

Case History 169

Industry:

Iron and Steel Foundry - Machine shop

Components/Products:

Utilizing alloys of iron and steel, various products are produced from components for the extraction, refining and transportation of oil and gas to large dies for the automotive industry.

Background:

As an added service, this Buenos Aires Foundry has very large CNC equipment to machine the cast components to meet customer requirements. During the machining process a large quantity of metal chips can be produced.



Machine Shop

The Problem:

When carrying out the machining operations chips fell on the slide ways and guides. This resulted in costly damage to the machine and production of non-conforming product. Originally a large rubber shield covered the whole area to prevent this problem occurring, but over time cutting fluids and abrasion took their toll and the rubber disintegrated.



CNC Machine



Chips seen on slide ways

The Solution:



Six **EXAIR Super Air Knives Model BP110006** were mounted on the carriage (three each side) above the slide and guide ways. The Super Air Knives completely covered the six individual slide ways with a uniform sheet of high velocity air so the chips would be blown off as the carriage of the machine was moved.

Comment:

The customer is now repeating this proven solution and using cost effective **EXAIR Super Air Knives** on other machines. Non-conforming parts, chip damage on slide ways and maintenance costs due to replacement parts have significantly reduced.

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