

ANDELA RECYCLING SYSTEMS

Low cost, high capacity, and smoothness of the aggregate, is some of the reasons many customers prefer to process their incoming glass with this system.

The Andela System produces an aggregate ranging from 10 to .1mm in size that is smooth enough to use in a child's sandbox. These turn-key systems process 1 to 20 tons/hour of glass and balance processing capacity and equipment cost, for an inexpensive solution to volume production needs.

A system usually consists of a metering surge hopper, glass pulverizer or crusher, conveyors and a trommel screen separator. Custom system design is offered. Central to the system is the patented pulverizer with a flexible impact system that pulverizes glass into usable aggregate the consistency of fine sand to gravel. The flexible impact system eliminates the grinding process typical of other machines (this reduces wear and maintenance) and produces a distinctly different aggregate, which is safe and easy to handle. It creates a cubical aggregate that is not sharp.

The trommel separator is designed to separate and size the glass and to sort out any residue that is larger than 7/16" in size. If material other than glass (plastic, metal caps, or covers) goes through the pulverizer, they will keep their larger form and thus be easily separated from the glass-sand. The trommel screen can produce three outputs; two different sized glass products (3/16" minus glass sand, and 3/16 – 7/16" glass aggregate), and oversized residue.

All moving parts are readily accessible for ease of maintenance and replacement. Rubber seals isolate and protect all open-air bearings and wear resistant liners protects the inside of the machine.

We also offer glass crushers designed to reduce all kinds of glass into cullet. The speed of the impacting can be adjusted to produce a course cullet that is 2" minus or a finer cullet size of 3/4" minus. The glass crusher/breaker can process liquid filled glass for product destruction and glass recovery.

ANDELA GLASS SYSTEM COMPONENTS

Andela Metering Surge Hopper

The Andela Metering Surge Hopper is designed to accept large quantities of glass to be metered out evenly onto the Andela Glass Pulverizer or Crusher Infeed Conveyor. It prevents a large surge of material from overloading the processing system with reciprocating plate feeder and adjustable door.

Andela Glass Pulverizer

The Andela Glass Pulverizer is designed to reduce all kinds of glass into an aggregate the consistency of sand and fine gravel (7/16" minus). It does not have any sharp edges and can replace natural sands and aggregates. The Andela Glass Pulverizer and Crushers have patented flexible impactors that selectively reduce glass into a glass-sand product or glass cullet.

Andela Trommel Separator

The Andela Trommel Separator is designed to separate and size the glass-aggregate and to sort out any material or trash that is larger than 7/1" in size. If material other than glass (plastic, metal caps, or covers) goes through the Andela Glass Pulverizer, it will keep its larger form and be easily separated from the glass-sand with the Trommel Separator. One or two screen sizes can be used to produce one aggregate mix (3/8" minus) or two different sized aggregates (1/8" minus and 1/8" to 3/8").

Conveyors

The Andela Conveyors are provided to convey the whole glass or cullet into the Andela Glass Pulverizer/Crushers Systems. They are designed to handle abrasive glass, and are available in various sizes for each application.