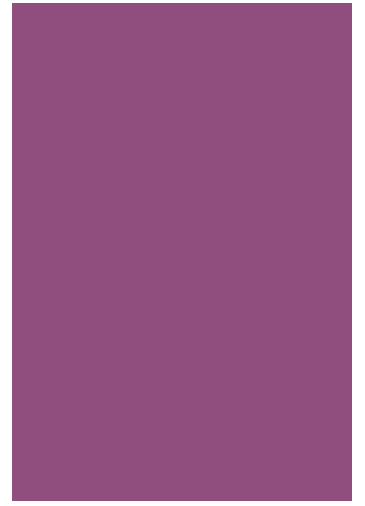
✓ Optimal temperature distribution

**i** Appropriate firing sets, tools and additional equipment to KITTEC® CLASSIC-LINE kilns are from page 63 onwards

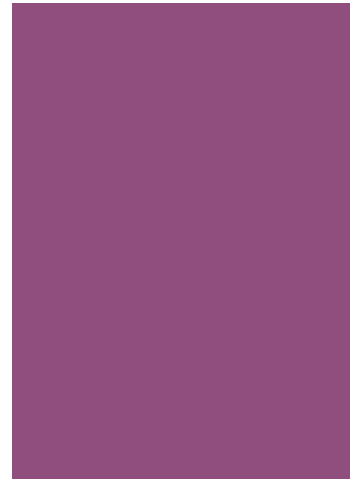
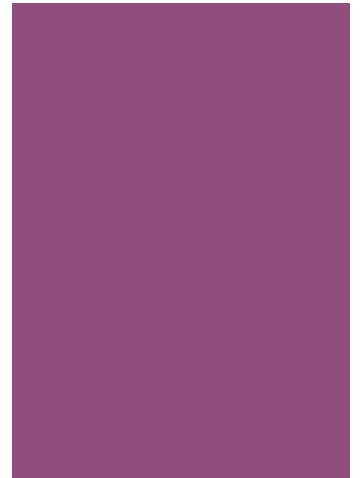
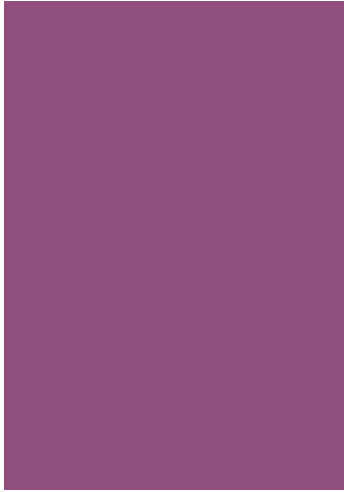


## CLASSIC-LINE type CL 5

| Model    | Loading      | Form        | Energy   | Firing chamber [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | Temperature max. [°C] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|----------|--------------|-------------|----------|---------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|-----------------------|------------|-------------|-------------|-------------|
| CL 100-5 | Front-loader | Rectangular | Electric | 400 x 450           | 400                       | 450                       | 570                        | 102        | 640                 | 820                 | 1520                 | 1320                  | 7,5        | 400 3N~     | 3x11 CEE16  | 170         |
| CL 140-5 | Front-loader | Rectangular | Electric | 450 x 580           | 450                       | 580                       | 570                        | 148        | 690                 | 950                 | 1520                 | 1320                  | 9          | 400 3N~     | 3x13 CEE16  | 230         |
| CL 210-5 | Front-loader | Rectangular | Electric | 520 x 580           | 520                       | 580                       | 680                        | 205        | 760                 | 950                 | 1630                 | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 280         |
| CL 280-5 | Front-loader | Rectangular | Electric | 550 x 580           | 550                       | 580                       | 850                        | 271        | 790                 | 950                 | 1800                 | 1320                  | 15         | 400 3N~     | 3x22 CEE32  | 310         |
| CL 330-5 | Front-loader | Rectangular | Electric | 610 x 610           | 610                       | 610                       | 880                        | 327        | 850                 | 980                 | 1830                 | 1320                  | 18         | 400 3N~     | 3x26 CEE32  | 400         |
| CL 440-5 | Front-loader | Rectangular | Electric | 610 x 720           | 610                       | 720                       | 980                        | 430        | 850                 | 1090                | 1830                 | 1320                  | 22         | 400 3N~     | 3x32 CEE32  | 540         |
| CL 600-5 | Front-loader | Rectangular | Electric | 720 x 830           | 720                       | 830                       | 1020                       | 610        | 960                 | 1200                | 1870                 | 1320                  | 32         | 400 3N~     | 3x46 CEE63  | 660         |



 **KITTEC®**  
**PROFESSIONAL-LINE**



# KITTEC® PROFESSIONAL-LINE

**The KITTEC® X-LINE kilns are the highlight of the new era of KITTEC kilns. The distinctive features are the housing and frame made entirely of stainless steel. Height-adjustable feet are just as unique as the R-SIC lid panels and the slats with rear ventilation.**

The KITTEC® X-LINE kilns are the highlight of the new era of KITTEC kilns. The distinctive features are the housing and frame made entirely of stainless steel. Height-adjustable feet are just as unique as the R-SIC lid panels and the slats with rear ventilation. The entire firing process is controlled by a digital control system. This allows you to decide the time and temperature, and there are also reliable fixed programmes. To start the firing process, simply select a firing curve. The sequence is then automatic. The microprocessor control with the digitally savable firing curves and the accurate temperature measurement with the platinum rhodium thermocouple allow you to determine your firings in the kilns and to repeat them at any time. The most appropriate control for your application depends on the firing curve you need. The KITTEC® X-LINE includes kilns with a firing chamber volume of 47 litres (X 45) to 293 litres (X 300 S).

Special challenges also require special kilns. KITTEC® solves these tasks with professional Custom designs.

Let us know what you want! The KITTEC® X-LINE kilns are produced in small numbers in a professional manner. The kilns are manually assembled and even the specially calculated heat conductors from Kanthal® are hand-wound.

We use temperature-resistant cables and ensure that all stainless steel components are tempered in an environmentally friendly manner. High-quality materials from well-known suppliers are assembled with precision by our experts. In the final inspection, the inspector signs his name for the quality. Each KITTEC® X-LINE kiln remains your reliable partner for many years.

**We give 3 years warranty on the kiln (except heating elements).**

**However you look at it - the KITTEC® X-LINE is made for you**



✓ Adjustable feet



✓ Supply air bottom valve



✓ Stainless steel components



✓ Bypass exhaust air connection



✓ Transport castors



✓ Gas spring lid opening



✓ Microtherm® insulation



✓ Sealed tight lid system

# KITTEC® PROFESSIONAL-LINE TOP-LOADER

Electric top-loader up to 1320 °C  
out of stainless steel



## Workmanship

- ✓ All exposed metal parts are made of stainless steel.
- ✓ High-quality micro-porous rear insulation Microtherm®
- ✓ Seamless mortar-free lid / lid construction firing quality

## Firing quality

- ✓ Bypass exhaust air system together with supply air slide for perfect firing control
- ✓ Perfect closing lid due to pendulum bearing
- ✓ High-quality Microtherm® insulation.

## Ergonomics

- ✓ Easy-to-load, spine-friendly system with a working height of 93 cm
- ✓ Very easy-to-operate, one-hand-operated lid mechanism, thus safe opening and closing of the kiln
- ✓ The optimised balance of the lid prevents unintended closing

## Safety

- ✓ With the final inspection, the inspector signs his name for the quality.
- ✓ GS-tested safety
- ✓ CE certified accessories

## Accessories

- ✓ Firing sets optional
- ✓ Various controls service

## Service

- ✓ On request, we offer you our own installation and delivery service



## PROFESSIONAL-LINE Electric top-loaders type X

For all KITTEC® X-LINE 230 Volt and 400 Volt models, energy efficiency is very efficient due to the design.

Specially calculated Kanthal® heaters, high-quality fire bricks and the Microtherm® rear insulation allow a maximum operating temperature of 1,320 °C, depending on the model. Due to the round construction, the heat-radiating kiln surface is brought to the minimum. While all the light components reflect the heat, the heat is

directed away via the dark back wall of the technical column. The adjustable supply air valve in the base serves to improve the kiln atmosphere. The advantage of the 400-volt three-phase models is that the overall firing time can be reduced by means of shorter heating-up phases. The kiln size varies – the working height of 93 cm remains.

**i** Appropriate firing sets, tools and additional equipment to KITTEC® PROFESSIONAL-LINE kilns are from page 63 onwards



### Professional-LINE type X

| Model          | Form  | Firing chamber Ø [mm] | Firing chamber height [mm] | Volume [L] | Ø External wo.F. [mm] | External width [mm] | External depth [mm] | Depth lid open [mm] | External height [mm] with legs | Temperatur max. [°C] | Power [KW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|-------|-----------------------|----------------------------|------------|-----------------------|---------------------|---------------------|---------------------|--------------------------------|----------------------|------------|-------------|-------------|-------------|
| <b>X 45</b>    | round | 430                   | 325                        | 47         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1320                 | 3.6        | 230 N~      | 16          | 75          |
| <b>X 45 S</b>  | round | 430                   | 325                        | 47         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1320                 | 4.4        | 400 2N~     | 2x10 CEE16  | 75          |
| <b>X 55</b>    | round | 430                   | 400                        | 58         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1280±30              | 3.6        | 230 N~      | 16          | 85          |
| <b>X 55 S</b>  | round | 430                   | 400                        | 58         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1320                 | 4.4        | 400 2N~     | 2x10 CEE16  | 85          |
| <b>X 65</b>    | round | 430                   | 480                        | 69         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1250±30              | 3.6        | 230 N~      | 16          | 90          |
| <b>X 65 S</b>  | round | 430                   | 480                        | 69         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1320                 | 5.6        | 400 2N~     | 2x12 CEE16  | 90          |
| <b>X 75</b>    | round | 430                   | 555                        | 79         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1200±30              | 3.6        | 230 N~      | 16          | 95          |
| <b>X 75 S</b>  | round | 430                   | 555                        | 79         | 625                   | 700                 | 785                 | 1030                | 1020                           | 1320                 | 5.6        | 400 2N~     | 2x12 CEE16  | 95          |
| <b>X 85</b>    | round | 510                   | 400                        | 82         | 695                   | 780                 | 865                 | 1110                | 1020                           | 1200±30              | 3.6        | 230 N~      | 16          | 90          |
| <b>X 85 S</b>  | round | 510                   | 400                        | 82         | 695                   | 780                 | 865                 | 1110                | 1020                           | 1320                 | 5.6        | 400 2N~     | 2x12 CEE16  | 90          |
| <b>X 100 S</b> | round | 510                   | 480                        | 98         | 695                   | 780                 | 865                 | 1110                | 1020                           | 1320                 | 6.8        | 400 3N~     | 3x10 CEE16  | 105         |
| <b>X 115 S</b> | round | 510                   | 555                        | 113        | 695                   | 780                 | 865                 | 1110                | 1020                           | 1320                 | 6.8        | 400 3N~     | 3x10 CEE16  | 110         |
| <b>X 135 S</b> | round | 590                   | 480                        | 132        | 775                   | 860                 | 945                 | 1180                | 1020                           | 1320                 | 8.2        | 400 3N~     | 3x12 CEE16  | 125         |
| <b>X 170 S</b> | round | 590                   | 630                        | 172        | 775                   | 860                 | 945                 | 1180                | 1020                           | 1320                 | 11         | 400 3N~     | 3x16 CEE16  | 140         |
| <b>X 195 S</b> | round | 590                   | 710                        | 194        | 775                   | 860                 | 945                 | 1180                | 1020                           | 1320                 | 11         | 400 3N~     | 3x16 CEE16  | 150         |
| <b>X 215 S</b> | round | 590                   | 780                        | 213        | 775                   | 860                 | 945                 | 1180                | 1020                           | 1320                 | 11         | 400 3N~     | 3x16 CEE16  | 160         |
| <b>X 240 S</b> | round | 690                   | 645                        | 241        | 895                   | 980                 | 1085                | 1330                | 1020                           | 1320                 | 14         | 400 3N~     | 3x20 CEE32  | 160         |
| <b>X 270 S</b> | round | 690                   | 710                        | 266        | 895                   | 980                 | 1085                | 1330                | 1020                           | 1320                 | 16         | 400 3N~     | 3x23 CEE32  | 170         |
| <b>X 300 S</b> | round | 690                   | 780                        | 293        | 895                   | 980                 | 1085                | 1330                | 1020                           | 1320                 | 18         | 400 3N~     | 3x26 CEE32  | 180         |

## PROFESSIONAL-LINE Electric combination kilns

We can offer all KITTEC® PROFESSIONAL-LINE top-loaders also with an additional heating in the lid. These combination kilns are then suitable both for conventional firing processes and for other applications such as glass fusing.

