

AIRKNIVE SYSTEMS - IONISATION BARS

Blower-powered Ionised Air Knives produce fast-moving ionised air which has the effect of neutralising static electricity and remove contaminants. They can be used to clean plastic parts, mouldings, glass automobiles and other large objects - removing the dust and eliminating the static electricity to prevent re-attraction.



- Powerful ionisation kills the static charge holding the dust, allowing the fast beam of laminar air to remove it for a thorough cleaning.
- The laminar airflow limits the recombination of ions in the air and so maximises the static neutralisation performance.
- Available in a wide range of lengths, all are simple to install and regulate.
- 'EX' bars available for applications in hazardous environments.

Benefits and advantages

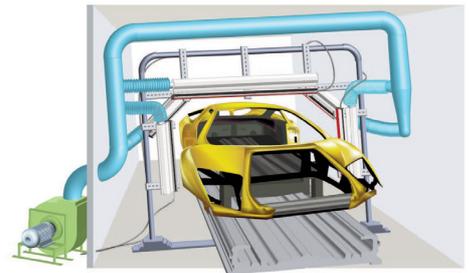
A system typically consists of one or more ionised air knives connected to an external centrifugal blower. The blower produces a high volume of air which exits from the Air Knife in a fast laminar flow.

- Cost saving of up to 70% compared to other systems.
- Static neutralisation power - up to 50% better than competitive systems - to break the electrostatic bond between the dust and surface and to prevent re-attraction of dust.
- Air cleaning speed of 110m/sec at the slot of the Air Knife for thorough and powerful cleaning.
- Longer range cleaning power than compressed air systems.
- More performance per kilowatt of power. For example, competitors offer 7.5kW motors to match the performance of our 5,5kW motors - saving the customer money every minute of operation.

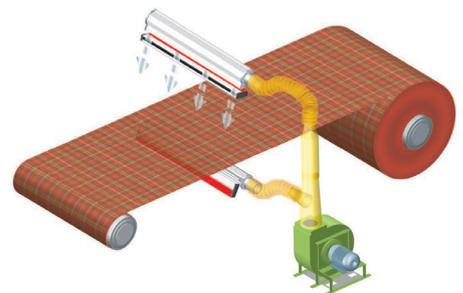
Eliminating Dust Contamination

Dust contamination is a huge problem in many areas of industry - especially where the product needs to be painted, decorated or laminated. Rectifying dust problems can have very large associated costs:

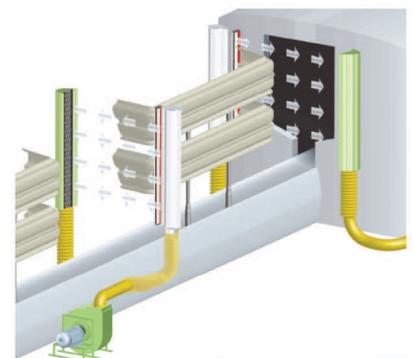
- A large automotive manufacturer calculated the cost of repainting a car at over €3000.00.
- A dust contaminated bumper cost over €150 to repaint.
- A company who makes aircraft cockpits calculated the cost of dust included in the lamination could be as high as €50 000.00



Cleaning full automotive bodies



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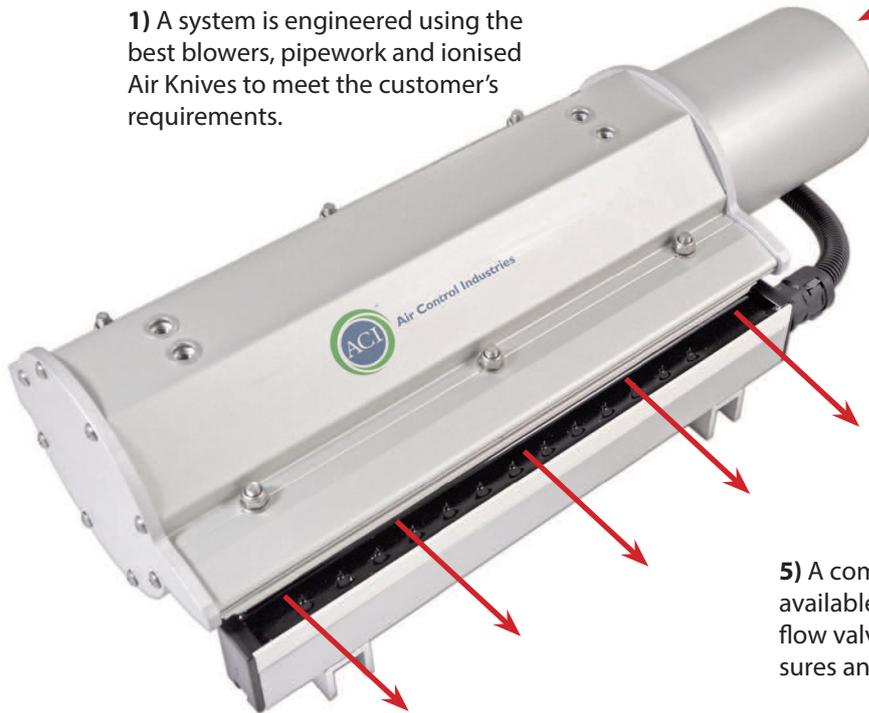


