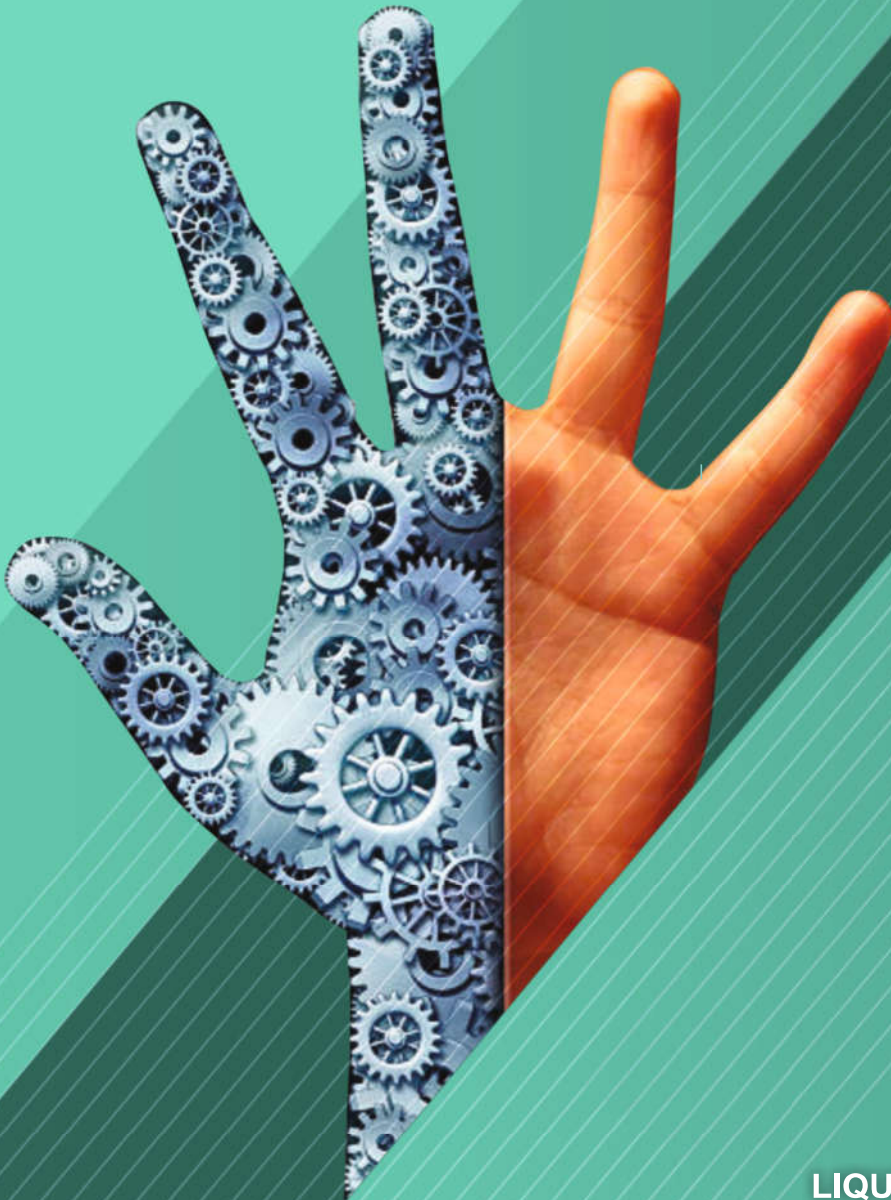




ハイベックス インド

HIBEX INDIA

Where challenges are converted to solutions



DESKTOP, SCARA ●
& CARTESIAN ROBOTS

ELECTRIC SCREWDRIVER ●
& ASSEMBLY TOOLS

AUTOMATIC TAPE ●
& LABEL DISPENSERS

LIQUID DISPENSING SOLUTION ●

SOLDERING SOLUTION ●

CLEANING SOLUTION ●

SMT EQUIPMENTS ●

www.hibexindia.com

NEW DELHI | BANGALORE | MUMBAI | PUNE | CHENNAI | AHMEDABAD

ABOUT US



Hibex India was established in 2007 and its headquarters based in Singapore has its presence spread out across Asia to cater customers. Hibex has leveraged Asia Pacific connections to cater and support customer's needs.

Hibex had grown from simple distributor for electronic consumables to a Total Solution Provider supplying a wide range of machineries and materials to the PCB, Semiconductor, SMT, Robotics and many more. We have our subsidiaries across Asia Pacific with the sole intention of supporting our customer with the best possible services.

Mr. Hiroji Iba established the company in 1988 with base in Singapore. Since that time Hibex has been constantly expanding and modernized, always remaining on top of state-of-the-art facility.

STRENGTHS:

PRODUCT RANGE: Offer solutions for wide industry range including PCB, SMT, SEMICONDUCTOR and General Industry sectors.

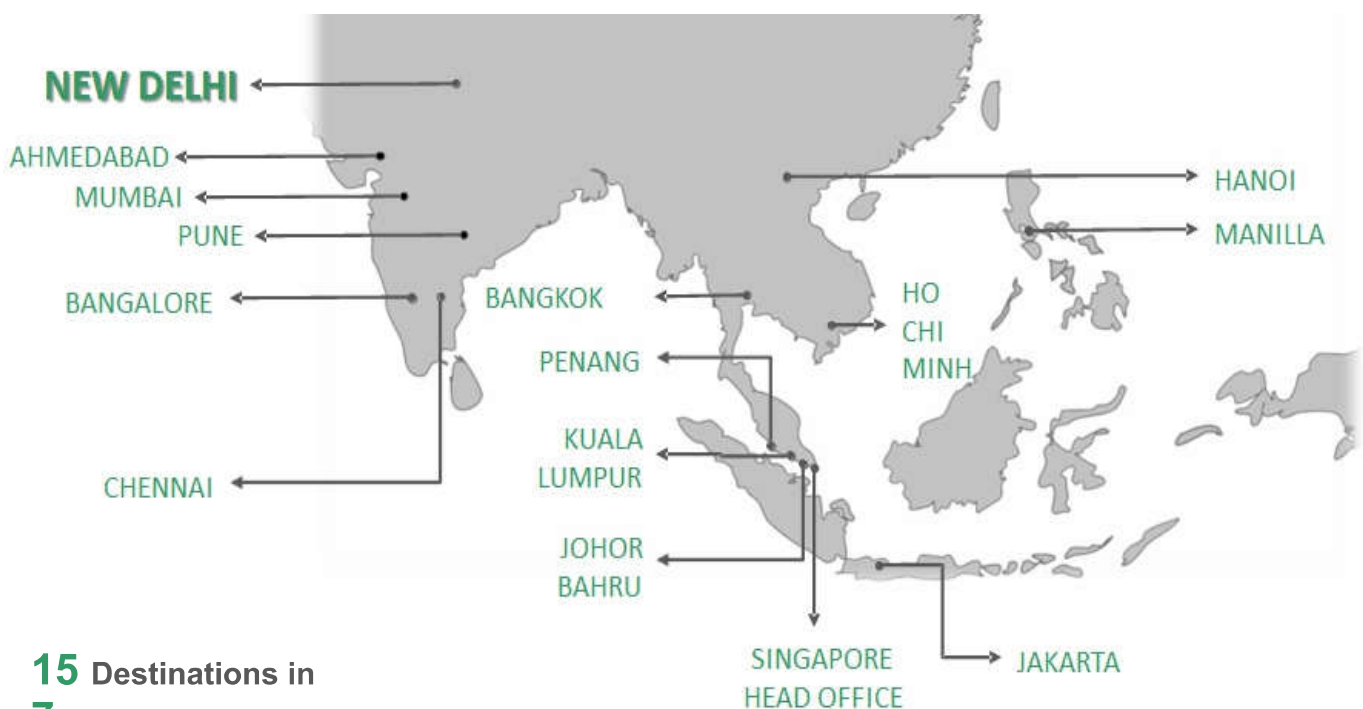
PRESENCE: Hibex have direct presence in 7 countries with sole intention to support customers technically as well as after-sales service support for all solutions offer by Hibex. Hibex has its branches in Japan, Singapore, Malaysia, Thailand, Indonesia, Vietnam, India and Philippines.

