



# Longhe Plastic Machinery Co.,LTD.



SINCE 1988

## MANUFACTURERS SPECIALIZING IN GLASS RECYCLING

Longhe Plastic Machinery is an integrated enterprise involved  
in research, design, manufacturing, and sales.



Longhe Official Website / Scan QR code with phone



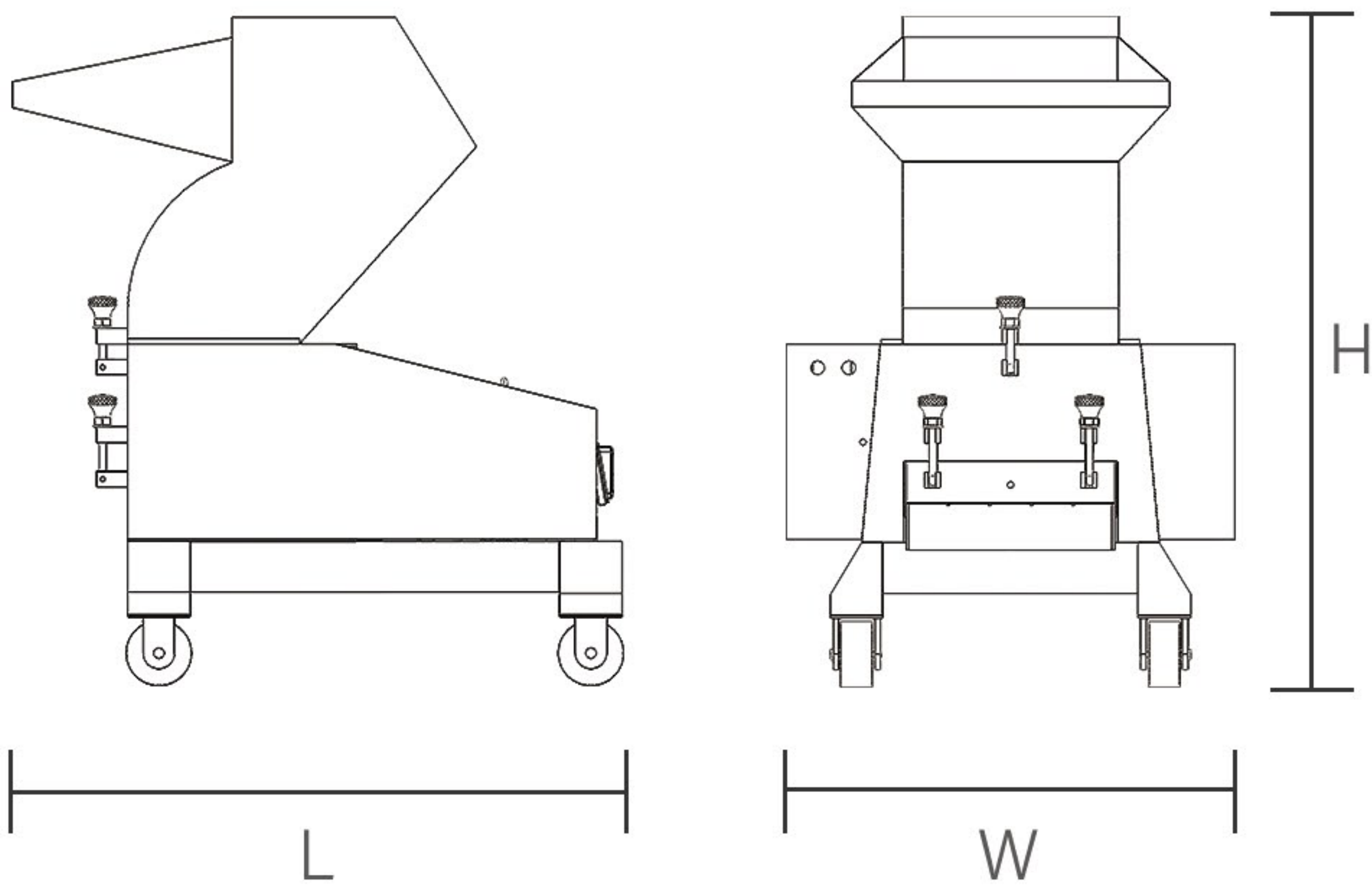
using video

# PC MODEL PLASTIC CRUSHER

Can be used in conjunction with a **dust collector**



## SCHEMATIC DIAGRAM



### Technical parameters

| model  | crushing diameter (mm) | crushing capacity (kg/h) | power (kw) | blade (pieces) | dimensions (L*W*H)mm | weight (kg) | packaging size (L*W*H)mm |
|--------|------------------------|--------------------------|------------|----------------|----------------------|-------------|--------------------------|
| PC180A | 190*165                | 30-80                    | 2.2        | 11             | 650*530*980          | 250         | 670*550*1000             |
| PC230A | 210*235                | 50-110                   | 4          | 8              | 750*610*1200         | 300         | 770*630*1220             |
| PC300A | 310*245                | 100-250                  | 5.5        | 11             | 900*760*1200         | 450         | 920*780*1220             |
| PC400A | 410*260                | 200-450                  | 7.5        | 14             | 950*860*1300         | 550         | 970*880*1320             |
| PC500A | 510*285                | 360-720                  | 11         | 19             | 1110*970*1450        | 750         | 1120*990*1470            |
| PC600A | 610*285                | 470-870                  | 15         | 22             | 1110*1070*1450       | 950         | 1120*1090*1470           |

## Product introduction

- 1 The blades are made of Japanese imported steel:** Deep heat treatment ensures strength, sharpness, and wear resistance, with a various materials to choose from.
