

GPS15 Processing plant



Krysteline

Krysteline are an environmental technologies business which has designed and developed glass recycling equipment based around its revolutionary Implosion system. The glass Implosion system is designed to target the glass element within a mixed materials feedstock, subjecting it to momentary vibrations which cause the glass to implode, become sharp free and reduce its size in an efficient and controlled process. This efficient removal of glass from the mixed materials feedstock maximises recycling of non glass items, limits plant wear, increases productivity and limits the requirement to reprocess. Krysteline has installed its revolutionary technology into many applications around the world including MRF's, Remelt suppliers, CRT processors and many unique applications. The technology is also offered as a flexible package appropriate for creation of water filtration and expendable abrasives.

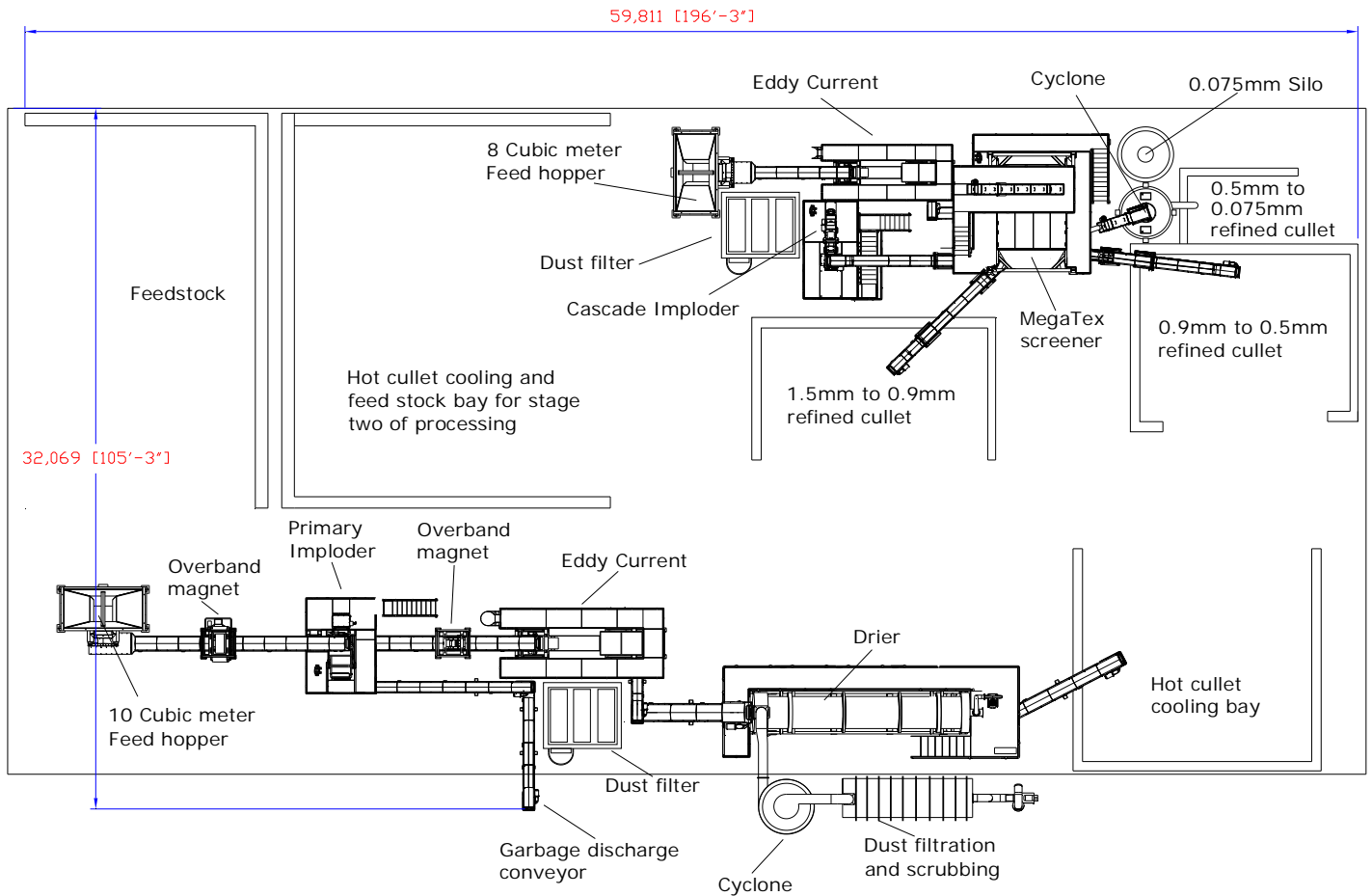


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Description

The GPS15 is designed to operate on a mixed glass feedstock which is typically not suitable for the remelt market. It is setup as a two part system; a) purification and refinement b) screening and size reduction.

Glass is fed to a 10m³ hopper with integrated vibratory feeder where glass is metered to the primary Imploder feed system. Ferrous metals are removed prior to and post primary Implosion. Separated waste materials are screened for onward recycling with the glass continuing to non ferrous separation and drying. A highly engineered drier degasses the non glass contaminants and evaporates liquids at an internal temperature up to 400°C. Heated glass is discharged via a screw conveyor to a cooling bay where its temperature reduces to <50°C. The second stage has a multi deck screener which separates the sharp free glass cullet into four products. Oversized glass is discharged into a Cascade Imploder and returned for re-screening. Screened glass distribution is monitored via 'in-flight' weigh scales on each stock piling conveyor.



Features

- 15tph of mixed glass feedstock with a density greater than 0.4t/m³
- 10m³ bulk feed hopper with vibratory feeder
- Overband magnets for ferrous metals separation
- Taper slot finger screener for separation of waste from glass
- K750 Industrial Imploder
- Non ferrous metals separator (Eddy current)
- Scalped waste conveyor
- Drier with exhaust purification system
- K500-3 Cascade Imploder
- Recirculation screw
- Cullet refined into four product sizes
- Cullet refined at a temperature above 250°C
- Imploders limit damage to non glass items such as the plastics maintaining their value when recycled
- Low power consumption 220kw at 15t/hr
- Low fuel consumption 110ltr/hr of kerosene at 6% moisture content
- Fully automatic operation with weight and production capacity monitored within a central control system.
- Split process allows for variability of production
- Sharp free cullet at all stages of the process
- Multi deck minerals screening system
- Adaptable plant configurations
- Designed for shipping in standard shipping containers
- Requires only three plant operatives
- Manufactured in pre-wired, pre-tested modules
- Screens processed glass down to 85µm
- Drier operates on kerosene, gas or bio diesel
- Superior maintenance access to all machines
- Low cost of maintenance

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