SALES: Equipped with the best in industry sales cum application engineers will instantly connect to your need and will offer apt solutions with expert advice. Ideas will be made to reality at Hibex.

SERVICE: Equipped with well-trained service engineers, objective to support and backup customer for any service call to have a stress-free operation. Hibex is certified to perform Calibration, Diagnosis and complete service facility.

MANUFACTURING: Hibex also equipped with a comprehensive infrastructure that includes manufacturing base in few strategic bases. Capable of designing and manufacturing Special Purpose Machines, Jigs/Fixtures, Integrating Robots for various applications.

Hibex will strive to provide more choices, quality services and economical solutions.



15 Destinations in
7 Countries in the Asia Pacific

Industrial Robots

Janome Industrial Equipment – Japan

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- Customized Screw Tightening, Glue dispensing, Soldering, Vision Inspection & PCB Cutting.....3

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Building on technology refined through years of precision sewing machine development, we forge ahead in the high function industrial equipment field. Always on the cutting edge in manufacturing, we devote ourselves to offering the finest quality in everything we do from product development to after sales service.

Our main products, namely servo presses and desktop, Cartesian and SCARA robots are valued by customers worldwide for precision work in a variety of manufacturing fields, including the automotive parts, IT and electronics industries.

Desktop Robots

Dispensing, Screw-tightening, Soldering, PCB cutting, and more, our versatile desktop robots handle a variety of jobs. Highly rigid construction ensures stable movement. Our simple teaching method makes using the robots easy.

JR 3000 Series

Item	Model	3 Axis /4 Axis (Synchronous Control)				
		JR3203/4	JR3303/4	JR3403/4	JR3503/4	JR3203/4
Operation Range	X & Y axis(mm)	200 x 200	300 x 320	400 x 400	510 x 510	510 x 620
	Z axis(mm)	50	100	150	150	150
	R axis*	± 360°	± 360°	± 360°	± 360°	± 360°
Minimum Portable Load	X & Y axis (workpiece)(kg)	7	15	15	15	15
	Z axis (workpiece)(kg)	3.5	7	7	7	7
Maximum Speed (PTP Drive) ()= Setting Speed Range	X & Y axis(mm/sec)	700(7~700)	900(9~900)	900(9~900)	900(9~900)	900(9~900)
	Z axis(mm/sec)	250(2.5~250)	400(4~400)	400(4~400)	400(4~400)	400(4~400)
	R axis(/sec)	600(6~600)	900(9~900)	900(9~900)	900(9~900)	900(9~900)
Maximum Speed (PTP Drive) ()= Setting Speed Range	X,y,z Combined(mm/sec)	600(0.1~600)	850(0.1~850)	850(0.1~850)	850(0.1~850)	850(0.1~850)



Cartesian Robots

A 3 or 4-axis robot with smooth, precise tracking and high repeatability. The standard model features multiple interface ports; ideal for inline installation. Combine stroke sizes to fit your needs; we offer a wide selection of size configurations.

Item	Model	3 Axis		4 Axis
		JC-3A00-OT3 (Single Side)	JC-3A00-OT3 (Double Side)	JC-3B01-OH4 (Double Side)
Number of areas		3 Axis (Synchronous Control)		4 Axis (Synchronous Control)
Operation Range	X axis(mm)	200/300/400/500/600	300/400/500/600	300/400/500/600
	Y axis(mm)	200/300	300/400/500	300/400/500
	Z axis(mm)	50/100/150/200	50/100/150/200	100/150
	R axis()		N/A	± 360°
Maximum Portable Load (kg)		4	8	3
Maximum Speed (PTP Drive)	X axis(mm/sec)		800	800
	Y axis(mm/sec)		800	800
	Z axis(mm/sec)		400	400
	R axis(deg/sec)		N/A	900



SCARA Robots

Equipped with a powerful servomotor, our user-friendly, vertical multi-jointed robot is useful for a wide range of jobs, from high-speed small parts pick-and-place to high-precision component assembly.

Item	Model	J53-3520	J53-4520	J53-5520
		Number of areas		
Arm Length (mm)	Maximum Arm length (J1+J2)	350	450	550
	J1 Arm	125	225	325
	J2 Arm		225	
Operation Range	J1 Arm		340°(±170)	
	J2 Arm		290°(±145)	
	J3 Arm		200mm	
	J4 Arm		720(±360)	
Portable Mass (kg)		Maximum 6 (Rating 3)		
Acceptable Moment of inertia (kgm ²)		Maximum 0.12 (Rating 0.01)		
Maximum Speed	J1+J2+J4 Axis Combined(mm/sec)	6900	7600	8300
	J3 Axis (mm/sec)		2080	
	J4 Axis (mm/sec)		2500	
Standard Cycle Time (sec)		0.29		



Main Features

- Built-in Simple PLC Function
- Fieldbus Compatibility
- LAN (Ethernet) port included as standard equipment
- Teaching pendant features 11 different display languages
- Highly compatible with vision system installation
- Control up to 4 axes and 2 external motors with the Auxiliary Axis Function (optional)
- Easy Program Teaching

Janome Robots Key Features :- >>4.0 Industry compatible >>Compact Size >>Fast, more precise with greater structural rigidity >>Application Specific Software >>PC Software >>Teaching Pendant >>Memory Capacity >> I/O Interface

Applications:

Screw Tightening

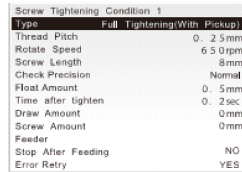
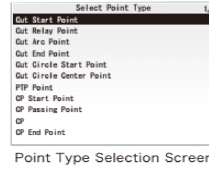
With our dedicated screw tightening software, teach a program just by setting screw tightening conditions such as screw length, pitch, driver rpm, etc., and specifying the tightening positions.

Screw Tightening Operation Types

Full Tightening	Tighten with Float
Unscrew	Partial Tightening

Error Detection Functions

Spinning Screws	Floating Screws
-----------------	-----------------



Screw Tightening Condition Setting Screen

PCB Depaneling

This dedicated depaneling software for the JR3000ERT includes a function notifying when it is time to change the spindle motor router bit.