- 2 The large diameter of the crushing chamber:** Reduces the risk of jamming, resulting in an average lifespan of 15 years.
- 3 Triple protection mechanism:** Sealed processing, special discharge outlets, and confidential design extend the lifespan by 5-10 years.
- 4 Machine structure:** Fully welded with reinforced screen mesh frames, increasing pressure resistance by 80%.
- 5 Bearing and oil sealing device:** Heavy-duty bearings and efficient oil sealing ensure stable operation.
- 6 Multi-layer soundproofing:** Triple-layer sound-absorbing materials reduce vibrations and noise by 30%.
- 7 Safety device:** Ensures mechanical injury prevention, increasing safety by 50%.
- 8 Blade adjustment:** Adjustable and retractable, can be sharpened multiple times, ensuring a long lifespan.



## Applications

The crusher developed for this model is suitable for materials used in various places, such as red wine bottles, beer bottles, foreign wine bottles, etc.

### Bottle turns to sand





using video

# PC180C-2 GLASS CRUSHER

Can be used in conjunction with a **dust collector** (refer to page 31 for details)

## PC180C-2/PC230C-2



### Technical Specifications

| model    | capacity (kg/h) | material (mm) | motor (kw/pole) | no-load noise | dust level  | dimensions (L*W*H)mm | weight (kg) | packaging size (L*W*H)mm |
|----------|-----------------|---------------|-----------------|---------------|-------------|----------------------|-------------|--------------------------|
| PC180C-2 | 7-12            | ≤110*30       | 1.1/6           | 65 dB         | almost none | 720*512*908          | 145         | 723*515*921              |

## ○ Product introduction

- 1 Reduce glass bottle waste volume by up to **90%**, **Sound-insulated and noise-reduced crushing.**
- 2 the glass bottle dust collection crusher is highly suitable **for use in cleanrooms.**



