

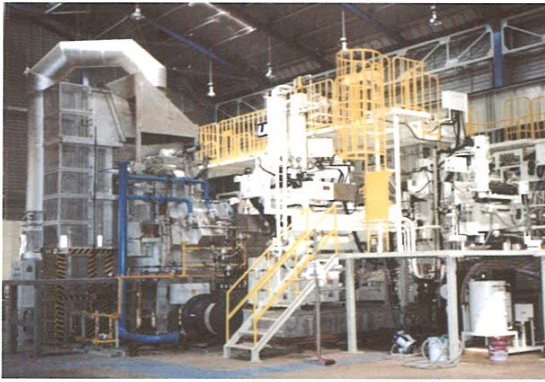
Product Overview



Plants and solutions for the
efficient treatment of aluminium

Aluminium Melting, Holding Furnace

(Continuous Tower Type / Gas Heated)



KTTM, Bangalore - 2003

- Optimum fuel efficiency by pre-heating of incoming ingots / return material by outgoing exhaust gas.
- Special High Impact Resistance Refractories for longer life.
- Gas Heating with Long Luminous low temperature flame burners operate with low excess oxygen.
- Immersion type burners in holding chamber for indirect heating to reduce oxidation of aluminium.
- Ingot / return material charging from top by elevator mechanism.
- Safety Features like low/high molten metal level, excess temperature of molten metal and exhaust gas, flame failure, gas/air low pressure, etc.
- Computerised process monitoring.
- Fuel consumption 7,00,000 kCal/T of Al. During melting
- Standard capacities : 100 kg/hr to 1500 kg/hr.

Aluminium Melting Furnace

(Batch-Tilting Type / Gas Heated)



SPIL, Manesar - 2003

- Special High Impact Resistance Refractories.
- Long Luminous low temperature flame burners operate with low excess oxygen.
- Ingot / return material charging from top by special skip type basket / charging conveyor.
- Electro-hydraulic tilting arrangement for pouring aluminium.
- Safety Features like low/high molten metal level, excess temperature of molten metal and exhaust gas, flame failure, gas / air low pressure, etc.
- Fuel consumption 7,50,000 kcal/T of Al. During melting
- Standard capacities : 500 kg/hr to 2000 kg/hr.

Solutionising and Ageing (T6) Furnace

(Continuous Roller Hearth Type / Gas Heated)



SPIL, Manesar - 2003

- Mono-bloc gas burners with auto ignition / UV flame monitoring.
- High capacity re-circulating fans
- Special adjustable baffles and vanes
- Temperature uniformity better than +/-5degrees. C
- Checked with 9 traveling T/ cs attached to the components.
- Sand collection through pneumatically operated dampers
- Transfer of collected sand through vibratory feeder
- Automatic transfer of sand from water quenching tank
- Tray transfer automation by PLC control system
- Computerised process monitoring.
- Gas consumption 5,00,000 kCal/T of Al. (Solu. and ageing).
- Standard capacities : 500 kg/hr to 2000 kg/hr.

Sand Baking Furnace

(Continuous Roller Hearth Type / Gas Heated)



SPIL, Manesar - 2003

- Mono-bloc gas burners with auto ignition / UV flame monitoring.
- High capacity re-circulating fans
- Special adjustable baffles and vanes
- Temperature uniformity better than +/-10 degrees. C
- Checked with 9 traveling T/ cs attached to the components.
- Sand collection through pneumatically operated dampers
- Transfer of collected sand through vibratory feeder
- Tray transfer automation by PLC control system
- Computerised process monitoring.
- Gas consumption 3,50,000 kCal/T of Al.
- Standard capacities : 500 kg/hr to 2000 kg/hr.