Optical Inspection

The JR3000 Series is powered by a visual inspection system to create a multifunctional inspection system, Wide Range of Inspection Uses: Wrong components, text, missing screws, missing parts on tray, scratches, dents, THT soldering and barcodes reading etc..



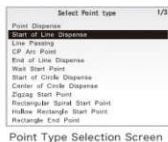
Soldering

Automatic Cartridge Exchange allow the soldering robot to use the best tip for every single solder joint on the assembly to get the Highest Soldering Quality.



Liquid / Glue Dispensing

With our dedicated dispensing software, teach by pointing the dispenser needle tip to the position you want and select the type of dispensing movement (point dispensing, line dispense, fill-in dispense, etc)



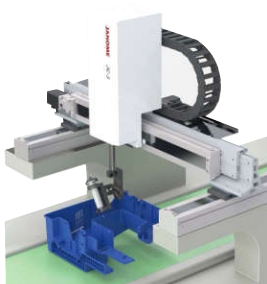
Point Type Selection Screen

Conformal Coating

Achieve maximum coverage of Conformal Coating by Controlling 2 external motors for Tilt-and-Rotate function



Cartesian Inline



Twin Table Robot



SCARA Pick & Place



Special Purpose Machines

Offering Affordable Automation Solution

We develop Customized Screw Tightening, Glue dispensing, Soldering, Vision Inspection & PCB Cutting machines, We have in-house manufacturing facilities to ensure on time delivery of machines to our customers.

Some of the Automation Solutions developed by us:

Automatic Screw Tightening SPM

Key features:

- Janome 3 Axis Desktop Robot
- Digital Torque & Angle Controlled Screw Driver
- Keyence IV Sensor to check Screw Presence
- Rejection bin & Safety Compliance
- Online Torque Calibration
- Fixture with Pneumatic locking & Part Presence Sensor



Dispensing SPM

Key features:

- Janome 3 Axis Cartesian Robot
- Taeha TP-50 Tubing Pump
- Vision Camera for Dispensing Inspection
- Safety Compliance
- Fixture with Pneumatic locking & Part Presence Sensor



2K Resin + Hardener Dispensing SPM

Key features:

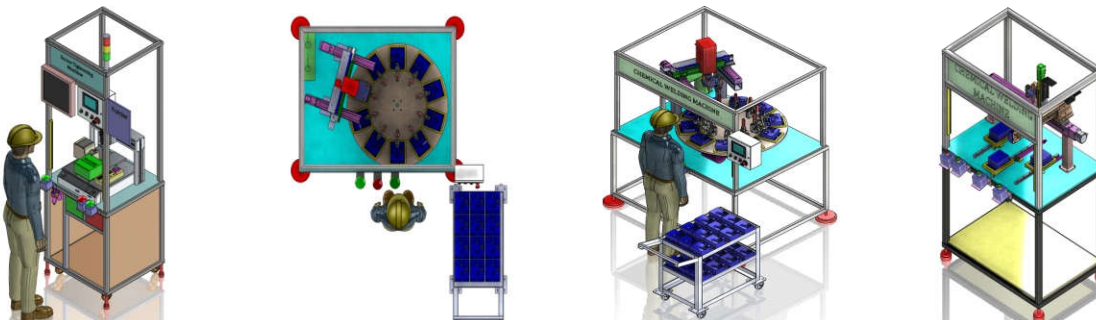
- Janome 3 Axis Cartesian Robot
- Taeha Pro Duo Pump
- Material Supply System from Taeha
- Progressive Cavity Pump Principle very accurate dosing
- Flexible Mixing Ratio



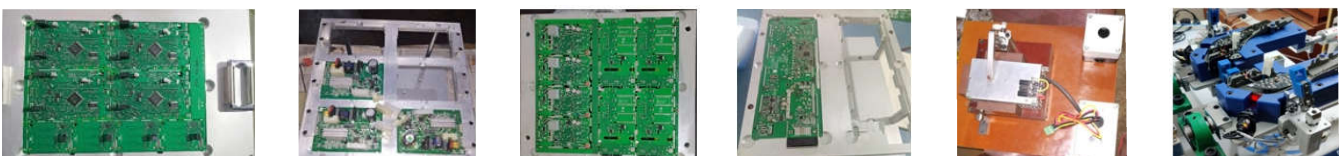
Rotary Indexing Glue Dispensing

Key features:

- Janome 3 Axis Cartesian Robot
- Oriental Rotary Indexing Motor
- Taeha Tubing Dispenser
- Fixtures with locking & Part Presence Sensor
- Safety Compliance



Routing, Dispensing, Soldering & Screwing Fixtures/Jigs



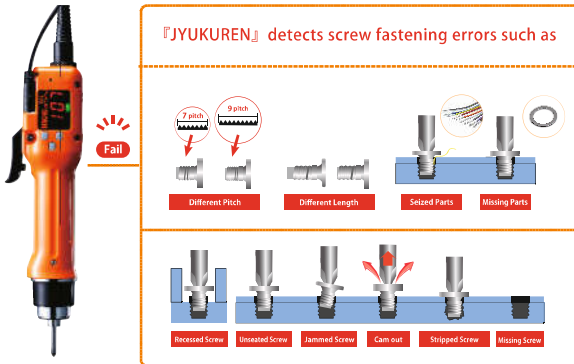
BLG Brushless DC Electric Screwdrivers

Model	Output Torque (Kgf.cm)	RPM (HI/LOW)	Screw Size (mm)
BLG-4000	1~5.5	1000/690	1.4~2.6
BLG-5000	2~12	1000/690	2.0~3.0
BLG-5000-15	3~10	1500/1000	2.0~3.0
BLG-5000-18	5~15	1800/1200	2.0~3.0
BLG-5000-HT	5~20	730	2.0~4.0



BLG-BC2 Built-in Pulse Counter Brushless Electric Screwdriver

- In-Built Screw counter function.
- BC2 detects errors in screw fastening in real time with high accuracy by counting the pulse of the motor.
- Misplaced screws of different type or length, recessed screws or floating screw due to seized cables are now detected.
- Installed serial port (RS-232C) makes it possible to set the driver by remote control record pulse values of each screw tightening for traceability.
- Direct Teaching allow a simple setting.
- The Screwdriver itself detects and notifies you of Screw fastening errors.



BL Series DC Brushless Electric Screwdrivers

- There is no carbon power emission & maintains a clean environment.
- Significant durability improvement considerably reduces maintenance cost.
- High speed rotation shortens screw fastening time & improves work efficiency.

