Iron Tip Cleaners

Air Blow Iron Tip Cleaner

You can select the iron tip cleaner based upon your application.

CRB

CRB
Air blow from one direction

CRB-A2

CRB-A2
Air blow from two directions (front & back)

Rotary Iron Tip Cleaner

SRC-3000

The wet sponges rotate in one direction and clean the iron tip. The soldering material drops into the reservoir below to contain debris.

SRC-500DC

The wet sponges can be programmed to rotate forward and reverse based upon I/O signal to allow for more thorough tip cleaning.

BRC-3000

The stainless steel brush rollers rotates and removes oxides from the tip and are designed to be utilized in lead free process.

Options

Nitrogen Gas Generator

Nitrogen gas helps eliminate oxidation of the iron tip and soldering surface.
It also increases solder wettability and provides better results and minimizes solder defects.

APN-05 — For a desktop robot

Permeable Membrane System Ultra Small N2 Gas Generator

This is an ultra small N2 gas generator which can be built into a soldering robot or attached externally.

Model	APN-05
Air supply	0.5~0.6MPa(Only dry & clean Air)
Nitrogen Gas Flow	0.5l/min
Nitrogen Gas Con	99% (When nitrogen gas flow 0.5l/min)
Power Supply	AC100V~240V less than 1.4W
Dimension(W×D×H)	Approx 110×200×100mm
Weight	Approx 1.4kg
Accessories	Power Adapter, I/O Connector, Air Tube (2 types), Air Cock

APN-12 — For desktop robots

PSA System Small N2 Gas Generator

It is a high performance model that can be used with more than one robot. It's compact design allows for greater portability.

Type	APN-12
Nitrogen Gas Flow	1.2NL/min
Nitrogen Gas Con	99.99%
Air Supply	0.65~0.7MPa(only dry & clean air)
Discharge Pressure	0.5MPa
Power Supply	AC100~240V 50/60Hz
Dimension(W×D×H)	Approx. 310×270×310mm
Weight	Approx. 18kg
Noise Value	50dB

KSM-M6R — For selective flow system

PSA System Large N2 Gas Generator

This N2 gas generator has a color touch panel which controls the N2 concentration and displays the amount of fluid flow.

Type	KSM-M6R
Nitrogen Gas Flow	100NL/min
Nitrogen Gas Con	99.99%
Air Supply	0.75MPa(only dry & clean air)
Discharge Pressure	0.5MPa
Power Supply	220V 60Hz
Dimension(W×D×H)	1,260×420×1218mm
Weight	Approx. 500kg
Noise Value	65dB

Options

NCM-02

N2/O2 Concentration Measuring Instrument

It can measure N2 concentration up to: 99.9%,
O2 concentration: 25%.
The level of N2 gas generation is measured precisely.

Type	NCM-02
Display Value	100 - O2 Concentration (%)
Measuring Range	99.9~75%(N2) 0.1~25%(O2)
Overall Accuracy	±1.0%FS (It conforms to O2)
Power Supply	AC100~220V (with an adaptor)
Power Consumption	Less than 15W
Weight	0.5kg
N2 Enclosing Port	for Φ4mm tube / One-Touch Connector

F71RH / FW71RH

Automatic Tip Position Correction Unit

This optical sensor prevents misalignment of a
wearing iron tip.

Type	F71RH (For J-CAT Desktop robot) FW71RH (For JS Servo Scara robot)
Sensor	Optical sensor (For X/Y-axis) Low-contact touch sensor (For Z axis)
Correction Accuracy	±0.1mm (X/Y/Z- axis)
Power Supply	12~24 V DC
Weight	Approx. 0.8kg
Accessories	I/O SYS Cable. Attaching Plate

TTM-140

Tip Thermometer

The well-designed sensor allows for easy placement
and accurate readings for iron tips.
It achieves stable measurement within seconds.

Type	TTM-140
Power Supply	AA battery LR6 × 4ppcs : 6V
Dimensions(W×D×H)	83×42×140mm
Weight	150g (w/o battery)
Temperature Resolution	1℃
Temperature Measuring Range	Sensor (TIM•140S) : 0~500℃ Probe (TIM•140SP) : 0~700℃
Temperature Accuracy	0~500℃ → ±3℃ / 501~700℃ → ±4℃ (excluding sensor error)
Operating Environment	0~50℃ 20~85%RH (no condensation)
Accessories	Sensor 3pcs / AA battery LR6x4 pcs

TTM-140SP
Sensor Probe
for Solder Pot

TTM-140S
Temperature Sensor
(3pcs)

Options

SC+A

Soldering Application Position Calibration System

This position calibration camera has been designed exclusively for use with our soldering robots. It can be installed on both the J-CAT and JS SCARA robots.

Type	SC+A
Mountable Robot	J-CAT / JS series
Sensor	1/1.8" Color CMOS sensor / Rolling shutter
Image Processing	FPGA High speed picture processing engine(Incorporating Camera)
Effective Pixels	1600×1200
Search Method	Pattern matching (with Masking function / Pre-processing filter)
Registered Model Number	100 models (with retry functions)
Setting Method	No PC necessary / Enable to set by main unit
Robot Coordinates Calibration	X,Y,R-Axes
Accessories	Camera for position calibration, Lens, Ring lightning (White), Mounting bracket, Converter, PoE injector, LAN cable 3pcs

CSS-2100

Small Soldering Camera Monitor

The micro cameras easily attach to the Apollo soldering robot. The function of the CMOS camera is for teaching and process monitoring. Due to the miniature size, each camera can be easily integrated on all Apollo robots.

