

# INTEON PRODUCT CATALOGUE

# INTEON



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Magazine racks designed for electronic industry manufacturers to storage and carry PCB-boards. The magazine racks are available in two types: metal or plastic. The fixing method of width depends on the type and could be by screw or gear. The heat resistance of the basic models are 80°C or 120°C, but we can offer a model with 200°C heat resistance as well. On request we are open to make custom made modifications.

	Article number	Base material	Temp. °C	Fixing method	L mm	W mm	H mm	Page
<b>MAGAZINE RACKS</b>	IE-7711301A	Plastic	80	Screw	355	315	580	4
	IE-7711301A-1	Plastic	80	Screw	355	315	315	4
	IE-7711301B1	Metal	80	Handle	355	320	563	5
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	IE-7711301B2G	Pastic	120	Handle	355	320	563	8
	IE-7711301B3	Metal	80	Handle	355	320	563	8
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	IE-7711301B4	Plastic	80	Handle	355	320	563	9
	IE-7711301B4G	Metal	120	Handle	355	320	563	10
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	IE-7711301S	Plastic	80	Chain	355	320	570	13
	IE-7711301F	Metal	80	Screw	630	530	570	14
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# INTEON

## REFLOW OVENS



## CONVEYORS



## BGA REWORKS



## DRY CABINETS



## ESD RACKS



**INTEON**

**REFLOW  
OWENS**

**2 YEAR  
FULL  
WARRANTY**

**5 YEAR  
FOR HEATER  
AND BLOWER  
SYSTEM**







# INTRODUCTION



INTEON reflow ovens are build for the middle and high volume productions which allows attractive price and high quality performance for lead free process. INTEON reflow soldering systems assure an optimum of process stability by innovative technology. All the electrical system totally match the European quality standard and other international safety standard. We are offering energy saving, flexible or economical systems to find the best solution for your production even you are manufacturing OEM or own LED/SMT products.

## WARRANTY

Best in the industry warranty – 2 years full warranty and 5 years for the heaters and blowers system.

## SUPPORT

For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories.

## ON-SITE VISIT

In case if any of our products aroused your interest INTEON would be glad to visit your company and hold a presentation of the product of your interest. Major machines also could be observed at our partners' site.

## OFFERS

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website ([www.inte-on.com](http://www.inte-on.com)), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.

## RT Series Reflow oven with 8-10-12 heating zones

### HIGH CLASS ENERGY SAVING



### MAIN FEATURES

- Combination pin chain and mesh belt conveyors (Standard)
- Motorized width adjust (Optional: PC control width adjustment)
- 3 independent cooling zone with up and down (standard)
- Full updated thermal transfer and preservation technology to reduce power consumption
- Full new Flux collection system (Standard)
- Windows 7. Operator interface
- Smema communication
- Light tower
- Uninterruptible power supply
- Guaranteed Lead Free process ready
- 300°C high temperature processing capabilities
- Comprehensive warranty
- Automatic edge rail lubrication system
- Board counter
- Board drop detection
- Dual lane conveyor with independent speed control (Optional)
- Dual lane with dual center support system (Optional)
- Full nitrogen system (Optional)

## RT series reflow oven - 8-10-12 heating zones

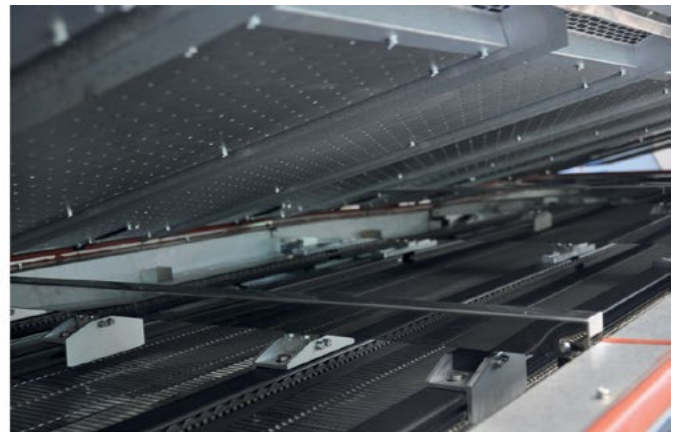
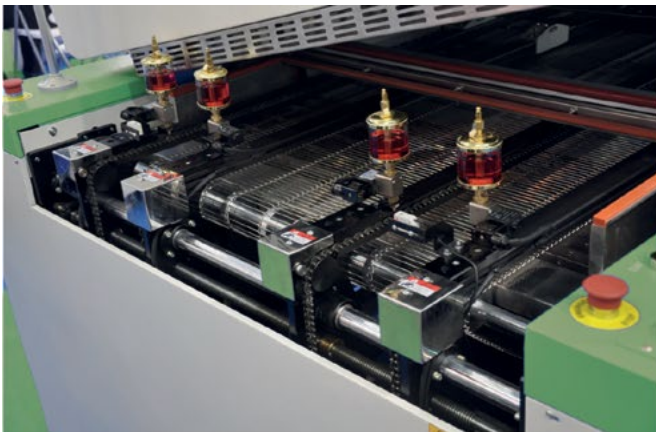
**RT reflow soldering systems assure an optimum of process stability by innovative technology and are equipped with the following advantages:**

Special process chamber system for optimal temperature uniformity.

Independent air velocity controlling system allows flexible process control to easy handle complicated lead free soldering requirements.

Efficient power design and heat management system greatly improves energy savings while lowering carbon emissions.

Multi-stage condensate filter at the cooling zone for efficient cleaning.





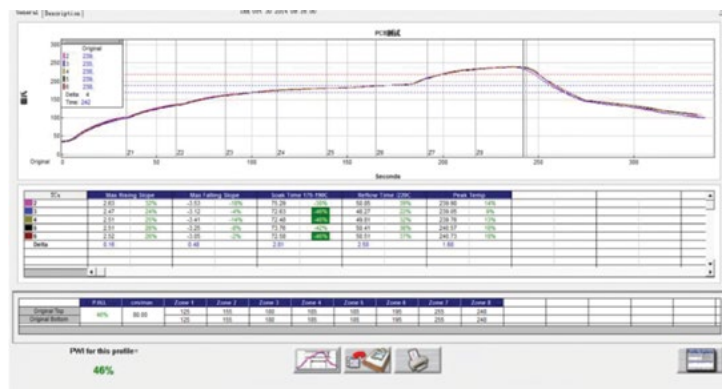
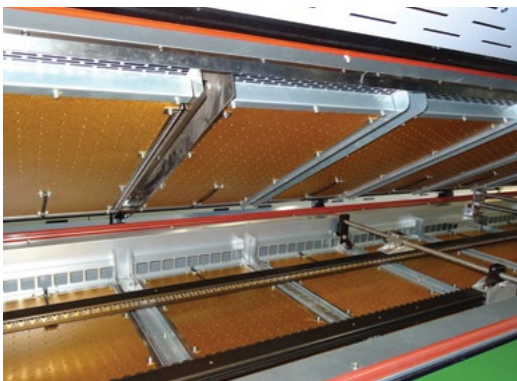
## Excellent thermal convection system

**Efficient power design and heat management system greatly improves energy savings while lowering carbon emissions.**

- Power savings of 15 to 20 %, due to large aluminum alloy heat plates.
- **Double isolation** around the body prevents heat loss
- Short warm-up time
- Low power consumption: 9 Kw to 10.5 kW (8 zones), 10 to 12.5 kW (10 zones)
- New and improved highly effective exhaust design with piping in each zone to extract flux.

The cooling configuration recycles the filtered air or N2 back to the oven chamber reducing thermal loss while getting better flux reclamation.

- Two powerful fans force recirculated cooled air into the cooling zone
- Total cooling length: 800 mm (31.5")
- Filtration system is easily accessible for quick maintenance and Easy access to cooling panels for quick maintenance.



Provide Maximum heat capacity to rapidly reach temperature setting points at low rates of power consumption within a short period of time. The special process chambers de-sign makes the air convection uniformly and temperature profile changeover easily.

Profile spikes per zone is eliminated with better zone segregation and decrease cross flow. The nozzle plate design allow to cover the boards with hot air in all direction for good uniformity.

In a reflow oven, the efficiency of the heat transfer has a primary effect on all aspects of quality. Productivity and running costs which directly influence profitability. Our heat transfer guarantee a minimum  $\Delta T$  which translates into maximum profile flexibility.

Our heater generate the desired temperature faster than any other reflow heat source and respond in less than half a second to temperature change of less than 0.1°C thus maintaining the highest level of temperature repeatability.

## RT series reflow oven - 8-10-12 heating zones

Due to our secure transport system you receive a stable process while reducing maintenance expenses and machine downtime. The standard conveyor system is equipped with mesh and chain rail which ensure the repeatability for 24/7 3 shift production.

Maintains rail width distance at high temperature environment with only +/- 1.0mm to keep the boards transportation stable and avoid board dropped and misalignment.

With dual lane, production becomes simpler and faster with top and bottom run in a single oven.

Provides more production space, less assets and operational cost saving.

Independent motor per lane to control the speed possibly to run different kinds of PCBs simultaneously with different temperature profile.

### THE RT ADVANTAGE

- INTEON has a tradition of providing quality equipment and excellent service support
- **Best in the industry warranty - 2 years full warranty and 5 years for the heaters and blowers systems**
- Lifetime free software upgrades
- Lifetime free training at customer location
- More standard features than any other oven available in the market



Dual lane with dual independent speed



Center support system with packing position



### POWERFUL COOLING ZONE

Cooling zone is achieved with 3 top and bottom zones allowing adjustable convection speed for desired cooling slope.

Water chiller cooling system is optional.

The fans in the individual zones, which can be controlled separately as an option, allow for accurate control, and cooling gradients can be correspondingly influenced. This assures stress-free cooling for your PCBs, for lead-free soldering as well.

### CE QUALITY ELECTRICAL SYSTEM

Assembled with known branded parts:

Lenovo PC, SIEMENS PLC, AB American controller, Schneider switch, Panasonic motor, Carlo Gavazzi relay, etc.

All the electrical system totally matches the European quality standard and other international safety standard.

### PROFILE MONITORING

Provides profile monitoring solutions with per product per line, per board etc.

Built-in KIC integrated real-time monitoring (Optional).



## RT series reflow oven - 8-10-12 heating zones

Items	Description		
Model	RT-0803	RT-1003	RT-1203
Machine dimensions (L*W*H) mm	5581*1400*1522	6372*1400*1522	7187*1400*1522
Standard color	Ivory white	Ivory white	Ivory white
Numbers of heating zone	8 zone (top and bottom)	10 zone (top and bottom)	12 zone (top and bottom)
Lengths of heating zone	3124mm	3894mm	4709mm
Numbers of cooling zone	3 zone (top and bottom)		
Nozzle plate	Aluminum plate		
Exhaust volume	10 m <sup>3</sup> / min*2		
Flux collection system	Standard configuration		

Control system			
Power supply	3 Phase, 400V 50/60 Hz		
Total power	64KW	80KW	92KW
Startup power	28KW	34KW	38KW
Normal power consumption	7KW	8KW	9KW
Warming time	Approx. 30 min		
Temperature setting range	Room temperature to 300°C		
Temperature control method	PID Close loop control + SSR driving		
Temperature control precision	+/- 1°C		
Temperature deviation on PCB	+/- 1.5°C		
Cooling method	Forced air cooling (Optional: Water-chiller)		
Data storage	Process data and status storage (80GB)		
Abnormal alarm	Temperature abnormal alarm		
Board dropped alarm	Standard (Tower light and Buzzer)		

Conveyor system	
Rails structure	subjection integrated type
chain structure	singled buckle (Optional: Double buckle)
Max.PCB width	50 mm to 400 mm (single lane,optional: 50 mm, 610 mm)
Components clearance	Top/ bottom clearance of boards: 25 mm
Conveyor direction	L to R/(Optional: R to L)
Fixed rail side	Front rail Fixed
Conveyor speed range	300 - 20000 mm/min
Conveyor heights	900 mm+/-20 mm
Conveyor method	Chain + mesh as standard (Optional: Chain+ center support system)
Chain Lubrication	Automatic (standard)

Optional configuration	
Full nitrogen system	Nitrogen hermetic configuration, nitrogen flow meter, water chiller, oxygen analyzer (PPM control: 300-1000PPM, 18—20m <sup>3</sup> /hr, single lane oven)
Center support system	Unique retractable, special parking position with Maximum flexible
Water chiller cooling	Optional
Dual lane conveyor	Conveyor width: Min. 50 mm*50 mm in each lane, Max. 300 mm * 300 mm in each lane, Rail 1and Rail 4 are fixed, Rail 2 and Rail 3 are adjustable
Dual lane dual speed	Independent conveyor speed in each lane
Dual lane dual center support system	Independent conveyor speed of chain and center support system in each lane

## RH Series Reflow oven with 6-8-10-12 heating zones

### HIGH CLASS FLEXIBLE SYSTEM



### MAIN FEATURES

- Combination pin chain and mesh belt conveyors (Standard)
- Motorized width adjust
- Flux collection system (Standard)
- Windows 7 Operator interface
- Smema communication
- Light tower
- Uninterruptible power supply
- Guaranteed Lead Free process ready
- 300°C high temperature processing capabilities
- Comprehensive warranty
- Automatic edge rail lubrication system
- Board counter
- Board drop detection
- Dual lane conveyor with independent speed control (Optional)
- Dual lane with dual center support system (Optional)
- Full nitrogen system (Optional)

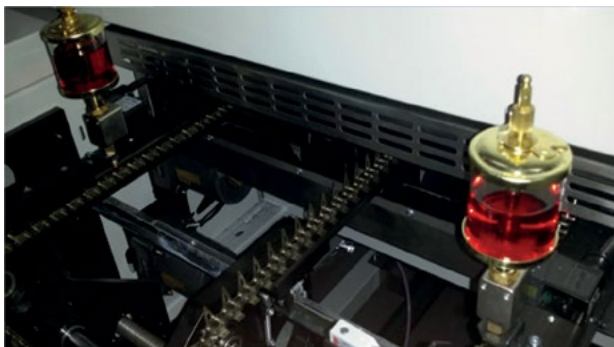
## RH series reflow oven - 6-8-10-12 heating zones



Independent air velocity controlling processing system allows flexible processing control to easily handle complicated lead free soldering requirements.

