



Contractor



Location:

Duxford, Cambridgeshire



Products Used:



DUSTEX®
Dust control



SOUNDEX®
Noise control

A bespoke dust control solution protects the past, present and future of a historic collection during hangar floor replacement project

Project Overview

The Imperial War Museum in Duxford is Britain's largest aviation museum, housing nearly 200 aircrafts, vehicles, artillery and other military collections. To preserve the condition and keep the collection pieces in working order, the museum has a hangar dedicated to the maintenance of the aircrafts on display.

When a section of the floor in a live maintenance hangar needed replacing, OnSite Central were appointed as the trusted contractor to fix it.

Challenge

Due to the historic importance of the aircraft and vehicles in the maintenance hangar, it was vital that any works carried out did not disturb the integrity of the museum's collection.

OnSite Central identified that, because the floor in the hangar was made from concrete, any jackhammering or cutting activities would produce large amounts of dust. If the dust was not captured and contained, there was a high risk of it settling on localised vehicles, impacting the workings of machinery inside the hangar and disrupting the flow of live maintenance works taking place.

If the dust produced became airborne, there was the added risk of contractor and museum workers inhaling hazardous dust.

After identifying the risks, OnSite Central reached out to RVT for a specialist solution to their sensitive project.

What Did The Solution Look Like?



DUSTEX® DustMaster® Pro



SOUNDEX® Construction Enclosure



MONITEX® Dust Monitor



DUSTEX® B4 Vacuum

“ Please accept my gratitude on how professional RVT has been with the issues we've had at Duxford” - Delivery Manager, OnSite Central ”

[Enquire Today](#)

Solution

RVT exercised their 3C's® methodology (Capture, Contain, Control), so that the contractor was able to effectively manage the risks dust presented via the following:

Capture

A DUSTEX® DustMaster® Pro captured dust at the source, extracting and filtering it up to HEPA standard so that it could be removed and disposed of safely.

Contain

A SOUNDEX® Construction Enclosure was erected over the area of floor being replaced. Not only did this allow OnSite Central to contain the dust, but also reduced the noise of the works taking place and minimise the disruption for the maintenance work continuing nearby.

The dust control unit and enclosure working in tandem, put the work area under a 'negative pressure', meaning dust could not escape and migrate to other areas in the hangar.

Control

A MONITEX® Dust Monitor was installed outside of the enclosure to continuously monitor localised air quality and dust levels before, during and after the works. This allowed OnSite Central to access dust particulate measurements at any time, reassuring the on-site teams that any potential risk of dust exposure could be intercepted if needed.

Once the floor had been replaced, a DUSTEX® B4 Vacuum was used to remove any remaining debris inside of the enclosure, ensuring the project was kept dust-free from start to finish.

