



18 Seeles St Inchanga 3670

South Africa

0676236100

Marshall@sustainabletech.co.za

Sustainable Glass Solutions

Transforming Waste Glass into Versatile Solutions

At Sustainable Glass Solutions, we empower glass recycling businesses worldwide. We provide cutting-edge glass crushing equipment and expert guidance to help you establish and optimize your own successful recycling operation.

Our Equipment, Your Success: With our state-of-the-art machinery, you can efficiently crush waste glass into specific sizes, unlocking a wide range of lucrative opportunities. From glass packaging and construction materials to decorative art and filtration media, our equipment enables you to meet the diverse needs of various industries.

Comprehensive Support: Beyond equipment supply, we offer comprehensive support services. Our experienced team assists you with business planning, technical expertise, and operational optimization, ensuring your venture flourishes in the sustainable glass recycling sector.

Building a Greener Future: By recycling glass, you contribute to a greener and more sustainable future. Join us in transforming waste glass into valuable resources, reducing landfill waste, and minimizing environmental impact.

Partner with us at Sustainable Glass Solutions and let's revolutionize the glass recycling industry together. Contact us today to explore how our equipment and expertise can help you establish a successful and environmentally conscious business.

Range of potential businesses from crushed glass media.

1. Glass Packaging Solutions
 - Crushed glass for the production of bottles, jars, and containers, offering an eco-friendly alternative to traditional glass manufacturing.
2. Fiberglass Insulation and Textiles
 - Fine crushed glass suitable for the production of fiberglass insulation and textiles, providing excellent thermal and acoustic properties.
3. Glassphalt
 - Crushed glass aggregate for the production of glassphalt, a durable and sustainable asphalt mixture with enhanced skid resistance.
4. Abrasives and Polishing Media
 - Specific-sized crushed glass for use as abrasives and polishing media, ideal for surface preparation, sandblasting, and metal finishing applications.
5. Filtration Media
 - Crushed glass media designed for water, pool, and wastewater treatment filtration systems, ensuring effective and efficient purification.
6. Construction Materials

- Crushed glass incorporated into concrete, tiles, bricks, and blocks, offering strength, durability, and a distinctive aesthetic appeal.
- 7. Landscaping Solutions
 - Versatile crushed glass for landscaping applications, including mulch, decorative features, and garden pathways, adding beauty and sustainability to outdoor spaces.
- 8. Glass Art and Crafts
 - Crushed glass for artists, sculptors, mosaic makers, and stained glass artisans, providing a wide array of creative possibilities.
- 9. Glass Beads
 - Crushed glass beads for applications such as reflective road markings and shot blasting, ensuring enhanced visibility and effective surface preparation.
- 10. Countertops and Kitchen Surfaces
 - Premium crushed glass for stunning countertops and kitchen surfaces, combining aesthetics with durability and easy maintenance.
- 11. Tiling and Flooring Materials
 - Crushed glass for tiling and flooring applications, offering a unique and eye-catching design element for residential and commercial spaces.
- 12. Road Base and Aggregate
 - Crushed glass used as road base and aggregate, providing a cost-effective and environmentally friendly alternative to traditional materials.
- 13. Water Filtration Systems and Media
 - Crushed glass media for water filtration systems, ensuring clean and safe drinking water while reducing environmental impact.
- 14. Terrazzo Flooring and Surfaces
 - Crushed glass incorporated into terrazzo flooring and surfaces, delivering a beautiful, durable, and sustainable finish.
- 15. Erosion Control and Slope Stabilization
 - Crushed glass for erosion control and slope stabilization projects, offering effective and eco-friendly solutions for soil conservation.
- 16. Pipe Bedding and Drainage Applications
 - Crushed glass as pipe bedding material, promoting proper drainage and preventing pipe movement, corrosion, and damage.
- 17. Glassware and Tableware
 - Recycled glass transformed into elegant glassware and tableware, adding a touch of sustainability to dining experiences.
- 18. Sound Barrier Panels and Acoustic Materials
 - Crushed glass for the production of sound barrier panels and acoustic materials, reducing noise pollution and enhancing tranquility in various settings.
- 19. Artificial Turf Infill for Sports Fields
 - Crushed glass used as infill material for artificial turf sports fields, providing a safe and sustainable playing surface.
- 20. Insulation Materials
 - Crushed glass utilized in construction and automotive industries for insulation purposes, offering excellent thermal and sound insulation properties.
- 21. Landfill Cover and Daily Soil Cover