The RH-0802 has 2 ramp up zones, 4 soaking zones, 2 reflow zones, and 2 cooling zones.

Profile spikes per zone is eliminated with better zone segmentation and decrease cross flow. Hole designs allow to cover the board with hot air in all direction for good uniformity.

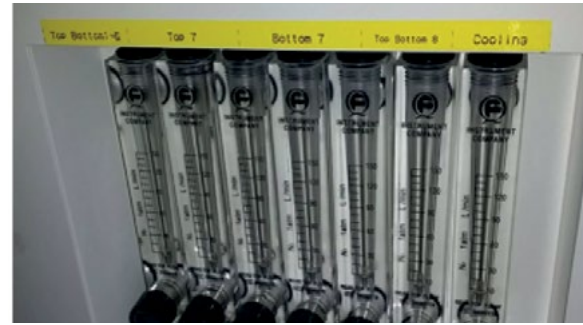
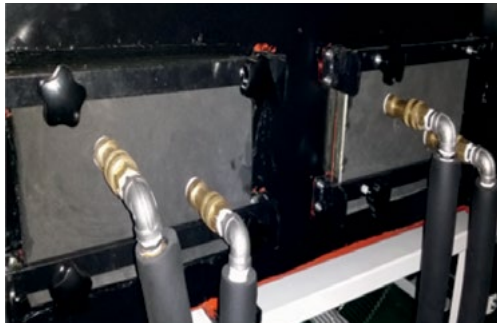
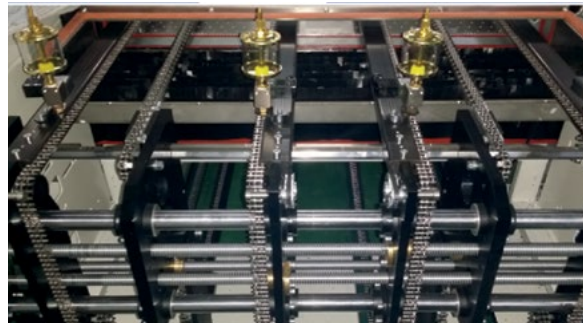


Center support system for preventing the de-formation of PCB board puzzle (Optional)

The unique retractable center support system is easy to use with maximum flexibility. It can hide itself when not used and will not hit the components on double sided boards or boards with long components leads.

Efficient flux collection system is standard features. Both front-back end exhausts are installed with quick release metallic filters similar with the heat exchanger for less and easy maintenance.





## Closed loop nitrogen control system (Option)

To maintain stable user-selected oxygen PPM levels automatically. A wide range of PPM levels can be selected with nitrogen consumption rate as low as depending upon board size. An internal oxygen sensor and proportioning valve is used to minimize nitrogen consumption and related costs by up to 50%! Use completely sealed design inside the chamber of oven to be effective protection for nitrogen, the nitrogen content of the minimum can be as low as 150 ppm. Under the circumstances of 300-800 ppm oxygen, the consumption of nitrogen is lower than 18 m3/hour.

## Best cost-efficient dual lane reflow oven in the world.

With dual lane, production becomes simpler and faster with top and bottom run in a single ovens. It provides more production space, less assets and operations cost saving. Independent motor per lane to control the speed possibly to run different kinds of PCBs simultaneously with different temperature profile.

## The RH Advantage

- INTEON has a tradition of providing quality equipment and excellent service support
- Best in the industry warranty 2 years full warranty and 5 years for the heaters and blowers systems
- Lifetime free software upgrades
- Lifetime free training at customer location
- More standard features than any other oven available in the market

# RH series reflow oven - 6-8-10-12 heating zones

Items	Description			
Model	RH-0602	RH-0802	RH-1002	RH-1202
Machine dimensions (L*W*H) mm	4100*1384*1492	5581*1400*1522	6372*1400*1522	7187*1400*1522
Standard color	Ivory white	Ivory white	Ivory white	Ivory white
Numbers of heating zone	Top 6/ bottom 6	Top 8/ bottom 8	Top 10/ bottom 10	Top 12/ bottom 12
Lengths of heating zone	2358 mm	3124 mm	3894 mm	4709 mm
Numbers of cooling zone	Top 1 Forced air cooling		Top 2 Forced air cooling	
Nozzle plate	Aluminum plate			
Exhaust volume	10m³/min *2 channel exhaust			
Flux collection system	Standard configuration			

## Control system

Power supply	3 phase, 400V 50/60Hz (Optional: 3 phase, 230V 50/60V)			
Total power	52KW	64KW	80KW	92KW
Startup power	26KW	28KW	34KW	38KW
Normal power consumption	6KW	7KW	8KW	9KW
Warming time	Approx. 30 min			
Temperature setting range	Room temperature to 300°C			
Temperature control method	PID Close loop control + SSR driving			
Temperature control precision	+/- 1°C			
Temperature deviation on PCB	+/- 1.5°C			
Cooling method	Forced air cooling (Optional: Water-chiller)			
Data storage	Process data and status storage (80GB)			
Abnormal alarm	Temperature abnormal alarm			
Board dropped alarm	Standard (Tower light and Buzzer)			

## Conveyor system

Rails structure	subjection integrated type	
chain structure	singled buckle	singled buckle (Optional: Double buckle)
Max.PCB width	400 mm	50 mm to 400 mm (single lane,optional: 50 mm,610 mm)
Components clearance	Top/ bottom clearance of boards: 25 mm	
Conveyor direction	L to R/ (Optional: R to L)	
Fixed rail side	Front rail Fixed	
Conveyor speed range	300 – 20000 mm/min	
Conveyor heights	900 mm+/-20 mm	
Conveyor method	Chain + mesh as standard (Optional: Chain+ center support system)	
Chain Lubrication	Automatic (standard)	

## Optional configuration

Full nitrogen system	Nitrogen hermetic configuration, nitrogen flow meter, water chiller, oxygen analyzer (PPM control: 300-1000PPM, 18—20m <sup>3</sup> /hr, single lane oven)			
Center support system	Unique retractable, special parking position with Maximum flexible			
Water chiller cooling	Optional			
Dual lane conveyor	Conveyor width: Min. 50 mm*50 mm in each lane, Max. 300 mm * 300 mm in each lane, Rail 1and Rail 4 are fixed, Rail 2 and Rail 3 are adjustable			
Dual lane dual speed	Independent conveyor speed in each lane			
Dual lane dual center support system	Independent conveyor speed of chain and center support system in each lane			



## RC Series Reflow oven with 6-8-10-12 heating zones

### STANDARD CLASS ECONOMIC SYSTEM



### MAIN FEATURES

- Combination pin chain and mesh belt conveyors
- Motorized width adjust
- Flux collection system
- Windows operator interface
- Smema communication
- Light tower
- Uninterruptible power supply
- Guaranteed Lead Free process ready
- 300°C high temperature processing capabilities
- Comprehensive warranty
- Automatic edge rail lubrication system
- Board counter
- Board drop detection

## RC series reflow oven - 6-8-10-12 heating zones

**Independent air velocity controlling system allows flexible processing control to easily handle complicated lead free soldering requirements.**

CS series of reflow oven allows the heating zone temperature controllers have an accuracy of  $\pm 1^{\circ}\text{C}$  and, in conjunction with a high-speed blower adjacent to each heat source for maximum convection, ensure a  $\Delta T$  of  $\pm 2^{\circ}\text{C}$  across the PCB assembly. The CS Series design provides low-velocity, low-turbulence air flow to prevent component shift or disturbance.



**The cooling configuration recycles the filtered air or N2 back to the oven chamber reducing thermal loss while getting better flux reclamation.**

- Two powerful fans force recirculated cooled air into the cooling zone
- Total cooling length: 800 mm (31.5")
- Filtration system is easily accessible for quick maintenance and Easy access to cooling panels for quick maintenance

### **Center support system for preventing the deformation of PCB board puzzle ( Optional)**

The unique retractable center support system is easy to use with maximum flexibility . It can hide itself when not used and will not hit the components on double sided boards or boards with long components leads.

Pin -- Mesh -- Chain Conveyor Meets Virtually Any Product Specification or Production Requirement

The RH series is supplied as standard with an adjustable-rail, pin-type conveyor system that handles PCBs up to a maximum of 400 mm installed over a 500 mm stainless-steel mesh belt. The pin conveyor permits inline and double-sided processing. The mesh belt is ideal for fast changeovers.

To eliminate the possibility of jamming or dropped PCB assemblies, all components are constructed of high-quality, high-strength, stainless steel and are built to maintain dimensional tolerances at the high temperatures of lead-free processing.

Advanced automatic chain lubrication and motorized width adjustment are standard features on the pin conveyor. For processing of larger PCBs at higher lead-free temperatures, a center support system is available to prevent board warpage.

Conveyor speed is programmable from 400-2000 mm/minute to accommodate any process requirement.

Nitrogen Atmosphere Compatible Models Widen Lead-Free Processing Window Through Reduced Oxidation (Option).

To maintain stable, user-selected oxygen PPM levels automatically. A wide range of PPM levels can be selected with nitrogen consumption rate as low as depending upon board size. An internal oxygen sensor and proportioning valve is used to minimize nitrogen consumption and related costs by up to 50%! Use completely sealed design inside the chamber of oven to be effective protection for nitrogen, the nitrogen content of the minimum can be as low as 150 ppm. Under the circumstances of 300-800ppm oxygen, the consumption of nitrogen is lower than 18 m3/hour.

## RC series reflow oven - 6-8-10-12 heating zones

Items	Description			
Model	RC-0602	RC-0802	RC-1002	RC-1202
Machine dimensions (L*W*H) mm	4100*1383*1490	5310*1353*1490	6100*1353*1496	6915*1353*1496
Standard color	Ivory white	Ivory white	Ivory white	Ivory white
Numbers of heating zone	Top 6/ bottom 6	Top 8/ bottom 8	Top 10/ bottom 10	Top 12/ bottom 12
Lengths of heating zone	2359 mm	3121 mm	3891 mm	4706 mm
Numbers of cooling zone	Top 1 zone	Top 2 zones		
Nozzle plate	High quality Steel sheet			
Exhaust volume	10m³/min *2 channel exhaust			
Flux collection system	Standard configuration			

### Control system

Power supply	3 phase, 380V 50/60Hz ( optional : 3 phase, 230V 50/60V)			
Total power	52KW	64KW	80KW	92KW
Startup power	26KW	28KW	34KW	38KW
Normal power consumption	7KW	9KW	10KW	11KW
Warming time	< 15mins	Approx. 30 min		
Temperature setting range	Room temperature to 300°C			
Temperature control method	PID Close loop control + SSR driving			
Temperature control precision	+/- 1°C			
Temperature deviation on PCB	+/- 1.5°C			
Cooling method	Forced air cooling (Optional: Water-chiller)			
Data storage	Process data and status storage (80GB)			
Abnormal alarm	Temperature abnormal alarm			
Board dropped alarm	Standard (Tower light and Buzzer)			

### Conveyor system

Rails structure	subjection integrated type	
chain structure	singled buckle	singled buckle (Optional: Double buckle)
Max.PCB width	400mm ( Optional 610mm )	
Components clearance	Top/ bottom clearance of PCB: 25 mm	
Conveyor direction	L to R/ (Optional: R to L)	
Fixed rail side	Front rail Fixed	
Conveyor speed range	300 - 20000 mm/min	
Conveyor heights	900 mm+/-20 mm	
Conveyor method	Chain + mesh as standard (Optional: Chain+ center support system)	
Chain Lubrication	Auto-lubrication + Manual-lubrication	

### Optional configuration

Full nitrogen system	Nitrogen hermetic configuration, nitrogen flow meter, water chiller, oxygen analyzer (PPM control: 300-1000PPM, 18—20m³/hr, single lane oven)			
Center support system	Unique retractable, special parking position with Maximum flexible			
Water chiller cooling	Optional			
Dual lane conveyor	Conveyor width: Min. 50 mm*50 mm in each lane, Max. 300 mm * 300 mm in each lane, Rail 1and Rail 4 are fixed, Rail 2 and Rail 3 are adjustable			
Dual lane dual speed	Independent conveyor speed in each lane			
Dual lane dual center support system	Independent conveyor speed of chain and center support system in each lane			



The main advantages of using Nitrogen for Pb-Free Assembly in the reflow process v/s atmospheric air are as follows:

## **Improved soldering quality**

Higher surface tension as well as less reoxidation of IC terminals will increase the wetted surface by 20% to 30%, resulting in increasing solder joint strength. Higher surface tension minimizes solder balling when using fine pitch solder paste. Less oxidation also improves the wetting on NiAu and bare copper solder lands.

