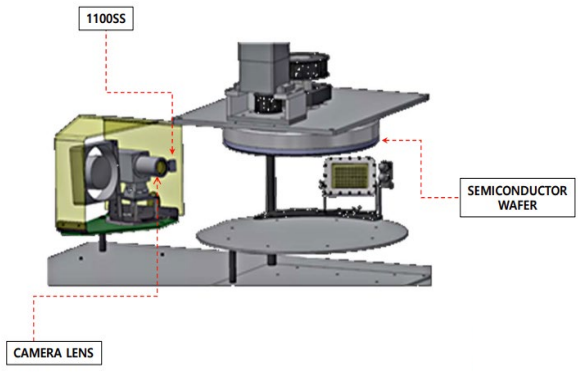
EXAIR® Case Study

STUDY #1593

APPLICATION GOAL: To improve inspection accuracy and reliability by spraying dust off the camera lens of semiconductor inspection equipment; extending lens life and reducing labor.



BEFORE EXAIR: The customer manufactures inspection equipment to confirm the flatness of semiconductor wafers.

Problems occur when foreign material such as dust attach to the camera lens; causing inspection errors.

To resolve the problem, people performed direct cleaning on a regular basis using chemicals. As a result, chemical and wiping damaged the camera lens incurring replacement costs.

In addition, labor cost for clean-up and replacement lenses were a negative aspect for equipment sales with increased maintenance cost.

AFTER EXAIR:

Recommended air cleaning with the Model 1100SS Super Air Nozzle.

The reason is to create a non-contact wiping; so that, there is no need to purchase cleaning chemicals and no longer necessary to replace the camera lens due to abrasions from wiping.

Labor costs had reduced because manual lens cleaning was no longer required.

A more reliable machine with less maintenance makes it a more attractive purchase for customers.

SUMMARY:

The saving cost for one machine a year

lens Exchanging periods : 4 times / year		
lens price	$39/EA	$156/year

lens cleaning time : 10min / day		
payroll costs	$1.60/day	$384/year

Total saving costs : $540/year

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