- Crushed glass as an alternative landfill cover and daily soil cover, minimizing environmental impact and reducing waste.
- 22. Sculptures and Decorative Art Installations
 - Crushed glass for sculptors and artists, enabling the creation of stunning sculptures and decorative art installations.
- 23. Geotechnical Applications
 - Crushed glass for geotechnical applications such as soil stabilization and embankments, providing strength and stability to construction projects.
- 24. Composite Materials
 - Crushed glass combined with plastics or concrete to create durable and sustainable composite materials for various applications.
- 25. Soundproofing Materials and Panels
 - Crushed glass used in soundproofing materials and panels, minimizing noise transmission and enhancing acoustic insulation.
- 26. Aquarium Substrate and Decorative Elements
 - Crushed glass for aquarium substrate and decorative elements, adding a touch of elegance and safety to aquatic environments.
- 27. Glass Fiber Reinforced Concrete (GFRC)
 - Crushed glass incorporated into glass fiber reinforced concrete, enhancing its strength, durability, and aesthetic appeal.
- 28. Glass Blocks and Bricks for Architectural Purposes
 - Recycled glass transformed into glass blocks and bricks, providing architects and designers with sustainable and visually striking building materials.
- 29. Glass-Filled Paints and Coatings
 - Crushed glass used in paints and coatings, imparting unique textures and reflective qualities for interior and exterior applications.
- 30. Glass Jewelry and Accessories
 - Crushed glass transformed into exquisite jewelry and accessories, offering a sustainable and stylish alternative to conventional materials.
- 31. Reflective Glass Beads for Traffic Signs and Safety Applications
 - Crushed glass beads for the production of reflective road markings, ensuring visibility and safety on highways and roads.
- 32. Terrariums and Plant Containers
 - Crushed glass used in the creation of terrariums and plant containers, adding a touch of sophistication to indoor gardening.
- 33. Greenhouse Glazing and Horticultural Applications
 - Crushed glass for greenhouse glazing, providing a sustainable and energy-efficient solution for horticultural applications.
- 34. Glass Marbles and Game Pieces
 - Recycled glass transformed into marbles and game pieces, offering eco-friendly and visually appealing options for game enthusiasts.
- 35. Laboratory and Scientific Glassware
 - Crushed glass utilized in the manufacturing of laboratory and scientific glassware, ensuring precision and safety in research and experiments.
- 36. Glass-Based Electronics and Optical Components



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- Recycled glass employed in the production of electronics and optical components, combining sustainability with technological advancements.
37. Decorative Vases and Home Decor Items
- Crushed glass crafted into decorative vases and home decor items, adding a touch of elegance and sustainability to living spaces.
38. UV-Resistant Glass Coatings for Windows and Solar Panels
- Crushed glass coatings providing UV resistance for windows and solar panels, improving energy efficiency and longevity.
39. Artistic Glassblowing and Glass Sculpting
- Crushed glass used by skilled artisans for artistic glassblowing and sculpting, creating unique and captivating pieces of art.
40. Glass Markers and Writing Instruments
- Crushed glass transformed into markers and writing instruments, offering eco-friendly alternatives for creative expression and office use.

At Sustainable Tech, we provide a comprehensive range of cutting-edge equipment designed to crush waste glass into specific sizes suitable for the applications mentioned above. Our state-of-the-art machinery is efficient, reliable, and customizable to meet your specific production needs. We offer export services, ensuring that our sustainable glass crushing solutions are available worldwide.

