Cleanroom Wash / Cleanroom Packing Service

Service description

• Cleanroom Wash and Cleanroom Packing of Product. We will do the cleaning and packing in a cleanroom. It is designed for the parts embedded in the FPD production device, semiconductor manufacturing device, medical equipment and food machinery, as well as the parts used in a cleanroom environment.



Cleanroom Wash

- Cleaning is performed in a washing room with a cleanliness level of ISO Class 7 (Class 10000*1).
- The amount of airborne particulates and microorganisms in the air is checked to control cleanliness.
- You can select 2 cleaning methods for the product. USC -- Ultrasonic cleaning IPA cleaning
- *1: Figures in parentheses are "U.S. Federal Standard (FED-STD-209E)" cleanliness class.



Cleanroom washing

Cleanliness Level ISO Class 7 (Class 10000*1)

Cleanroom Packing

- Cleanroom-washed products are double-packaged with vacuum on the clean bench in a cleanroom.
- The cleanliness level inside the cleanroom is ISO Class 6 (Class 1000*1), and the clean bench for packaging is ISO Class 4 (Class 10*1).



Vacuum double packaging

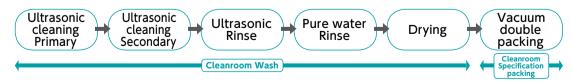
*1: Figures in parentheses are "U.S. Federal Standard (FED-STD-209E)" cleanliness class.

Cleanroom Packing

Cleanliness Level In a cleanroom: ISO Class 6 (Class 1000*1

Cleanroom wash & packing process

• **USC** Ultrasonic cleaning (suitable for rust-resistant materials like stainless steel)



• **IPA** IPA cleaning (suitable for rust-prone materials like steel)



Applicable Products

• Available / Add'l charge is displayed at the end of each product page for the target product.



• Cleanroom wash and cleanroom packing are complete for the product with \(\sqrt{Cleanroom Wash & Packaging} \) or Cleanroom icon on top of the product page. The cleaning method is **USC** ultrasonic cleaning.



- The supported size for a single cleanroom wash and cleanroom packing is up to 250 mm (L)×300 mm (W)×100 mm (H).
- We can handle products other than those listed in this catalog or other cleaning and packaging method of your choice. Please feel free to contact our customer service.

Fees • Delivery

Please feel free to contact us.

Part number specification



Checking the effect of cleanroom washing

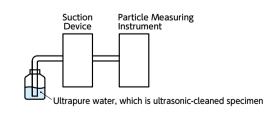
Measuring the particles

After washing the test samples of **USC** ultrasonic cleaning completed and **IPA** IPA cleaning completed, as well as untreated test sample, with ultrapure water, we measured the number of particles floating in the ultrapure water.

The higher the cleaning power, the fewer the floating particles will be.

Test sample: SUS303 ϕ 19×20

Test method: Automatic liquid particle counter measurement



Number of particles floating in the

uitrapure water			Unit: pc
Particle size	USC Ultrasonic cleaning	IPA cleaning	Untreated
≧0.3μm	220,000	7,000,000	210,000,000
≧0.5μm	51,000	1,900,000	37,000,000
≧0.7μm	15,000	640,000	9,700,000
≧1.0μm	3,100	160,000	1,400,000
≧2.0μm	280	29,000	240,000

• The values in the table are actual test values and are not guaranteed values.

Measuring the residual oil content

We measured the residual oil content on the product surface after cleanroom washing.

Residual oil content after cleanroom washing

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Particle size		IPA IPA cleaning	
Residual oil content	0.3 mg/ft ²	1.5 mg/ft ²	

- The values in the table are the actual test values. The result varies depending on the product size or shape.
- NBK measures the residual oil content on a periodic bases to make sure that the residual oil content after completing the **USC** ultrasonic cleaning is not more than 1 mg/ft².