

KGC**KGC RESOURCES****KGC RESOURCES SDN BHD** (Co. no. 223165D)

Office: No. 2-2-3, Jalan Setia Prima E, U13/E, Seksyen U13

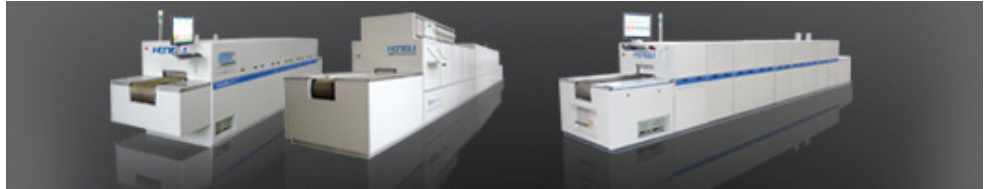
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Website: <http://www.kgcsientific.com>

CIDB LICENSE : 1991124-SL054439

MOF LICENSE: 357-02067811

HENGLI**TORREY HILLS
TECHNOLOGIES, LLC**

HSK SERIES FAST FIRE FURNACE



Features

- Rated to 1,050°C, the HSK Series rapid firing furnace features an ultra-clean low-mass refractory heating chamber. The HSK model heats from ambient to 1,050 °C in approximately 40 minutes, and is designed to sustain continuous on/off heating and cooling cycles resulting from alternating periods of production and non-use.
- Uniform temperature distribution
- Atmosphere distribution and management system eliminate thermal shock and process contamination.

Applications

HSK series belt furnaces serve diverse industries such as microelectronics packaging, which includes IC, SMT, HIC, MCM and MEMS applications, and advanced materials, including thick film, electronic component, photovoltaic cells, ceramics and metals processing applications.

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Sample HSK Thick Film Fast Fire Belt Furnace Specifications

Specification	HSK2505-0611	HSK3505-0711	HSK6305-0711
Rate Temperature	1050 deg. c	1050 deg. c	1050 deg. c
Belt Width	250mm/10"	350mm/14"	635mm/25"
Tunnel Height	50mm/2"	50mm/2"	50mm/2"
Heating Length	2700mm/106"	3150mm/124"	3220mm/127"
Cooling Length	1200mm/47"	1300mm/51"	1200mm/47"
Control Zones	6	7	7
Conveyor Speed	30-200mm(1.2"-8")/min	30-200mm(1.2"-8")/min	40-200mm(2"-8")/min
Overall System Width	1200mm/47"	1200mm/47"	1400mm/55"
Overall System Length	6905mm/272"	7000mm/276"	7000mm/276"
Overall System Height	1350mm/53"	1350mm/53"	1350mm/53"
Typical Temp. Uniformity	+/- 2 deg. c	+/-2 deg. c	+/-3 deg. c
Net Weight	1200kg	1600kg	2000kg
Power	240V, 3 phase, 60HZ, 5 wire, 42KVA	240V, 3 phase, 60HZ, 5 wire, 42KVA	240V, 3 phase, 60HZ, 5 wire, 56KVA
Spare Part	1 set heating board, 1 solid relay, 2 relays, 2 switches	1 set heating board, 1 solid relay, 2 relays, 2 switches	1 set heating board, 1 solid relay, 2 relays, 2 switches

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Other HSK Thick Film Furnace Products:

Model	Control Zone	Belt Width	Overall Length
HSK2012-0310	3	200mm	4075mm
HSK3005-0611	6	300mm	5705mm
HSK3005-0711	7	300mm	5705mm
HSK3506-1011	10	350mm	10595mm

Our dedicated engineers will always take the extra step to work with clients for customized designs.



HSG SERIES THICK FILM DRYING FURNACE



Features

- Infrared Heating
- SUS Belt Conveyor and Tunnel
- Long Entrance and Exit Table
- Perfect Exhaust Design

Applications

Drying and curing, such as thick film circuit, paste on SMD terminal, etc.

Advantages

Highly efficient; Super light insulation materials; Energy efficient; Multi-zone control; Convenient adjustment.

HSG Series Drying Furnace Models

Model	Control Zone	Belt Width	Overall Length
HSG2705D-0304	3	270mm	8150mm
HSG3004-0304	3	300mm	3630mm
HSG5502-0404	4	550mm	3645mm
HSG6002-0304	3	600mm	3630mm
HSG6310-0503	5	630mm	7335mm

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HSG6005-0304 Drying Furnace Specifications

Specification	HSG6005-0304
Rate Temperature	350 deg.c
Operation Temperature	RT+20-300 deg.c
Belt Width	600mm/24"
Heating Length	1500mm/59"
Control Zones	3
Speed Range	50-450mm(2"-18")/min (other speed range as required)
Outside Dimension	L3700mm/146" x W1200mm/47" x H1530mm/60"
Net Weight	500kg
Power	240V, 3 phase, 60HZ, 5 wire, 15KVA
Spare Part	2 heating tubes, cooling fan

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HSH SERIES INFRARED PHOTOVOLTAICS BELT FURNACE



Features

- IR lamp Heating element
- Fast cooling and stable driving design
- Work up to 6000 mm per minute for contact pastes firing
- Special designed heating layout and atmosphere system and chambers structure works ultra effectively for solar cell firing.