Model	Output Torque (Kgf.cm)	RPM (HI/LOW)	Screw Size (mm)
BL-2000	0.2~2	990/650	1.0~2.3
BL-3000	2~5.5	980/680	1.7~2.3
BL-5000	2~12	900/590	2.0~3.0
BL-5000-15	3~12	1500/1000	2.0~3.0
BL-5020	5~20	750/500	2.0~4.0
BL-7000	7~28	960/630	2.6~5.0
BL-7000HT	7~35	700/500	2.6~4.0



CL Series DC Brushed Electric Screwdrivers

Model	Output Torque (Kgf.cm)	RPM (HI/LOW)	Screw Size (mm)
CL-2000	0.2~2.0	680/490	1.0~2.3
CL-3000	0.3~2.0	1000/670	1.0~2.0
CL-4000	1.0~5.5	1000/690	1.4~2.6
CL-6000	2.0~10.0	800/500	2.0~3.0
CL-6500	3.0~16.0	900/600	2.0~4.0
CL-7000	3.0~25.0	750	2.0~5.0



VB Series AC Brushless Electric Screwdrivers

Model	Output Torque (Kgf.cm)	RPM	Screw Size (mm)
VB-1510	2.5~15	970	2.0~4.0
VB-1510-18	2~10	1800	2.0~4.0
VB-1820	4~18	2000	2.6~4.0
VB-3012	5~30	1200	3.0~5.0
VB-3020	10~30	2000	3.0~5.0
VB-4504	10~45	400	3.0~5.0



Automation Electric Screwdrivers (Brushless/Brushed Series)

- Stable Torque accuracy helps to uniform screw fastening for automation.
- Vacuum attachment can pick up non-ferrous screws such as stainless steel screw by vacuuming & improve operation efficiency.
- The Power Supply can run the tool in reverse & switch between two speed settings.



Current Controlled Screwdriver DCD-40L

By installing the AC servo motor, it becomes possible to change the present screw tightening conditions (torque, rotation speed and angle) externally, greatly improving working efficiency. Different from conventional styles, there is no need to have multiple automatic machines with different conditions, and that contributes to cost reduction

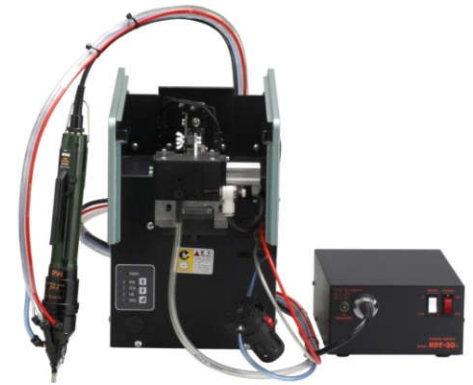
Model	DCD40LS-Z Screwdriver
Controlled Torque Range	0.3~1.3NM
Target Fastenable Screws	M2-M3
No Load Rotation Speed (RPM)	10~2800
Model	DCD40L-CON Controller Box
Power	AC100V 50/60Hz
Control Methods	Torque Control, Angle Control & Speed Control
Tightening Rotation Speed	Temporary, Full and Angular
Torque Setting Channel	8 Channels for tightening torque
Data Output	RS232C
External Control	Controlled by signal input to D-Sub 37 Pins



Recipro Screwdriver / Auto Feeding Screwdriver

Unique automatic feeding system allows wider variations in screw tightening.

- Ideal for deeply recessed screws
- Easy maintenance because the screwdriver, screw feeder, power supply and hose assy can be separated.
- The air feed system automatically and instantly feeds a screw to the bit.
- The vibrational frequency and amplitude of the feeder is adjustable.
- A great tool with high volumes of screw tightening.



Digital Torque Meter

Use for making torque setting on electric screwdriver, checking torque of wrenches or measuring torque of various rotating units.

HP Series

Model	Peak Measuring Range (N.m)
HP-10	0.015~1.0
HP-100	0.15~10.0



HDP Series

Model	Peak Measuring Range (N.m)
HDP-5	0.015~5.0
HDP-50	0.15~5.0
HDP-100	0.15~100



HM Series

Model	Peak Measuring Range (N.m)
HM-10	0.015~1.0
HM-100	0.15~10.0



HIT Series

Model	Peak Measuring Range (N.m)
HIT-200	0.015~5.0
HIT-500	1.5~50.0
HIT-2000	25.0~180.0



Automatic Screw / Bolt Feeder

Automatic screw presenters make use of horizontal rail system, which support wide range of screw material and shapes, diverse work styles and work piece dimension. This unique mechanism and advanced technology can hugely contribute to the efficiency of your production line.

Manual Screw Feeder

- Screws are moved smoothly and
- Durability has been improved dramatically.
- Compact size does not take up space.
- Supported Screw Size:- M1~M6



Fixed Quantity Count Screw Presenter

- Accurately feeds the number of screws input to counter.
- Horizontal rail system prevents screws from clogging or overlapping, achieving stable feeding.
- FM unit has capacity of 150cc add screw hopper for additional 400~1600cc stock



Robotic Screw Feeder

- Provides high precision screw supply for automation applications.
- Disc escaper separates screw one by one, achieves high precision without screw jamming.
- Simple installation allows applications in various production environments.



Screw Hopper

- Extends operation time for screw feeders
Increases capacity of regular feeder by 400-800cc.
- Simply to be placed above the screw feeder, conserving table space.
- Automatically supplies adequate amount of screw, with adjustable timer for fine adjustment.
- Reduction of time and labour in management.



Screwdriver Bits

Industrial Bits



Socket Bits



Precision Bits



Bit Holder/Others

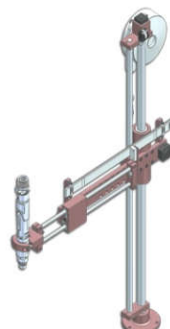


Torque Reaction Arms And Tool Positioning System

A pioneer and a leader in work station ergonomics, our wide range of torque reaction arms and tool positioning systems is an active contributor to the improvement of your operators comfort (elimination of MSD), of the quality of your assemblies and of your productivity.



Position Control Linear Torque Reaction Arm



Articulated Torque Reaction Arm



DPC Touch: sequencing & process monitoring interface

- Zero fault process
- Error proofing
- Sequencing
- Suitable with air and electric tools
- Automation device management

HANTAS Digital Torque & Angle Control Screwdriver

Hantas is one of the leading company in screw tightening assembly technology in the world. Its creation is very unique and effective for the variable assembly solution.

MD SERIES- MANUAL & AUTOMATION DRIVERS

FEATURES:

- Swiss made DC servo motor used
- ESD free by body grounding
- Torque repeatability 3%
- Long life time over 5 million cycle
- Inside memory chip for tool data
- Automation system capability
- 5" Color LCD with touch screen
- Inside SD memory card



Torque (Kfg.cm) – 0.3- 500
Torque (Nm) – 0.03-50
RPM: up to 2000

BM SERIES-Wi Fi ENABLED DRIVERS

FEATURES:

- Digital torque and angle program in 15 preset numbers and 2 multi step sequence programs
- 15 Models managing variable presets with counting no. and I/O in sequential 10 steps
- Auto speed setting by torque
- Monitoring fastening quality and count of screw numbers
- Error information by code display
- Easy parameter setting and monitoring by ParaMon AIR (PC software) & Web server



Torque (Kfg.cm) – 0.3- 500
Torque (Nm) – 0.03-50
RPM: up to 2000



AD SERIES-AUTOMATION DRIVERS

FEATURES:

- Programmable 7" touch LCD with monitoring and data saving feature (Option)
- Synchronizing torque control
- 10% of torque accuracy in full scale
- +/- 3% of repeatability

Torque (Kfg.cm) – 0.5- 3000
Torque (Nm) – 0.05-300
RPM: up to 2000



Transducerised DC Tools

ASG, Division of Jergens, Inc. supplies a full range of products and solutions for assembly. We specialize in providing world class quality torque control and error-proofing products and offer a vast array of premium and value engineered solutions for your assembly needs.

