

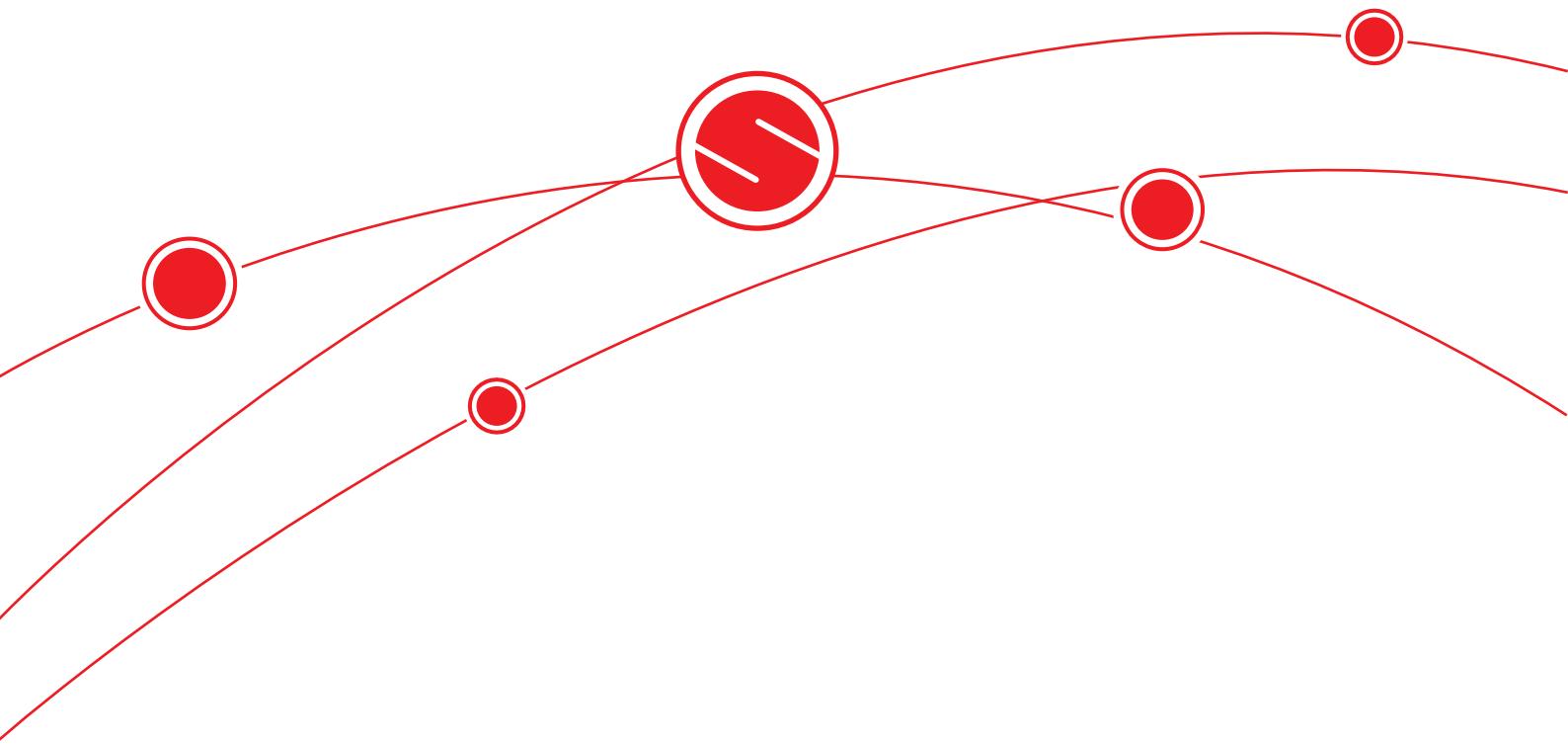


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FURNACES  
**RECRYSTALLIZED**

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SILCARB, AN ISO-9001-2008 COMPANY HAS BEEN IN THE FIELD OF MANUFACTURING SILICON CARBIDE HEATING ELEMENTS AND FURNACES FOR THE LAST 3 DECADES.....



AN ISO 9001-2008 COMPANY

#### SILCARB SPECIALIZES IN THE FOLLOWING AREAS OF FURNACES

- Furnaces for the Aluminium Industry
- Heat Treatment Furnaces
- High Temperature Furnaces
- Electric Forging Furnaces

Winner of National Award for Outstanding Entrepreneurs

K.L.N Foundation Award for Product Excellence

Indian Institute of Material in Management Award for Energy Saving Equipment

# TOWER MELTING FURNACES



## SILCARB TOWER MELTING FURNANCE-TYPE TILTING

Silcarb manufactures Aluminum Melting Furnaces from 500 kgs upto 10000 kgs capacity with a throughput of 3000 kgs per hour. Aluminum Melting Furnaces are mainly shaft furnaces (Tower Furnace) and are manufactured keeping in mind ease of operation and cost of running the Furnace. All castables and back up linings used are the best in the industry and Silcarb usually requests the customer to visit

during the casting process of the Furnace. Silcarb uses various burners and burner combinations to get the desired fuel efficiencies. Furnace charging is done either from the top using a skip charger or end using a push charging systems. Various types of Tap out Furnaces are made such as direct bail out, tilting type and tap out cone systems.



**SILCARB TOWER MELTING FURNACES TILTING TYPE**



**SILCARB TOWER MELTING FURNACES STATIONARY TYPE**



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# TOWER MELTING CUM HOLDING FURNACES

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## SILCARB MELTING CUM HOLDING-DIRECT BAIL OUT

Furnaces for die casting machines are manufactured by Silcarb. These Furnaces can be used for both melting and holding Aluminum. Various combinations of heat sources are used, the preferred heat source combination for melting is fuel fired and holding being electric. This



combination gives the best results in terms of burning losses, fuel efficiency and temperature accuracy. Output ranging from 150kgs per hour upto 1500 kgs per hour are manufactured by Silcarb.

