

# ALUMINIUM MELTING AND HOLDING FURNACE



This Melting and Holding Furnace is designed for continuous operation and is suitable for aluminium die casting and aluminium casting industries.

Equipped with “ Low NOX Luminous Flame Burners,” it performs better than conventional furnaces by offering good temperature uniformity of molten metal coupled with excellent energy savings.

Furnace features that lowers the cost of aluminium melting for die casting industry :-

**1. Excellent Aluminium Melt Quality**

Low Nox burners carefully selected by CMTS ensures that aluminium that is melted in CMTS Melting and Holding Furnaces are less susceptible to hard spot formation and gas absorption problems. This translates into higher quality melt at lower melting cost.

**2. Low Melt Losses**

Controlled furnace atmosphere ensures that the surface of the molten metal is always calm. With clean charges, it is possible to expect oxidation losses to be lower than 0.8%. The dross accumulated is virtually aluminium free, making aluminium extraction from the dross almost impossible.

**3. Ease of Cleaning**

No dead corners are found in CMTS aluminium melting furnace chamber and this make the task of cleaning very easy for the customer. Customer can expect no hard clumps of oxidants sticking onto the furnace non wetting refractory walls with regular cleaning.

**4. Low Maintenance Cost**

Built for rugged operations, the cost of maintaining the furnace is low. From records kept to-date, it is possible for this type of furnace to be maintenance – free for more than 5 years.

**5. Low Energy Cost**

High thermal efficiency results in low energy cost. Under optimum conditions, fuel consumptions can be less than 550,000 kcal/ metric ton.

**6. Low Noise Pollution**

CMTS install low pressure combustion air blowers for the furnaces and this helps to make the work environment quiet and pleasant to work in.

**7. Choice of Fuels**

The furnace can be designated to run on the following fuels :- Town / City Gas, Natural Gas, Propane Gas, Butane Gas, Light Fuel Oil, Kerosene.

Model	Melting Rate (kg/hr)	Holding Capacity (kg)	Melting Burner Capacity (kcal/hr)	Holding Burner Capacity (kcal/hr)
MH - 50	50 to 60	300	50,000	50,000
MH - 100	100 to 120	400	80,000	80,000
MH - 150	150 to 175	500	80,000	80,000
MH - 200	200 to 225	650	120,000	80,000
MH - 300	300 to 325	1050	150,000	120,00

## CMTS SDN BHD

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