The switching of this lid heater is not only a selector switch with a "lid heating off" or "side heating off", but there is also a step-less switch, with which you can adjust the ratio of lid to side heating as a percentage. It does not get any more convenient than that,

for example to fire alternatively both ceramics and glass – the ideal combination kiln!

**Give us a call!**  
We would be pleased to advise you regarding heating and control.

**i** Appropriate firing sets, tools and additional equipment to KITTEC® PROFESSIONAL-LINE kilns are from page 63 onwards



# **KITTEC® PROFESSIONAL-LINE FRONT-LOADER**

**Electric front-loader up to 1320 °C  
out of stainless steel**



## PROFESSIONAL-LINE Electric front-loaders type XR

The KITTEC® XR is equipped with a heating system in grooved bricks. The benefit: The heating elements are located in the brick lining.

The KITTEC® X-LINE front-loaders XR series are characterised by a heating system with heating elements in grooved bricks. They are well protected and integrated into the wall structure.

**i** Appropriate firing sets, tools and additional equipment to KITTEC® PROFESSIONAL-LINE kilns are from page 63 onwards

A five-sided all-round heating of the sides, rear, door and base ensures optimal temperature distribution.



### PROFESSIONAL-LINE type XR

| Model          | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | Height variable | Height to floor lower edge [mm] | Temperature max. [°C] | Power [KW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|-----------------|---------------------------------|-----------------------|------------|-------------|-------------|-------------|
| <b>XR 100</b>  | 410                       | 500                       | 500                        | 103        | 700                 | 910                 | 1420-1780       | 680-1040                        | 1320                  | 8.5        | 400 3N~     | 3x13 CEE16  | 255         |
| <b>XR 150</b>  | 430                       | 560                       | 620                        | 149        | 720                 | 970                 | 1420-1660       | 560-800                         | 1320                  | 11         | 400 3N~     | 3x16 CEE16  | 270         |
| <b>XR 190</b>  | 480                       | 580                       | 680                        | 189        | 770                 | 990                 | 1480-1720       | 560-800                         | 1320                  | 14         | 400 3N~     | 3x21 CEE32  | 320         |
| <b>XR 230</b>  | 480                       | 720                       | 680                        | 235        | 770                 | 1130                | 1480-1720       | 560-800                         | 1320                  | 17         | 400 3N~     | 3x25 CEE32  | 350         |
| <b>XR 310</b>  | 550                       | 720                       | 800                        | 317        | 840                 | 1130                | 1600-1840       | 560-800                         | 1320                  | 22         | 400 3N~     | 3x32 CEE32  | 410         |
| <b>XR 380</b>  | 610                       | 780                       | 800                        | 381        | 900                 | 1190                | 1600-1840       | 560-800                         | 1320                  | 27         | 400 3N~     | 3x40 CEE63  | 470         |
| <b>XR 520</b>  | 660                       | 810                       | 980                        | 524        | 950                 | 1220                | 1660-1780       | 440-560                         | 1320                  | 34         | 400 3N~     | 3x50 CEE63  | 540         |
| <b>XR 680</b>  | 730                       | 960                       | 980                        | 687        | 1020                | 1370                | 1660-1780       | 440-560                         | 1320                  | 43         | 400 3N~     | 3x63 CEE63  | 640         |
| <b>XR 780</b>  | 730                       | 1040                      | 1040                       | 790        | 1020                | 1450                | 1720-1840       | 440-560                         | 1320                  | 52         | 400 3N~     | 3x76        | 710         |
| <b>XR 1060</b> | 810                       | 1040                      | 1250                       | 1053       | 1100                | 1450                | 1810            | 320                             | 1320                  | 65         | 400 3N~     | 3x95        | 930         |

## PROFESSIONAL-LINE Electric front-loaders type XT

The KITTEC® XT offers a heating of the oven on carrying bars. The advantage: Free radiation of the heating elements.

The XT front-loader of Kittec® X-LINE are heated with heating elements on Silimantin carrying bars. The high-quality and elaborate processing with the carrying bars guarantees the longest service life.

**i** Appropriate firing sets, tools and additional equipment to KITTEC® PROFESSIONAL-LINE kilns are from page 63 onwards

Of course, the five-sided all-round heating system with optimum temperature distribution ensures consistent homogeneous burner results. This ensures long-lasting results in the everyday life of craftsmanship and industry.



### PROFESSIONAL-LINE type XT

| Model          | Firing chamber Ø [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | Height variable | Height to floor lower edge [mm] | Temperature max. [°C] | Power [KW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|-----------------|---------------------------------|-----------------------|------------|-------------|-------------|-------------|
| <b>XT 80</b>   | 380 x 440             | 380                       | 440                       | 480                        | 80         | 720                 | 940                 | 1420-1780       | 690-1050                        | 1320                  | 8.00       | 400 3N~     | 3x12 CEE16  | 240         |
| <b>XT 120</b>  | 400 x 500             | 400                       | 500                       | 600                        | 120        | 740                 | 1000                | 1420-1660       | 570-810                         | 1320                  | 9.00       | 400 3N~     | 3x13 CEE16  | 290         |
| <b>XT 160</b>  | 450 x 520             | 450                       | 520                       | 660                        | 154        | 790                 | 1020                | 1480-1720       | 570-810                         | 1320                  | 11.00      | 400 3N~     | 3x16 CEE16  | 350         |
| <b>XT 200</b>  | 450 x 660             | 450                       | 660                       | 660                        | 196        | 790                 | 1160                | 1480-1720       | 570-810                         | 1320                  | 14.00      | 400 3N~     | 3x21 CEE32  | 380         |
| <b>XT 270</b>  | 520 x 660             | 520                       | 660                       | 780                        | 267        | 860                 | 1160                | 1600-1840       | 570-810                         | 1320                  | 18.00      | 400 3N~     | 3x26 CEE32  | 450         |
| <b>XT 330</b>  | 580 x 720             | 580                       | 720                       | 780                        | 325        | 920                 | 1220                | 1600-1840       | 570-810                         | 1320                  | 22.00      | 400 3N~     | 3x32 CEE32  | 500         |
| <b>XT 450</b>  | 630 x 750             | 630                       | 750                       | 960                        | 453        | 970                 | 1250                | 1660-1780       | 450-570                         | 1320                  | 33.00      | 400 3N~     | 3x48 CEE63  | 580         |
| <b>XT 600</b>  | 700 x 900             | 700                       | 900                       | 960                        | 605        | 1040                | 1400                | 1660-1780       | 450-570                         | 1320                  | 42.00      | 400 3N~     | 3x61 CEE63  | 700         |
| <b>XT 700</b>  | 700 x 980             | 700                       | 980                       | 1020                       | 700        | 1040                | 1480                | 1720-1840       | 450-570                         | 1320                  | 50.00      | 400 3N~     | 3x73        | 750         |
| <b>XT 1000</b> | 900 x 1000            | 900                       | 1000                      | 1140                       | 1026       | 1240                | 1500                | 1860            | 460                             | 1320                  | 65.00      | 400 3N~     | 3x95        | 950         |

# **KITTEC® PROFESSIONAL-LINE FRONT LOADER**

**Gas front-loader up to 1320 °C  
out of stainless steel**



## PROFESSIONAL-LINE Gas front-loaders type XG

Gas technology - simple and safe

The Kittec XG offers optimum temperature distribution due to the flash-over flame guide. In addition to the low energy consumption and the independence of electrical connections; what is important is the possibility to be able to fire under a reducing atmosphere, for the use of gas kilns.

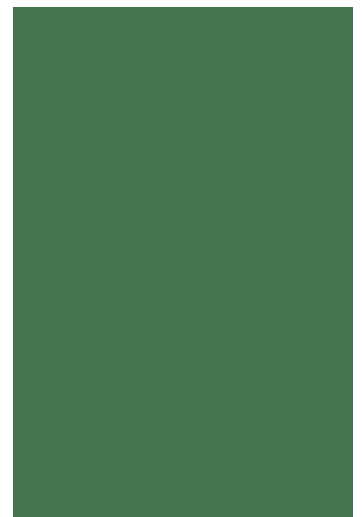
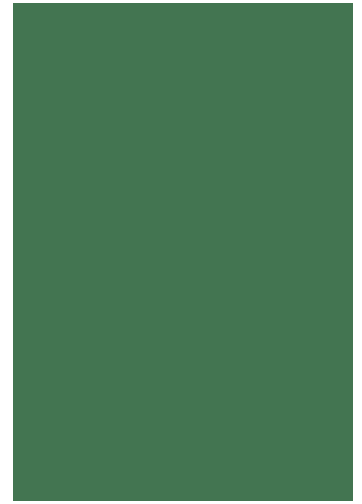
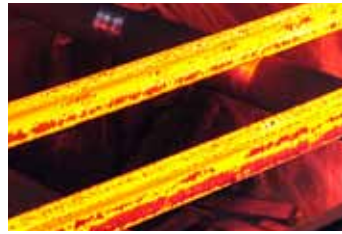
- ✓ R-SiC lid plate, no contamination
- ✓ Stainless steel exhaust hood
- ✓ Adjustable door hinge
- ✓ Adjustable quick release in industrial design, lockable
- ✓ Firing chamber added without mortar, no cracking
- ✓ Housing completely made of stainless steel, rust-free
- ✓ Adjustable chimney damper
- ✓ Low outside temperature through slatted plate with rear ventilation
- ✓ Height-adjustable legs (up to XK 500)
- ✓ Legs with crossbar for easy transport using a lift truck
- ✓ Built-in and protected thermocouple for temperature detection
- ✓ Temperature indicator
- ✓ Extremely quiet, very well adjustable high-performance burners for propane / butane
- ✓ Pressure regulator with manometer (including all fittings between burner and gas supply), simple and safe gas equipment according to DVGW
- ✓ Multi-layer high insulation lining, fire-resistant, fibre-free
- ✓ Flash-over flame guide for even temperature distribution
- ✓ Fire brick ASTM 26 in highly loaded regions
- ✓ Optional: Natural gas burner (compressor required)
- ✓ Optional: Firing curves control including TC 66 (semi-automatic)