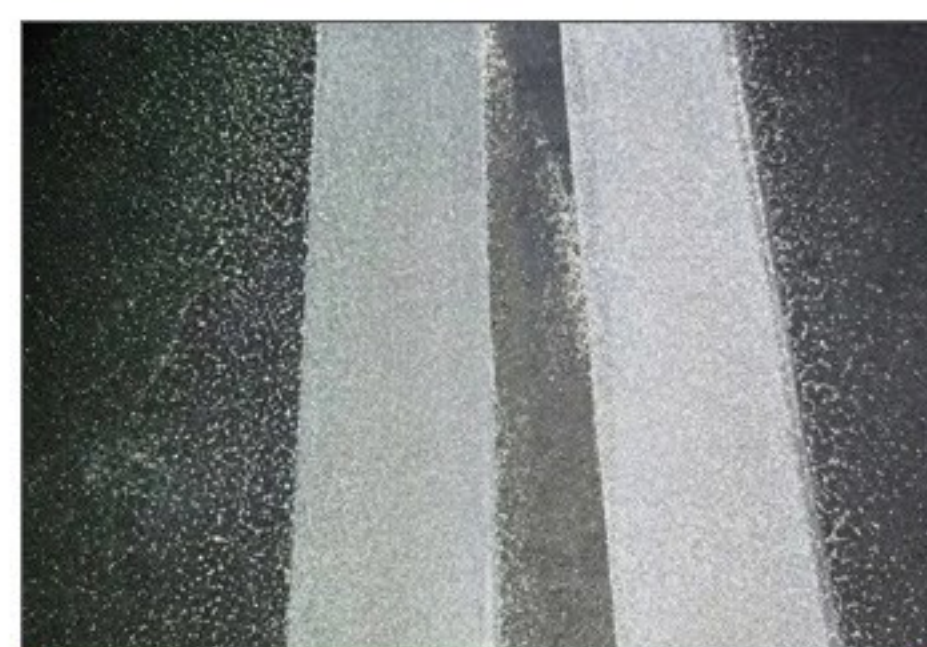
- 3 the **dust collection device** can efficiently filter dry, wet, and sticky dust.  
(The system has been upgraded to an integrated built-in design.)



- 4 **feed inlet design:** Prevent jams and material splashing back, ensuring worry-free and safe crushing.
- 5 **Output size adjustment:** Easily changed via mesh screens.
- 6 Shredded beer bottles are 100% recyclable, **reprocessable for new beer bottles or other uses.**



garden  
landscape



road  
construction



artificial beach



water treatment



building  
material



decorative  
materials

## ○ Applications

The crusher developed for this model is suitable for materials used in various places, such as red wine bottles, beer bottles, foreign wine bottles, etc