## **Enlarged Process Window**

The soldering process will be less sensitive to poor solderability and solder lands and component terminals, thereby improving the soldering BGA and CSP devices. This is more applicable for Pb-Free Assemblies that would be RoHS compliant.

## **Other Benefits**

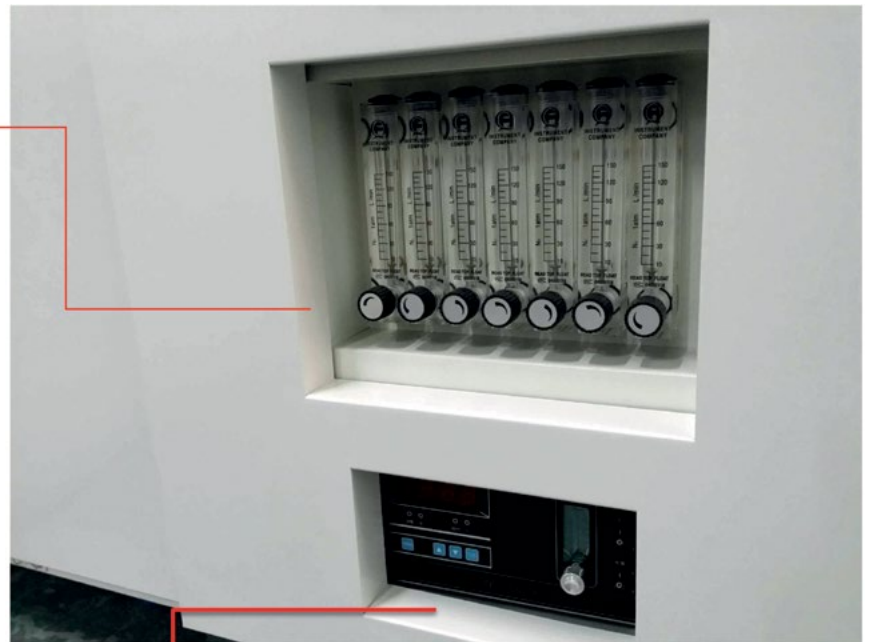
Visual appearance of the solder joint surface will be smoother and shinier, especially for Pb-Free Assembly making it easy to inspect and rework. Larger surface tension can hold larger and heavier components on bottom side when performing double reflow.

## Nitrogen system in reflow ovens

- Our chamber technology delivers highly efficient heat transfer throughout the entire process zone
- Efficient control of convection dynamics provides well-defined transitions between zones
- Patented cooling technologies in top and bottom cooling zones
- Nitrogen control capability: below 1000 ppm/O<sup>2</sup> for lead free when the oven was under heavy board load
- Innovative exhaust flow management significantly reduces cooling zone maintenance
- Lower N<sub>2</sub> consumption levels through optimized design and performance
- Intelligent flux control efficiently collects flux vapors from the reflow zone

### Nitrogen flow meter

Full nitrogen flow in each zone to improve the soldering quality and it is easy to select the nitrogen flow level in each zone according to the end user's requirements.

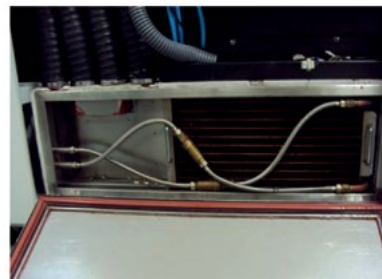
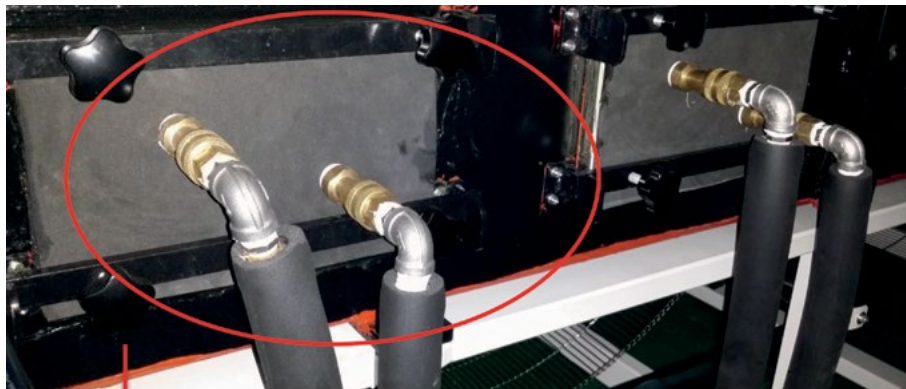




## Oxygen analyzer

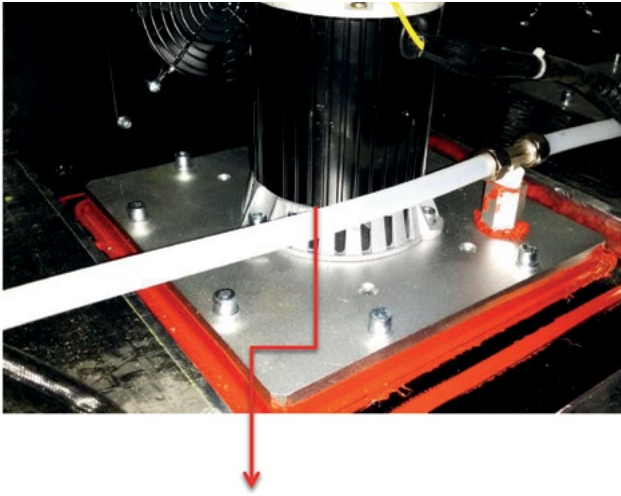
The smart oxygen analyzer is high precision to collect the real PPM level in the oven and also connected it to the computer which can display the real time PPM level.

**Powerful evaporator to improve the cooling effects and it is easy for maintenance.**



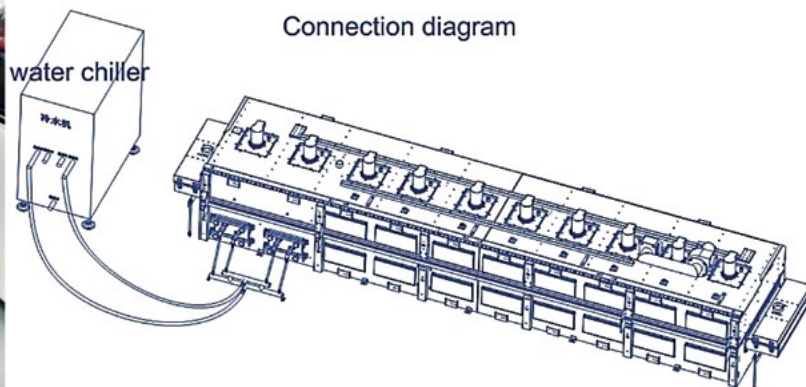
Evaporator of recycling bin

## Nitrogen system in reflow ovens



### Nitrogen flow supply tube in each zone

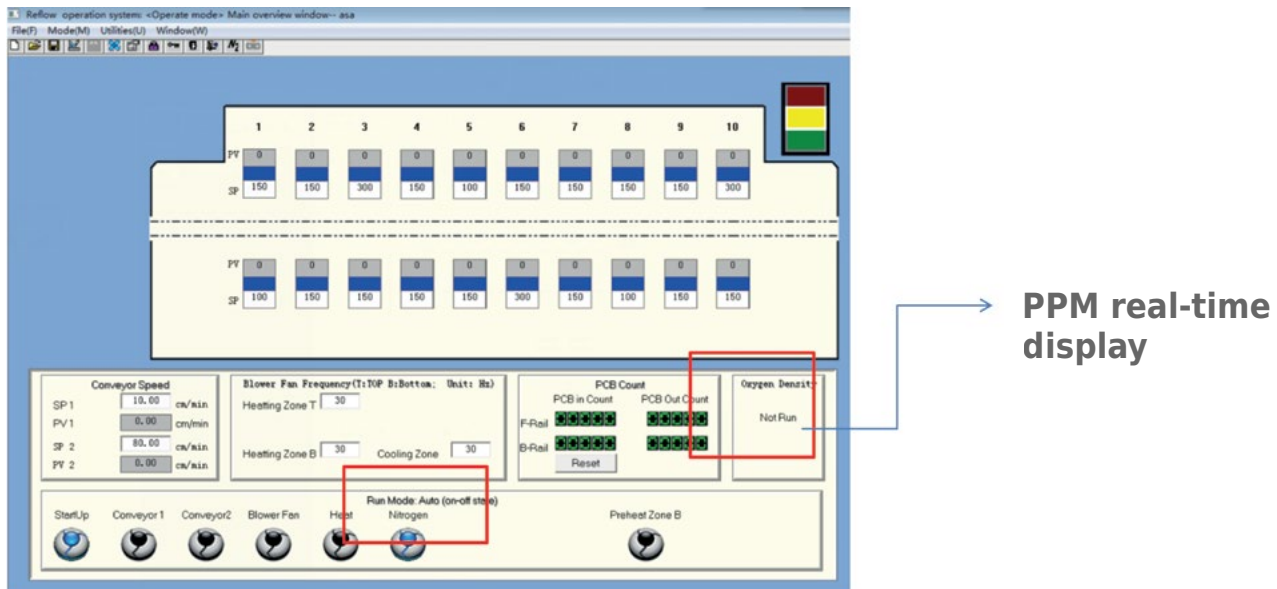
- Multi protection for the nitrogen hermetic channel and each hot air motor.
- Protect from the heat loss and avoid the nitrogen gas leak.
- Nitrogen flow supply is available to set in economic type to save the consumption



### Standard configuration with water chiller.

The external water chiller holds CE certificates and also allow the end users to set the temperature easily.

# Nitrogen system in reflow ovens



Friendly user interface

- Full nitrogen system options includes nitrogen hermetic, nitrogen flow meter, water chiller, oxygen analyzer, and nitrogen flow magnetic valve
- Normally 800 PPM – 1000 PPM for lead free process under heavy board load without any problem
- Nitrogen consumption: 18m<sup>3</sup>/hour to 20m<sup>3</sup>/hour at 800 PPM – 1000 PPM conditions (conveyor width: 400mm)
- All system with CE certificates

# INTEON

## BGA REWORKS







# BGA REWORK STATION

## IE-5800BGA



- **High definition touch screen, PLC control**
- **High positioning accuracy and fast maneuverability**
- **3 independent heating areas**



### FEATURES

#### Adopt liner slide

Which makes X,Y,Z axis all can do precision adjustment or fast positioning, with high positioning accuracy and fast maneuverability.

#### High definition touch screen

PLC control, can save multiple groups profile, password protection and modify function, and can save multiple groups profile, equipped with instant temperature curve analysis function.

#### 3 independent heating areas

There are from top to bottom. The 1st and 2nd are hotair heaters, the 3rd is IR preheating, temperature controlled within  $\pm 3^{\circ}$ . Top heater can be adjusted freely. Top and bottom temperature can control many groups and sections of temperature parameters at the same time. The third IR heater can be adjusted the power consumption.

#### Easy to install and change

Offer all kinds of hot-air nozzle, it can rotate  $360^{\circ}$ . With magnet, easy to install and change, customized is available. Bottom IR heater ensure an even heat for PCB board.

#### High-precision K-type thermocouple

Choose imported high-precision K-type thermocouple, closed loop control and automatic temperature compensation system, combined PLC module for the precision control of temperature.



# BGA REWORK STATION

## IE-5800BGA

### Flexible fixture for PCB positioning

Use a V-groove equipped with a flexible fixture for PCB positioning to protect the PCB from deformation when heated or cooled, and it can rework for any BGA package size. Powerful cross-flow fan rapidly cool the PCB board to improve efficiency, also built-in vacuum pump and external vacuum suction pen, pick up the chips rapidly. After finishing disordering & soldering, there is an alarming.