In addition to our equipment, we are committed to supporting our clients in setting up successful ventures centered around glass recycling. Our team of experts can provide guidance and assistance in developing business plans tailored to the utilization of crushed glass across various industries. From market analysis to operational strategies, we are here to help you maximize the potential of recycled glass and contribute to a greener future.

Contact Sustainable Tech today to explore how our equipment and expertise can empower your sustainable business endeavors

Conveyer with Muncher

MODEL NO GB 350T and Conveyor

DESCRIPTION: Bottle and Glass Breaker



FUNCTION

- Production capacity: 1300kg per hour into recyclable cullet 20 to 40mm
- Load capacity of hopper: 60L
- Loading height of conveyor: 860mm
- The volume of the bottle is reduced by 80%.

SPECIFICATIONS

- **Materials:** Main frame manufactured from mild steel GW300; Crushing head manufactured from ROQ – tuff AM700 high quality steel
- **Weight:** 380kg
- **Power:** 2.2 kw with a reduction gear

box; 0.75kw with shaft mounted gear motor

- **Machine dimensions:** 1900mm, Length: 2600mm, Width: 1250mm
- **Conveyer dimensions:** 380mm wide, with 360mm wide 2 ply PVC belt, with 35mm cleats at 150 centres
- **Mounting:** Equipment 2 fixed castors and 2 lockable swivel castors
- **Electrical supply:** 380 volts power supply. *Please note inadequate power reduces machine performance.*
- **Control:** Push button to start and stop.
- **TRAINING** Operation manual supplied.
- **MAINTENANCE** It is advised that a 6 monthly maintenance check should be carried out on all working parts by a competent person.

Bottle Muncher

MODEL NO: GB350, GB350T

DESCRIPTION: Bottle Breaker



FUNCTION

- Crushes approximately 1300kgs of glass bottles per hour, reducing the bottles to a cullet 20-40mm.
- The volume of bottles is reduced by 80% i.e., 8 bags of bottles reduced to 1 bag of glass sand.
- Also crushes ceramics, pottery and plate glass (not laminated glass).
- Safety glasses, dust masks and gloves are essential for safe operation.
- Quiet, clean and safe operation.

SPECIFICATIONS

Weight: 190kg

Power: Single phase, 1.5 kW motor, IP65

Dimensions: 1150cm x 1150cm x 1800cm

Mounting: Standalone with hooks for 1 ton flow bin bags fitted to catch broken glass. 1150cm



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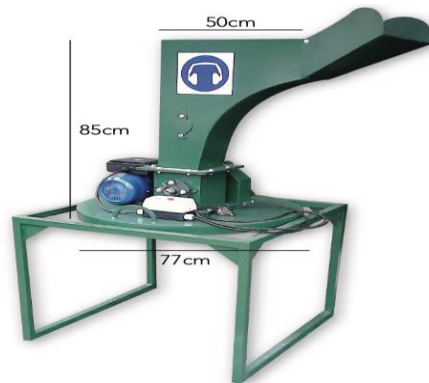
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Glass Muncher

MODEL NO: CR001

DESCRIPTION: Glass Crusher



FUNCTION

- - Crushes approximately 1500 x 330ml glass bottles per hour, reducing the bottles to non- hazardous glass sand.
- - The volume of bottles is reduced by 80% i.e. 8 bags of bottles reduced to 1 bag of glass sand.
- - Also crushes ceramics, pottery and plate glass (not laminated glass).
- - Quiet, clean and safe operation.
- - Crushed glass is less than 4mm in diameter.
- - Average grain size approximately 1mm.

SPECIFICATIONS

Weight: 95kg

Power: Single phase, 0.75 kW motor

Dimensions: 85cm x 40cm x 50cm

Mounting: Mounted on 77cm disc to fit on
210 litre drum or standard waste bin

<https://sustainabletech.co.za/contact/>

Marshall de Bres

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