ACCURACY & DURABILITY-MADE IN USA

ASG offers X-PAQ™ Precision Fastening Systems for SD2500 Series tools. Systems include the CT2500 X-PAQ™ Controller, 10 ft. heavy weight tool cable, and SD2500 screwdriver or nut runner.

- Precise, accurate transducerized DC electric torque and angle controlled fastening
- 32 tasks for multiple assembly set-ups
- 8 available torque or angle control parameters within each task
- Data collection, and run down graphing/export
- Programmable I/O for process control
- Available network interface for advanced data export and interfacing with plant controls

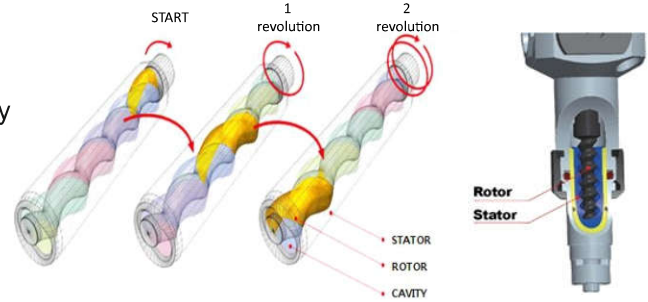
Torque (Kfg.cm) – 1- 56
Torque (Nm) – 0.1-5.6
RPM: up to 1700



Pro Pump System

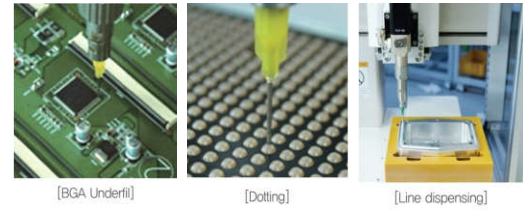
PRINCIPLES OF DISPENSING

A cavity is generated between the rotor and the stator when they are assembled, and as the rotor rotates, the cavity moves forward, creating vacuum in the inlet area and pressure in the outlet area of the pumping unit. As a result, fluid is consistently dispensed.



APPLICATIONS OF PRO-PUMP

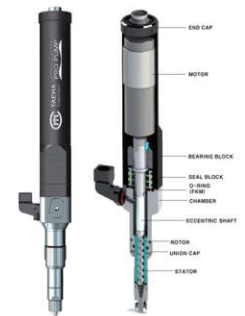
- Automobile : Rear sensor, PTC heater, Epoxy Molding
- Semiconductor - BGA under fill, Silicone molding/potting, SMT, Soldering,
- Semiconductor - Conformal coating, VCM epoxy dotting, COB process
- Laboratory - Electrospinning
- LED - Silicone mixing, Fluorescence filler dispensing, Lens silicone molding,
- LED - AD converter epoxy molding
- Display - OCR process, FPCB silicone coating
- Chemical ■ Cosmetic ■ Food



Pro Pump System

Feature

- Precise and consistent volume of fluid is dispensed even when environmental factors affect viscosity and pressure in the container.
- Clean dispensing is provided without ball-up through the suck back function, which sucks back the fluid drop formed at the nozzle tip. (nozzle rotation is not restricted)
- Consistent dispensing is possible without fluid surging because the Pro-pump provides consistent flow by maintaining a stable pressure.
- Disassembly and reassembly for maintenance and cleaning is easy because of simple structure of the pumping unit.
- Precise volume of fluid with filler is dispensed without impairing fillers under the cavity displacement dispensing process

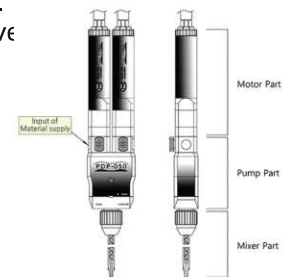


1K Dispensing

Pro-DUO System

Feature

- The specially designed rotary auger pump allows long-term stability for two-component material. The system provides much enhanced pump efficiency and reproducibility, compared with positive displacement.
- Mix ratio and dispensing volume can be easily adjusted by the number of turns and rotational speed of the rotor.
- A wide range of application options are available based on the viscosity and natural changes in materials.
- The special pump can handle a broad range of materials, regardless of viscosity and natural changes in materials.



2K Dispensing Resin+Hardner

Clean dispensing can be achieved because drop formation is prevented by the suck back function and freely rotate. No detergent is used for maintenance; instead the mixer part can be replaced. Maintenance is therefore eco-friendly and economical.

Specifications

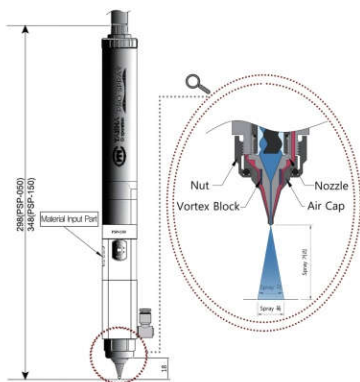
Pro-Pump System

Item	PCP-050	PCP-150	PCP-500	PCP-1000
Dimension (WxDxL)	27xL230xø27	29xL280xø29	29xL280xø29	27xL230xø27
Weight (g)	374g	532g	530g	700g
Input Pressure	0~6kgf/cm ²	0~6kgf/cm ²	0~6kgf/cm ²	0~6kgf/cm ²
Max Dosing Pressure	20kgf/cm ²	20kgf/cm ²	10kgf/cm ²	12kgf/cm ²
Viscosity (cps)	0~500,000 cps			
Dosing Volume / rev	≈ 0.50ml	≈ 0.150ml	≈ 0.500ml	≈ 1ml
Motor Speed (rpm)	1~120rpm	1~120rpm	1~120rpm	1~120rpm
Accuracy of Dosing	±1% (1cycle)			
Stator Material	FFKM / FKM /EPDM			

Pro-DUO System

Item	PCP-050	PCP-150	PCP-500	PCP-1000
Dimension (WxDxL)	67x35x 310	67x35x 310	67x35x 340	100x45x 390
Weight (g)	1.66kg	1.6kg	1.8kg	5.0kg
Input Pressure	0~6kgf/cm ²	0~6kgf/cm ²	0~6kgf/cm ²	0~6kgf/cm ²
Max Dosing Pressure	20kgf/cm ²	10kgf/cm ²	12kgf/cm ²	20kgf/cm ²
Viscosity (cps)	0~500,000 cps			
Dosing Volume / rev	≈ 0.30ml	≈ 1ml	≈ 2ml	≈ 3ml
Motor Speed (rpm)	1~120rpm	1~120rpm	1~120rpm	1~150rpm
Accuracy of Dosing	±1% (1cycle)			
Stator Material	FFKM / FKM /EPDM			

Pro-Spray System



- Precise Spray dispensing by applying Pro-Pump. (Quantitative Spray)
- Various Line width can be dispensed by adjusting particle size ($1\mu\text{m}\sim 50\mu\text{m}$).
- Ultrafine (Dew) spray can be enable by adjusting Spray Air and Supply material.
- Specially designed vortex spraying allows precise and efficient spraying without the loss of materials which may result from scattering or over spraying.