### Automatic power-off protection device

CE certificate, with emergency stop and Automatic power-off protection device when abnormal accident happens, with a double over-heating protection control.

IE-5800BGA Specifications	
Total Power	4500W
Power	AC 220 V $\pm 10\%$ 50/60 Hz
Top heater power	800W
Bottom heater power	2nd heater 1200W, 3rd IR heater 2400W
Power supply	AC230V $\pm 10\%$ 50/60Hz
Dimension	L535*W650*H600mm
Positioning	V-groove, PCB support can be adjusted in any direction with external universal fixture
Temperature control	(K Sensor) closed loop, independent heating, precision within $\pm 3^\circ$
PCB size	Max 350*330mm Min 20*20 mm
Electrical selection	Highly sensitive temperature control module, Touch screen
Weight	34kg
Package	Wooden Box
G.W.	51KG
Package dimension	L71*W71*H68cm

# BGA REWORK STATION

## IE-6200BGA



- **Superior safety functions**
- **Precise optical alignment system**
- **3 independent heating system**
- **Multi-function operation system**

### FEATURES

#### Superior safety functions

After finish desoldering and soldering, there is alarming, when temperature goes out of control, the circuit will automatically power off, it is of double excess temperature protection function. Temperature parameter has a password to avoid arbitrary changes, with superior safe protection functions, can protect PCB, components and the machine from damage at any abnormal situation.

#### Precise optical alignment system

With optical alignment system and clear images, components can enlarge up to Maximum 230 times, mounting accuracy within  $\pm 0.01\text{mm}$ , with a beam split, zoom in, zoom out and micro-adjust functions, adopted 12" HD monitor.

#### 3 independent heating system

IE-6200BGA is available heating portion of the PCB board by hot-air circulate both from top and bottom at the same time. With large IR bottom heating, it can completely avoid PCB deformation during reworking period, you can use software to choose freely or use top heater or bottom heater departly and combine freely with top and bottom heater's capacity, to make it easies for rework double BGA, CCGA, QFN, CSP, LGA, SMD etc. External sensor socket is precise detected temperature to analyze and proof on actual temperature curve of BGA at the same time.

# BGA REWORK STATION

## IE-6200BGA

### Multi-function operation system

With touch screen interface, k-type thermocouple, close-loop control and Intelligent temperature compensation with automatically system, integrated design of top heater and sucker point. It can auto identify a high degree of suction and

mounting with automatic soldering and de-soldering functions. The temperature can be set to 8 segment and 8 segment constant temperature control, N groups of storage temperature setting parameters according to kinds of BGA chip set.

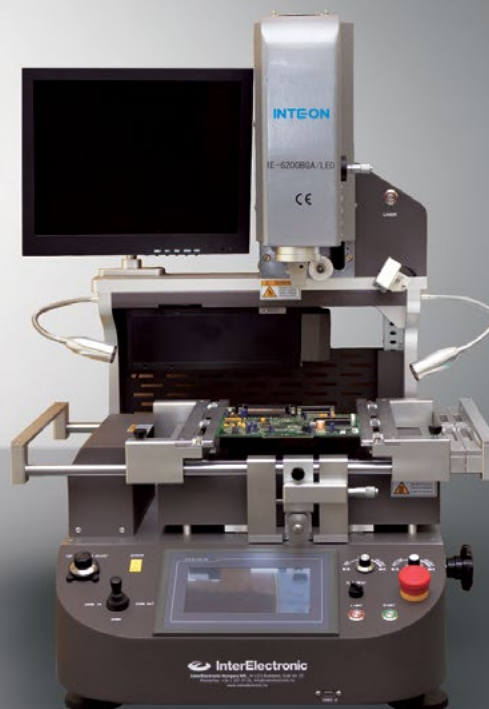
Model	IE-6200BGA Specification
Total Power	Max 5300W
Power	AC 220 V $\pm 10\%$ 50/60 Hz
Top heater power	1200W (1st heater)
Bottom heater power	1200W (2nd heater)
3rd IR heater	2700W (independent controlling left and right IR heaters)
Hot air temperature	400°C (Max)
Preheating temperature	400°C (Max)
Power supply	AC230V $\pm 10\%$ 50/60Hz
Dimension	L640 × W630 × H900mm
Positioning	V-groove + universal fixture
Temperature control	K-type thermocouple (Closed Loop)
PCB size	Maximum: 410 x 370mm, Minimum: 65 x 65mm
Electrical materials	High precision temperature control system
External Temperature sensor	1 piece
Weight	70 kg
Package	Wooden Box

# BGA REWORK STATION

## IE-6200BGA/LED



- **LED suction nozzle**
- **Suitable for LED of tape Packaging and bulk materials**
- **Suitable for multiple micro LED**



### FEATURES

Suitable for LED lamp beads repairing, size of micro LED components not less than 0.6\*0.6mm can be repaired.

Suitable for LED lamp beads of tape packaging and bulk materials. Also any BGA and components which are difficult to repair.

High solution optical alignment system, accurate LED components positioning, ensure precise mounting.

Optical alignment is controlled electrically and rotate automatically.

Mounting head built-in pressure testing device to protect the PCB.

Built-in infrared laser positioning, fast positioning for PCB.

Adopt HIWIN precision guide rail for up and down movement system, ensure reliable and accurate running.

Adopt up and down alignment for top and bottom heater, heating for appointed local zone, prevents PCB to turn yellow.

## BGA REWORK STATION

### IE-6200BGA/LED

Bottom heater up and down manually can adjust the heating height real time.

Adopt ceramics infrared radiator for IR heater, heating stably and uniformly with long serves life.

Human-machine interface has multiple operation mode and permission, soldering, desoldering and mounting manually, easy operation.

High resolution touch screen, which is up to 800\*600 pixels.

Adopt joystick control for alignment system, no need setting complicated parameters.

Adopt Delta double ball bearing flow fan for air supply no need external air source.

Adopt DCCE 8 channel module for temperature control system, automatic PID adjustment.

Monitoring heaters real time, when accident happens, relevant sensors will send signal to PLC which will close output channel and display fault condition. Protect it self automatically.

Adopted 12" HD monitor

Model	IE-6200 BGA LED Specification
Total Power	Max 5300W
Power	AC 230 V $\pm 10\%$ 50/60 Hz
Top heater power	1200W (1st heater)
Bottom heater power	1200W (2nd heater)
3rd IR heater	2700W (independent controlling left and right IR heaters)
Hot air temperature	400°C (Max)
Preheating temperature	400°C (Max)
Power supply	AC230V $\pm 10\%$ 50/60Hz
Dimensions	L640 × W630 × H900mm
Preheating size	370mm × 270mm
Positioning	V-groove, PCB support+laser positioning+universal fixture
Temperature control	K-type thermocouple (Closed Loop)
Chip type	BGA, QGN, CSP, POP, QFN, Micro SMD, LED lamp beads
Available BGA chip	2x2 ~ 80x80mm
PCB size	Maximum: 410 x 370mm, Minimum: 65 x 65mm
Electrical materials	High precision temperature control system
External Temperature sensor	1 piece
Weight	70 kg
Package	Wooden Box



# BGA REWORK STATION

## IE-6800BGA



- **Superior safety functions**
- **Precise optical alignment system**
- **3 independent heating system**
- **Multi-function operation system**

### FEATURES

The top heater can move freely along the X, Y axis in the IR preheating area. It is good for many BGA chips distribution at different positions in the PCB board which need repair. X-shaped infrared laser can do rapid location.

There are 3 independent heaters. The 1st and 2nd hot-air heaters can control multiple groups and segments temperature parameters. The 2nd heater can move up and down. The 3rd large area IR heater can preheat the PCB board fully to ensure no deformation to the board. Temperature, time, slope, cooling, alarming all can be displayed on the touch screen.

High-precision K-type thermocouple with close-loop control, PID auto-tuning system temperature system, combined with Panasonic PLC and highly sensitive temperature module for the precise temperature control, the temperature error controlled within  $\pm 1^{\circ}$ .

4V-groove PCB support, rapid positioning, convenience, accuracy, can fit for all kinds of PCB board. Flexible and removable universal fixture has protective effects and no damage to the PCB board, suitable for all kinds of BGA repair.

High-definition CCD color optical vision system, splitting, amplification, micro-adjust and auto-focus. With automatic color resolution and brightness adjustment device.

Without changing the magnification, the optical lens can be moved manually left and right, back and forth freely. It can observe all aspects of the BGA chip. It displays clearly. The X, Y axis and Z angle with micrometer adjust, precise positioning, alignment accuracy is within  $\pm 0.01\text{mm}$ , 15 TFT LCD Monitor. High automation, no human operations errors.

# BGA REWORK STATION

## IE-6800BGA

CE certification, with emergency switch and automatic power-off protection device when emergency happens. With protective mesh to prevent components falling or human burns happen.

Mounting, welding and dewelding process are intelligent controlled and work automatically. BGA mounting position is controlled accurately. After finishing desoldering and soldering, there is alarming.

Powerful cross-flow fan to cool the PCB board automatically after desoldering and soldering, it can prevent the deformation of PCB board to ensure the welding effect.

With Multifunctional and humanized operation interface, there is "set up Interface" and "operation interface" on the touch screen to prevent wrong operations and setting. Temperature parameter has password protection to stop arbitrary changes.

This machine is equipped with pressure and optical sensors. To control the pressure in 3-10 gr and optical switches, so that it can automatically recognize the suction chip and mounting height, to ensure not crush BGA chip. It can repair Socket775 and double BGA / CGA / IC and various shielding devices, meet the requirement of lead-free process.

Model	IE-6800 BGA Specification
Total Power	Max 7100W
Power supply	AC 230 V $\pm 10\%$ 50/60 Hz
Top heater power	1200W
Bottom heater power	(2nd heater) 1200W
3rd IR heater	3rd IR heater 4200W
Dimensions	890×790×1000mm (LCD stand not included)
Preheating size	370mm ×270mm
Positioning	V-groove, PCB support can be adjusted in any direction with external universal fixture
Temperature control	K-type thermocouple (Closed Loop), heating independently, temperature precision within $\pm 1$ degree
Chip type	BGA, QGN, CSP, POP, QFN, Micro SMD, LED lamp beads
Available BGA chip	2x2 ~ 80x80mm
PCB size	Max 350×450mm ;Min 10×20 mm
Electrical materials	Servo Drive (Panasonic) Touch screen (Taiwan) Panasonic PLC, Heating plate (Germany)
Camera magnification	10x-100x
Optical system	Japanese original high-definition CCD color imaging system, Joystick control
Touch screen	8.0, Resolution 640X480, Panel Visa touch screen, external USB interface
Work Mode	Power drive (Optional gas drive + nitrogen)
External Temperature sensor	Four(optional)
Placement Accuracy	X, Y axis and the Z angle with micrometer adjust, accuracy within $\pm 0.01$ mm
Weight	130kg
Package	Wooden Box

# INTEON

## CONVEYORS







# INTRODUCTION



INTEON conveyors are build for the middle and high volume productions which allows attractive price and high quality performance. INTEON conveyor systems assure an optimum of process stability by innovative technology. All the electrical system totally match the European quality standard and other international safety standard.

## WARRANTY

**Best in the industry warranty - 2 years full warranty**

## SUPPORT

For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories.

## ON-SITE VISIT

In case if any of our products aroused your interest INTEON would be glad to visit your company and hold a presentation of the product of your interest. Major machines also could be observed at our partners' site.

## OFFERS

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website ([www.inte-on.com](http://www.inte-on.com)), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.



## Application

The Single Magazine Loader is used at the starting of the line for loading of PCB's to the production line. The unit loads the production line automatically by pushing PCB's out of a magazine onto the conveyor of the down-stream machine.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 1 magazine loading capability, discharge magazine from the rear of machine SMEMA compliant.
- CE certified.

## Specifications

Model	IE-ST/SB-250A-ML	IE-ST/SB-330A-ML	IE-ST/SB-390A-ML	IE-ST/SB-460A-ML
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
PCB Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1145x1030x1200mm	1355x1120x1200mm	1505x1310x1200mm	1505x1450x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			

# SINGLE MAGAZINE UNLOADER

## Application

The Single Magazine Unloader is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 1 magazine loading capability, discharge magazine from the rear of machine
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-ST/SB-250A-MU	IE-ST/SB-330A-MU	IE-ST/SB-390A-MU	IE-ST/SB-460A-MU
Size	M	L	LL	XL
Power	AC 110/220V $\pm$ 10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 $\pm$ 20mm or Specify			
PCB Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1120x1030x1200mm	1305x1120x1200mm	1480x1310x1200mm	1480x1450x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			

## Application

The Multi Magazine Loader is used at the starting of the line for loading of PCB's to the production line. The unit loads the production line automatically by pushing PCB's out of a magazine onto the conveyor of the down-stream machine.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/MB-250A-ML	IE-CT/MB-330A-ML	IE-CT/MB-390A-ML	IE-CT/MB-460A-ML
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	5kgf/cm2			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
PCB Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1685x745x1200mm	1920x820x1200mm	2165x880x1200mm	2165x950x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			

# MULTI MAGAZINE UNLOADER

## Application

The Multi Magazine Unloader is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/MB-250A-MU	IE-CT/MB-330A-MU	IE-CT/MB-390A-MU	IE-CT/MB-460A-MU
Size	M	L	LL	XL
Power	AC 110/220V $\pm$ 10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 $\pm$ 20mm or Specify			
PCB Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1685x745x1200mm	1920x820x1200mm	2165x880x1200mm	2165x950x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			

## Application



The PCB Conveyor is used in the PCB assembly line when frequent visual inspection of PCB's is required, can be used as an Inspection conveyor or a Linking conveyor.