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# CRUCIBLE TYPE ELECTRIC MELTING AND HOLDING FURNACES

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Silcarb manufactures a rugged crucible type Furnace (Silicon Carbide Crucible). These are mainly used in melting and holding

high magnesium alloys of Aluminum and Copper. Silicon Carbide heaters are used as the main heat source.

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**CRUCIBLE TYPE  
TILTING FURNACES  
FOR COPPER,  
ALUMINIUM, ZINC**

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Silcarb manufactures Hydraulic Tilting Type Furnaces with energy efficient Silicon Carbide Heating Elements as the heat source. These furnaces range from 200kgs of aluminium up to 1000kgs of aluminium. Copper furnaces

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from 200kgs up to 1 Ton capacities are manufactured.

*The temperature is accurately controlled using high quality PID controllers along with phase angle firing thyristor drives.*

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# ALUMINIUM HOLDING FURNACE WITH CAST CRUCIBLE

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**IMMERSION HOLDING FURNACE**

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**TOP HEATING HOLDING FURNACE**

Silcarb manufactures Aluminum holding Furnaces using high density calcium silicate boards as the metal contact material. These Furnaces use Silicon Carbide heating



elements as their main heat source. These are highly energy efficient Furnaces and are the preferred choice for Aluminum filtration and holding applications.





**TOP HEATING HOLDING FURNACE**



**TOP HEATING HOLDING FURNACE**



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# REVERBERATORY FURNACES

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**SILCARB MINI MELTER**



**BULK SCRAP MELTER**

Silcarb manufactures Reverberatory Furnaces as per customers requirements and upto capacities of 10000 kgs. Reverberatory Furnaces for scrap melting are manufactured

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by Silcarb. Silcarb also does 'on site' installation and rework of Reverberatory Furnaces.

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# HEAT TREATMENT FURNACES

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Silcarb manufactures various type of Heat Treatment Furnaces for the ferrous and the non ferrous industry.

SOME OF THE HEAT TREATMENT FURNACES MANUFACTURED ARE :

Ageing Furnaces	Quenching Furnaces (Drop bottom type)
Solutionising Furnaces	Gas Carburizing Furnaces
Tempering Furnaces	Anneling Furnaces



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# H I G H T E M P E R A T U R E

## F U R N A C E S

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**SILCARB BOTTOM LOADING HIGH TEMPERATURE FURNACE (1700° C)**



**FRONT LOADING (1450° C)**

Silcarb manufactures Furnace upto a temperature of 1700° C and specialized graphite Furnaces upto 2200° C. Silcarb has a number of these Furnaces in operation around the world. Silcarb uses its own high density reaction bonded Silicon Carbide Heating Elements (which is manufactured in its

plant in Bangalore) for these High Temperature Furnaces. These Furnaces are completely automated and run on SCADA systems with PLC's to control the entire system. High temperature accuracies with long heater life and refractory life are a feature of these Furnaces



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# HIGH TEMPERATURE FURNACES & MORE

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**1550° C TWO CAR KILN INSTALLATION FOR CERAMIC GLAZING,  
WITH CONTROLLED COOLING**

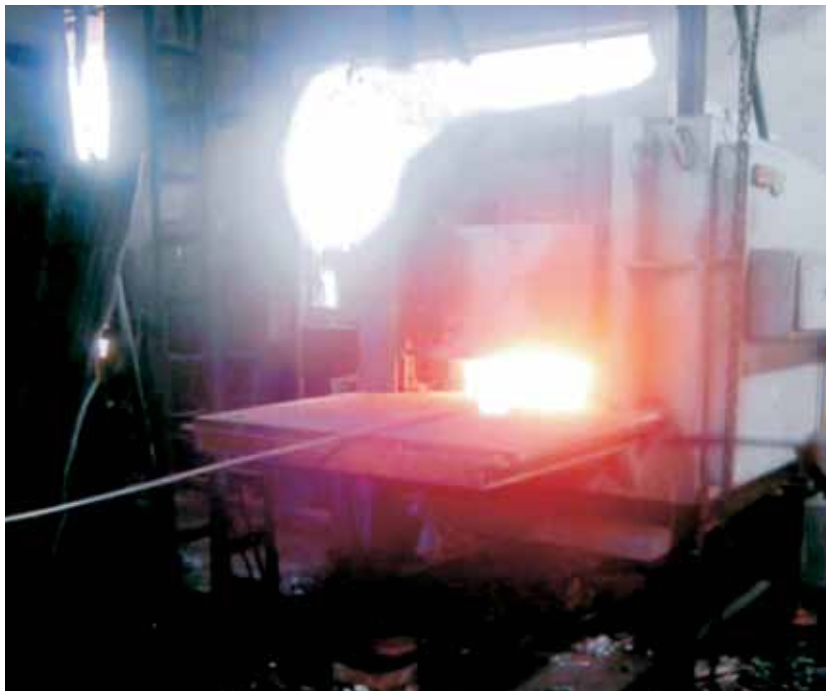


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# **ELECTRIC FORGING**

## FURNACES

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**SILCARB MANUFACTURES THREE TYPES OF FORGING FURNACES  
(FOR BOTH FERROUS AND NON-FERROUS)**

Silcarb manufactures Electric Forging Furnaces for Ferrous castings and Aluminium castings.

• Continuous Pusher Type Furnaces

• Batch Type (Chamber Furnaces)

• Rotary Hearth Furnaces





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