

A woman with blonde, wavy hair is leaning over a large, white, cylindrical pottery kiln. She is wearing a white, short-sleeved, button-down cardigan over a white t-shirt and blue jeans. She is carefully placing a light-colored, shallow pottery dish into the kiln. The kiln's interior is lined with dark, spiral-shaped supports. In the background, there are shelves filled with various pottery items, including plates, bowls, and cups. A wooden stool is visible on the left side of the frame. The overall atmosphere is that of a creative and functional pottery studio.

Our Top  
Loaders

Our top loaders are the best choice for your hobby and workshop. These kilns impress with their elegant, appealing design, very high-quality workmanship and an outstanding price-performance ratio. The stainless steel housing not only gives the kiln a modern look, but also stands for robustness and durability. The intuitive controller with colored touch display makes operation very simple. Your Nabertherm top loader is not just a kiln, but a reliable and faithful partner in your workshop. And because we know how important every firing is for you, we developed the free MyNabertherm app. It allows you to monitor your firings on mobile devices and track the firing progress at all times.

**With our top loaders you can be sure of top performance and quality. Experience our top of the line firing technology and realize your creative projects with TOP firing results.**

**The following equipment applies to all top loaders in this chapter:**



Exclusive use of insulation materials without categorization according to EC Regulation No 1272/2008 (CLP). This explicitly means that alumino silicate wool, also known as “refractory ceramic fiber” (RCF), which is classified and possibly carcinogenic, is not used.



Freeware NTEdit for convenient program input via Excel™ for MS Windows™ on the PC



Optimized insulation construction for a perfect balance between the best possible energy consumption and short cycle times



NTLog Basic for Nabertherm controller: recording of firing data with USB-flash drive



Controller can be switched to “Solar Mode” to use electricity from PV systems with and without battery



Freeware NTGraph for evaluation and documentation of firings using Excel™ for MS Windows™ on the PC



Defined application within the constraints of the operating instructions

“When it comes durability, a Nabertherm top loader is unbeatable.”

Marta G. Palacios,  
[ohyokoceramics.com](http://ohyokoceramics.com)







# Optimal Energy Efficiency and Excellent Firing Results

Our top loaders have a long and economical life.

Each kiln is handcrafted with love in our factory in Germany. We use the highest quality materials we can source in every aspect of the kiln. The kiln uses energy efficiently, whilst giving you the best firing results.

You can rely on Nabertherm:

- Optimal insulation - thanks to our proven insulation concept, we have been setting standards in terms of efficiency for years
- Shorter cool down times than most comparable models – you can fire faster and more efficiently
- Our unique controller turns every program setting into an intuitive experience
- By installing the finest materials, we can minimise the energy demand
- Excellent temperature uniformity for optimal and reliable firing results

**That's what we call sustainability!**



**Costs for bisque and glaze firing using our models TOP 60 and TOP 100 as examples:**

## TOP 60



45 x



48,3 kWh



32 ct\*

1,1 kWh

## TOP 100



66 x

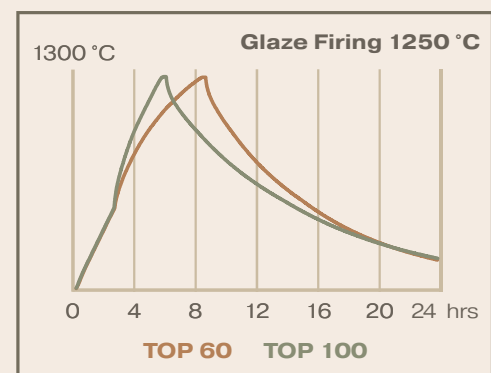


56,7 kWh



23 ct\*

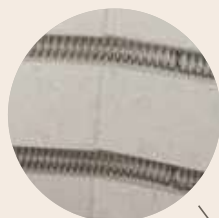
0,8 kWh



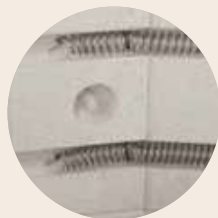
\*Bisque firing 950 °C, glaze firing 1250 °C. Charge weight incl. kiln furniture: Top 60 - 18 kg, Top 100 - 30 kg.  
Calculated energy price: 0.30 €/kWh.