Type	CSS-2100
Sensor	1/4 inch color CCIQ II
Indication pixel	316K pixel
Resolution	400 TV line
Picture signal	NTSC video
Focus distance (Min.)	About 20 mm
Min. vision area	About 5 mm(D) x 40 mm(W)
Focus distance (Max.)	About 100 mm
Max. vision area	About 30 mm(D) x 40 mm(W)
Ambient environment	-10C~45C, 85% no condensation
Voltage	DC5~12V (AC 100~240V Multi Adaptor)
Power consumption	50mA
Accessories	Attaching Bracket, Adapter, Power+Data Cable

CVR-2100

High-Quality Portable Video Recorder

By connecting to CSS-2100 of CMOS camera, this recorder allows real-time recording of the soldering process without a PC. The stored data on the SD card makes it easy to transfer to a PC.

Type	CVR-2100
Memory Type	SD card (Max. 32GB)
Resolution	1280×720 pixels
Video Input	Composite AV input
Video Output	HDMI / Composite AV output
Weight	260g
Dimensions (W×D×H)	75×25×130mm
Battery	4400mAH (Max. recording time 9h)
Accessories	Multi-adapter, USB cable, AV cable

Options

Fume Extractor

APOLLO
APOLLO SEIKO

Solder fumes can irritate eyes, nose and throat.
Also, they could cause problems if the fumes accumulate on the equipment.
For these reasons, we recommend the use of the fume extractor. We offer
three types of Fume Extractor systems.

VAC-1000

VAC-3000

If there is no air duct near the
work space, use the VAC-3000
together with VAC-1000. Three
carbon filters make solder
fumes and exhaust clean.

Type	VAC-3000
Filtering Rate	More than 95%,0.3µm
Vacuum Type	Ejector
Air supply	0.5Mpa (Dry Air)
Noise Level	Below 82dB
Size(W×D×H)	194×170×308mm
Weight	Aprrox. 4.0kg

VAC-4001A / VAC-4002A

This triple filtering design allows for 99.97%
efficiency. The equipped DC motor is low noise,
low vibration and low power consumption. The
high-power motor generates large air flow.

Type	VAC-4001A	VAC-4002A
Power Supply	100~110V AC or 220~240V AC	100~110V AC or 220~240V AC
Power Consumption	120W	250W
Air Flow	140㎥/h	250㎥/h
System Flow (Including filter)	120㎥/h	100㎥/h×2
Filtering Efficiency	99.97% (0.3µm)	99.97% (0.3µm)
Duct Hose Length	φ75mm×1500mm	φ75mm×1500mm×2
Static Pressure	2400Pa	3000Pa
Noise	60dB	65dB
Size (WxDxH)	420×230×430mm	470×230×500mm
Weight	13.4kg	14.2kg

Solder fumes are vacuumed
through a silicone tube mounted
directly to the point of soldering.
The combination of the two
filtering units (pre-filter & HEPA
filter) removes all harmful gases,
thus preventing flux build-up on
the iron and extending tip life all
while keeping the environment
clean and safe.

System15 Specifications

Filtering Rate	More than 99.997%,0.3µm (HEPA)
Vacuum Type	IP54 Synchronous (Brushless) motor
Air Flow	70m3/Hr
Noise Level	Below 50dB
Size(W×D×H)	360×330×500mm
Power	AC230V 1ph 50Hz or 110V 1ph 60Hz

Purex Specifications

Filtering Rate	More than 99.997%
Wattage	50W / 75W
Air Flow	100m 3/hr 59cf/m
Noise Level	52 dBA
Size(W×D×H)	455×480×720mm
Power	AC230V +/- 10%, 120V +/- 10%

robots

Options

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robots

Options

YPH-10

The stainless steel sleeve is equipped with two heaters to pre-heat the solder wire as it is being fed. This helps to prevent solder ball spattering by pre-heating the solder wire & internal flux. This is designed to be used with large diameter solder wire and is effective in reducing tact/cycle time as well as improving quality in lead free and tin/lead applications.

Type	YPH-10
Setting Temperature	0~150°c
Heater Capacity	10W
Power Source	AC100～240V(Single Phase)
Solder Diameter	φ1.0~1.6mm
Constitution	Temperature Controller, Solder Wire Heater, Attaching Bracket, Heater Cable,Power Cable, Feeding Tube

Tube type…TAL-∗.∗-∗∗∗Y

Solder wire Diameter

Tube total length

DRC-1300 | For SLV

Drill Cleaner

The rotating drill bit removes the dross inside the sleeve.

Type	DRC-1300
Dimensions (W×D×H)	91.5×130×120.7mm
Rotation Speed	Approx. 8000rpm
Power Source	24V DC (30mA)
Drill Diameter	φ1.1 / φ1.3 / φ1.5 (Choose one)
Weight	Approx. 1.7kg
Accessories	Drill bit 1 piece

CCH-700 | For SLV

Cleaning Heater

This cleaner heats the ceramic sleeve and burns out the dross inside.

Type	CCH-700
Dimensions (W×D×H)	170×247×167mm
Heater	135W
Max. Temperature	700℃
Power Source	AC85~264V(Single phase)