

# Case studies

## Automotives

“The Fog Engineers”  
H. IKEUCHI & CO., LTD.

### Process: Bumper painting

## Dry Fog that suppresses dust and mitigates particle attraction dramatically reduces bumper paint defects

Bumper paint defects caused by airborne dust and particle attraction to product surfaces.

A car bumper manufacturing plant was busy in reworking or disposal of 600 units with paint defects out of a daily output of 20 thousand bumpers.

While the company had already implemented basic measures to prevent dust and lint from being carried into the processes, the paint defects occurred mainly at the time many employees move in and out to start or resume working in the morning and in the afternoon.

The customer that understood benefits of Dry Fog Humidification System effective both for dust suppression and humidification to mitigate particle attraction to the bumpers decided to install the system at one place for a trial.

The trial proved visible effects letting them to step forward towards a full-scale installation.

Dry Fog Humidification brings dramatic effect, and investment pays off within one year.

Reducing airborne dust particles of 10  $\mu\text{m}$  diameter or more down to 1/10, together with the effect of humidification preventing static charge from building up, the system reduced the products with paint defects by 50 units a day.

The customer successfully reduced the defective products equivalent to \$43K a year, and is planning to extend the system to other processes including night storages, conveyor lines and walkways.



### Dry Fog Humidification System AirAKI®

Humidification System that sprays Dry Fog, which doesn't wet anything it touches, prevents dryness and static electricity, improves product quality and reduces a defect rate.