

SINTERING PRE-HEATER

AMAKAN manufactures state-of-the art Pre-Heaters for furnace and the Ladle and supplies its systems across India and abroad. Our pre-heaters are custom designed as per the need of the consumer.

Sintering Pre-heater for Furnace

- Pre-heating the furnace reduces its energy requirement for melting and thus increases the efficiency of the melting process in sintering heat cycle.
- AMAKAN's customized sintering pre-heaters for furnace can be used for a capacity of 6-30 Ton, heating the furnace up to 600 degree Celsius within 180 minutes.
- The Nichrome strip used as the heating element can sustain high temperature effortlessly.
- Provides safer work environment during melting process. Enhances longevity of the furnace.
- The initial set up cost is significantly low compared to any other pre-heating systems available in the market.
- The process minimises carbon emission and thus helps reducing pollution.
- Pre – heating the furnace improves the melting rate by maximum 15%.
- Helps increasing productivity significantly.
- Temperature measurement and control is automated and the pre-heater is fitted with a digital temperature indicator.
- AMAKAN's furnace pre-heating systems are flexible and removable. A single pre-heater can be used for different furnaces of similar capacity at the same shop floor.



Various Types of Furnace Pre-heaters:

Cold Sintering pre-heater :

- Less preheating time
- Moderate soaking time
- Cost effective

SR NO	FURNACE CAPACITY (TON)	REQUIRED POWER (KW)	PREHEATING TIME (MINUTE)	PREHEATING TEMP (DEG C)
1	6	80	150-180	350-400
2	8	90	150-180	350-400
3	10	90	150-180	350-400
4	12	100	150-180	350-400
5	15	100	150-180	350-400
6	20	125	150-180	350-400
7	25	135	150-180	350-400
8	30	180	150-180	350-400

Hot Sintering pre-heater :

- Moderate pre-heating time
- Less sintering time
- Possible to go to full power in short time
- Effective for synchronizing melting

SR NO	FURNACE CAPACITY (TON)	REQUIRED POWER (KW)	PREHEATING TIME (MINUTE)	PREHEATING TEMP (DEG C)
1	6	100	180-200	500-550
2	8	100	180-200	500-550
3	10	110	180-200	500-550
4	12	125	180-200	500-550
5	15	135	180-200	500-550
6	20	150	180-200	500-550
7	25	180	180-200	500-550
8	30	200	180-200	500-550

Sintering Pre-heater for Ladle:

- Ladle is pre-heated to remove moisture from the inner-lining and it betters the lining life.
- AMAKAN's sintering pre-heaters come in different sizes and capacities - serving ladles from 6 – 30 Tons and can be heated up to 450 degree Celsius for heating around 200 minutes.
- It helps reducing the cycle time and thus increases efficiency of the process.
- Our pre-heating system uses Nichrome strip as the heating element, hence easily sustain high temperature.
- The process is smokeless and less polluting.
- The ladle is covered and there is minimum heat loss. The system is energy efficient and saves cost.
- The set-up is flexible and one set up can be used in more than one ladles (of similar capacity) in the same plant.
- Heating control is automated and the heater is fitted with a digital temperature indicator.
- Ensures safety of the worker.



Various Types of Ladle Pre-heaters

SR NO	LADLE CAPACITY (TON)	REQUIRED POWER (KW)	PREHEATING TIME (MINUTE)	PREHEATING TEMP (DEG C)
1	6	110	180-200	400-450
2	8	110	180-200	400-450
3	10	120	180-200	400-450
4	12	135	180-200	400-450
5	15	145	180-200	400-450
6	20	160	180-200	400-450
7	25	190	180-200	400-450
8	30	225	180-200	400-450



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