Specifications

Item	PSP-050	PSP-150
Spray Pattern	NC	Narrow Cone
	WC	Wide Cone
	FF	Flat Fan
Spray Angle	5-30°	
Spray Volume	0.1 - 6.0 ml/min 0.3 - 18.0 ml/min	
Spray Air press	0 - 500Kpa	
Inlet Port	G 1/8"	G 1/4"
Spray Air Inlet	Ø 4	
Motor Speed	0 - 120 RPM	
Accuracy of spray	±1%	
Viscosity (cPs)	0- 50,000	
Weight	420gf	610gf
Orifice of Dosing	Ø 0.5 - Ø 0.8	
Mixing Method	External Mixing Type	

Dispensing Controller



Pneumatic Dispenser (THE-200)



Tubing Dispenser (TP-50)



Barrel Heating System

Precision Valve System

Diaphragm
DV-100



1 ~ 5,000cPs

Solvent, instant adhesive, anaerobic bonds, flux, ink

Needle Valve
DV-200



1,000 ~ 100,000cPs

Solvent, Silicon Oil, Epoxy, Filler

Spool Valve
(DV-400)



Suck Back Valve
(DV-300)



1,000 ~ 150,000cPs

High Viscosity RTV
Silicon, Grease,
Epoxy

DV-200H



1,000 ~ 1000,000cPs

High Viscosity RTV
Silicon, Grease,
Epoxy

Material Supply System



PRESSURE
TANK



CAN
PUMP



PRO
CAN PUMP



Manual Supply
System

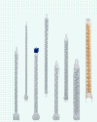
Accessories

DISPENSING TIPS
& NOZZLE



Angled
Needle

BARREL



STATIC
MIXER

Cartridge
Holder



Tape Dispenser

- Durable for long hours operation and suitable for cutting tapes.
- Wide range of selections as depends on tape width.
- Modify as depends on what kind of tape you use.

Model	Cutting Length	Tape Width	Dia. of Outside Roll
ZCUT-9GR	5-999mm	6-60mm	300mm
ZCUT-10	5- 999mm (folding 15-999mm)	6-60mm	300mm
ZCUT-870	15-70mm	3-25mm	
ZCUT-3EX	30-7000mm (When in manual use) 100-7000mm (When in auto use)	15-80mm	150mm
ZCUT-3250	40-9999mm	15-250mm	240mm
XCUT-100	30-9999mm (When in manual use) 80-9999mm (When in auto use)	20-100mm	200mm (Include Stand 400mm)
XCUT-150	30-9999mm (When in manual use) 60-9999mm (When in auto use)	20-150mm	200mm
XCUT-300	30-9999mm (When in manual use) 100-9999mm (When in auto use)	50-300mm	200mm
XCUT-500	50-9999mm (When in manual use) 100-9999mm (When in auto use)	80-500mm	200mm



Varieties of Tape can be used



Label Dispenser

- Label will automatically come after you take label.
- Remove and dispense over 130 pcs labels per minute.
- Durable for 24 hours operation.

Model	Label Usable Width	Label Length	Dia. of Outside Roll
LDX-60	15-60mm	10-999mm	200mm
LDX-120	15-120mm	10-999mm	250mm
LDX-180	15-180mm	10-999mm	300mm
HLD-2000	10-75mm	15-100mm	180mm
PLD-3000	4-75mm	4-100mm	180mm

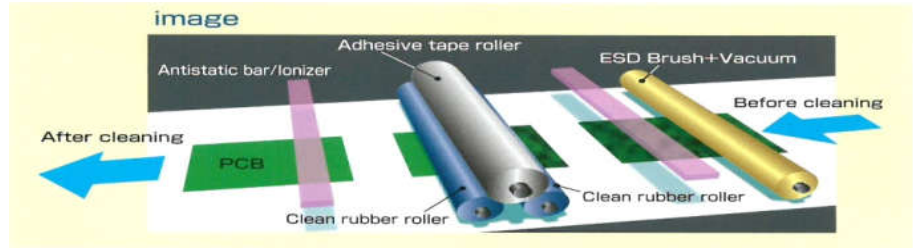


Film Dispenser

- Cut OPP rolled film into various size of lengths at high speed.
- High speed cutting 65 pcs/min (100mm length).
- High durability due to stainless steel body.

Model	Cutting Length	Film Width	Dia. of Outside Roll
FD-160 III (with Film holder)	20-9999mm	160mm	210mm
FD-200 III (with Bobbin)	20-9999mm	200mm	210mm
FD-300 (with Bobbin)	20-9999mm	300mm	210mm





Features

- UC-250, from CITIZEN'S established precision & machining technology - is specially designed for SMT line use
- Able to clean top surface of PCB even chip components attached on the bottom side
- Antistatic bar/ionizer is prepared as standard to neutralize static and to prevent dust from top surface of PCB

Advantages

- Easy to removes dust and other objects from surface of the PWB with strong adhesive rollers without damage to the board surface
- All types of dust can be removed
- Adhesive clean roll removes all dust from rolls
- Ionizer removes electric static on the PWB and preventing the static damage to the electronics components and CMOS chips
- Adhesive tape roll is easy to pull and cut

Operation & Result

- UC-250 can remove glass fiber, dust particles, etc. on top surface of PCB before solder paste printing, and improve production yield. Especially suitable for PCB which is mounted extremely small components

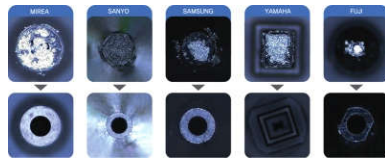


SMT Nozzle Cleaner



Product Features

- X24 Nozzles
- Available Various Cleaning Agents
- Speedy Cleaning
- Detachable Nozzle Holder
- Product State Indication LCD



Dispenser Nozzle Cleaner



Product Features

- Cleaning various types of nozzles
- Speedy Cleaning
- High cleaning performance
- Convenient UI by the touch screen
- Easy handling



Router Collet Cleaner



Product Features

- X6 Nozzles
- Speedy Cleaning
- High cleaning performance
- Detachable nozzle holder
- Product state Indication LCD
- Easy handling





1200 Ltr



600 Ltr



400 Ltr



200 Ltr

- <1% RH Ultra Low Humidity Dry Cabinet.
- 5% RH Dry Cabinet.
- 20 – 50%RH Dry Cabinet.
- Baking 400 C Dry Cabinet.
- Sensor Lock Centralised Monitoring System.

- Humidity Management.
- Digital Nitrogen Controller, Alarm Hygrometer.
- Data Logger & Reader.
- Smart Nitrogen Cabinets.



Data Logger



Storage Bins



N2 Filling Module



Flow Meter

plasmatreat Plasma Surface treatment

Plasma pretreatment is the key enabler technology for microfine cleaning, surface activation and plasma coating of nearly all kinds of materials – from plastics, metals and glass to cardboard, textiles and composites. More and more conventional industrial pretreatment methods are being replaced by plasma technology in order to make processes more effective and environmentally friendly.