**i** Appropriate firing sets, tools and additional equipment to KITTEC® PROFESSIONAL-LINE kilns are from page 63 onwards

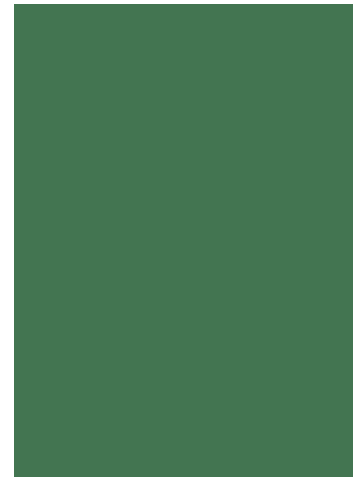


## PROFESSIONAL-LINE type XG

| Model          | Form        | Firing chamber [mm] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | External width [mm] | External depth [mm] | Volume [L] | Temperature max. [°C] | Power [kW] | Weight [kg] | Height variable [mm] |
|----------------|-------------|---------------------|---------------------------|---------------------------|----------------------------|---------------------|---------------------|------------|-----------------------|------------|-------------|----------------------|
| <b>XG 250</b>  | Rectangular | 540 x 660           | 540                       | 660                       | 700                        | 950                 | 920                 | 250        | 1320                  | 40         | 470         | 1460-1700            |
| <b>XG 350</b>  | Rectangular | 650 x 710           | 650                       | 710                       | 760                        | 1060                | 970                 | 351        | 1320                  | 45         | 550         | 1520-1760            |
| <b>XG 500</b>  | Rectangular | 600 x 840           | 600                       | 840                       | 990                        | 1010                | 1190                | 499        | 1320                  | 60         | 630         | 1630-1750            |
| <b>XG 770</b>  | Rectangular | 680 x 1040          | 680                       | 1040                      | 1095                       | 1090                | 1390                | 775        | 1320                  | 70         | 800         | 1735-1855            |
| <b>XG 1000</b> | Rectangular | 880 x 1040          | 880                       | 1040                      | 1095                       | 1290                | 1390                | 1003       | 1320                  | 80         | 1000        | 1725                 |



**KITTEC®**  
 **INDUSTRIAL-LINE**





# **KITTEC® INDUSTRIAL-LINE**

The technology and equipment of our products have always been designed for many years of use in workshops and industrial operation. We use high-quality materials and components for our industrial kilns, which come from well-known manufacturers.



✓ Stainless steel components



✓ Rapid heat-up time



✓ Low outside temperature due to multi-layer lining with high insulation



✓ Even temperature distribution



✓ Durable brick lining



✓ Numerous controls possible



✓ Suitable for use under harsh industrial conditions



✓ Kilns for a wide variety of applications

# KITTEC® INDUSTRIAL-LINE BOGIE HEARTH KILN

- ✓ R-SiC lid plate, no contamination
- ✓ Five-sided heating on carrying bars
- ✓ SiC floor covering of the heating elements
- ✓ Kanthal® heating elements with a low surface load
- ✓ TC 505: Zone control with maximum 2 firing segments
- ✓ Optional TC 507: Zone control with up to 99 firing segments
- ✓ Powder-coated enclosure and frame
- ✓ ESP energy saving package (less power consumption due to highly insulating Microtherm® rear insulation)
- ✓ SiC base cover – heat-permeable
- ✓ Three-layer insulation for low energy consumption
- ✓ Fire brick ASTM 26 in mechanically highly loaded regions
- ✓ Adjustable door hinge
- ✓ Door can be opened wide (approx. 180°)
- ✓ Side panels with rear ventilation for low outside temperatures
- ✓ 2-zone control
- ✓ Bogie hearth kiln optionally on guided rollers or on rails



## INDUSTRIAL-LINE CTH Electric bogie hearth kiln

The KITTEC® CTH models are equipped with a heating system on carrying bars. The high-quality and elaborate processing with the carrying bars guarantees a long service life.

The five-sided all-round heating system ensures uniform homogeneous firing results thanks to optimal temperature distribution. High-quality fire bricks and the multi-layered rear insulation allow an absolutely even temperature distribution and a maximum firing temperature of 1320 °C.

### Our quality plus:

All CTH bogie hearth kilns are equipped with a 2-zone control unit – safety for optimum and even temperature rise even in the upper temperature range!

Only high-quality materials and components from well-known manufacturers are used for the bogie hearth kiln series. Our specialists install everything in our manufacturing facility with the utmost of precision.

## We are also pleased to meet your special requirements. Further options:

- |  |  |
|--|--|
| ✓ Bogie hearth kiln on rollers or on rails | ✓ Additional swing door / rear sliding door                      |
| ✓ Doors and bogies on both sides           | ✓ Additional bogie hearth  |
| ✓ Electric sliding door(s)                 | ✓ Inspection hole in the door (including sealing plug)           |
| ✓ Exhaust flap control                     | ✓ 3-zone control system (only with TC 505 or TC 507)             |
| ✓ Manual or automatic supply air           | ✓ External power supply control (night-time electricity)         |
| ✓ Fan cooling                              | ✓ Solid-state relay (noiseless) instead of contactor (low noise) |
| ✓ Exhaust hood above the kiln              | ✓ Max. temperature up to 1400 °C                                 |
| ✓ Special voltages and much more           | ✓ Electric bogie hearth drive, on rails                          |
| ✓ Door hinge on the left                   |  |

All CTH models are available also with gas heating.

## INDUSTRIAL-LINE type CTH



| Model      | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|------------|-------------|-------------|-------------|
| CTH 500 L  | 1000                  | 640                       | 930                       | 850                        | 506        | 970                 | 1550                | 1800                 | 27.0       | 400 3N~     | 3x40 CEE63  | 750         |
| CTH 860 L  | 1000                  | 690                       | 1250                      | 1000                       | 863        | 1020                | 1900                | 2000                 | 36.0       | 400 3N~     | 3x52 CEE63  | 1050        |
| CTH 1000 L | 1000                  | 800                       | 1250                      | 1000                       | 1000       | 1130                | 1900                | 2000                 | 55.0       | 400 3N~     | 3x80        | 1250        |
| CTH 1500 L | 1000                  | 1000                      | 1500                      | 1000                       | 1500       | 1420                | 2150                | 2000                 | 65.0       | 400 3N~     | 3x95        | 1750        |
| CTH 2000 L | 1000                  | 1000                      | 2000                      | 1000                       | 2000       | 1420                | 2700                | 2000                 | 90.0       | 400 3N~     | 3x130       | 2200        |
| CTH 3000 L | 1000                  | 1250                      | 2400                      | 1000                       | 3000       | 1720                | 3100                | 2000                 | 125.0      | 400 3N~     | 3x185       | 3200        |
| CTH 4000 L | 1000                  | 1250                      | 3200                      | 1000                       | 4000       | 1720                | 3900                | 2000                 | 140.0      | 400 3N~     | 3x203       | 4200        |
| CTH 6000 L | 1000                  | 1250                      | 4000                      | 1200                       | 6000       | 1720                | 4700                | 2200                 | 160.0      | 400 3N~     | 3x232       | 6200        |
| CTH 8000 L | 1000                  | 1250                      | 4600                      | 1400                       | 8050       | 1720                | 5300                | 2400                 | 200.0      | 400 3N~     | 3x290       | 7500        |
| CTH 500    | 1320                  | 640                       | 930                       | 850                        | 506        | 970                 | 1410                | 1410                 | 36.0       | 400 3N~     | 3x52 CEE63  | 800         |
| CTH 860    | 1320                  | 690                       | 1250                      | 1000                       | 863        | 1020                | 1730                | 1560                 | 55.0       | 400 3N~     | 3x80        | 1100        |
| CTH 1000   | 1320                  | 800                       | 1250                      | 1000                       | 1000       | 1130                | 1730                | 1560                 | 65.0       | 400 3N~     | 3x95        | 1300        |
| CTH 1500   | 1320                  | 1000                      | 1500                      | 1000                       | 1500       | 1330                | 1980                | 1560                 | 90.0       | 400 3N~     | 3x130       | 1800        |
| CTH 2000   | 1320                  | 1000                      | 2000                      | 1000                       | 2000       | 1500                | 2800                | 2000                 | 125.0      | 400 3N~     | 3x185       | 2300        |
| CTH 3000   | 1320                  | 1250                      | 2400                      | 1000                       | 3000       | 1800                | 3200                | 2000                 | 140.0      | 400 3N~     | 3x203       | 3400        |
| CTH 4000   | 1320                  | 1250                      | 3200                      | 1000                       | 4000       | 1800                | 4000                | 2000                 | 160.0      | 400 3N~     | 3x232       | 4500        |
| CTH 6000   | 1320                  | 1250                      | 4000                      | 1200                       | 6000       | 1800                | 4800                | 2200                 | 200.0      | 400 3N~     | 3x290       | 6600        |
| CTH 8000   | 1320                  | 1250                      | 4600                      | 1400                       | 8050       | 1800                | 5400                | 2400                 | 240.0      | 400 3N~     | 3x348       | 8000        |

# KITTEC® INDUSTRIAL-LINE LABORATORY CHAMBER KILNS

## INDUSTRIAL-LINE LABORATORY CHAMBER KILNS TYPE CLL, UP TO 1400 °C

The "CLL" chamber kilns have the heating elements on carrying bars. The three-layer insulated construction guarantees a low energy consumption.

5-sided heating ensures optimum temperature distribution, also in the upper temperature range. A low surface load of the Kanthal® heating elements leads to low wear and long service life. The completely rear-ventilated housing construction is an excellent corrosion protection. The use of stainless steel in particular supports this protection.

An absolute innovation in kiln construction is represented by the R-SIC lid plate: no contamination of the firing material by the fire brick dust from the lid. The steel frame is extremely durable and has a stable door suspension. The cover of the electrical connections of the door heating elements are integrated into the steel construction of the door. The kiln frame is coated with durable powder coating industrial varnish. The side panels are made of stainless steel.