## Features

- PLC Control system.
- Metal fabricated frame.
- Width adjusting system by hand crank. Electrical width adjustment by switch available on request.
- Variable speed control. Inspection and by pass mode selectable.
- Muti-zone concept available on request.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-M/L-50LD-C	IE-M/L-100LD-C	IE-M/L-100LJ-C
<b>Conveyor Length</b>	500mm	1000mm	1000mm
<b>Power</b>	AC 110/220V $\pm$ 10V, 50/60HZ		
<b>PCB Width</b>	50 - 350mm (-M), 50 - 460mm (-L)		
<b>Transfer Speed</b>	1 - 12m/min adjustable		
<b>Transfer Height</b>	900 $\pm$ 20mm		
<b>PCB Direction</b>	left to right or right to left (option)		
<b>Working Light</b>	N	N	Y
<b>Machine Dimension</b>	500 x 650 x 900mm	1000 x 650 x 900mm	1000 x 650 x 900mm



# MULTI MAGAZINE UNLOADER

## Application

The AOI Rework Conveyor is used for good/bad PCB Separation. The center segment pneumatically move up/down allowing separation without interrupting the flow of good PCB's.

## Features



- Omron PLC Control system.
- Width adjustment by hand crank. Electrical width adjustment by switch available on request.
- Rework and by pass mode selectable.
- 3 belt segments, providing possibility to buffer one failed PCB.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-M-3/150LR-C	IE-L-3/150LR-C
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Width	50 - 350mm	50 - 460mm
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left(option)	
Machine Size	1500x760x1100mm	1500x860x1100mm

## Application

The PCB NG/OK Unloader is used for good/bad PCB separation. The OK and NG PCB after being tested by test machine can be separated and sent to magazines.

## Features



- Omron PLC Control system.
- Touch screen easily operation.
- Good and bad PCB's can be separated automatically with magazine rack.
- Multiple pitches selectable.
- Direction from left to right, or right to left (optional).
- 3 magazines for good PCB's, 3 magazines for bad PCB's loading capability.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT-250A-UNG	IE-CT-330A-UNG	IE-CT-390A-UNG	IE-CT-460A-UNG
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
PCB Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	multiple			
Machine Dimension	1510x1460x1200mm	1910x1630x1200mm	2160x1760x1200mm	2160x1900x1200mm

# MULTIFUNCTION PCB BUFFER

## Application

The Multifunction PCB Buffer is used to buffer PCB's in LIFO or FIFO mode. "Pass-through" mode may be selected so that PCB is transferred by it, or "Automatic" mode may be selected so that this machine is used as a PCB buffer.

## Features



- Servo motor, Omron PLC control system, touch screen operation.
- 3 operative modes: FIFO (first in first out), LIFO (last in first out), pass through.
- 24pcs PCB's storage capability.
- Electrical width adjustment.
- Direction from left to right or right to left(optional).
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT-350A-BL	IE-CT-400A-BL	IE-CT-460A-BL
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Buffer capacity	Max. 24 PCBs at pitch 1		
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	500x885x1650mm	610x935x1650mm	610x995x1650mm

## Application

The PCB Destacker is used for loading bare board onto the PCB assembly line. A mechanism separates the bottom PCB from the stacker and lowers it onto the edge belt conveyor.

## Features



- Omron PLC Control system.
- Touch screen easily operation.
- By pass mode selectable.
- Electrical width adjustment automatically.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT-350A-DU	IE-CT-400A-DU	IE-CT-460A-DU
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Buffer capacity	Max. 24 PCBs at pitch 1		
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	630x850x1250mm	630x900x1250mm	630x950x1250mm

# PCB PUSH-UP STACKER

## Application

The Push-up Stacker is used for restacking un-populated boards at the end of the line. Stacking is done by a pneumatic lifter, which gently raises the PCB's from the belt conveyor and adds the PCB, one by one, to the bottom of the stack.

## Features



- Omron PLC Control system.
- Touch screen easily operation.
- By pass mode selectable.
- Electrical width adjustment automatically.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT-350A-SU	IE-CT-400A-SU	IE-CT-460A-SU
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	630x850x1250mm	630x900x1250mm	630x950x1250mm



## Application

The Bare Board Loader is used for automatically loading unpopulated boards at the beginning, or in the middle of a PCB assembly line. The bare boards are lifted one by one from the stack by vacuum and are gently lowered onto the belt segment, ready for the downstream machine.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- By pass mode selectable.
- Flexible suction design, position adjustable.
- Sucking stability improved by using single vacuum generator system.
- Width adjusting system by hand crank. Electrical width adjustment available on request.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/CB-350A-SL	IE-CT/CB-400A-SL	IE-CT/CB-460A-SL
<b>Power Supply</b>	AC 110/220V $\pm$ 10V, 50/60HZ		
<b>Air Supply</b>	5Kgf/cm <sup>2</sup>		
<b>PCB Size</b>	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
<b>Transfer Height</b>	900 $\pm$ 20mm		
<b>PCB Direction</b>	left to right or right to left(option)		
<b>Machine Size</b>	700x735x1250mm	750x785x1250mm	800x835x1250mm
<b>Control Panel</b>	1. Touch Screen (T), 2. FUJI Button (B)		

# PCB TURN CONVEYOR

## Application

The 90° PCB Turn Conveyor is used for changing the direction of flow of a PCB assembly line. The PCB is transferred onto the built-in belt conveyor which turns either 90° clockwise or counter clockwise.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- By pass mode selectable.
- Width adjusting system by hand crank. Electrical width adjustment available on request.
- Sensor protection more safely.
- It's controlled with motor, rotate smoothly and accurately.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/CB-350A-TC	IE-CT/CB-400A-TC	IE-CT/CB-460A-TC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Transfer Height	900 $\pm$ 20mm		
PCB Direction	90° clockwise or counter clockwise(option)		
Machine Size	700x700x1200mm	750x750x1200mm	800x800x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)		

## Application

The PCB Inverter is used for inverting the PCB's to process the board at both sides without manual handling.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- By pass mode selectable.
- Width adjusting system by hand crank. Electrical width adjustment available on request.
- Sensor protection more safely.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/CB-350A-IC	IE-CB-400A-IC	IE-CB-460A-IC
<b>Power Supply</b>	AC 110/220V $\pm$ 10V, 50/60HZ		
<b>Air Supply</b>	5Kgf/cm <sup>2</sup>		
<b>PCB Size</b>	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
<b>Transfer Height</b>	900 $\pm$ 20mm		
<b>PCB Direction</b>	left to right or right to left(option)		
<b>Machine Size</b>	500x800x1250mm	550x850x1250mm	600x900x1300mm
<b>Control Panel</b>	1. Touch Screen (T), 2. FUJI Button (B)		

# TELESCOPIC GATE CONVEYOR

## Application

The Telescopic Gate Conveyor is used for creating a passage in the PCB assembly line to give the operator access to the rear of the production equipment. The integrated conveyor segment slides across the opening upon request from the downstream machine when a board enters the unit. The conveyor returns to its retracted home position as the board is released, leaving a normally open passage in the line.

## Features



- Omron PLC Control system
- FUJI button, or touch screen operation options available.
- Fully opening gate passage allows operator in/out freely
- Electrical width adjustment.
- Through beam sensors for additional safety
- Electrically driven for smooth extension and retraction
- SMEMA compliant.
- CE certified

## Specifications

Model	IE-CB-350A-TG	IE-CB-400A-TG	IE-CB-460A-TG
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Walkway	Max. 900mm adjustable		
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	(750-1700)x740x1100mm	(750-1700)x790x1100mm	(750-1700)x840x1100mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)		

## Application

The Manual Lift Gate Conveyor is used when a passage way is required in a production line. By manual lifting the conveyor section, access is gained to the rear of the line. (semiauto-matic)

## Features



- Omron PLC Control system.
- Cylinder assisted lifting motion
- Width adjustment by hand crank.
- Pneumatic locking device installed to enhance safety.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CB-350A-GC	IE-CB-460A-GC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm
Walkway	600mm	
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left(option)	
Machine Size	1000x650x1100mm	1000x750x1100mm



# LOWERING GATE CONVEYOR

## Application

The Manual Lift Gate Conveyor is used when a passage way is required in a production line. By manual lifting the conveyor section, access is gained to the rear of the line. (semiauto-matic).

## Features



- Omron PLC Control system.
- Cylinder assisted lifting motion
- Width adjustment by hand crank.
- Pneumatic locking device installed to enhance safety.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CB-350L-GC	IE-CB-460L-GC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm
Walkway	600mm	
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left(option)	
Machine Size	1000x650x1100mm	1000x750x1100mm

## Application

The PCB Traverser is used for transporting boards from one line into two lines or vice versa. The orientation of the board is not changed during traversing.

## Features



- Servo motor, Omron PLC control system, touch screen operation.
- Width adjustment by hand crank. Electrical width adjustment by switch available on request.
- By pass mode selectable.
- Traversing length specified.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT-350L-SC	IE-CT-460A-SC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Width	50 - 350mm	50 - 460mm
Traversing Length	specified	
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left(option)	
Machine Size	according to traversing length	

# ADJUSTABLE MULTI MAGAZINE LOADER

## Application

The Adjustable Multi Magazine Loader is used at the starting of the line for loading of PCB's to the production line. The unit loads the production line automatically by pushing PCB's out of a magazine onto the conveyor of the down-stream machine.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screenoperation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/CB-460AC-ML
Power	AC 110/220V $\pm$ 10V, 50/60HZ
Air Pressure	5Kgf/cm <sup>2</sup>
PCB Size	min: 50x50mm, max: 535x460mm
Transfer Height	900 $\pm$ 20mm or Specify
PCB Direction	left to right or right to left(option)
Magazine Rack Size	355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm
Pitches	10, 20, 30, 40mm or Specify
Machine Dimension	1750x1100x1190mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)

## Application

The Adjustable Multi Magazine Unloader is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

## Features



- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability
- SMEMA compliant.
- CE certified.

## Specifications

Model	IE-CT/CB-460AC-MU
Power	AC 110/220V $\pm$ 10V, 50/60HZ
Air Pressure	5Kgf/cm <sup>2</sup>
PCB Size	min: 50x50mm, max: 535x460mm
Transfer Height	900 $\pm$ 20mm or Specify
PCB Direction	left to right or right to left(option)
Magazine Rack Size	355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm
Pitches	10, 20, 30, 40mm or Specify
Machine Dimension	2500x1100x1150mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)

# WAVE SOLDER OUTFEED CONVEYOR

## Application

The Wave Solder Outfeed Conveyor is used to unload PCBs from the inclined conveyors of wave solder and to then lower the soldered boards to a standard conveyor height.

## Features



- Angle adjustment at input and output ends.
- Heat-resistant, ESD belt with non-slip surface.
- Heavy-duty aluminum construction.
- Optional fan attachment for extra cooling capacity.
- CE certified.

## Specifications

Model	IE-120LW
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ
PCB Width	50 - 450mm
PCB Direction	left to right or right to left(option)
Machine Size	1200x500x(750 – 1200)mm



# INTEON

## REFLOW OVENS



## CONVEYORS



## BGA REWORKS



## DRY CABINETS



## ESD RACKS



[www.inte-on.com](http://www.inte-on.com)

# INTEON

## DRY CABINETS





# INTRODUCTION



INTEON Dry Cabinet Systems allows attractive price and high quality performance for component storage. INTEON Dry Cabinet Systems assure an optimum of process stability by innovative technology. All the electrical system totally match the European quality standard and other international safety standard. We are offering different models to find the best solution for your production even you are manufacturing OEM or small repair service.

## WARRANTY

Best in the industry warranty – 2 years full warranty.

## SUPPORT

For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories.

## ON-SITE VISIT

In case if any of our products aroused your interest INTEON would be glad to visit your company and hold a presentation of the product of your interest. Major machines also could be observed at our partners' site.

## OFFERS

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website ([www.inte-on.com](http://www.inte-on.com)), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.



