

Shimada Appli Table Coater(ECM350)

Table-type spray coat workcell capable of continuous mid-coating with simple

Shimada Appli's ECM-350 table coater enables accurate spray coating to designated locations for uniform batch production. By using Shimada Appli's FS-type micro spray gun or micro electrostatic spray gun on the board that requires coating, it is possible to apply the coating only to the required areas, so coating can be achieved almost without a mask.

Capable of depositing a wide range of functional materials

Uniform coating for accurate coating stability due to automated process of equipment.

This coating system offers a choice of application applications, including solvent-based, water-based and high-viscosity solvent-free materials, enabling uniform application to desired locations. The system is designed to fully demonstrate the performance of thin film applications of 1 micron or less and functional materials that require film formation of several tens of microns.

Easily achieve the required coating versatility

Provides controls for quick and easy operator access

ECM-350's simple menu program software can handle complex boards in a matter of minutes, and because it enables coating, teaching time for production preparation and labor time such as software management can be greatly reduced.

Improved material usage efficiency by more than 50%

Precise discharge control eliminates wasted material.

Compared to other spray coatings, we have accumulated know-how to suppress wasteful liquid ejection and reduce the amount of material used. (Depending on unique nozzles, countermeasures against clogging, and coating style.)

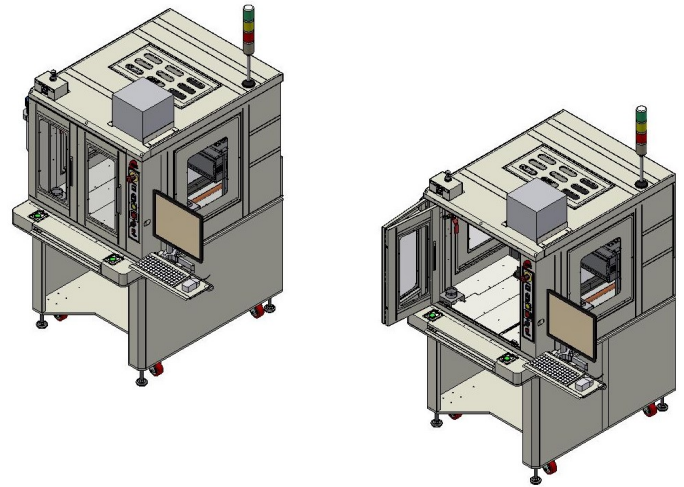
Simple menu coating programming software

Easy programming teaching with Easy coating manager (application dedicated program software) equipped with ECM-350

Dedicated commands are provided for easy teaching of complicated coating patterns using the menu-driven PC software, eliminating the hassle of creating coating programs. CAD File Conversion is available as an option. It is a system that can be easily automated to meet future diverse product requirements in insulation and conformal coating applications.

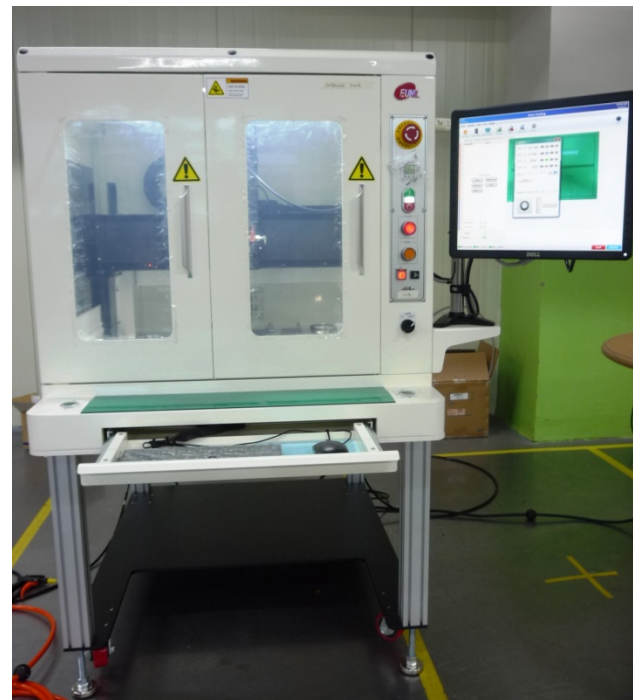
Highly efficient VOC exhaust mechanism

. Due to the down-flow air supply and exhaust mechanism, the exhaust air density inside the equipment is kept uniform, so the exhaust air volume is 5 to 10 m³/min.



Characteristic:

- Small platform workcell for easy maintenance.
- The dedicated coating program can be taught quickly and easily by a simple menu system.
- A selection of dispensing applications for a wide variety of moisture barrier materials to achieve the desired dispensing pattern.
- Design with full consideration for odor, explosion-proof, and safety measures (various interlocks)



ECM-350 system has 3 axes (X-Y-Z mechanism) is a gantry type robot system. Optional table stand.