Advantages:

- High process reliability
- High cost efficiency
- High degree of activation
- Wide process range
- Environmentally friendly

Uses:

- Plasma Coating
- Surface Activation
- Plasma Cleaning
- Plasma Processes
- Potential of plasma technology




HONDA ELECTRONICS Ultrasonic Cutter

Ultrasonic cutter is a tool to help you with cutting tough material that require strong force to cut.

ZO-91 Model

- The blade of Ultrasonic cutter is vibrated in ultrasonic frequency by internal ceramics transducer.
- High speed vibration, 40,000 cycle per second (40 kHz) assists smooth cutting.



ZO-80 Model

- Based on the comparison with the cutting speed of ZO-91 in High mode when 2mm thick acrylic is cut by the force of 2kgs.
- S-High mode works to cut the object 1.5 times faster than the conventional model.



Ultrasonic Cleaner

High power transducer for superior cleaning result, Obvious cleaning effect can be seen with naked eyes

Digital Ultrasonic Cleaners

Digital Timer and Heating Control	
Ultrasonic Power	50~720 W
Heating Power	100~1000 W
Ultrasonic Freq.	40 KHz
Capacity	0.6~45 L



Industrial Ultrasonic Cleaner



Multifunctional Ultrasonic Cleaner

Digital Timer and Heating Control	
Ultrasonic Power	120~720 W
Heating Power	100~1000 W
Ultrasonic Freq.	40 KHz
Capacity	3.2~45 L



Digital Timer and Heating Control	
Ultrasonic Power	300~3600 W
Heating Power	300~3300 W
Ultrasonic Freq.	20~40 KHz
Capacity	23~250 L


DR. SCHNEIDER PC Static Neutralizers/Ionizers/Air Guns

Bench Top Ionizing Blower

Technical Specification	
Input Voltage	220VAC
Power Consumption	50VA/ 250VA
Operating Temp.	-10°C ~ +45°C
Air Volume Range	50~110CFM
Power	200W



Ionizing Air Gun

Technical Specification	
Operating Voltage	4.6KV
Operating Temperature	-10°C ~ +45°C
Weight	0.4kg
HV Cable Length	3m
Operating Air Pressure	0.3~0.8Mpa



Ionizing Air Bar

Technical Specification	
Voltage	7KV/50Hz
Air Pressure	0.3-0.8Mpa
Discharge Time	≤1.5s(0.5Mpa)
Offset Voltage	≤50V



Horizontal Ionizing Air Blower

Technical Specification	
Input Voltage	220VAC or 110VAC
Power Consumption	Max 250VA
Operating Temperature	-10°C ~ +45°C
Air Volume Range	(50~95)CFM
Weight	7.5kg
Size	460x 225x 190mm



The KED products cover wet type processing equipment for SEMICON, PCBA and SMT industry, cleaning applications like Wafer, CMOS, Flexible PCB, PCBA Flux, Stencil, Squeegee, Wave Pallets, Reflow filters etc.

Cleaning Applications:



PCBA



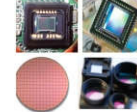
WAVE PALLETS



STENCIL



SQUEEGEE



WAFER, CMOS, HOLDER ETC



REFLOW FILTERS



A low and middle volume PCBA batch cleaner for flux residual. Clean, rinse and dry sections are completed in one chamber.
Max clean capacity:
610mm (L) *560mm (W) *100mm(H)

Inline Cleaning Machine for High volume PCBA Cleaning.
Standard process: Pre cleaning->Cleaning->Chemical isolation---Pre rinsing-Wind cut isolation---Rinsing---Rinsing 2---Final spray--- Wind knife 1 cutting water--- Wind knife 2 cutting water --- Hot air drying



Model: K1800
Fully Automatic Pneumatic stencil cleaning machine Compact, Easy to operate, Easy Maintenance
Process: Cleaning and warm air dry
Max Stencil size: 750 X750X40mm



Model: K3000L-Water based cleaning machine
Fully Automatic stencil cleaning machine for water based cleaning solutions
Process: Cleaning-Chemical isolation- Rinsing (Open / close loop) – hot air knife drying
Max Stencil size: 750 X750 X40mm

Model: D500
Wave pallet, reflow filters cleaning machine.
Cleaning Process: Cleaning Chamber, Rinse Chamber, Dry Chamber(Optional)
Cleaning principle: Ultrasonic + bubbling + overflow
Cleaning chamber dimensions: 675 mm (L)*705 mm (W) *300 mm (H)



Model: D1000
Fully Automatic wave pallet, reflow filters cleaning machine.
Process: Cleaning, rinsing and hot air dry in single chamber
Cleaning Area dimensions: 1040mm X height 518mm



Model: AST-C300
Fully Automatic Semicon Wafer cleaning Machine
8-12 Inch single wafer dry-in/dry-out clean platform for particle/(in)organic/flux cleaning in advance package process



Model No: CPC-600
High Cleanliness system;
High pressure -Two Fluid-Centrifugal dry;
Application: Wafer, CMOS, Holder, Holder+IR,LCD, VCM
Process: Cleaning dust particle



Model No: SCM-600
Application: Cleaning SMT Squeegee
Cleaning Process: Applied ultrasonic and high pressure spray cleaning and rinse, Hot air knife drying

GAM 320/GAM330 Vision Added Automatic PCB Separator

Features

- Equipped with high-speed CCD vision alignment system in all series of products to enhance the precision in cutting and efficiency in operation.
- Use high-speed spindle with small cutting stress to precisely cut PCB of any shape.
- Provide dual worktables. While one is used for cutting, the other can be used for loading to enhance efficiency of production.
- Patented dust collector with low noise and high efficiency. Easy to clean and maintain.
- Windows OS and window-based interface panel. Safe, stable, easy to learn and operate.



GAM 320AT In-Line Automatic PCB Separator

Features

- In-line automatic PCB separator can load, cut, and un-load PCBs automatically to meet the needs of automatic factory.
- Can automatically adjust width to adapt to the size of PCB. Can automatically differentiate finished PCB board from waste material after cutting for saving labour costs.
- Provide dual worktables for placing and cutting PCB in parallel to enhance the efficiency of operation.
- The system has auto-focusing function and requires no manual operation to adjust focus.
- Use high-speed spindle for cutting with auto tool-change function. Save a lot of time in tool change by hand.
- Automatic detection of broken/dropped/reversed milling tool in auto tool-change.
- The MES central control system can be linked to upper information management system and provide integrated production data to monitor the status of equipment at anytime.
- The “upper dust collector” incorporated with “flexible cleaning brush module” enables deepening the milling tool to prolong the life-cycle of the tool’s usage. (GAM 330AT).
- Provide automatic open/close switching module for clamp plate.