# DRY CABINETS

## Dry98 Series

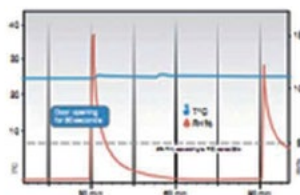


Outer dimension:W448\*D400\*H688mm

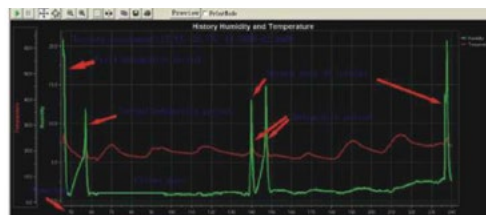
Inner dimension:W446\*D372\*H598mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY98A	20%~60%	13	91	N
DRY98B	10%~20%	18	126	N
DRY98C	1%~10%	18	126	N
DRY98U	1%~5%	18	126	N
DRY98EA	20%~60%	13	91	Y
DRY98EB	10%~20%	18	126	Y
DRY98EC	1%~10%	18	126	Y
DRY98EU	1%~5%	18	126	Y

### Display Panel



**U type:**  
ultra low humidity control, less than 5%RH



Product Name	Type	Controlled Scope	Control Mode
Medium humidity dry cabinet	A	20~60%RH	Adjustable pointing control
Low humidity dry cabinet	B	10~20%RH	Adjustable pointing control
Ultra-low humidity dry cabinet	C	1~10%RH	Automatic
	U	1~5%RH	
Automatic nitrogen cabinet	D	1~60%RH	Precise pointing control

D type is to be seen on P10-11



# DRY CABINETS

## Dry160 Series



Outer dimension:W448\*D450\*H1010mm

Inner dimension:W446\*D422\*H848mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY160A	20%~60%	18	126	N
DRY160B	10%~20%	18	126	N
DRY160C	1%~10%	20	140	N
DRY160U	1%~5%	20	140	N
DRY160EA	20%~60%	18	126	Y
DRY160EB	10%~20%	18	126	Y
DRY160EC	1%~10%	20	140	Y
DRY160EU	1%~5%	20	140	Y

## Dry240 Series



Outer dimension:W598\*D400\*H1310 mm

Inner dimension:W596\*D372\*H1148 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY240A	20%~60%	18	126	N
DRY240B	10%~20%	18	126	N
DRY240C	1%~10%	20	140	N
DRY240U	1%~5%	20	140	N
DRY240EA	20%~60%	18	126	Y
DRY240EB	10%~20%	18	126	Y
DRY240EC	1%~10%	20	140	Y
DRY240EU	1%~5%	20	140	Y

# DRY CABINETS

## Dry320 Series



Outer dimension:W900\*D450\*H1010 mm

Inner dimension:W898\*D422\*H848 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY320A	20%~60%	20	140	N
DRY320B	10%~20%	20	140	N
DRY320C	1%~10%	40	280	N
DRY320U	1%~5%	40	280	N
DRY320EA	20%~60%	20	140	Y
DRY320EB	10%~20%	20	140	Y
DRY320EC	1%~10%	40	280	Y
DRY320EU	1%~5%	40	280	Y

## Dry435 Series



Outer dimension:W900\*D600\*H1010 mm

Inner dimension:W898\*D572\*H848 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY435A	20%~60%	20	140	N
DRY435B	10%~20%	20	140	N
DRY435C	1%~10%	40	280	N
DRY435U	1%~5%	40	280	N
DRY435EA	20%~60%	20	140	Y
DRY435EB	10%~20%	20	140	Y
DRY435EC	1%~10%	40	280	Y
DRY435EU	1%~5%	40	280	Y

# DRY CABINETS

## Dry540 Series



Outer dimension:W598\*D710\*H1465 mm

Inner dimension:W596\*D682\*H1298 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY540A	20%~60%	20	140	N
DRY540B	10%~20%	40	280	N
DRY540C	1%~10%	60	420	N
DRY540U	1%~5%	60	420	N
DRY540EA	20%~60%	20	140	Y
DRY540EB	10%~20%	40	280	Y
DRY540EC	1%~10%	60	420	Y
DRY540EU	1%~5%	60	420	Y

## Dry718 Series



Outer dimension:W598\*D710\*H1910 mm

Inner dimension:W596\*D682\*H1723 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY718A	20%~60%	20	140	N
DRY718B	10%~20%	40	140	N
DRY718C	1%~10%	60	280	N
DRY718U	1%~5%	60	280	N
DRY718EA	20%~60%	20	140	Y
DRY718EB	10%~20%	40	140	Y
DRY718EC	1%~10%	60	280	Y
DRY718EU	1%~5%	60	280	Y

# DRY CABINETS

## Dry870 Series



Outer dimension:W900\*D600\*H1890 mm

Inner dimension:W898\*D572\*H1698 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY870A	20%~60%	40	280	N
DRY870B	10%~20%	40	280	N
DRY870C	1%~10%	80	560	N
DRY870U	1%~5%	80	560	N
DRY870EA	20%~60%	40	280	Y
DRY870EB	10%~20%	40	280	Y
DRY870EC	1%~10%	80	560	Y
DRY870EU	1%~5%	80	560	Y

## Dry1436 Series



Outer dimension:W1200\*D710\*H1910 mm

Inner dimension:W1198\*D682\*H1723 mm

SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY1436A-4/DRY1436A-6	20%~60%	40	280	N
DRY1436B-4/DRY1436B-6	10%~20%	80	560	N
DRY1436C-4/DRY1436C-6	1%~10%	120	840	N
DRY1436U-4/DRY1436U-6	1%~5%	120	840	N
DRY1436EA-4/DRY1436EA-6	20%~60%	40	280	Y
DRY1436EB-4/DRY1436EB-6	10%~20%	80	560	Y
DRY1436EC-4/DRY1436EC-6	1%~10%	120	840	Y
DRY1436EU-4/DRY1436EU-6	1%~5%	120	840	Y

# DRY CABINETS

## FOR SPECIAL DEMANDS

Compound Dry Cabinet with timer and buzzer down counting for up to 9999minutes to ensure the drying efficiency.

### Dry1436 with alarm light tower



#### Description

Auto dry cabinet of 1436 litre storage capacity for humidity control, with 5 shelves.

##### Dry1436 with alarm light tower

Storage capacity	1436 Litres
Shelf Quantity	5 (removable and adjustable for up/down)
Windows	4 windows / 6 windows
Outer dimensions:	W1200*D710*H1910mm
Inner dimensions	W1198*D682*H1723mm
Package size	W130*D80*H223CM
Gross weight	219KG
Net weight	144KG

#### Technical features

- LED display panels, Honeywell humidity sensor with error of  $\pm 3\%RH$
- High grade 1mm and 1.2mm cold rolled plate, reinforced structure design, high intensity bearing, every shelf can bear over 110kg
- 3.2mm toughened glass
- Zinc alloy lock with air tightness
- ROHS certified surface painting with Dupont powder
- Power supply: AC power 85V~265V 50/60Hz
- ESD safe high intensity truckles of which two in front are brakable
- Cool looking of Dark green surface (anti-ESD) or White (non-ESD protection) for Customer's options
- Designed as per IPC/JEDEC J-STD-033B; CE certified

#### Options for customer's special demands

- data logging system by USB connection with computer for data reading and printing
- code lock for safety
- alarm system with light tower
- heating system up to 40C as per J-STD-033B, for low temperature baking
- high flow air injection system
- independent segregated compartments
- **stainless steel cabinet**



# DRY CABINETS

## FOR SPECIAL DEMANDS

### DRY1436A-6S

auto double side mirror stainless steel dry cabinet



### Description

Middle humidity dry cabinet with 1436L capacity for materials which are sensitive to humidity, such as camera, lens, tapes, CD, stamps, half guild slide, samples, filter, charger, etc

Dry1436A-6S	
Cubage	1436 Litres
Shelf Quantity	5
Humidity	20-60%RH
Outside dimensions	W1200*D710*H1910mm
Inside dimensions	W1198*D682*H1723mm

### Technical features

- LED display panels, Honeywell humidity sensor with error of  $\pm 3\%$  RH
- High grade 1mm and 1.2mm stainless steel, reinforced structure design, high intensity bearing, every shelf can bear over 60kg
- 3.2mm toughened glass
- Zinc alloy lock with air tightness
- ROHS certified surface painting with Dupont powder
- Power supply: AC power 85V~265V 50/60Hz
- ESD safe high intensity truckles of which two in front are brakable
- Cool looking of Dark green surface (anti-ESD) or White (non-ESD protection) for Customer's options
- Designed as per IPC/JEDEC J-STD-033B; CE certified

### Options for customer's special demands

- data logging system by USB connection with computer for data reading and printing
- code lock for safety
- alarm system with light tower
- heating system up to 40°C , for low temperature baking
- high flow air injection system
- independent segregated compartments
- **stainless steel cabinet**

# DRY CABINETS

## FOR SPECIAL DEMANDS

### DRY1436 customized dry cabinet with 20 drawers

#### Description

Auto dry cabinet of 1436 litre storage capacity for humidity control



Dry1436 with 20 drawers	
Storage capacity	1436 Litres
Shelf Quantity	removable and adjustable for up/down
Windows	4 windows / 6 windows
Outside dimensions	W1200*D710*H1910mm
Inside dimensions	W1198*D682*H1723mm
Package size	W130*D80*H223CM
Gross weight	219KG
Net weight	144KG

#### Technical features

- LED display panels, Honeywell humidity sensor with error of  $\pm 3\%RH$
- High grade 1mm and 1.2mm cold rolled plate, reinforced structure design, high intensity bearing, every shelf can bear over 110kg
- 3.2mm toughened glass
- Zinc alloy lock with air tightness
- ROHS certified surface painting with Dupont powder
- Power supply: AC power 85V~265V 50/60Hz
- ESD safe high intensity truckles of which two in front are brakable
- Cool looking of Dark green surface (anti-ESD) or White (non-ESD protection) for Customer's options
- Designed as per IPC/JEDEC J-STD-033B; CE certified

#### Options for customer's special demands

- data logging system by USB connection with computer for data reading and printing
- code lock for safety
- alarm system with light tower
- heating system up to 40°C as per J-STD-033B, for low temperature baking
- high flow air injection system
- independent segregated compartments
- stainless steel cabinet

# DRY CABINETS

## FOR SPECIAL DEMANDS

### DRY1436EC-6C



#### Description

Ultra low humidity dry cabinet with independent spaces, segregated individual compartments, when you open one window, the others will not be effected.

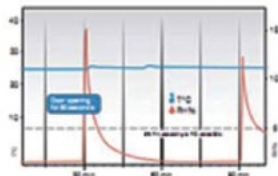
Dry1436EC-6C	
Storage capacity	1436 Litres
Humidity range	1%-10%RH
Shelf Quantity	10 (4 of which fixed, others are removable and adjustable for up/down)
Windows	4 windows / 6 windows
Outside dimensions	W1200*D710*H1910mm
Inside individual dimensions	(W) 598 x (D) 682 x (H) 572mm (subject to adjustment in making)
Package size	W130*D80*H 204CM
Gross weight	147kg
Net weight	219kg

#### Technical features

- 6 LED display panels
- Honeywell humidity sensor with error of  $\pm 3\%$  RH
- High grade 1mm and 1.2mm cold rolled plate
- Reinforcing structure design
- High intensity bearing
- Every shelf can bear over 150kg
- 3.2mm toughened glass
- Zinc-alloy lock with air tightness
- Surface painting: with DuPont powder
- Power supply: AC power 85 to 265V, 50 or 60Hz
- High intensity truckle with brake
- ESD safe surface and moving truckles
- Dark green surface for cool appearance
- RoHS Directive-compliant

# DRY CABINETS

## DRAWER DRY CABINETS



- Suitable for office of information technology, electronics, research and development, ISO documentation centers, etc, for damp-proof storage of office items.
- Used for Network, Imaging disks, CD-ROM, microform, sound recording and other information.
- Specially used for CD, MO, disk, software, slides, video tapes, professional paper, special artwork and photographic equipment.
- Drawers with ball track , each drawer can load over 50kg.
- Standard adjustable support and universal removable casters.