# Detailed Overview

Ceramics Creates Passion.  
Trust in Nabertherm.



Heating elements,  
protected in grooves



Thermocouple  
type S protected in  
the insulation



Low noise  
electronic relays



Bypass connector  
for an exhaust air  
pipe



Gas-pressured  
springs as lid lifter



Multi-layer insulation



Automatic lid lock



Quick-release lock



Removable  
controller with  
touch operation  
(see page 58)



Infinitely adjustable  
air inlet in opening  
in the kiln bottom for  
good ventilation and  
short cooling times



Robust  
professional  
castors



Structured stainless  
steel housing



Mobile monitoring  
with the  
MyNabertherm app



# Additional Equipment



Raised frame for Top 45 and Top 60



Kiln furniture set, consisting of ceramic shelves and ceramic supports for loading on several levels



Bottom heating and manual zone control from 80 liters:

Does your work need a very precise temperature uniformity? In this case we recommend the optional bottom heating for our top loaders from 80 liters.

With our controllers, you can control the bottom heating as a second zone.

Set your firing curve on the controller as usual. If you find that the temperature uniformity has to be changed from top to bottom, you simply adjust the ratio.



# Top Loaders up to 1320 °C

Discover the fascinating world of Nabertherm top loaders – they combine appealing design, easy handling and an unbeatable price-performance ratio. For you this means not only excellent firing results, but also the perfect support for your creative passion and projects in the workshop.

We are sure you know the feeling of opening your kiln after firing and admiring the results of your work with excitement. Our top loaders will not let you down. The particularly easy-to-use controller reliably regulates your firing programs. Our top loaders are not simply kilns, they are a reliable partner for your everyday pottery work and support you in realizing your creative ideas.

## Insulation

Our top loaders are equipped with energy-efficient refractory insulation inside the chamber and microporous rear insulation that allows you to

reach a top temperature of 1320 °C with minimum energy consumption.

- Three layers of high-quality 15 mm microporous rear insulation for top loaders up to 60 liters to ensure that you reach your firing temperature reliably
- Two layers of high-quality 20 mm microporous rear insulation for top loaders from 80 liters for a well-balanced ratio between energy-saving heating and shorter cooling times for the kiln
- Automatic lid lock upon opening for additional safety

## Controller

- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 59

**Treat yourself to something special for your hand-crafted works of art!**

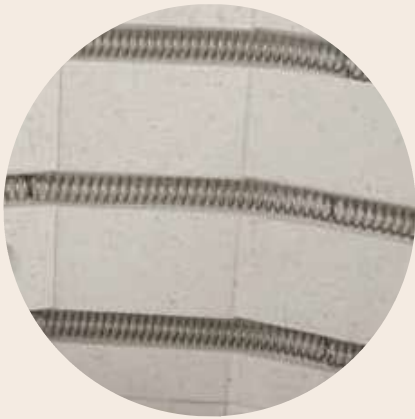
“Each time I open the kiln, I’m just as excited as I was after the first firing.”

Marta G. Palacios,  
[chyokoceramics.com](http://chyokoceramics.com)



Additional  
equipment  
see page 13

Top loader Top 45



All-round heating elements, protected in grooves



Three layers insulation for top loaders up to 60 liters



Two layers insulation for top loaders from 80 liters

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>2</sup> in mm			Connected load <sup>3</sup> kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
Top 45/L	1320	Ø 410		340	45	600	890	790	2.9	1-phase	66
Top 45	1320	Ø 410		340	45	600	890	790	3.6	1-phase	66
Top 60/L	1200	Ø 410		460	60	600	890	910	2.9	1-phase	74
Top 60	1320	Ø 410		460	60	600	890	910	3.6	1-phase	74
Top 80	1320	Ø 480		460	80	660	960	920	5.5	3-phase <sup>1</sup>	88
Top 100	1320	Ø 480		570	100	660	960	1030	7.0	3-phase	97
Top 130	1320	Ø 590		460	130	780	1080	940	9.0	3-phase	115
Top 140	1320	Ø 550		570	140	750	1040	1050	9.0	3-phase	117
Top 160	1320	Ø 590		570	160	780	1080	1050	9.0	3-phase	122
Top 190	1320	Ø 590		690	190	780	1080	1170	11.0	3-phase	135
Top 220	1320	930	590	460	220	1120	1050	960	15.0	3-phase	154

