

GPS30 Glass Purification Plant



Krysteline

Krysteline is a specialist in glass processing technology and the inventor of the revolutionary glass Implosion process originally developed to satisfy tough new environmental legislation that prohibited the dumping of waste at sea. The Imploder's unique operation efficiently transforms all types of glass into sharp free particles and delivers significant benefits over traditional slow speed crushers. Due to their inherent reliability and low power consumption Imploders quickly became the standard for all major cruise lines, and were adopted by NATO for use in warships. Krysteline now delivers a comprehensive range of processors from small commercial units, to high performance purification plants processing up to 60,000 tonnes per annum. All are based on the patented Implosion technology.

GPS30 Glass Purification Plant

The GPS30 is an industrial purification system capable of transforming contaminated waste glass into high value glass crystals suitable for use in industry. The GPS30 can deliver consistent high quality, sterile granules of glass, in sizes from 10 microns up to 30cm, at the rate of 30 tonnes per hour input feed. The system utilises Krysteline's rugged high performance K Series Imploders integrated with proven industry equipment to provide a seamless system that will recover glass from even the most contaminated waste streams.

Non-glass waste such as metals, plastics, and fibres are separated and recovered for recycling, and Krysteline's waterless cleaning system further refines the Imploded glass which results in the removals of almost all organics, salts, and other contaminants. The absence of water aids the screening of small fractions to a very high specification and also ensures



A SCADA management system controls all aspects of the systems operation and management

GPS30 feedstock can include container, (including full sealed bottles), float, toughened or CRT glass. Even co-mingled MRF residual waste with a high non glass content can be processed and the glass recovered and re-used.

Benefits

The GPS30 transforms waste glass typically not viable for traditional recycling and destined for landfill or low value "aggregate", into top quality added value products for industry. These include:

Grit Blast Media-Water Filtration Media-Fibre Glass Feedstock- Sports Turf Dressing-Resin Bond Filler-Paint Fillers- Reflective Paint



Environmental Project of the Year 2006 Awarded to Krysteline GPS30 by Belfast City Council



Krysteline Imploders achieve NATO codification in 2003. Installed on HMS Illustrious & HMS Ark Royal

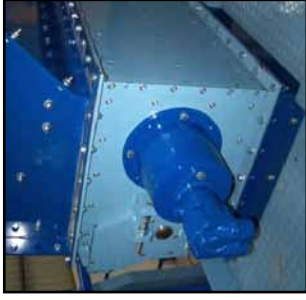
GPS30 Purification Product Flow Chart



Feedstock typically confined to low value or landfill.



K1000 Imploder
30 TPH Input.



Powerful K1000 processes mixed glass waste stream. Imploding glass at high speed.



Scalping Screen removes large non-glass waste.



Implomation frees up plastics, metals and organics, improving separation and recovery.



Ferrous/non-ferrous metals separated.



Metals recovered from glass waste stream.



Waterless Drying Kiln Purifies Imploded glass.



Proprietary kiln produces a dry, clean, organic free product ideal for high specification screening.



Krysteline's unique, sharp free sub-angular cullet is ideal for new industry applications.



Continuous flow discharging.



High purity and consistent grades.



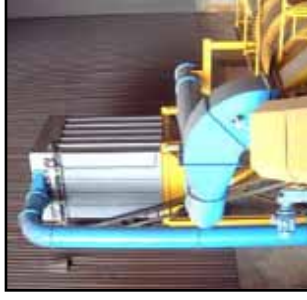
Dry cullet aids screening to exceed PAS 102.



Product screened to suit high value "fine" market demand.



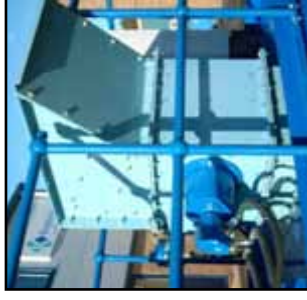
Tailored Heat Proof Filtration system.



Separates organics whilst retaining <400micron valuable ultra-fine product.



Cascade Implomation re-Implodes oversize.



Improves profitability ensuring a high output highest value fractions.



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