- ✓ Perforated lid plate for protection against heat and moisture build-up
- ✓ 5-sided heating
- ✓ Base heating covered and protected by SIC plate
- ✓ Platinum rhodium thermocouple for temperature detection – mounted free of wear and break-proof
- ✓ Door lintel made of V2A stainless steel, non-rusting
- ✓ Light-weight door, can be opened wide
- ✓ Reduction resistant fire brick lining
- ✓ Central exhaust air connection for exhaust air pipe or hose
- ✓ Large handy door handle, adjustable door lock, lockable
- ✓ Detachable feet and easy to mount
- ✓ Safety door switch with forced disconnection
- ✓ Health and safety protection and semiconductor relay as per VDE standard
- ✓ Test seal for quality assurance
- ✓ CE mark
- ✓ Maintenance-free
- ✓ 24 months warranty (not on consumables)

| Model            | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | External width [mm] | External depth [mm] | External height [mm] | Volume [L] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|------------------|-----------------------|---------------------------|---------------------------|----------------------------|---------------------|---------------------|----------------------|------------|------------|-------------|-------------|-------------|
| <b>CLL 15</b>    | 1300                  | 250                       | 250                       | 250                        | 630                 | 860                 | 1330                 | 16         | 7.0        | 400 2N~     | 16          | 160         |
| <b>CLL 30</b>    | 1300                  | 320                       | 320                       | 320                        | 700                 | 930                 | 1400                 | 33         | 8.0        | 400 3N~     | 12          | 190         |
| <b>CLL 60</b>    | 1300                  | 400                       | 400                       | 400                        | 780                 | 1010                | 1500                 | 64         | 11.0       | 400 3N~     | 16          | 290         |
| <b>CLL 120</b>   | 1300                  | 500                       | 500                       | 500                        | 880                 | 1110                | 1600                 | 125        | 15.0       | 400 3N~     | 22          | 390         |
| <b>CLL 15 H</b>  | 1400                  | 250                       | 250                       | 250                        | 680                 | 910                 | 1330                 | 16         | 8.0        | 400 3N~     | 12          | 250         |
| <b>CLL 30 H</b>  | 1400                  | 320                       | 320                       | 320                        | 750                 | 980                 | 1400                 | 33         | 10.0       | 400 3N~     | 15          | 330         |
| <b>CLL 60 H</b>  | 1400                  | 400                       | 400                       | 400                        | 830                 | 1060                | 1500                 | 64         | 12.0       | 400 3N~     | 18          | 380         |
| <b>CLL 120 H</b> | 1400                  | 500                       | 500                       | 500                        | 930                 | 1170                | 1600                 | 125        | 18.0       | 400 3N~     | 26          | 480         |



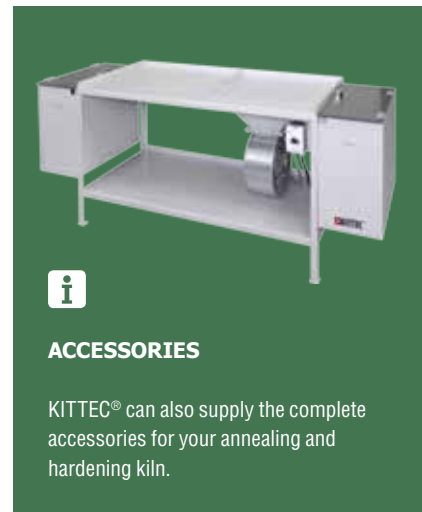
# KITTEC® INDUSTRIAL-LINE ANNEALING AND HARDENING KILNS

## INDUSTRIAL-LINE annealing and hardening kiln series CLM, up to 1,300 °C

For annealing and hardening with normal or protective gas atmosphere operation



- ✓ Stable steel and stainless steel construction
- ✓ Multi-layer insulation saves energy
- ✓ Ventilated oven housing protects against corrosion and lowers the outside temperature
- ✓ Stainless steel lintel above the kiln opening
- ✓ Elastic door seal protects the brick lining
- ✓ Hard bricks in the door frame reduce wear
- ✓ Forced separation door safety switch
- ✓ Freely radiating Kanthal® heating elements on carrying bars in the base and on both sides.
- ✓ Base heating protected by SIC plate
- ✓ Heat shield as radiation protection



### ACCESSORIES

KITTEC® can also supply the complete accessories for your annealing and hardening kiln.

| Model          | Temperature max. [°C] | Firing chamber width (mm) | Firing chamber depth (mm) | Firing chamber height (mm) | Volume [L] | External width (mm) | External depth (mm) | External height (mm) | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|------------|-------------|-------------|-------------|
| <b>CLM 10</b>  | 1300                  | 250                       | 250                       | 120                        | 8          | 600                 | 700                 | 700                  | 2.50       | 230 1N~     | 11          | 95          |
| <b>CLM 20</b>  | 1300                  | 250                       | 350                       | 200                        | 18         | 600                 | 800                 | 730                  | 6.00       | 400 2N~     | 15          | 135         |
| <b>CLM 30</b>  | 1300                  | 250                       | 500                       | 200                        | 25         | 600                 | 950                 | 730                  | 7.00       | 400 2N~     | 16          | 150         |
| <b>CLM 50</b>  | 1300                  | 350                       | 500                       | 250                        | 44         | 1000                | 1300                | 1400                 | 13.00      | 400 3N~     | 19          | 330         |
| <b>CLM 70</b>  | 1300                  | 350                       | 750                       | 250                        | 66         | 1000                | 1400                | 1400                 | 20.00      | 400 3N~     | 29          | 380         |
| <b>CLM 90</b>  | 1300                  | 350                       | 1000                      | 250                        | 88         | 1000                | 2000                | 1400                 | 22.00      | 400 3N~     | 32          | 410         |
| <b>CLM 110</b> | 1300                  | 500                       | 750                       | 300                        | 113        | 1350                | 1850                | 1900                 | 22.00      | 400 3N~     | 32          | 800         |
| <b>CLM 170</b> | 1300                  | 550                       | 750                       | 400                        | 165        | 1400                | 1850                | 2000                 | 30.00      | 400 3N~     | 44          | 1050        |
| <b>CLM 340</b> | 1300                  | 750                       | 1100                      | 400                        | 333        | 1600                | 2200                | 2100                 | 48.00      | 400 3N~     | 84          | 1400        |
| <b>CLM 670</b> | 1300                  | 1000                      | 1300                      | 500                        | 650        | 1850                | 2400                | 2100                 | 70.00      | 400 3N~     | 100         | 1900        |

# KITTEC® INDUSTRIAL-LINE BELL FURNACES

## INDUSTRIAL-LINE BELL FURNACES HCB / HSQ

The KITTEC® bell furnaces of the HCB and HSQ series offer the great advantage of a simple loading not only in the field of ceramics and art, but also in the industrial sector. The base plate is freely accessible, and the work-piece has to be lifted only a few centimetres. This ergonomic advantage makes work a lot easier.

Our bell furnaces are particularly suitable for very heavy or very high work-pieces, such as sculptures or larger glass or metal parts. The electrical heating system is located in the hood. Once the loading is complete, the kiln is closed by lowering the hood and can be heated. After firing or heat treatment, the hood is raised by the mechanism and the work-pieces can be removed easily and ergonomically.

- ✓ Base area of the kiln round (HCB) or square (HSQ)
- ✓ Firing space volume of approximately 200 to 500 litres
- ✓ Ideal for sculptures, large vessels or individual pieces
- ✓ Firing temperature up to 1320 °C
- ✓ Ergonomic loading
- ✓ Suitable for large individual pieces and serial productions
- ✓ 2 years warranty
- ✓ Custom designs are possible at any time



### INDUSTRIAL-LINE TYPE HCB

| Model          | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber height [mm] | External width [mm] | External depth [mm] | External height [mm] | Volume [L] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|-----------------------|---------------------------|----------------------------|---------------------|---------------------|----------------------|------------|------------|-------------|-------------|-------------|
| <b>HCB 200</b> | 1320                  | 590                       | 710                        | 900                 | 1200                | 1800                 | 194        | 13.5       | 400 3N~     | 3x20 CEE32  | 250         |
| <b>HCB 260</b> | 1320                  | 590                       | 930                        | 900                 | 1200                | 2020                 | 254        | 16.0       | 400 3N~     | 3x24 CEE32  | 280         |
| <b>HCB 270</b> | 1320                  | 690                       | 710                        | 1000                | 1300                | 1800                 | 266        | 17.0       | 400 3N~     | 3x25 CEE32  | 290         |
| <b>HCB 350</b> | 1320                  | 690                       | 930                        | 1000                | 1300                | 2020                 | 348        | 20.0       | 400 3N~     | 3x29 CEE32  | 325         |
| <b>HCB 380</b> | 1320                  | 590                       | 1390                       | 900                 | 1200                | 2480                 | 380        | 19.0       | 400 3N~     | 3x28 CEE32  | 340         |
| <b>HCB 520</b> | 1320                  | 690                       | 1390                       | 1000                | 1300                | 2480                 | 520        | 25.0       | 400 3N~     | 3x37 CEE63  | 400         |

### INDUSTRIAL-LINE TYPE HSQ

| Model          | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber ø [mm] | Firing chamber height [mm] | External width [mm] | External depth [mm] | External height [mm] | Volume [L] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|-----------------------|---------------------------|-----------------------|----------------------------|---------------------|---------------------|----------------------|------------|------------|-------------|-------------|-------------|
| <b>HSQ 230</b> | 1320                  | 560                       | 560                   | 710                        | 870                 | 1170                | 1800                 | 223        | 15.0       | 400 3N~     | 3x22 CEE32  | 270         |
| <b>HSQ 300</b> | 1320                  | 560                       | 560                   | 930                        | 870                 | 1170                | 2020                 | 292        | 18.0       | 400 3N~     | 3x26 CEE32  | 300         |
| <b>HSQ 440</b> | 1320                  | 560                       | 560                   | 1390                       | 870                 | 1170                | 2480                 | 436        | 22.0       | 400 3N~     | 3x32 CEE32  | 360         |

## INDUSTRIAL-LINE CIRCULATING AIR CHAMBER KILNS TYPE CLU, UP TO 850 °C

For low-stress solution annealing, tempering, ageing, keeping warm at normal or protective gas atmosphere operation

- ✓ Housing made of steel sheet
- ✓ High-quality, asbestos-free and energy-saving insulation
- ✓ Insulation through mineral fibre boards
- ✓ Heating system with extended service life
- ✓ Short heat-up time
- ✓ Temperature distribution in the usable space  $\pm 5$  °C according to DIN 17052
- ✓ Horizontal air circulation
- ✓ Interior out of stainless steel
- ✓ Lowest loading height: approx. 900 mm
- ✓ Incl. chassis: 4 removable feet
- ✓ Further special sizes on request



| Model      | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | External width [mm] | External depth [mm] | External height [mm] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|---------------------|---------------------|----------------------|------------|-------------|-------------|-------------|
| CLU 15/45  | 450                   | 300                       | 350                       | 150                        | 15         | 500                 | 900                 | 440                  | 2.40       | 230 1/N     | 11          | 50          |
| CLU 40/45  | 450                   | 300                       | 400                       | 300                        | 36         | 540                 | 1050                | 1270                 | 3.00       | 230 1/N     | 13          | 115         |
| CLU 70/45  | 450                   | 350                       | 500                       | 400                        | 70         | 590                 | 1150                | 1370                 | 4.00       | 400 3/N     | 3x6 CEE16   | 130         |
| CLU 140/45 | 450                   | 450                       | 600                       | 500                        | 135        | 690                 | 1250                | 1470                 | 5.50       | 400 3/N     | 3x8 CEE16   | 205         |
| CLU 270/45 | 450                   | 600                       | 750                       | 600                        | 270        | 840                 | 1450                | 1620                 | 9.50       | 400 3/N     | 3x14 CEE16  | 370         |
| CLU 540/45 | 450                   | 750                       | 900                       | 800                        | 540        | 990                 | 1600                | 1820                 | 13.50      | 400 3/N     | 3x20 CEE32  | 540         |
| CLU 800/45 | 450                   | 800                       | 1250                      | 1200                       | 800        | 1245                | 1845                | 1800                 | 24.00      | 400 3/N     | 3x35 CEE63  | 850         |
| CLU 15/85  | 850                   | 300                       | 350                       | 150                        | 15         | 500                 | 900                 | 440                  | 3.00       | 230 1/N     | 13          | 50          |
| CLU 40/85  | 850                   | 300                       | 400                       | 300                        | 36         | 850                 | 1360                | 1470                 | 6.00       | 400 3/N     | 3x9 CEE16   | 290         |
| CLU 70/85  | 850                   | 350                       | 500                       | 400                        | 70         | 900                 | 1460                | 1570                 | 10.00      | 400 3/N     | 3x15 CEE16  | 360         |
| CLU 140/85 | 850                   | 450                       | 600                       | 500                        | 135        | 1000                | 1560                | 1670                 | 14.00      | 400 3/N     | 3x21 CEE32  | 580         |
| CLU 270/85 | 850                   | 600                       | 750                       | 600                        | 270        | 1150                | 1710                | 1770                 | 20.00      | 400 3/N     | 3x29 CEE32  | 770         |
| CLU 540/85 | 850                   | 750                       | 900                       | 800                        | 540        | 1300                | 1860                | 1970                 | 30.00      | 400 3/N     | 3x44 CEE63  | 920         |
| CLU 800/85 | 850                   | 800                       | 1250                      | 800                        | 800        | 1380                | 2260                | 2125                 | 40.00      | 400 3/N     | 3x58 CEE63  | 1340        |

## INDUSTRIAL-LINE Muffle kilns up to 1320 °C

We developed this small front-loader together with a friendly dental laboratory and performed extensive testing during continuous daily workshop operation. Particularly short heating-up times are the main feature of these laboratory muffle kilns. The M4 reaches 1000°C within 45 minutes and after a further 15 minutes 1100 °C. The high-quality insulation made from fire bricks is very robust and also allows high firing temperatures up to 1320 °C. Our new laboratory series is ideal for many applications, not least because of the incredible price / performance ratio. It is designed for years of use in the daily workshop and industrial operations.