Specifications

ITEMS	GAM320	GAM320AT In-Line
Valid cutting size	300*350mm	300*350mm
Cutting function	Linear, L shape, U shape, circular, Arc	
Process table	Dual tables	
Repeat precision	± 0.01mm	
Cutting precision	± 0.1mm	
XYZ axis driving mode	AC Servo Motor	
Spindle speed	Max. at 60000rpm (Adjustable)	
Tool change type	Auto tool change	
Router bit detection	Automatic router bit detector	
Routing speed	1~100mm/sec (Adjustable)	
Adapt to routing bit size	ø0.8~3.0mm	
Dust collector power efficiency	3HP	3HP
Dust - collector method	Standard to assemble the down dust collector. (The Up dust - collector is an option)	



Lower Dust Collector



Upper Dust Collector

SMT Equipment



SMD Chip Counter



Stencil Hole Cleaner



Solder Paste Height Checker



Solder Paste Mixer



Reflow Checker



V-Cut PCB Separator

BOARD HANDLING & AUTOMATION SYSTEMS

Board Handling Systems control the flow of “Printed Circuit Boards” (PCB) in an automatic assembly line.

We supplies flexible manufacturing systems to the electronics manufacturing industry to automate the manufacturing processes.



Laser Marking Machine



Auto Label Machine



Bare PCB Cleaner



Magazine Loader



Magazine Unloader



Destacker



Vacuum Loader



90 Degree Turning Machine



Inverter



Link Conveyor



Inspection Conveyor



Telescopic Gate Conveyor



Wave Loader



Wave Unloader



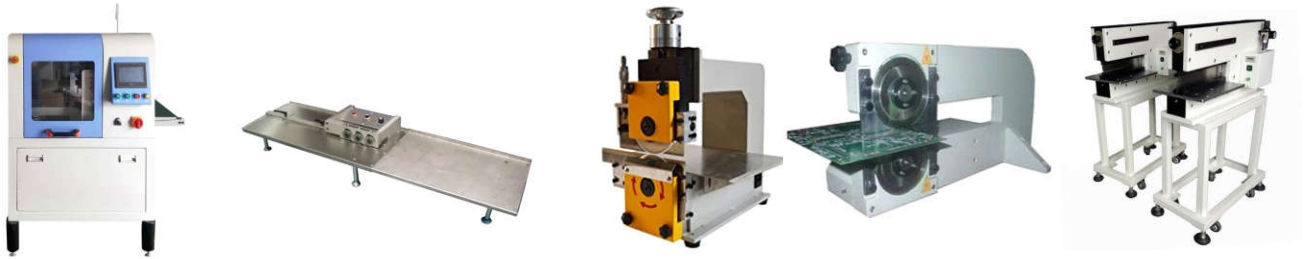
Reject Conveyor

Component Pre Forming & PCB Separator Machines

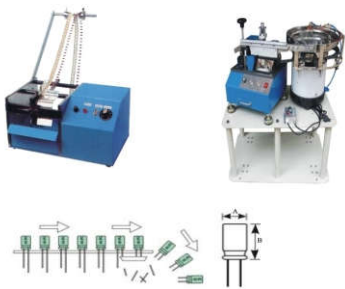
Main products:

- PCB V-Cut Separator
- Radial Component Lead Cutting Machine
- Axial Lead Forming Machine
- Transistor Lead Forming Machine
- Functional Forming Machine
- Jumper Wire Lead Forming Machine
- Automatic Soldering Robot
- Solder V-Groove Feeder
- IC Forming Machine
- Stripping Cutting Machine
- SMT Counter and SMT spare parts
- Bowl Feeder

PCB V-Cut Separator



Radial Component Lead Cutting Machines

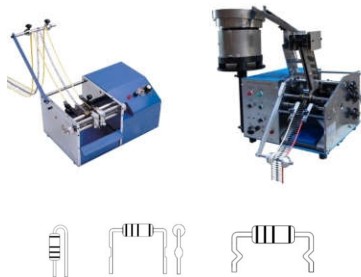


Available:
Radial Component (Capacitor, LED, Varistor)

Ability:
Lead Cutting

Mode:
Taped, loose, manual, automatic, stick feeding

Axial Lead Forming Machines



Available:
Axial Component (Resistance, Diode, Inductance)

Ability:
Form, kink, cut, bend, punch

Mode:
Taped, loose, manual, automatic, customized

Power Transistor Lead Forming Machine



Available:
SMD Component (SMT, Triode, I.C., Transistor)

Ability:
Form, cut, bend, kick

Mode:
Intermittent press, roller press, stick feeding

Automatic Bulk Components lead Forming & Testing Machine



Jumper Wire Forming Machine



Solder V-Groove feeder



Screws/Washer counting & Packing Machine



Symor Instrument Equipment Co.,Ltd (Climatest Symor® below) is one of leading environmental test chamber manufacturer in China, located at Dayang Industrial Park,Hefei.Climatest Symor® integrates state-of-the-art climatic chambers' R&D with advanced production capacity.Through 20 years' striving efforts, Climatest Symor® has developed to be China top enterprise in climate simulation field, we have production factories in Hefei and Changzhou City.



Drying Oven



Aging Oven



Vacuum Oven



Thermal Shock Chamber



Salt Spray Corrosion Test Chamber



Temperature Humidity Test Chamber



Rain Test Chamber



Benchtop Vacuum Oven



Walk-In High Temperature Aging Test Room

JBC

A complete range of Soldering, Desoldering, SMT Rework, IR and Conventional Pre Heaters

Key Features:

- Soldering at lower temps - 50°C less than other brands
- Fast temp recovery - 350°C in 2 secs
- Tip life 5 times - Using Sleep & Hibernation modes
- Increase your productivity - Easy cartridge extraction saves time
- 6 different tools - Control unit accepts 6 tool changes
- Ergonomic tools - Comfortable & light
- Easy-to-use Menu - Over 20 parameters to personalize your station
- 400 cartridge shapes - to suit all your needs
- Constant product innovation - is our commitment
- Communication Station - PC - The freedom to manage your work remotely



Digital Microscopes and Measurement Systems



Video Measurement Systems



Digital Microscopes

Laser Marking Equipments



Fiber Laser Marking Machine



PCB Laser Marking Machine

Other Peripheral Equipments



Fully Automatic Vision Solder Paste Screen Printer



Fully Automatic Odd form Pick & Place machine



X-Ray Inspection System



BGA Rework System



Solder Dross Recovery System



Fume Extractor



ESD PCB Magazine Rack



ESD Magnifying Lamp

Consumables



Routing Bits



Soldering Bits



SMT Nozzles



Magnetic Ring



Spring Balancer

Some Proud Associations



OUR GALLERY





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NEW DELHI

PLOT NO. 86, 1ST FLOOR, KHASRA NO. 31/25, MATIALA, EXTN., DWARKA SEC-3, NEW DELHI-110059

TEL.NO.: +91 93152 58722 MOBILE: +91 92120 64121

EMAIL: HIBEXINDIA@HIBEX.COM.SG

BRANCHES:

BANGALORE

NO.469, 29TH MAIN, 10TH CROSS, HSR LAYOUT SECTOR-1, BANGALORE-560102

TEL.NO.: +91 80409 73920 MOBILE.: +91 96633 07406

CHENNAI

POONAMALLEE-CHENNAI

MOBILE.: +91 96770 22567

MUMBAI

VIRAR (W)

MOBILE.: +91 77678 97466

PUNE

HADASPER-PUNE

MOBILE.: +91 81491 15564

AHMEDABAD

SANIDHYA-AHMEDABAD

MOBILE.: +91 8559846121

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