### DRY118 Series



SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY118A	20%~60%	18	126	N
DRY118B	10%~20%	18	126	N
DRY118C	1%~10%	20	140	N
DRY118EA	20%~60%	18	126	Y
DRY118EB	10%~20%	18	126	Y
DRY118EC	1%~10%	20	140	Y

Outer dimension:W448\*D550\*H658mm

### DRY178 Series



SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY178A	20%~60%	18	126	N
DRY178B	10%~20%	18	126	N
DRY178C	1%~10%	20	140	N
DRY178U	20%~60%	18	126	Y
DRY178EA	10%~20%	18	126	Y
DRY178EB	1%~10%	20	140	Y

Outer dimension:W448\*D550\*H932mm

### DRY238 Series



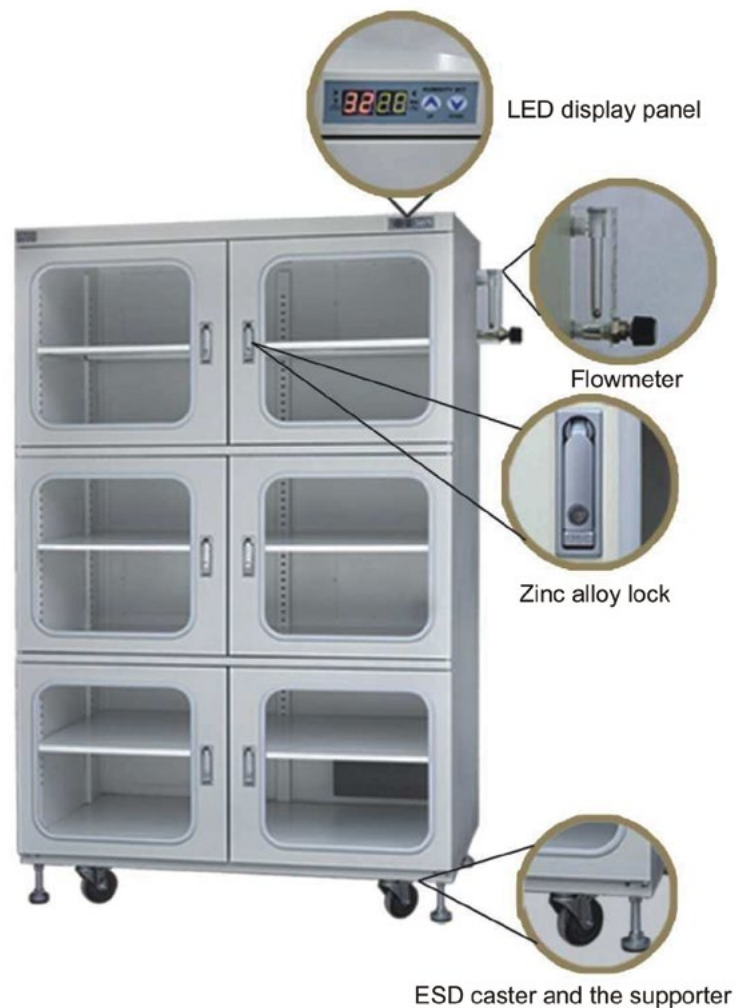
SPEC	Controlled Humidity SPEC (RH)	Average Power (W)	Maximum Power (W)	ESD Function (Y/N)
DRY238A	20%~60%	18	126	N
DRY238B	10%~20%	18	126	N
DRY238C	1%~10%	20	140	N
DRY238EA	20%~60%	18	126	Y
DRY238EB	10%~20%	18	126	Y
DRY238EC	1%~10%	20	140	Y

Outer dimension:W448\*D550\*H1206mm

# DRY CABINETS

## GAS/AIR CABINETS

- LED display, Honeywell humidity sensor with error as  $\pm 3\%RH$ .
- Quality 1mm and 1.2mm cold rolled steel, reinforced structure design, high intensity bearing.
- 3.2mm tempered glass.
- Zinc alloy lock with air press.
- High intensity truckle with brake.
- RoHs certified advanced powder coating technology with Dupont powder, high anti-erosion performance to avoid your stored goods from pollution, static shock, and oxidation.
- AC power 85V~265V 50/60Hz.
- Available for nitrogen gas or compressed air for 1~60%RH.
- Options for air flow ranges: 5~25LPM, 5~60LPM, 5~300LPM.



# DRY CABINETS

## GAS/AIR CABINETS

Controlled Humidity(RH):1%~60%

Average Power(W):8

**DRY98D  
DRY98ED**



**Outer dimension:**  
W448\*D400\*H688  
**Inner dimension:**  
W446\*D372\*H598

**DRY160D  
DRY160ED**



**Outer dimension:**  
W448\*D450\*H1010  
**Inner dimension:**  
W446\*D422\*H848

**DRY240D  
DRY240ED**



**Outer dimension:**  
W598\*D400\*H1310  
**Inner dimension:**  
W596\*D372\*H1148

**DRY320D  
DRY320ED**



**Outer dimension:**  
W900\*D450\*H1010  
**Inner dimension:**  
W898\*D422\*H848

**DRY435D  
DRY435ED**



**Outer dimension:**  
W900\*D600\*H1010  
**Inner dimension:**  
W898\*D572\*H848

**DRY540D  
DRY540ED**



**Outer dimension:**  
W598\*D710\*H1465  
**Inner dimension:**  
W596\*D682\*H1298

**DRY718D  
DRY718ED**



**Outer dimension:**  
W598\*D710\*H1910  
**Inner dimension:**  
W596\*D682\*H1723

**DRY870D  
DRY870ED**



**Outer dimension:**  
W900\*D600\*H1890  
**Inner dimension:**  
W898\*D572\*H1698

**DRY1436D-4  
DRY1436ED-4**



**Outer dimension:**  
W1200\*D710\*H1910  
**Inner dimension:**  
W1198\*D682\*H1723

**DRY870D  
DRY870ED**



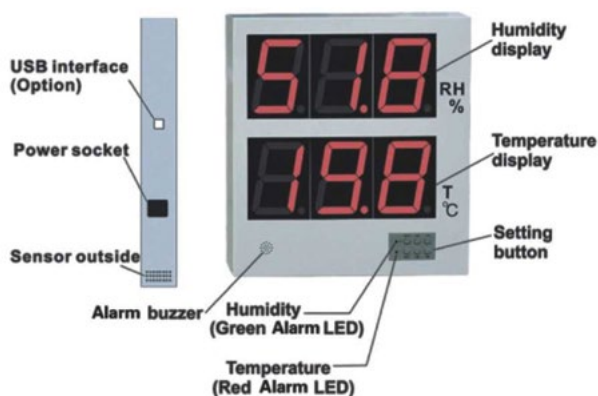
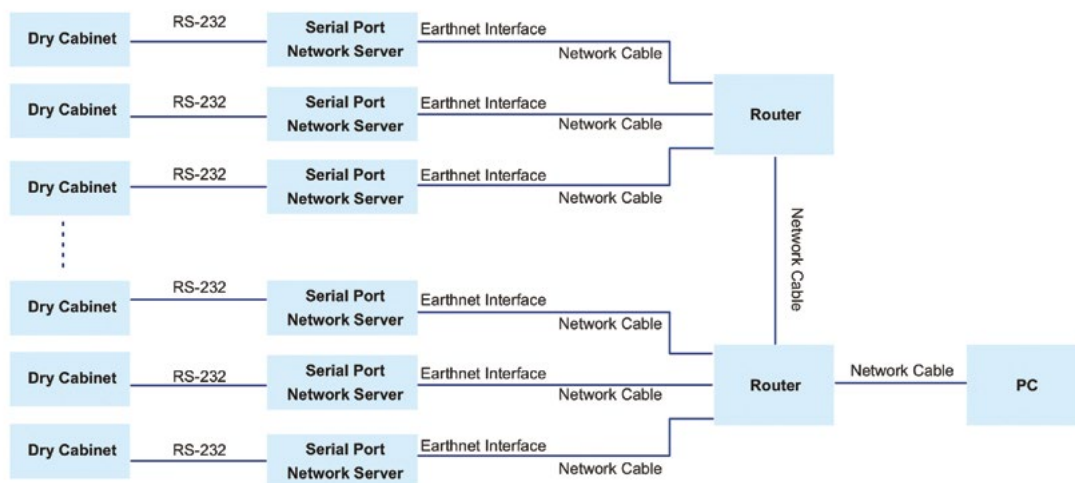
**Outer dimension:**  
W1200\*D710\*H1910  
**Inner dimension:**  
W1198\*D682\*H1723



# DRY CABINETS

## DRY CABINETS NETWORKING HUMIDITY & TEMPERATURE MONITORS

- Specs for your options: CTT-18D,CTT-18DU,CTT-18DUT
- Temperature range: -9.9°C~+70°C
- Humidity range: 0.1%RH~99.9%RH
- Input voltage: AC85V~265V
- High accuracy sensor
- 4 inches super high luminance digital LED
- Ultra low power consume, less than 5W
- Convenient for wall hanging
- visible clearly from over 30 meters
- Resettable limitation for alarming. Your setting will be well kept even after power off
- Alarm mode is high decibel buzzer (>70dB)
- Good memory for data of temperature and humidity up to 250 hours, readable on your PC via USB connection with associated drive software



- Net working for up to 253 units of dry cabinets, controlled via ONE computer with CATEC software, readable for the data up to 800 hrs.
- Every serial port network server has a static IP address for data reading.
- For long distance, you can use a router for signal booster.

# DRY CABINETS

## DRYING OVENS

- Application: for drying, baking, temp testing, heat aging, or sterilizing in mining industries, electronics, labs, research institutes, and other industries.
- Safety structure mirror, stainless steel made inner container, and high quality steel for outer cabinet.
- LED display and microcomputer control, LCD display optional.
- Door glass with wide view for user's observation convenience.
- Nano-material for door sealing and insulation on material for heat preservation.
- Variety of blast drying ovens, vacuum drying ovens, incubators, and constant temperature/humidity cabinets, for your option!

**VERTICAL VACUUM  
DRYING OVEN(250°C)**



**VERTICAL BLAST  
DRYING OVEN(250°C)**



**ULTRA HIGH TEMP  
DRYING OVEN(400°C)**



**DESK TYPE VACUUM  
DRYING OVEN(250°C)**



**DESK TYPE BLAST  
DRYING OVEN(250°C)**



# DRY CABINETS

## DRYING OVENS

Model name	specs	Inner/outer dimension (mm,W*D*H)	Technical parameters	Shelf qty (pcs)	Features
Desk-top blast drying oven	DCTG-9023A	300*300*270 580*480*440	RT+10~250°C, 220V 50HZ, error 0.1°C/±0.5°C,5 00~1050W	2	Plastic sprayed surface for anti-static;  clean stainless steel inner container;  micro-computer for temp control, timing and alarming;  attractive digital display; ex- cellent internal circulation;  shelves adjustable for differ- ent working space;  nano sealant and insulation material.
	DCTG-9053A	420*350*350 700*530*520		2	
	DCTG-9123A	550*350*550 830*530*720		2	
	DCTG-9203A	600*550*600 880*730*770		2	
	DCTG-9025A	300*300*270 580*480*440	RT+10~300°C, 220V 50HZ, error 0.1°C/±0.5°C,5 00~2100W	2	
	DCTG-9055A	420*350*350 700*530*520		2	
	DCTG-9125A	550*350*550 830*530*720		2	
	DCTG-9205A	600*550*600 880*730*770		2	
Vertical blast drying oven	VCTG-9030A	340*320*320 480*500*630	RT+10~250°C, AC220V 50HZ, error 0.1°C/±0.5°C,5 00~2100W, timing 0~9999min.	2	
	VCTG-9070A	400*350*450 550*530*760		2	
	VCTG-9140A	450*550*550 590*730*860		2	
	VCTG-9240A	500*600*750 640*780*1060		2	
	VCTG-9420A	600*550*1300 740*730*1670	RT+10~250°C, AC380V 50HZ, error 0.1°C/±0.5°C,4 000~6000W, timing 0~9999min.	3	
	VCTG-9620A	800*600*1300 940*780*1690		4	
	VCTG-9920A	1000*600*1600 1140*780*1990		4	
	VCTG-9035A	340*320*320 480*500*630	RT+10~300°C, AC220V 50HZ, error 0.1°C/±0.5°C,1 050~2000W, timing 0~9999min.	2	
	VCTG-9075A	400*350*450 550*530*760		2	
	VCTG-9145A	450*550*550 590*730*860		2	
	VCTG-9245A	500*600*750 640*780*1060		2	
	VCTG-9425A	600*550*1300 740*730*1670	RT+10~300°C AC380V 50HZ, error 0.1°C/±0.5°C,4 000~7500W, timing 0~9999min.	3	
	VCTG-9625A	800*600*1300 940*780*1690		4	
	VCTG-9925A	1000*600*1600 1140*780*1990		4	

# DRY CABINETS

## DRYING OVENS

**HIGH TEMP  
DRYING OVEN(400°C)**



**DESK TYPE VACUUM  
DRYING OVEN(250°C)**



Model name	specs	Inner/outer dimension (mm,W*D*H)	Technical parameters	Shelf qty (pcs)	Features
High-temp blast drying oven	HCTG-9030A	320*320*300 560*520*700	100~400°C,AC 220V 50HZ, error 0.1°C/±0.5°C, 2000~3500W,ti ming 0~9999min	2	
	HCTG-9050A	410*350*350 640*600*695		2	
	HCTG-9100A	450*450*450 690*750*850		2	
	HCTG-9200A	600*600*600 945*850*840		2	
Vacuum drying oven	VCTF-6020	300*300*275 580*450*450	RT+5~250°C,A C220V 50HZ, error 0.1°C/±0.5°C, 500~3500W,ti ming 0~999min,vac. Degree 133pa	1	Stainless steel internal working space; tempered glass door for easy checking about inside status; excellent silicone sealant; smart control for temp. 6090/6210 are installed with vacuum pump, others not necessary.
	VCTF-6030	320*320*300 630*510*460		1	
	VCTF-6050	415*370*345 720*525*535		2	
	VCTF-6090	450*450*450 615*590*1470		2	
	VCTF-6210	560*640*600 720*820*1750	RT+10~250°C, AC380V 50HZ, error 0.1°C/±0.5°C, 4100/5500W,ti ming 0~999min	3	
	VCTF-6250	700*600*600 1050*760*910		3	

# DRY CABINETS

## INTELLIGENT STORAGE SOLUTION



CATEC Intelligent Storage Solution, effects the new logistical storage concept of “from articles to operator” with number of carriers as storage unit in the carousel, to circulate the carriers by rotating chains. The articles will be delivered to the operator accurately and in the shortest time.