- ✓ Practical folding door (opening 90°), which can be used as a shelf
- ✓ Stainless steel components, rust-free, low outside temperature
- ✓ Heating: Heating elements in grooves for extremely short heat-up times
- ✓ Built-in thermocouple for temperature detection protected against breakage
- ✓ High-quality insulation made of fire bricks, without ceramic fibres
- ✓ Body added without mortar, no cracking, no contamination
- ✓ Multi-layer insulation for low energy consumption
- ✓ High-quality industrial connectors for kiln and control
- ✓ Tested safety door switch - forced disconnection
- ✓ Safety protection as per VDE + electronic Solid-state relay (noiseless switching)
- ✓ Ventilation opening on the rear of the kiln
- ✓ Detailed operating instructions
- ✓ Test seal for quality assurance



## INDUSTRIAL-LINE type M

| Model | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | External width [mm] | External depth [mm] | External height [mm] | Volume [L] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|-------|-----------------------|---------------------------|---------------------------|----------------------------|---------------------|---------------------|----------------------|------------|------------|-------------|-------------|-------------|
| M 4   | 1200                  | 180                       | 180                       | 114                        | 420                 | 420                 | 450                  | 4          | 1.20       | 230         | 6           | 28          |
| M 10  | 1200                  | 240                       | 240                       | 170                        | 480                 | 480                 | 505                  | 10         | 2.40       | 230         | 11          | 40          |

# KITTEC® INDUSTRIAL-LINE DENTAL KILN TYPE KTD

Our close cooperation with well-known companies on the dental market forms the basis for our innovative products



## KTD K2 - Sintering kiln for cobalt chromium (CoCr), up to 1,350 °C

The KTD K2 is an offshoot of the KTD R2. They have the control technology, as well as most of the technical properties in common, however they follow completely different concepts. While the KTD R2 is designed for the sintering of oxide ceramics at high temperatures, the KTD K2 is designed to thermally treat metals at lower temperatures under a protective atmosphere.

By using special firing aids, a kind of muffle is built up inside the kiln which separates the kiln chamber and the setting space from each other. In this way, different atmospheres can be generated and metal alloys can be thermally treated with the exclusion of oxygen. The sophisticated and innovative conditioning of the rinsing gases makes the KTD K2 an absolute all-rounder. It is suitable for the stress relieving, cleaning, annealing and sintering of pre-sintered metal alloys.

In addition, binder-containing powder metals (soft blanks) can also be unbound and sintered in one operation. In addition to the classical temperature-time profile (sinter curve), the quantity of the rinsing gas (e.g. argon) is also stored for this individual segment in this sintering kiln. The electronic monitoring and control system ensures increased process reliability and significantly reduced gas consumption.

- ✓ 6-sided heating
- ✓ Power failure protection
- ✓ Short sintering times
- ✓ Small (standard) and large (accessory) protective gas system
- ✓ Low gas consumption due to electronic gas control
- ✓ Gas return (for connection to an extraction system)  
Coloured touchscreen with multi-lingual menu
- ✓ 6 (another 30 via USB) individual sinter programmes
- ✓ Internal recording function (72 hours)
- ✓ Ethernet & USB interface
- ✓ PC Software



## KTD P1 - atmospheric sintering kiln for oxide ceramics, up to 1,600 °C

The KTD P1 corresponds roughly to a KTD S1 with additional components. It is operated via an intuitive, graphical, multi-lingual touch screen. Via an Ethernet interface it can be connected to a PC directly or via an existing network. With the supplied monitoring software "ThermoView" (free of charge), it is possible to create or save sintering programmes more easily, as well as to automatically record complete sintering processes.

With a heating rate of up to 3000 °C / h over the entire temperature range, the KTD P1 is one of the fastest sintering kilns on the market and thus qualifies for so-called "speed sintering".

- ✓ 3-sided heating
- ✓ Very quick heating and cooling
- ✓ Up to 30 units per load (on two levels)
- ✓ Monochrome touchscreen with multi-lingual menu
- ✓ 6 individual sintering programmes
- ✓ Ethernet interface
- ✓ PC Software
- ✓ Certified for North America (115 V version only)

### INDUSTRIAL-LINE type KTD



| Model  | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | External width [mm] | External depth [mm] | External height [mm] | Volume [L]  | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|--------|-----------------------|---------------------------|---------------------------|----------------------------|---------------------|---------------------|----------------------|-------------|------------|-------------|-------------|-------------|
| KTD K2 | 1350                  | Ø = 75 - 95               | Ø = 75 - 95               | 30                         | 670                 | 560                 | 750                  | 0.13 - 0.21 | 2.5        | 230         | 16          | 87          |
| KTD P1 | 1600                  | 70                        | 100                       | 70                         | 450                 | 390                 | 660                  | 0.5         | 1.0        | 230         | 10          | 62          |
| KTD S1 | 1550                  | 70                        | 100                       | 70                         | 450                 | 390                 | 660                  | 0.5         | 1.0        | 230         | 10          | 62          |
| KTD M2 | 1600                  | Ø = 140                   | Ø = 140                   | 100                        | 730                 | 810                 | 600                  | 1.5         | 2.5        | 230         | 16          | 92          |
| KTD R2 | 1650                  | 120                       | 120                       | 95                         | 670                 | 560                 | 750                  | 1.4         | 2.0        | 230         | 16          | 87          |





## KTD S1 - entry-level model in proven quality

The KTD S1 is roughly the same as a chamber kiln. However, it has a very good drawer design in which the front wall and the bottom of the sintering chamber are moved by hand at the same time. This design allows a comfortable loading from three directions. The entire design and well thought-out arrangement of the individual components allow a very compact design. The three heating elements are arranged asymmetrically in order to ensure the best possible temperature distribution over the entire area. The maximum required electrical power is surprisingly low  $\leq 1000$  W. Thus, the KTD S1 can be easily operated at any conventional outlet.

- ✓ 3-sided heating
- ✓ Rapid heating and cooling
- ✓ Up to 30 units per load (on two levels)
- ✓ Industrial controller
- ✓ 6 individual sintering programmes



## KTD M2 - Elevator kiln with high capacity, up to 1,600 °C

The KTD M2 is a compact elevator oven in which the bottom plate of the sintering chamber moves up and down. This concept allows the heating of all 6 sides and results in an almost unrivalled temperature homogeneity. The simple and clear loading and unloading takes place via a large opening below the sintering chamber.

The maximum power consumption is  $\leq 2500$  W. The KTD M2 can be operated on most conventional sockets due to the electronic flow control. It is operated via an intuitive, graphical, multi-lingual touch screen. It can be connected to a PC directly or over an existing network via an Ethernet interface, and the integrated monitoring software "ThermoView" allows both sintering programmes to be simply created or saved as well as complete sintering processes to be automatically logged. In addition, the sintering processes can be recorded via USB flash-drives.

With its large sintering chamber and the possibility of multi-storey loading, it is the ideal choice for a larger dental laboratory or milling centre.

- ✓ 6-sided heating
- ✓ Power failure protection
- ✓ Up to 180 units per load (up to three levels)
- ✓ Colour touchscreen control panel
- ✓ Multi-lingual menu
- ✓ 6 unique sinter programmes each with 20 segments
- ✓ Interfaces: Ethernet & USB
- ✓ PC software "ThermoView"
- ✓ Certified for North America



## KTD R2 - latest state-of-the-art compact sintering kiln

The KTD R2 is a compact elevator oven in which the bottom plate of the sintering chamber moves up and down. The simple and clear loading and unloading takes place via a large opening below the sintering chamber. The maximum power consumption is  $\leq 2100$  W. The KTD R2 can be operated on most conventional sockets due to the internal electronic flow control. It is operated via an intuitive, graphical, multi-lingual touch screen. Via an Ethernet interface the KTD R2 can be connected to a PC directly or via an existing network. With the supplied monitoring software "ThermoView" (free of charge), it is possible to create or save sintering programmes easily, as well as to automatically record complete sintering processes. In addition to data recording (additionally or alternatively to PC software), a USB interface also allows a higher number of directly available sinter curves with the possibility of importing or exporting them. In this way, backups of the sintering programmes can be created or sintering programmes can be transferred to other kilns (with the same functional scope).

- ✓ 5-sided heating
- ✓ Power failure protection
- ✓ Up to 70 units per load (on two levels)
- ✓ Coloured touchscreen with multi-lingual menu
- ✓ 6 (another 30 via USB) individual sinter programmes
- ✓ Ethernet & USB interface
- ✓ PC Software

# KITTEC® INDUSTRIAL-LINE SINTERING KILNS



## INDUSTRIAL-LINE chamber kiln type KTQ, up to 1,800 °C

### Atmospheric sintering kilns for demanding thermal processes

The newly developed KTQ type, results from decades of experience in industrial kiln construction and combines proven technology with innovative components. With sizes ranging from 5 L to 120 L of chamber volume, the KTQ type covers the individual requirements for sintering kilns for your demanding thermal processes up to 1800 °C.

At the customer's request, the system can be equipped with an automatic exhaust flap control, which can be freely programmed

by the operator in the temperature range of < 800 °C. Furthermore, an air supply system with and without air preheating, process gas regulator or fibre-free insulation can be optionally offered. The programming and process control is carried out using the proven, specially developed input system via an HMI or via an industrial controller.

The optimally arranged heating elements made of molybdenum disilicide or SIC guarantee homogeneous chamber temperatures and degassing-free sintering.

All the heating elements are connected in parallel, so if an element breaks, only the affected element fails and the remaining operation is maintained. Their symmetrical interconnection and easy accessibility simplify the rapid exchange.

The heating elements are supplied with power via a solid and maintenance-free aluminium rail system.