Beer  
bottles

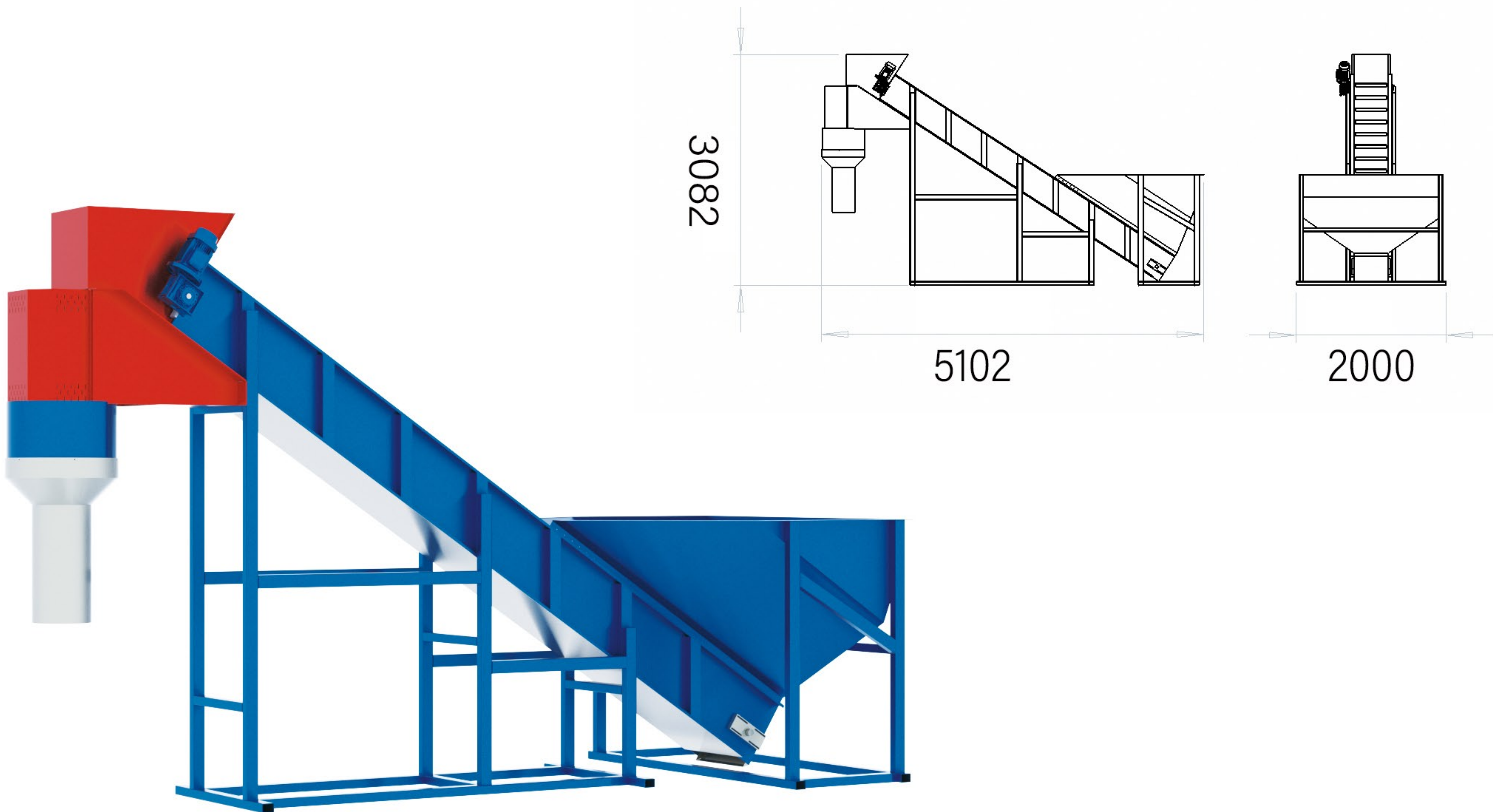




using video

# GS1000 LARGE-SCALE GLASS CRUSHER

Can be used in conjunction with a **dust collector** (refer to page 31 for details)



## Technical parameters

This series of equipment is designed for recycling glass bottles, offering optional fine sand and volume compression modes. Once processed, the material can be used for golf course maintenance and beach replenishment, making it highly eco-friendly and convenient.

|                     |                                           |              |                                           |
|---------------------|-------------------------------------------|--------------|-------------------------------------------|
| model               | GS1000                                    | machine name | glass crusher                             |
| Reduction           | 10:1 max                                  | Motor        | 3kw                                       |
| Power               | 380-440v 50/60hz                          | Bin          | 1cbm / 2T max (4000 beer)                 |
| Feed capacity       | auto feed 2t/ph                           | Bin size     | 1cbm (2t max or approx 4000 beer bottles) |
| production capacity | 750 units per second (500ml beer bottles) | Bi-product   | sand or cullet (one-hour conversion)      |

## ○ Product introduction

- 1 The large diameter of the crushing chamber:** Reduces the risk of jamming, resulting in an average lifespan of 15 years,
- 2 Machine structure:** Fully welded with reinforced screen mesh frames, increasing pressure resistance by 80%.
- 3 Bearing and oil sealing device:** Heavy-duty bearings and efficient oil sealing ensure
- 4 Safety device:** Ensures mechanical injury prevention, increasing safety by 50%.
- 5 Customizable Upgrade:** Pneumatic/Hydraulic control reduces labor by 50%.
- 6 Long-distance transport:** Suitable for various applications.
- 7 Safety device:** Ensures mechanical injury prevention, increasing safety by 50%.

## ○ Output Size Distribution

- Deck 1: >3.4mm 10%
- Deck 2: 3.4mm - 1.7mm 25%
- Deck 3: 1.7mm - 1.1mm 20%
- Deck 4: 1.1mm - 0.4mm 30%
- Deck 5: < 0.4mm 15%



## ○ Applications

The GS1000 series equipment is specifically designed for recycling glass bottles and is suitable for processing materials used in various locations, such as red wine bottles, beer bottles, imported wine bottles, etc.