Cleaning full automotive bodies

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How it works:

1) A system is engineered using the best blowers, pipework and ionised Air Knives to meet the customer's requirements.



2) Air from the Blower enters the air knife at the correct pressure and volume for maximum performance.

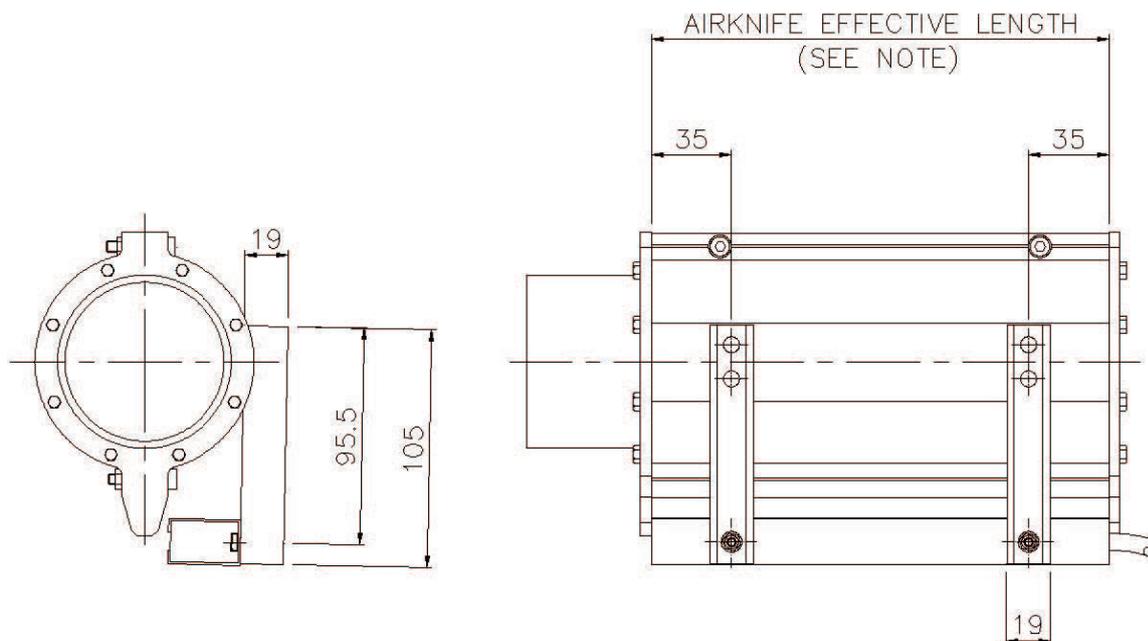
3) The air exits from the Air Knives in a fast-moving linear beam. With an airspeed of over 110m/sec it removes the most stubborn statically attracted dust.

4) There is a wide choice of air entry and mounting possibilities for the best engineered installations.

5) A complete range of accessories is available, including filters, pipework, flow valves, silencers, acoustic enclosures and remote monitoring.

6) The Static Eliminator Bar ionises the air as it passes over, giving it the power to neutralise static charge.

Outline Dimensions:



Notes:

1. Air Knife effective lengths up to 990mm require 2 x mounting brackets as shown
2. Air Knife effective lengths from 1000mm to 1990mm require 3 x mounting brackets, as shown, plus a third placed at the centre
3. Air Knife effective lengths from 200mm to 3000mm require 4 x mounting brackets, as shown, plus 2 more equally spaced

Please note (1) - all drawings measurements are in millimeters (mm)
Please note (2) - above technical specifications are subject to change