

MATSUNAMI's Technology (12 times in total)

Episode 6: Ultrasonic precision cleaning



MATSUNAMI possesses various types of Ultrasonic precision cleaning technology. In response to each customer's specified request, we provide our cleaning service to meet customer's needs.

Ultrasonic cleaning lines enable our cleaning process from the beginning to the end including cleaning, rinsing, drying and inspecting.

Processed glass will be automatically moved into clean room, and then be delivered to customers without any concern on glass appearance defect.

Advantage

- High quality for optical colored glass, cover glass for high-pixel camera modules which request 3 μm appearance quality guarantee.
- Various size, thickness, small lot of sample trial are available.
- Ultra-precision ultrasonic cleaning and single-wafer brush cleaning are available; according to product features and customer requirements.
- Maintain high wettability on the glass surface after cleaning.
- Various stains such as particle stains, organic stains, and inorganic stains will be removed.
- We also undertake contract processing of specified glass (from trial to mass production).

Equipment



Brush cleaning line

Single-wafer brush line for various sized glasses
Up to 550mm width
Brush physically removes dirt from the glass surface.



Ultrasonic cleaning line

7-tank ultrasonic line for large sized glasses (Up to 500mm)
15-tank for higher precision cleaning which will remove even minute stains

Application

- It is possible to finish an extremely clean glass surface without scratches, appearance defects, or dust.

Cover glass for image sensors (CMOS, CCD, etc.), Optical glass filter (IR / UV, etc.), Cover glass for camera modules (Digital cameras, in-vehicle cameras, industrial cameras, surveillance cameras, distance measurement, image recognition cameras), optical equipment, optical communication devices and so on

Size

Facilities	7 tanks ultrasonic cleaning	12 tanks ultrasonic cleaning	15 tanks ultrasonic cleaning	Brush cleaning
Minimum size	□ 100mm	□ 1mm	□ 1mm	□ 130mm
Maximum size	□ 500mm	280mmx170mm	280mmx170mm	650mmx550mm
Washing process	Ultrasonic Pure water	Ultrasonic Alkaline liquid Isopropyl alcohol drying	Ultrasonic Alkaline liquid Isopropyl alcohol drying	Brushing physically Alkaline liquid Air knife drying