Applications

Equipped with IR lamp heating, this furnace is designed for solar cell firing.

Advantages

Infrared lamp heating; High speed; Highly efficient; High uniformity; Energy efficient; Environmentally friendly.

HSH Series Solar Cell Processing Furnace

Model	Control Zone	Belt Width	Overall Length
HSH2503-0310	3	254mm	7000mm
HSH2503-0510	5	250mm	4290mm
HSH3003-0607Z	6	300mm	4460mm
HSH3003-0910	9	300mm	13855mm
HSH3803-0708	7	380mm	9780mm
HSH7503-0807	8	750mm	22375mm

HSH2503-0310 Solar Cell Processing Furnace Specifications

Specification	HSH2503-0310 Solar Cell Firing Furnace
Max Temperature	1000 deg. c
Working Temperature	100~950 deg. c.
Belt Width	254mm/10"
Tunnel Height	30mm/1.18"
Heating Length	1250mm/49.25"
Control Zones	3
Speed Range	600 ~ 4000mm (24"-157.6")/min
Outside Dimension	L7000mm/276" x W1400mm/55" x H1350mm/53"
Net Weight	1200kg
Power	230-600V, 3 phase, 50-60HZ, 4-5 wire

HSK SERIES PHOTOVOLTAIC BELT FURNACE



Description

For processing of Dye Sensitized Solar Cells, this sintering furnace allows the titanium dioxide nanocrystals to melt partially together in order to ensure electrical contact and mechanical adhesion on the glass. FEC (fully enclosed coil) heaters are located on the top and bottom of the process chamber. The furnace is integrated with clean stainless steel muffle and nitrogen atmosphere distribution system.

Advantages

Fast thermal response; Uniform and stable temperature control; Energy efficient; Perfect for Dye Sensitized Solar Cell processing.

HSK3505-0711N Belt Furnace Specifications

Specification	HSK3505-0711N
Max Temperature	1050 deg.c
Operation Temperature	200-900 deg.c
Belt Width	350mm/14"
Heating Length	3220mm/127"
Control Zones	7
Speed Range	40-200mm(2"-8")/min (other speed range as required)
Tunnel Height	50mm/2"

HSG SERIES INFRARED PHOTOVOLTAICS DRYING FURNACE



Features

- Heating Element: Far Infrared Heater
- Japanese made Shimadan single loop intelligent temperature controller, PID control, parameter auto-tuning
- Non-contact exhaust
- Alarm protection

Applications

Atmosphere system; Forced exhaust system; Temperature profiling system; Computer monitoring system.

Advantages

Highly efficient; Super light insulation materials; Energy efficient; Multi-zone control; Convenient adjustment.

HSG Series Solar Cell Processing Furnace Models

Model	Control Zone	Belt Width
HSG3003-0402	4	300mm
HSG5502-0403	4	550mm

HSG3003-0402 Solar Cell Drying Furnace Specifications

Specification	HSG3003-0402 Solar Cell Drying Furnace
Max Temperature	200 deg. c
Working Temperature	RT~110 deg. c.
Belt Width	300mm/12"
Tunnel Height	24mm/1"
Heating Length	1200mm/47"
Control Zones	4
Speed Range	45 ~ 285mm (2"-11")/min
Outside Dimension	L2830mm/111" x W1000mm/39" x H1350mm/53"
Net Weight	500kg

HSG5502-0403 Solar Cell Drying Furnace Specifications

Specification	HSG5502-0403 Solar Cell Drying Furnace
Max Temperature	300 deg. c
Working Temperature	RT~250 deg. c.
Belt Width	550mm/22"
Tunnel Height	15mm/1.18"
Heating Length	2500mm/100"
Control Zones	4
Speed Range	250 ~ 1500mm (10"-60")/min
Outside Dimension	L5100mm/204" x W1100mm/44" x H1500mm/60"
Net Weight	1200kg

HSA SERIES HIGH TEMPERATURE ATMOSPHERE BELT FURNACE



Features

- Temperature profiling system
- Computer monitoring system
- Hydrogen, nitrogen, oxygen atmosphere control
- Oxygen monitoring system
- Dew point monitoring
- Ultrasonic belt cleaning system
- Clean environment application

Applications

Sealing, metalizing, brazing, oxidizing, annealing in protected atmosphere for chip bonding, electronic packaging, HTCC, DBC, VFD, PDP, heat exchanger, and so on.

Advantages

Temperature profiling system; Oxygen monitoring; Dew point monitoring; Clean environment applications.

HSA Series Atmosphere Belt Furnace Models

Model	Control Zone	Belt Width	Overall Length
HSA1301-0610NH	6	125mm	7335mm
HSA1506-0711NH	7	150mm	7335mm
HSA2006-0612NH	6	200mm	7335mm
HSA4614-1108NH	11	460mm	13855mm
HSA6305-0811NH	8	630mm	8150mm
HSA7505-0608NH	6	750mm	8965mm

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