Shimada Appli table coater basic specifications

Basic spec:

1. Transfer coating substrate size and thickness:
Min. 80x80mm - Max. 220x300mm, 1.0mm to 4.0mm (electrostatic separately)
2. Control PC-based (Windows-10)
3. Setting the workpiece to be coated: front & right reference
4. Width of object to be coated: manual width adjustment front standard
5. Standard equipment dimensions: 900L×770W×960H
(However, CRT, keyboard and tank dimensions are out of range)
6. Adsorption hot plate (optional)

Coating robot 3-axis standard:

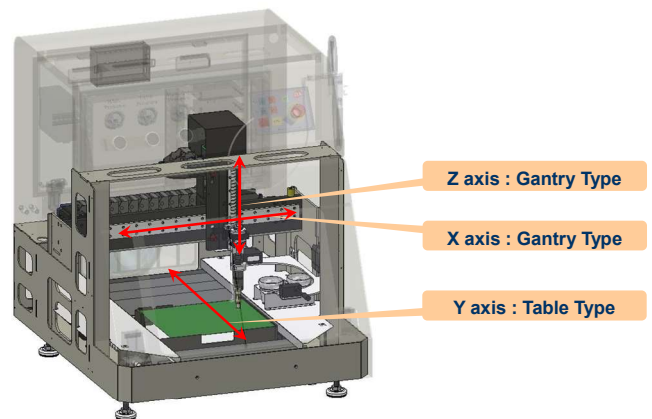
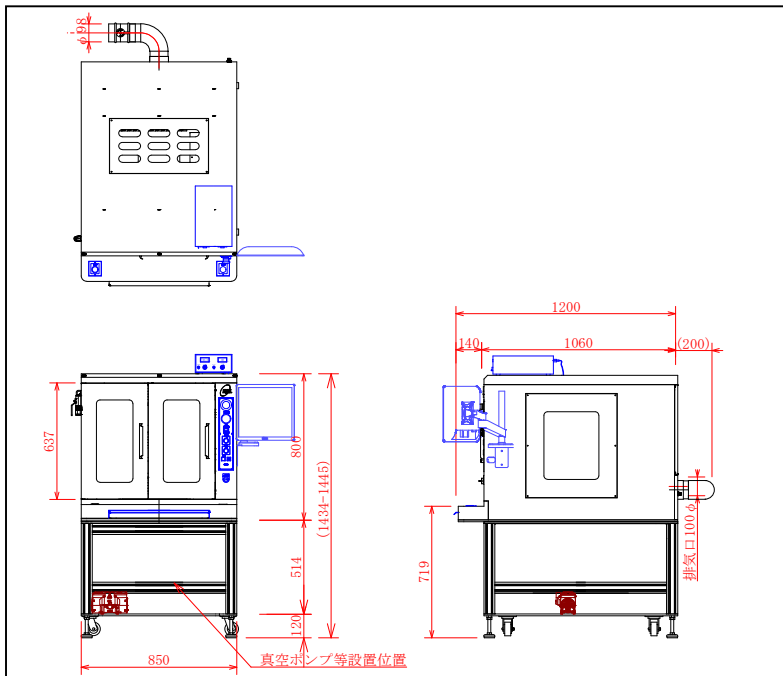
1. 3 axes (X, Y, Z): AC servo robot X: 350W, Y: 350W, Z: 50W
2. Coating speed: maximum 500 (mm/s), Z = 100 (mm/s)
3. Acceleration/deceleration: 3,000 (mm/sec²) standard
4. Coating program: Easy Coating Program

Option:

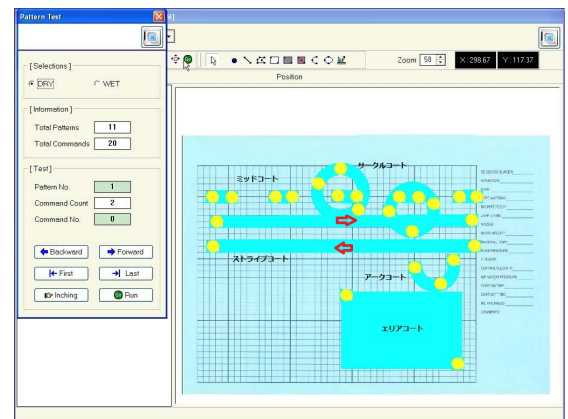
1. CAD file conversion
2. Clean room specifications (dust-proof measures such as internal SUS plate)
3. Exhaust fan unit 650(W)x500(D)x800(H)mm 10 m³/minx50mmAQx0.4Kwh with sound absorption cover
4. Adsorption hot plate
5. FS Microgun's coating liquid supply device

Standard utility :

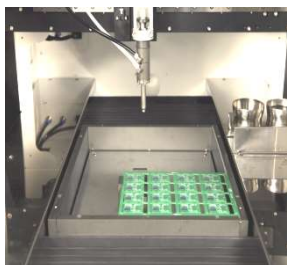
1. Power supply: AC220 (VAC), 50/60 (Hz), 5 (A)
2. Compressed air: 0.4Mpa or more 100l/min
3. Exhaust: Within 10m³/min
4. Operating environment conditions: temperature 10 to 35° C, humidity 60±20%



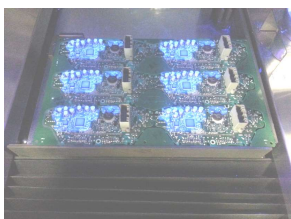
Robot axis configuration



Coating content can be easily drawn on the image with the dedicated coating program.



Inside workcell



Example of insulation coating on PCB



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