Aluminium Melting, Holding Furnace

(Continuous Tower Type / Gas Heated)



HMSI, Manesar - 2008

- Optimum fuel efficiency by pre-heating of incoming ingots / return material by outgoing exhaust gas.
- Special High Impact Resistance Castables for longer life.
- Gas Heating with Long Luminous low temperature flame burners operate with low excess oxygen.
- Immersion type burners in holding chamber for indirect heating to reduce oxidation of aluminium.
- Ingot / return material charging from top by elevator mechanism.
- Electropneumatically operated charging and slag removal doors
- Auto tapout system (electropneumatically operated) with launder for transfer of molten metal into ladle
- Rotary degassing system (optional)
- Safety Features like low/high molten metal level, excess temperature of molten metal and exhaust gas, flame failure, gas/air low pressure, etc.
- Computerised process monitoring.
- Fuel consumption 7,00,000 kCal/T of Al. During melting
- Standard capacities : 100 kg/hr to 1500 kg/hr.

Aluminium Melting, Holding Furnace

(Continuous Tower Type / Gas Heated)



HMSI, Manesar - 2008

Auto tapout system (electropneumatically operated) with launder for transfer of molten metal into ladle

Aluminium Melting, Holding Furnace

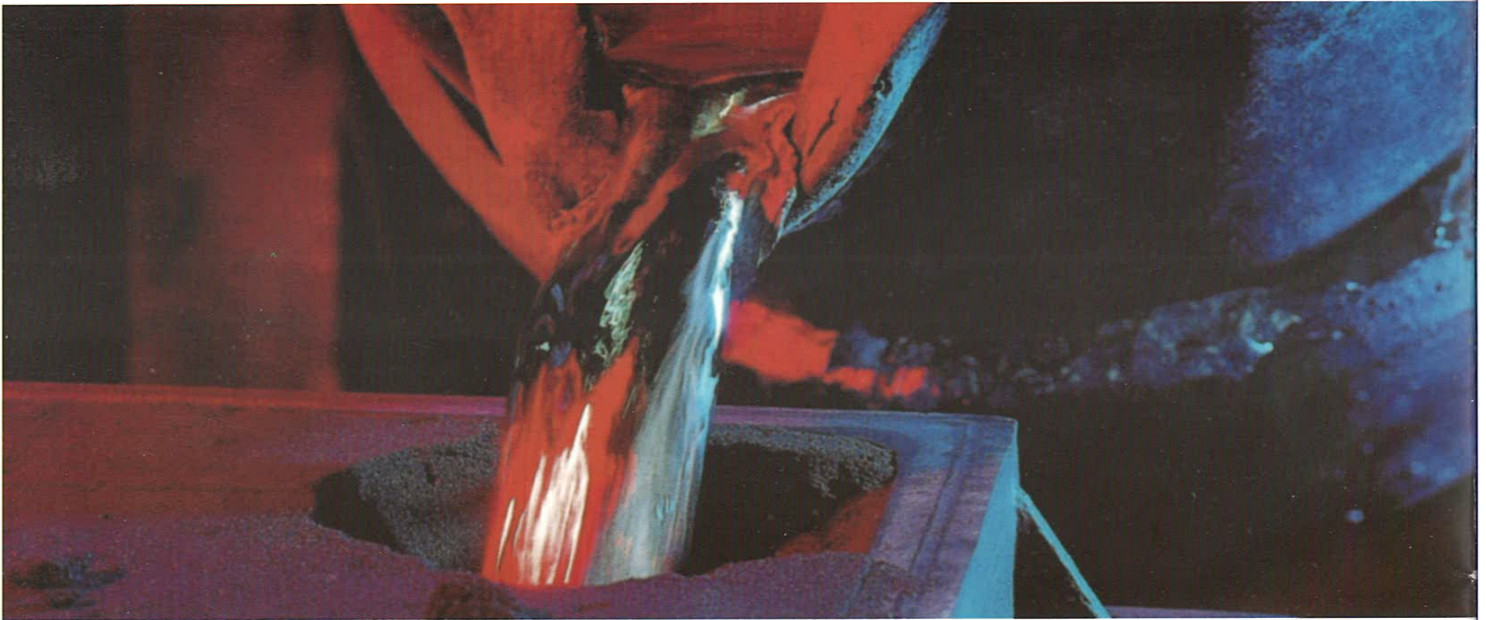
(Continuous Tower Type / Gas Heated)



HMSI, Manesar - 2008

Electropneumatically operated charging and slag removal doors

Product Overview



Plants and solutions for the efficient treatment of aluminium

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