

Eight Aggregate Industries Plants Upgraded By Autoflame

Autoflame were initially approached to work with Aggregate Industries (AI) at their Darwen plant in the North of England. This delivered a rapid payback period and led them to upgrade a further eight sites across the country, with more locations planned for years ahead. The objectives were to reduce fuel consumption and emissions, while completing installations with minimal manufacturing downtime.

Bespoke upgrade projects were implemented across eight Aggregate Industry sites using the existing burners where possible to minimise upgrade costs. Al's Darwen plant was able to be 'retrofitted' – a cost-effective solution which involves modifying the existing burners with Autoflame's Combustion Management System to improve overall performance, reliability and reduce operating costs.

The existing burner at Al Stockport required a complete upgrade. Limpsfield burners were chosen for their reliability and to enhance the Autoflame system. Variable Speed Drives (VSD) were also included in each project to control the running speed of the combustion fan – reducing electricity costs.

With the nature of this industry, any maintenance or upgrade work on aggregate dryers can result in suspended production. Autoflame engineers successfully completed the installations on time, working with on-site electricians in staged fixes to avoid disruption.

Aggregate Industries are a leading supplier to the construction industry specialising in producing building materials such as asphalt and concrete.

Existing Equipment:

Ineffective Dryer Burners in 8 sites

Solution:

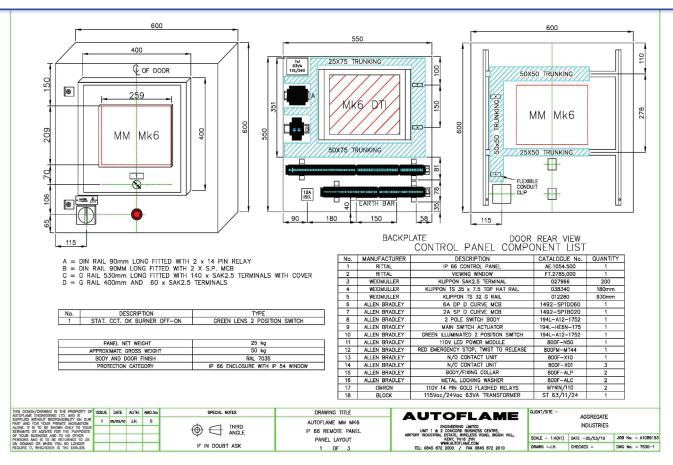
Autoflame Combustion Management System Retrofits, VDS's, Limpsfield Burner for Al Stockport

Benefits:

- Reduced fuel consumption
- Minimal manufacturing downtime
- Reduced electricty costs and emissions
- Ability to control the running speed of the combustion fan







Project Drawings

The daily use of aggregate dryers mean that energy consumption is high on the agenda, and it is essential for plants to run reliably.

Dryer burners are responsible for 80% of the energy used in aggregate production and emit more CO2 than any other equipment on site. With this in mind and the fact that most aggregate dryer burners are not as effective as they could be, Aggregate Industries realised the urgency to upgrade their plants and have reaped the benefits of investing in Autoflame.



Autoflame operates worldwide with 60+ technology centres performing installation and support. Founded in 1972, Autoflame is a British manufacturer based near London. It ensures industry-leading quality control and innovation by performing in-house R&D, engineering, software development, manufacturing production, and technical support.

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