- ✓ 2-sided heating
- ✓ Rapid heating rate & fast cooling
- ✓ Universal loading facilities / solid brick base
- ✓ Fail-safe sintering process
- ✓ Parallel connected heating elements
- ✓ Power supply of the heating elements via a maintenance-free power rail system
- ✓ SIC or molybdenum disilicide -heated kiln chamber
- ✓ Compact programme controller with 5 adjustable programmes

### Options

- ✓ Selectable maximum temperature
- ✓ Fibre-free insulation
- ✓ Active air injection (heated or unheated)
- ✓ PLC control
- ✓ PC software, Ethernet and USB interface
- ✓ optional: Automatic exhaust air valve control
- ✓ Coloured touchscreen with multi-lingual menu
- ✓ Programmed process gas supply

### Variants

The KTQ type comprises 7 kiln sizes with 4 selectable maximum temperatures: 1450 °C, 1600 °C, 1700 °C or 1800 °C.

Intermediate sizes as well as optional components that improve your specific process can be implemented on request.

If you have special requirements, we would be happy to check them out and provide you with an individual offer.

## INDUSTRIAL-LINE type KTQ



| Model          | Temperature max. [°C] | Firing chamber width [mm] | Firing chamber depth [mm] | Firing chamber height [mm] | Volume [L] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|----------------|-----------------------|---------------------------|---------------------------|----------------------------|------------|------------|-------------|-------------|-------------|
| <b>KTQ 5</b>   | 1450 - 1800           | 150                       | 160                       | 200                        | 5          | 5          | 400 3N~     | on request  | 200         |
| <b>KTQ 10</b>  | 1450 - 1800           | 200                       | 250                       | 200                        | 10         | 8          | 400 3N~     | on request  | 220         |
| <b>KTQ 20</b>  | 1450 - 1800           | 280                       | 280                       | 260                        | 20         | 10         | 400 3N~     | on request  | 280         |
| <b>KTQ 40</b>  | 1450 - 1800           | 300                       | 400                       | 360                        | 40         | 15         | 400 3N~     | on request  | 370         |
| <b>KTQ 60</b>  | 1450 - 1800           | 340                       | 400                       | 450                        | 60         | 18         | 400 3N~     | on request  | 500         |
| <b>KTQ 80</b>  | 1450 - 1800           | 400                       | 400                       | 500                        | 80         | 20         | 400 3N~     | on request  | 650         |
| <b>KTQ 120</b> | 1450 - 1800           | 500                       | 500                       | 500                        | 120        | 25         | 400 3N~     | on request  | 750         |

# KITTEC® INDUSTRIAL-LINE MELTING KILNS



## INDUSTRIAL-LINE melting kilns type XA

The stainless steel KITTEC® melting kilns of the XA type are specially designed for the process of the so-called lost wax process, a moulding process for metal and glass casting.

Mainly, the models are made of wax, but nowadays more and more are being made of plastic. The models are encased, creating a cavity shape around the model. The

original model must now be "melted", leaving the residue-free cavity shape. KITTEC® Melting kilns offer the right conditions for a variety of mould materials: Clays, prepared loams, quartz-sand mixture or zirconium and olivine sand with synthetic binders. The entire firing process is controlled by a digital control system. This allows you to decide the time and temperature, and there are also reliable fixed programmes. The microprocessor control with the digitally

savable firing curves and the accurate temperature measurement with the platinum rhodium thermocouple allow you to determine your firings and to repeat them at any time. The most appropriate control for your application depends on the firing curve you need.

### Areas of application

- Automotive industry mould manufacturing
- Precision castings
- Jewellery industry
- Art (e.g. metal sculptures)
- Dental technology

- ✓ Temperature range up to 1000 °C
- ✓ Gas pressure springs on the lid
- ✓ Optional: 3-zone control system possible for controlled temperature distribution
- ✓ Exhaust air connection
- ✓ Optional: Drip pan with lid under the kiln
- ✓ Transport castors
- ✓ Grate at the bottom, with drain hole
- ✓ Microtherm® insulation
- ✓ Optional: Cylindrically shaped retort made of stainless steel
- ✓ Kanthal® heat conductor material
- ✓ Optional: heated tub drain
- ✓ Various control units available to adjust temperature profiles or to add holding times
- ✓ Optional: heated tub
- ✓ Tested safety switch
- ✓ Sealed tight lid system
- ✓ Voltage variants for all countries
- ✓ Lid can be opened completely
- ✓ Custom designs are possible at any time
- ✓ Decentralised handle (side)
- ✓ 2 years warranty

### INDUSTRIAL-LINE type XA



| Model           | Temperature max. [°C] | Firing chamber Ø [mm] | Firing chamber height [mm] | External Ø | External width [mm] | External depth [mm] | External height [mm] | Volume [L] | Power [kW] | Voltage [V] | Current [A] | Weight [kg] |
|-----------------|-----------------------|-----------------------|----------------------------|------------|---------------------|---------------------|----------------------|------------|------------|-------------|-------------|-------------|
| <b>XA 70 S</b>  | 1000                  | 430                   | 535                        | 620        | 700                 | 780                 | 1020                 | 78         | 5.6        | 400 3N~     | 2x12 CEE16  | 90          |
| <b>XA 190 S</b> | 1000                  | 590                   | 690                        | 770        | 860                 | 940                 | 1090                 | 189        | 11.0       | 400 3N~     | 3x16 CEE16  | 170         |
| <b>XA 260 S</b> | 1000                  | 690                   | 690                        | 890        | 980                 | 1080                | 1340                 | 257        | 16.0       | 400 3N~     | 3x23 CEE32  | 210         |
| <b>XA 380 S</b> | 1000                  | 690                   | 990                        | 890        | 980                 | 1080                | 1340                 | 370        | 18.0       | 400 3N~     | 3x26 CEE32  | 250         |



# KITTEC® INDUSTRIAL-LINE BESPOKE SOLUTIONS

## The right kiln for every application!

**Special challenges also require special kilns. KITTEC® solves these tasks with professional custom designs. Tell us your requirements!**

In addition to our standard programme, we are also able to offer special construction and custom-made kilns. We have already successfully implemented a large number of special constructions for a wide range of applications. We are also pleased to meet your special requirements. Our scope of supply already provides for all the special voltages for the international market.

In addition to our standard programme, customised and tailor-made kilns can be made for you and are always a welcomed challenge for our engineering team. We have

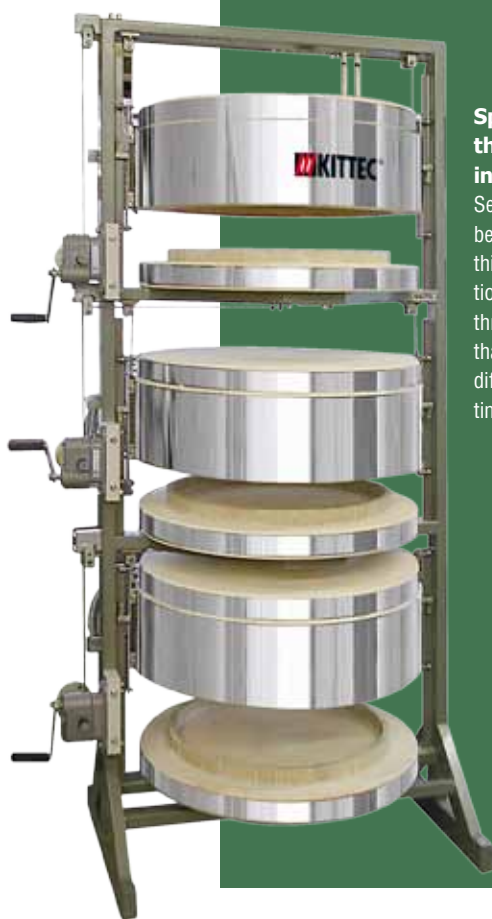
successfully implemented many special applications for a wide range of usages. We are also pleased to meet your special requirements.

**Special sizes and special constructions for your needs – we have the solutions.**

### **Custom design for the metal-working industry.**

Based on the CLM type series, with 3 m length, for the heat treatment of metal rods and shafts.





**Special design for the glass processing industry**

Several vertically placed bell furnaces were used in this elaborate construction. The special kiln has three firing chambers that allow separate and different firing and cooling times.



**Special design for the metal-working industry**

Based on the CLM type series, for the heat treatment of metal.

**Special design for the metal-working industry**

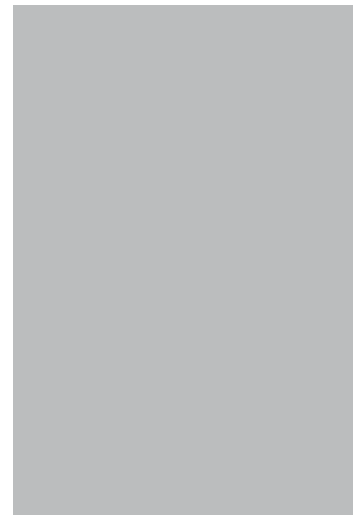
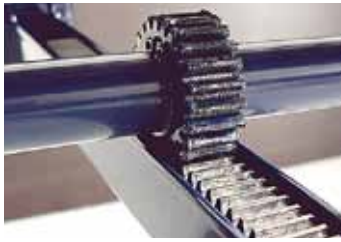
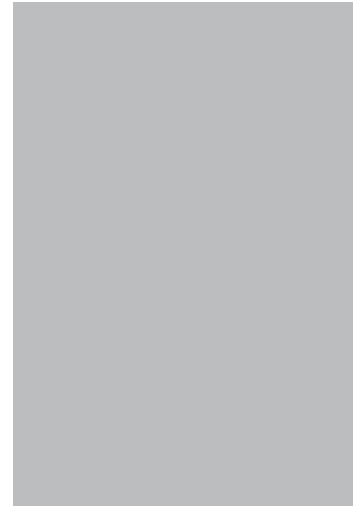
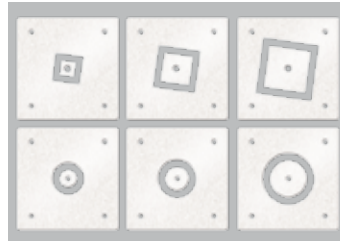
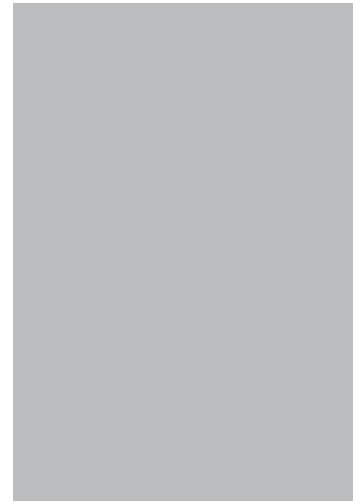
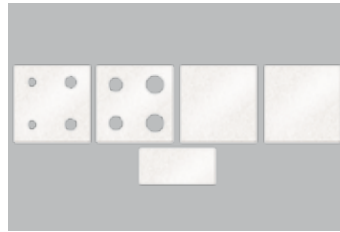
Bogie hearth kiln with automatically retractable shuttle.



**Special design for laboratory use**

Large special laboratory kiln with two-part front flap.