The intelligent storage system is applicable for storage of tools, spare parts, electronic components, medicines, medical appliances, files, documents, disks, optics, and other materials to be circulated in any area. This application covers wide range of fields, such as electronic, aviation, tobacco, mechanical, chemical, petrochemical, pharmaceutical, bank, defense industry, automobile, and so on.

### Features

- Automatic working, saving your time
- Plentiful usage of the available space
- Reliable safety for your items, with multi-password management
- FIFO function
- Various operation modes for working convenient: manual or automatic operation for single carousel and /or automatic networking operation are all workable.
- Hand crank is workable when power off or machine malfunction.
- Humidity control for 1-60%RH is the option for MSD to be stored.
- Networking administration is the option for higher efficiency.



# INTEON

## ESD RACKS







# INTRODUCTION



InterElectronic Hungary Ltd. offers equipments, machines and different materials (ESD) of different production technologies (SMT/THT/LED). Including high quality, special request fulfilling soldering machines, devices, tools, instruments and materials for the electronic industry and services.

## SERVICES

Our each and every product has a warranty granted by the InterElectronic Hungary Ltd. For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories and instruments.

## ON-SITE VISIT

In case if any of our products aroused your interest the InterElectronic Hungary Ltd. would be glad to visit your company and hold a presentation of the product of your interest. As far as possible we serve you by bringing demo devices with us. In the most cases of our products we are proud possessors of references nation-wide. Major machines also could be observed at our partners' site.

## PRICE LIST

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website ([www.interelectronic.com](http://www.interelectronic.com)), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.

## ORDER/SHIPPING

Our soon to be partners are welcomed to be helped via telephone, fax or e-mail. We use different ways of delivery, depending on the preference of our partner. We can deliver your purchased product by ourselves, by freight or courier service. The way of delivery might be negotiated previously. We offer you cash on delivery nation-wide!

# 301A

- **Base material:** Plastic
- **Contour size :** 355 mm x 315 mm x 580 mm
- **Adjustable Width :** 80 mm - 250 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301A

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Screw	80°C	355	315	580	355*(80-250)	34	34	2.8	7.0	10.0	50	5.1

# 301A-1

- **Base material:** Plastic
- **Contour size :** 355 mm x 315 mm x 315 mm
- **Adjustable Width :** 80 mm - 250 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 25 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301A-1

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Screw	80°C	355	315	315	355*(80-250)	34	34	2.8	7.0	10.0	25	3.5

# 301 B1

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **A PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B1

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	80°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	6

# 301 B1G

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B1G

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	120°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	6



# 301 B1H

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** **200°C**
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B1H

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Screw	200°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	6

# 301 B1-1

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 363 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 30 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B1-1

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	80°C	355	320	363	350* (50-250)	34	34	3	5	10.0	30	6

# 301 B1-1G

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 363 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 30 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B1-1G

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	120°C	355	320	363	350*(50-255)	34	34	3	5	10.0	30	6

# 301 B2

- **Base material:** Plastic
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B2

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Pastic	Gear	80°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	4,5



# 301 B2G

- **Base material:** Plastic
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301B2G

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Gear	120°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	4.5

# 301 B3

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301B3

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	80°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	7.5

# 301 B3G

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301B3G

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	120°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	7.5

# 301 B4

- **Base material:** Plastic
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301B4

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Gear	80°C	355	320	563	350*(50-250)	34	34	2.8	7	10.0	50	6.5

# 301 B4G

- **Base material:** Plastic
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm-250 mm
- **Fixing method :** Fogaskerekes - kézikaros
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301B4G

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Gear	120°C	355	320	563	350*(50-250)	34	34	2.8	7	10.0	50	6.5

# 301 C

- Base material:** Metal
- Contour size :** 460 mm x 400 mm x 563 mm
- Adjustable Width :** 70 mm-330 mm
- Fixing method :** Gear adjustable
- Heat-resistan Temperature :** 80°C
- PCB Slots :** 50 pcs
- Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301C

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	80°C	460	400	563	460*(70-330)	34	34	3	5	10.0	50	8.8

# 301 CG

- **Base material:** Metal
- **Contour size :** 460 mm x 400 mm x 563 mm
- **Adjustable Width :** 70 mm - 330 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301CG

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Screw	120°C	460	400	563	460*(70-330)	34	34	3	5	10.0	50	8.8

# 301 D

- **Base material:** Metal
- **Contour size :** 535 mm x 460 mm x 570 mm
- **Adjustable Width :** 50 mm - 400 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301D

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Screw	80°C	535	460	570	525*(50-400)	34	37	2.8	7	10.0	50	10.5



# 301 DG

- **Base material:** Metal
- **Contour size :** 535 mm x 460 mm x 570 mm
- **Adjustable Width :** 50 mm - 400 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301DG

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	120°C	535	460	570	525*(50-400)	34	37	2.8	7	10.0	50	10.5

# 301 E

- **Base material:** Metal
- **Contour size :** 535 mm x 530 mm x 570 mm
- **Adjustable Width :** 70 mm - 460 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301E

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	80°C	535	530	570	530*(70-460)	34	37	3	5	10.0	50	12.3

# 301 EG

- **Base material:** Metal
- **Contour size :** 535 mm x 530 mm x 570 mm
- **Adjustable Width :** 70 mm - 460 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301EG

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	120°C	535	530	570	530*(70-460)	34	37	3	5	10.0	50	12.3

# 301 S

- **Base material:** Plastic
- **Contour size :** 355 mm x 320 mm x 560 mm
- **Adjustable Width :** 50 mm - 250 mm
- **Fixing method :** Chain
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301S

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Chain	80°C	355	320	560	350*(50-250)	34	34	2.8	5	10.0	50	5.6



# 301 F

- **Base material:** Metal
- **Contour size :** 630 mm x 530 mm x 570 mm
- **Adjustable Width :** 50 mm - 450 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301F

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Screw	80°C	630	530	570	630*(50-450)	34	37	3.5	6.5	10.0	50	13.1

# 301 FG

- **Base material:** Metal
- **Contour size :** 630 mm x 530 mm x 570 mm
- **Adjustable Width :** 50mm - 450 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω



● Article number : IE-7711301FG

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Screw	120°C	630	530	570	630*(50-450)	34	37	3.5	6.5	10.0	50	13.1

# 301 Q

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm - 250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 80°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω

● Article number : IE-7711301Q

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	80°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	6.5



# 301 QG

- **Base material:** Metal
- **Contour size :** 355 mm x 320 mm x 563 mm
- **Adjustable Width :** 50 mm - 250 mm
- **Fixing method :** Gear adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :** <10<sup>6</sup> Ω

● Article number : IE-7711301QG

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Metal	Gear	120°C	355	320	563	350*(50-250)	34	34	3	5	10.0	50	6.5



# 301 N

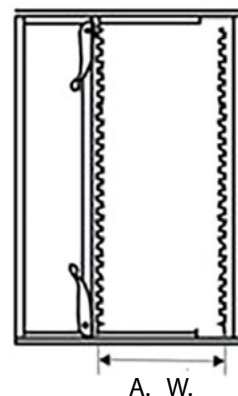
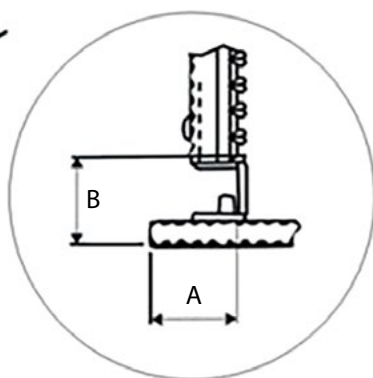
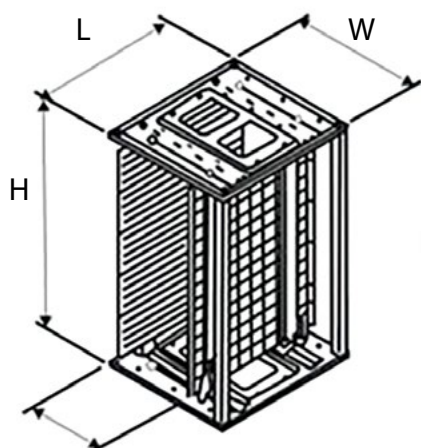
- **Base material:** Plastic
- **Contour size :** 400 mm x 320 mm x 563 mm
- **Adjustable Width :** 50mm - 255 mm
- **Fixing method :** Screw adjustable
- **Heat-resistan Temperature :** 120°C
- **PCB Slots :** 50 pcs
- **Surface resistance :**  $<10^6 \Omega$



● Article number : IE-7711301N

Base material	Fixing method	Max. Temp.	Contour size mm			Adjustable Width mm	Ref. Position mm		Guide slot mm			PCB Slot	Weight kg
			L	W	H		A	B	Depth	Width	Pitch		
Plastic	Screw	120°C	400	320	563	400*(50-255)	34	34	3	7	10.0	50	7.5

## MAGAZINE DIMENSIONS



# ESD TROLLEYS

## 201

Size (L×W×H)mm	Size of Slide plate	Width	Depth	Pitch	Slot
900×550×1300	1000mm×460mm	5mm	4mm	10mm	100
1200×550×1300					
Side Plate		Flapper Size			
Ten Pieces Assembled		10cm×46cm			
Surface Resistance	Conductive Type <1×10 <sup>6</sup> Ω				
	Dissipative Type 1×10 <sup>6</sup> ~1×10 <sup>11</sup> Ω				
Note	Side plate with double flashboard				
	100PCS per row,keep in 200,400PCB plates				

- Article number : IE-7711201



## 201-2

Size (L×W×H)mm	Size of Slide plate	Width	Depth	Pitch	Slot
900×550×1380	100cm×46cm	4.5mm	4.5mm	10mm	100
1200×550×1380					
Side Plate		Flapper Size			
Four Pieces Assembled		24.8cm×46cm			
Surface Resistance	Conductive Type <1×10 <sup>6</sup>				
	Dissipative Type 1×10 <sup>6</sup> ~1×10 <sup>11</sup> Ω				
Note	Side plate with double flashboard				
	100PCS per row,keep in 200,400PCB plates				

- Article number : IE-7711201-2



## 101

Height	System Resistance	
140 mm	Conductive Type	$<1 \times 10^6 \Omega$
	Dissipative Type	$1 \times 10^6 \sim 1 \times 10^{11} \Omega$
Any specifications can be ordered		

- Article number : IE-7711101





# ESD TROLLEYS

## 202



Size (L×W×H)mm	Size of Slide plate	Width	Depth	Pitch	Slot
950×675×1300	225mm	5mm	5mm	19mm	120
1200×675×1300					
Surface Resistance	Conductive Type <1×10 <sup>6</sup> Ω				
	Dissipative Type 1×10 <sup>6</sup> ~1×10 <sup>11</sup> Ω				
Note	Side plate with double flashboard				
	Each side plate is 60 slots,can insert 120pcb. Each PCB inserting depth is 225mm				

- Article number : IE-7711202

## 203



Size (L×W×H)mm	Width	Depth	Pitch	Slot
950×410×1300	5mm	5mm	10mm	100
Surface Resistance	Conductive Type $<1 \times 10^6 \Omega$			
	Dissipative Type $1 \times 10^6 \sim 1 \times 10^{11} \Omega$			
Note	Side plate with double flashboard			
	100PCS per row, keep in 200,400PCB plates			

- Article number : IE-7711203

## 204



Size (L×W×H)mm	Width	Pitch	Slot
970×470×1550	12mm	24mm	90
	3mm	23mm	
Surface Resistance	Conductive Type $<1 \times 10^6 \Omega$		
	Dissipative Type $1 \times 10^6 \sim 1 \times 10^{11} \Omega$		
Note	Side plate with double flashboard		
	90 Slot of Each Layer		

- Article number : IE-7711204

## 206



Size (L×W×H)mm	Width	Depth	Pitch	407 L-style Circulation Rack
850×600×1400	2.7mm	5mm	10	20
Surface Resistance	Conductive Type $<1 \times 10^6 \Omega$			
	Dissipative Type $1 \times 10^6 \sim 1 \times 10^{11} \Omega$			

- Article number : IE-7711206



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