



Graeme Kruger

### Sparks and static

Graeme has experienced in his career a growing interest in solutions, particularly as European parent organisations have introduced new controls including those of safety measures in high risk areas and clean

room environs. The Atex equipment must comply with both European Union standards as well as local SABS standards before being delivered to the end user. For any company, this type of



investment is often a sort of insurance, against dangers such as sparks and static.

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“Dust explosions” are often not reported. Many materials which oxidise can generate a dust explosion, such as coal. Other common materials such as maize, flour, sugar, powdered milk and pollen can also create a dangerous dust cloud. Many powdered metals can form explosive suspensions in air. A similar problem occurs in saw mills and carpentry shops. To create combustion, the dust must consist of very small particles with a high surface area to volume ratio, for instance

in bakeries and the confectionery industry, where the vacuums are used for dust extraction on production machinery and the cleaning of charred particles from ovens.

**Filtration**

Similarly, mobile or fixed machines can be used. In the engineering and metals industries, cleaning can be extended to the filtration and recovery of oil and coolant, and the saving and recycling of the clean liquid into machine tools. GCE has years of experience and expertise in high efficiency particulate air (HEPA) filtration techniques. The Delfin range provides the same filtration capability on its equipment should it be required for the collection of hazardous dusts and to meet clean room specifications.



Appropriate filter systems are supplied, and maintenance costs are low. GCE, together with Delfin, aims to put a solution together to suit clients' needs with a complete range of applications. Founded in South Africa, GCE (formerly known as Tennant SA) also offers a range of sweepers (available for rental) and high pressure cleaners.

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