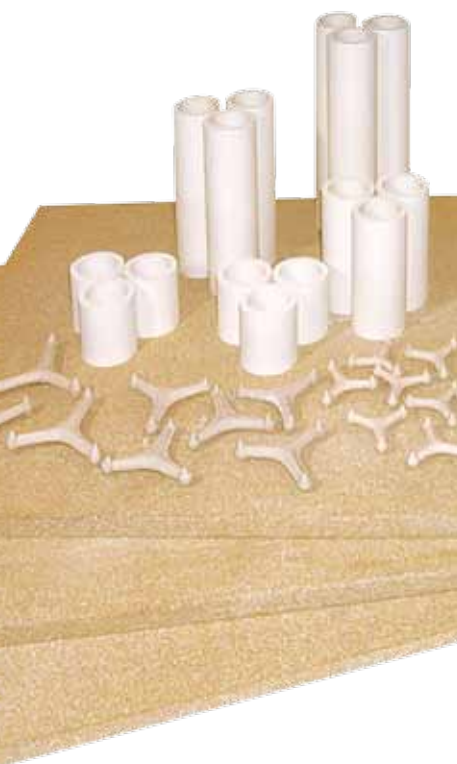
# MACHINES & EQUIPMENT



# FURNITURE SETS

Large selection for perfect firing

|                | Furniture set | Number of shelves | Shelf dimensions | Number of supports 50 mm | Number of supports 100 mm | Number of supports 150 mm | Number of supports 200 mm | Ceramic tripod-set | Batt wash 1 kg | Cordierite blocks for bottom layer |
|----------------|---------------|-------------------|------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------------|----------------|------------------------------------|
| Top-loader     | <b>O</b>      | 2                 | ø 260 mm         | 6                        | 3                         |                           |                           | 1                  | 1              | 3                                  |
|                | <b>A</b>      | 3                 | ø 350 mm         | 6                        | 6                         |                           |                           | 1                  | 1              | 3                                  |
|                | <b>B</b>      | 4                 | ø 380 mm         | 9                        | 6                         | 3                         |                           | 1                  | 1              | 3                                  |
|                | <b>C</b>      | 4                 | ø 470 mm         | 6                        | 6                         | 3                         |                           | 1                  | 1              | 3                                  |
|                | <b>D</b>      | 4                 | ø 520 mm         | 9                        | 6                         | 3                         |                           | 1                  | 1              | 3                                  |
|                | <b>E</b>      | 4                 | ø 585 mm         | 9                        | 6                         | 3                         |                           | 1                  | 1              | 3                                  |
|                | <b>SQ 11</b>  | 2                 | 180 x 180 mm     | 6                        | 3                         |                           |                           | 1                  | 1              | 4                                  |
|                | <b>SQ 50</b>  | 3                 | 340 x 330 mm     | 6                        | 6                         |                           |                           | 1                  | 1              | 4                                  |
|                | <b>SQ 70</b>  | 4                 | 340 x 330 mm     | 9                        | 9                         |                           |                           | 1                  | 1              | 4                                  |
|                | <b>SQ 90</b>  | 4                 | 400 x 400 mm     | 9                        | 9                         |                           |                           | 1                  | 1              | 4                                  |
|                | <b>SQ 140</b> | 5                 | 400 x 400 mm     | 9                        | 9                         | 3                         |                           | 1                  | 1              | 4                                  |
|                | <b>SQ 150</b> | 4                 | 500 x 500 mm     | 9                        | 9                         |                           |                           | 1                  | 1              | 4                                  |
|                | <b>SQ 220</b> | 5                 | 500 x 500 mm     | 9                        | 9                         | 3                         |                           | 1                  | 1              | 4                                  |
|                | Front-loader  | <b>CBN 15</b>     | 2                | 240 x 190 mm             | 6                         | 3                         |                           |                    | 1              | 1                                  |
| <b>CBN 33</b>  |               | 2                 | 300 x 290 mm     | 6                        | 3                         |                           |                           | 1                  | 1              | 4                                  |
| <b>CBN 50</b>  |               | 3                 | 340 x 310 mm     | 6                        | 6                         |                           |                           | 1                  | 1              | 4                                  |
| <b>CBN 70</b>  |               | 3                 | 350 x 340 mm     | 6                        | 6                         | 3                         |                           | 1                  | 1              | 4                                  |
| <b>CBN 100</b> |               | 4                 | 400 x 350 mm     | 9                        | 6                         | 3                         |                           | 1                  | 1              |                                    |
| <b>CBN 140</b> |               | 4                 | 470 x 400 mm     | 9                        | 6                         | 3                         |                           | 1                  | 1              |                                    |
| <b>CBN 200</b> |               | 4                 | 500 x 460 mm     | 9                        | 6                         | 6                         |                           | 1                  | 1              |                                    |
| <b>CBN 280</b> |               | 5                 | 570 x 500 mm     | 9                        | 3                         | 6                         | 3                         | 1                  | 1              |                                    |
| <b>CBN 330</b> |               | 5                 | 600 x 500 mm     | 9                        | 3                         | 6                         | 3                         | 1                  | 1              |                                    |
| <b>CL 43</b>   |               | 3                 | 370 x 310 mm     | 6                        | 6                         |                           |                           | 1                  | 1              |                                    |
| <b>CL 60</b>   |               | 3                 | 370 x 310 mm     | 6                        | 6                         | 3                         |                           | 1                  | 1              |                                    |
| <b>CL 100</b>  |               | 4                 | 400 x 360 mm     | 9                        | 6                         | 3                         |                           | 1                  | 1              |                                    |
| <b>CL 140</b>  |               | 4                 | 500 x 400 mm     | 9                        | 6                         | 3                         |                           | 1                  | 1              |                                    |
| <b>CL 210</b>  |               | 4                 | 500 x 480 mm     | 9                        | 6                         | 6                         |                           | 1                  | 1              |                                    |
| <b>CL 280</b>  |               | 5                 | 540 x 500 mm     | 9                        | 3                         | 6                         | 3                         | 1                  | 1              |                                    |
| <b>CL 330</b>  |               | 5                 | 560 x 500 mm     | 9                        | 9                         | 6                         | 6                         | 1                  | 1              |                                    |
| <b>CL 440</b>  |               | 10                | 560 x 320 mm     | 12                       | 12                        | 9                         | 9                         | 1                  | 1              |                                    |
| <b>CL 600</b>  |               | 12                | 600 x 370 mm     | 15                       | 15                        | 12                        | 12                        | 1                  | 1              |                                    |
| <b>XR 100</b>  |               | 3                 | 440 x 350 mm     | 9                        | 6                         | 3                         |                           | 1                  | 1              | 4                                  |
| <b>XR 150</b>  |               | 4                 | 500 x 370 mm     | 9                        | 9                         | 6                         | 3                         | 1                  | 1              | 4                                  |
| <b>XR 190</b>  |               | 4                 | 500 x 400 mm     | 6                        | 6                         | 6                         | 6                         | 1                  | 1              | 4                                  |
| <b>XR 230</b>  |               | 4                 | 600 x 400 mm     | 6                        | 6                         | 6                         | 6                         | 1                  | 1              | 4                                  |
| <b>XR 310</b>  |               | 5                 | 600 x 500 mm     | 9                        | 9                         | 6                         | 6                         | 1                  | 1              | 4                                  |
| <b>XR 380</b>  |               | 10                | 560 x 350 mm     | 12                       | 12                        | 9                         | 9                         | 1                  | 1              | 8                                  |
| <b>XR 520</b>  |               | 12                | 600 x 370 mm     | 15                       | 15                        | 12                        | 12                        | 1                  | 1              | 8                                  |
| <b>XR 680</b>  |               | 12                | 600 x 400 mm     | 15                       | 15                        | 12                        | 12                        | 1                  | 1              | 8                                  |
| <b>XR 780</b>  |               | 14                | 600 x 450 mm     | 18                       | 15                        | 12                        | 12                        | 1                  | 1              | 8                                  |
| <b>XR 1060</b> |               | 28                | 470 x 370 mm     | 36                       | 32                        | 32                        | 24                        | 1                  | 1              | 16                                 |
| <b>XT 80</b>   |               | 3                 | 400 x 350 mm     | 9                        | 6                         | 3                         |                           | 1                  | 1              | 4                                  |
| <b>XT 120</b>  |               | 4                 | 470 x 370 mm     | 9                        | 9                         | 6                         | 3                         | 1                  | 1              | 4                                  |
| <b>XT 160</b>  |               | 4                 | 490 x 420 mm     | 6                        | 6                         | 6                         | 6                         | 1                  | 1              | 4                                  |
| <b>XT 200</b>  |               | 4                 | 600 x 400 mm     | 6                        | 6                         | 6                         | 6                         | 1                  | 1              | 4                                  |
| <b>XT 270</b>  |               | 5                 | 600 x 480 mm     | 9                        | 9                         | 6                         | 6                         | 1                  | 1              | 4                                  |
| <b>XT 330</b>  |               | 10                | 560 x 340 mm     | 12                       | 12                        | 9                         | 9                         | 1                  | 1              | 8                                  |
| <b>XT 450</b>  |               | 12                | 600 x 350 mm     | 15                       | 15                        | 12                        | 12                        | 1                  | 1              | 8                                  |
| <b>XT 600</b>  |               | 12                | 600 x 400 mm     | 15                       | 15                        | 12                        | 12                        | 1                  | 1              | 8                                  |
| <b>XT 700</b>  | 14            | 600 x 450 mm      | 18               | 15                       | 12                        | 12                        | 1                         | 1                  | 8              |                                    |
| <b>XT 1000</b> | 28            | 460 x 400 mm      | 36               | 28                       | 28                        | 24                        | 1                         | 1                  | 16             |                                    |
| <b>XG 250</b>  | 4             | 600 x 400 mm      | 6                | 6                        | 6                         | 6                         | 1                         | 1                  | 4              |                                    |
| <b>XG 350</b>  | 5             | 600 x 500 mm      | 9                | 9                        | 6                         | 6                         | 1                         | 1                  | 4              |                                    |
| <b>XG 500</b>  | 12            | 550 x 400 mm      | 15               | 15                       | 12                        | 12                        | 1                         | 1                  | 8              |                                    |
| <b>XG 770</b>  | 12            | 600 x 500 mm      | 18               | 15                       | 12                        | 12                        | 1                         | 1                  | 8              |                                    |
| <b>XG 1000</b> | 24            | 460 x 400 mm      | 36               | 28                       | 28                        | 24                        | 1                         | 1                  | 16             |                                    |







# THERMOCOMPUTER

Versatile control - the thermocomputer



## Thermocomputer TC 44

High-quality, extremely easy to use control system with an adjustable firing curve: Heating in 7 selectable stages to 580 °C (fixed), then heating with maximum speed to adjustable final temperature. Subsequently selectable holding time in steps. Then programme end with (unregulated) cooling. No extra charge, as included in the basic price.



## Thermocomputer TC 505

The TC 505 burn curve consists of the lead time, two adjustable heating and holding times and (controlled) cooling phase. All values are freely adjustable. Six programmes are permanently programmed, 23 more can be stored individually. The control unit also has a lock button and a power consumption indicator.



## Thermocomputer TC 66

All values of the typical ceramic firing curve (pre-run time, controlled heating in two steps to adjustable final temperature, holding time, controlled cooling) can be set as desired. You can customise and store six programmes on your own.



## Thermocomputer TC 507

As the TC 507, but with completely variable firing curve shape. Up to 99 segments can be freely entered, thus any heating / holding / cooling processes. Simultaneous input of the ramps in °C/h or time. Possibility of manual intervention in the programme sequence. Several EVENTS etc. Up to 99 programmes can be stored. The TC 507 is the successor to the TC 405/30 and is therefore the standard in thermal glass processing.



## Thermocomputer TC 88e

Powerful control system from the compact class, which was specially designed for complex firing curves (glass processing). The firing curve consists of up to 30 segments. This results in as many heating / holding / cooling processes. The exact time can be programmed in each ramp. It is also possible to enter a lead time. A maximum of 30 firing curves can be stored as a programme.