<sup>1</sup>Heating only between two phases

<sup>2</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

<sup>3</sup>The connected load refers to the standard furnace and may increase for a furnace with additional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

\*Please see page 61 for more information about supply voltage



# Top Loaders up to 1320 °C with increased connected load

Additional  
equipment  
see page 13

With their increased connected load and specially designed heating elements, our kilns in the Top .. R range are ideal for frequent use at high temperatures up to 1290 °C. They therefore represent an attractively priced alternative to our chamber kilns that meets professional requirements.

The increased connected load enables the kilns to heat up much faster. Regardless whether for biscuit firing, earthenware, overglaze firing, soft-paste porcelain or stoneware – our Top .. R kilns are designed ideally to meet your creative needs. The compact tabletop model Top 16/R even offers the option of perfecting glaze or sample specimens on a laboratory scale. Alternatively, for permanent professional use, we recommend our chamber kilns with five side heating.

## Standard equipment

- Like top loaders, see page 14

## Let your art shine in a new dimension!



Top loader Top 16/R as a tabletop model



Top loader Top 100/R



Increased connected load for frequent high working temperatures



Robust heating elements with increased connected load to heat your kiln faster



Scan for video tutorial "Installation of Top Loaders"



Nabertherm's Top Loaders are Simply Perfect.

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>2</sup> in mm			Connected load <sup>3</sup> kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
Top 16/R	1320	Ø 290		230	16	490	740	560	2.6	1-phase	40
Top 45/R	1320	Ø 410		340	45	600	890	790	5.5	3-phase <sup>1</sup>	66
Top 60/R	1320	Ø 410		460	60	600	890	910	5.5	3-phase <sup>1</sup>	74
Top 80/R	1320	Ø 480		460	80	660	960	920	7.0	3-phase <sup>1</sup>	88
Top 100/R	1320	Ø 480		570	100	660	960	1030	9.0	3-phase	97
Top 140/R	1320	Ø 550		570	140	750	1040	1050	11.0	3-phase	117
Top 190/R	1320	Ø 590		690	190	780	1080	1170	13.5	3-phase	135

<sup>1</sup>Heating only between two phases

<sup>2</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

<sup>3</sup>The connected load refers to the standard furnace and may increase for a furnace with additional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

\*Please see page 61 for more information about supply voltage

# Top Loaders Rectangular

Do you need a top loader with the quality features of a professional chamber kiln? Then the HO range is the perfect choice. These kilns are your reliable companions to help you achieve impressive results.

The freely radiating heating elements on support tubes, which can also be replaced very easily after a long period of use, always guarantee outstanding firing results and thus create the basis for your creative projects. The infinitely adjustable fresh-air opening in the floor and exhaust air opening in the side ensure good ventilation of the kiln chamber and faster cooling times. Our castors allow you to move the kiln easily.

## Standard equipment

- Heating elements on support tubes ensure free heat radiation
- Heating from both sides
- Robust professional-grade castors
- Two layers of energy-saving high-quality 30 mm microporous rear insulation for shorter cooling times

## Controller

- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 59

**Welcome to your inspiring workshop!**

Additional  
equipment  
see page 13

“My top loader transforms my work into real masterpieces.”

Will Martin,  
*williamjohnmartin.com*



Top loader HO 70/R





Heating elements on support tubes on both sides ensure free heat radiation



Two layers insulation



Robust professional castors



Built with Tradition.

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>2</sup> in mm			Connected load <sup>3</sup> kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
HO 70/L	1200	440	380	420	70	1025	830	830	3.6	1-phase	145
HO 70/R	1320	440	380	420	70	1025	830	830	5.5	3-phase <sup>1</sup>	145
HO 100	1320	430	480	490	100	1015	930	900	8.0	3-phase	160

<sup>1</sup>Heating only between two phases

<sup>2</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

<sup>3</sup>The connected load refers to the standard furnace and may increase for a furnace with additional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

\*Please see page 61 for more information about supply voltage