## Wall mount

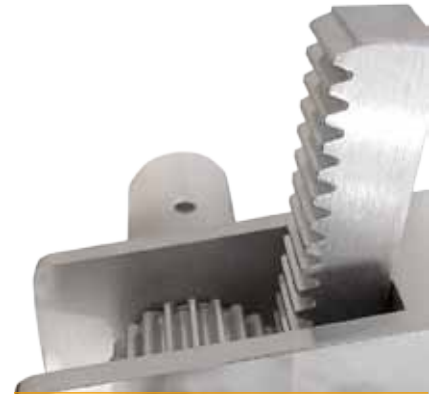


# CLAY PRESSES

The KITTEC® Clay Press TP is based on a simple, but very sophisticated technique, with which potters can make clay strands for their creations.

The container for the clay mass can be filled with a whole 12.5 kg of blank clay. By a slight, downward movement of the ratchet lever, the clay is pressed through an individually selected template on the bottom of the container. Depending on the shape of the template, hollow round, rectangular or octagonal clay strands are produced.

The KITTEC® Clay Press TP can be mounted on sturdy concrete, wood or brick walls. As an option, however, we also offer a special frame, which only has to be fixed to the floor.



**Original KITTEC®-template sets**

KITTEC® template set 5-piece

KITTEC® template set 12-piece

- ✓ Excellent power transfer: Gear- wheel + gear rack
- ✓ Extremely low effort due to the quality ratchet
- ✓ Quick release for easy changing of templates
- ✓ Extendible lever
- ✓ Extra-large cylinder for a complete clay blank!
- ✓ Standard templates (Basic equipment)
- ✓ Optional: 12-part template set
- ✓ A variety of clay strands for individual creations
- ✓ Fully galvanised
- ✓ Developed jointly with specialist retailers!
- ✓ Test seal for quality assurance
- ✓ Optional: With support stand

| Model | Cylinder width [mm] | Cylinder depth [mm] | Cylinder height [mm] | External width [mm] | External depth [mm] | External height [mm] | Weight [kg] |
|-------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|-------------|
| TP    | 140                 | 140                 | 400                  | 260                 | 210                 | 860                  | 20          |

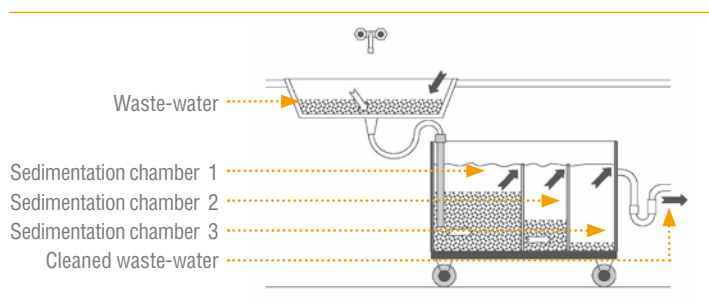




# CLAY SEPARATOR

The Clay separator, also called glaze and clay separator, is used to keep glazes, clays and engobe remains from the sewer system.

For this purpose, the Clay separator is installed under the sink. The settleable substances in the waste-water are separated by the simple but highly effective three-chamber system at the bottom of the Clay separator. This prevents pipe clogging and protects the environment, so compliance with the waste-water regulations is no longer a problem.



- ✓ Wash basin connection
- ✓ Out of impact-resistant plastic
- ✓ Drainage connection
- ✓ Optional: Cover
- ✓ With 4 swivel castors



| Clay separator | Length [mm] | Width [mm] | Height incl. roller [mm] | Chambers | Diameter Supply and drainage [mm] | Height supply [mm] | Height drainage [mm] | Weight [kg] |
|----------------|-------------|------------|--------------------------|----------|-----------------------------------|--------------------|----------------------|-------------|
| AB             | 610         | 410        | 530                      | 3        | 40                                | 630                | 370 +/- 10           | 10          |



# SLAB ROLLERS

## Slab roller RM 1

### The robust professional device

The KITTEC®-RM-1-slab roller has been designed for many years of use in workshop and industrial operation. The rack and pinion drive meshes seamlessly and smoothly when transferring the power. Centrally via only one adjusting wheel, you can adjust the height precisely using the measuring scale. In only a few steps you can achieve the best results. The KITTEC®-RM-1 slab roller can be used both as a stand-alone unit and as a table device



| Slab roller  | Length [mm] | Width [mm] | Height [mm] | NF length [mm] | NF Width [mm] | NF Height [mm] | Weight [kg] |
|--------------|-------------|------------|-------------|----------------|---------------|----------------|-------------|
| <b>CreaP</b> | 790         | 530        | 200         |                | 500           | 15-25          | 35          |
| <b>RM 1</b>  | 1160        | 850        | 1300        | 800            | 675           | 0-90           | 70          |



- ✓ Step-less height adjustment by means of a central spindle. Comfortable and central to use.
- ✓ Precise measuring scale for millimetre-accurate adjustment. One turn – measure
- ✓ Guide of the roller device 8-fold with high-quality, encapsulated ball bearings. Exact guidance of the carriage, no canting.
- ✓ Handy, large hand wheel for easy operation. No slipping, the clay firmly under control.
- ✓ Driving of the roller device by means of gear wheel and gear rack. Precise guidance - robust, durable, exact.
- ✓ Stainless steel roller with large diameter. Minimal effort during the rolling process
- ✓ Table cover made of moisture resistant multiplex. Always the best, absolutely flat slabs.
- ✓ Robust linen cloth, easy to change and easy to attach. A clean solution.
- ✓ Solid table stand with detachable feet. Nothing bends! Can also be used as a table device.

### Optional

- ✓ RM-2: Cloth on both sides. For working with two clay types.
- ✓ Levelling feet to compensate for ground irregularities, CE marking, 36 months warranty. Proven quality

### CreaP table slab roller

The affordable alternative





# SPRAY BOOTHS

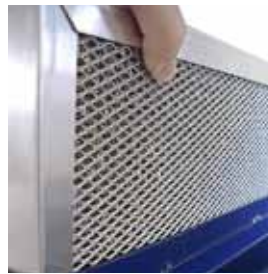
## Spray booth SB 1

The KITTEC® SB-1 spray booth enables a dust-free work environment in the workshop when spraying glazes or ceramic paints.

The booths have a fully enclosed working area which is only open at the front. An under-pressure is generated in the booth via a suction fan so that fine glaze or paint particles cannot escape from the spray booth. The KITTEC®-SB-1 spray booth is ideal for smaller workshops and as a convection model. The sucked in air is then filtered and returned to the room after

cleaning. The robust and durable metal filter has several filter inserts offset to one another. At the rear, the cleaned air is returned to the workshop. To clean the galvanised metal filter, it is simply pulled out of its guide, then cleaned under running water. The KITTEC®-SB-1 spray booth can be placed on a table or can be used on the supplied legs. It is made of solid steel and is

delivered ready for connection. A banding wheel for the placement and movement of work-pieces in the KITTEC®-SB-1 spray booth can also be optionally ordered.



- ✓ Strong suction fan
- ✓ Metal filter, easy to clean

| Spray booth | Internal width [mm] | Internal depth [mm] | Internal height [mm] | External width [mm] | External depth [mm] | External height [mm] | Absorbency [m <sup>3</sup> /h] | Voltage [V] | Weight [kg] |
|-------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|--------------------------------|-------------|-------------|
| <b>SB 1</b> | 610                 | 460                 | 610                  | 650                 | 760                 | 1500                 | 2450                           | 230         | 60          |



# HARDENING TABLE

- ✓ Stable table depositing shelf below the work surface
- ✓ Foot with adjusting screw
- ✓ Bath capacity approx. 50 - 60 litres
- ✓ Quenching tank mountable on both sides, left stainless steel water tank, right standard steel oil tank with hinged lid
- ✓ Delivery including charging basket with draining mechanism
- ✓ HS-S: 750 x 735 mm (without tanks), HS-B: 1300 x 735 mm (without tanks), table height 790 mm
- ✓ Additional heater with thermostat available

### Optional extension to the combined table:

- Available on request: Fan set for forced cooling.
- Heat-reflecting bricks can be placed on the cooling grate to create a heating element. The bricks can be built as desired. This can be used to heat-up for forging, welding, flame hardening and soldering, etc. Also to be used as a slow cooling chamber.
- Water or oil tank optional with heating element including thermostat. Power 3 kW - 230 volts.





## BANDING WHEELS

The KITTEC® banding wheels are the ideal aid for painting and banding of ceramics.

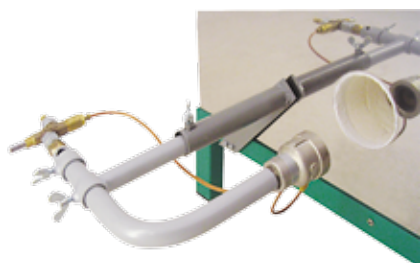
Due to their precise bearings, they prove to be outstanding with long, quiet and smooth running. The centering grooves allow precise alignment of the objects and thus exact work. With our different versions, we have the right solution for every application.

| Model             | Type                | Ø [mm] | Height [mm] | Material         | Weight [kg] |
|-------------------|---------------------|--------|-------------|------------------|-------------|
| <b>RSL 220 N</b>  | Banding wheel       | 220    | 48          | Steel painted    | 3,2         |
| <b>RSL 220 H</b>  | Banding wheel       | 220    | 123         | Steel painted    | 3,3         |
| <b>RSV 220 H</b>  | Banding wheel       | 220    | 123         | Steel galvanized | 3,3         |
| <b>RSG 260 N</b>  | Banding wheel       | 260    | 58          | Cast iron        | 5,2         |
| <b>RSG 260 H</b>  | Banding wheel       | 260    | 130         | Cast iron        | 5,9         |
| <b>RAB 220 N</b>  | Banding wheel       | 220    | 48          | Aluminium        | 1,3         |
| <b>RAB 220 H</b>  | Banding wheel       | 220    | 123         | Aluminium        | 1,5         |
| <b>RAB 300 N</b>  | Banding wheel       | 300    | 58          | Aluminium        | 2,5         |
| <b>RAB 300 H</b>  | Banding wheel       | 300    | 150         | Aluminium        | 3           |
| <b>RSG 220 ST</b> | Stand banding wheel | 220    | 780-1225    | Cast iron        | 7,5         |
| <b>RAB 260 ST</b> | Stand banding wheel | 260    | 780-1225    | Aluminium        | 8,5         |



## RAKU - AND SELF CONSTRUCTION MATERIAL

### Raku burner 20 kW / 30 kW



### Pot burner 20 kW

Extremely quiet and very well adjustable

### Temperature registration

Thermocouple and temperature display battery operated

### Bottle connection

Pressure regulator with manometer and 1.5 m hose including all fittings between burner and gas bottle



### Complete package Raku accessories A

Raku burner 20 kW, bottle connection, thermocouple, temperature display

### Complete package Raku accessories B

Raku burner 30 kW, bottle connection, thermocouple, temperature display

### Raku tongs A / B

Model A: zinc-plated with teeth  
Model B: stainless steel with ring jaw for round vessels

### Raku gloves A / B

Model A: up to maximum 400 °C  
Model B: maximum 1000 °C

### Raku-box A / B

Approx. 650 x 500 x 300 mm,  
Model A: outside painted  
Model B: stainless steel

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