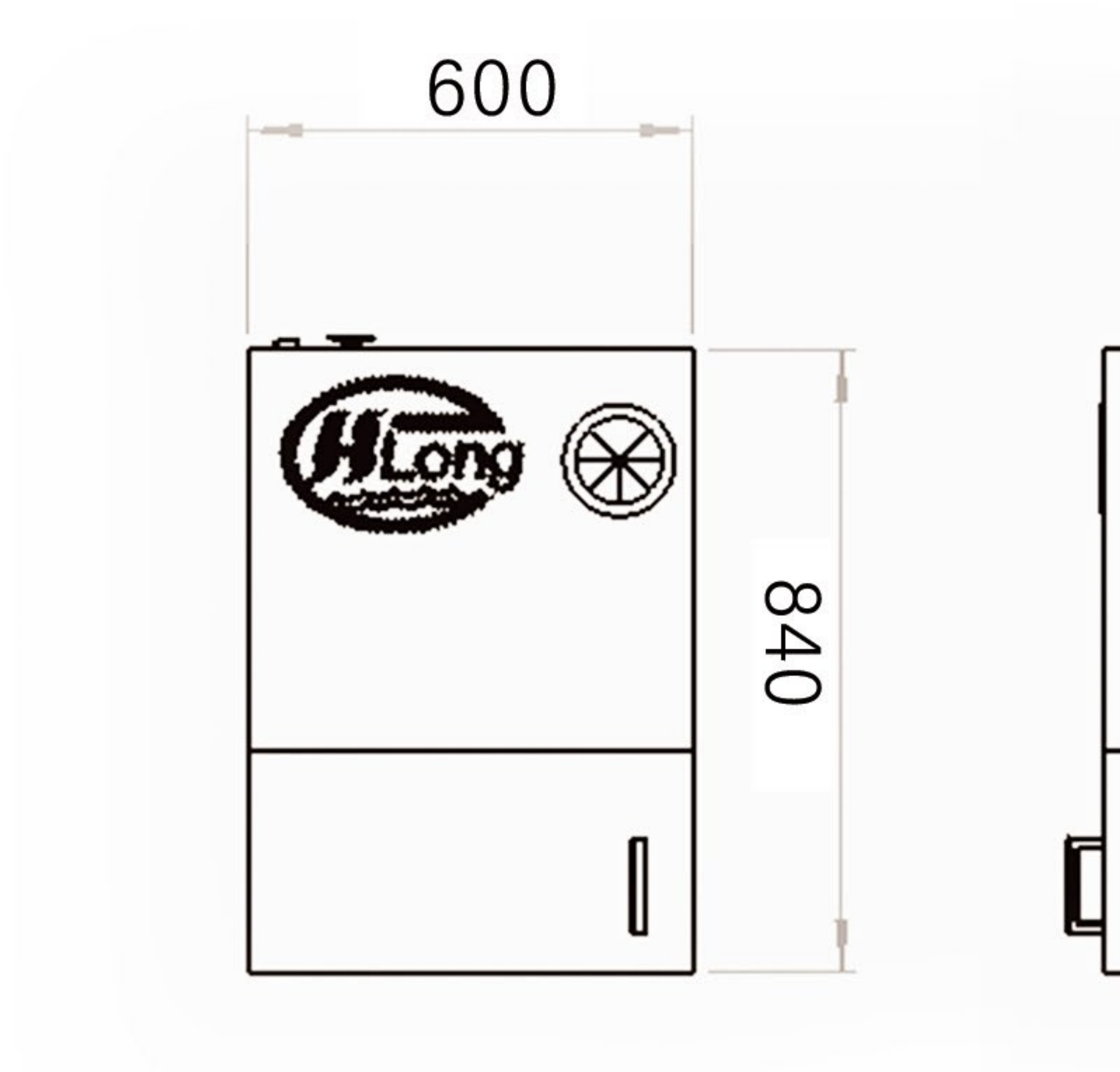




using video

# GS MODEL GLASS CRUSHER

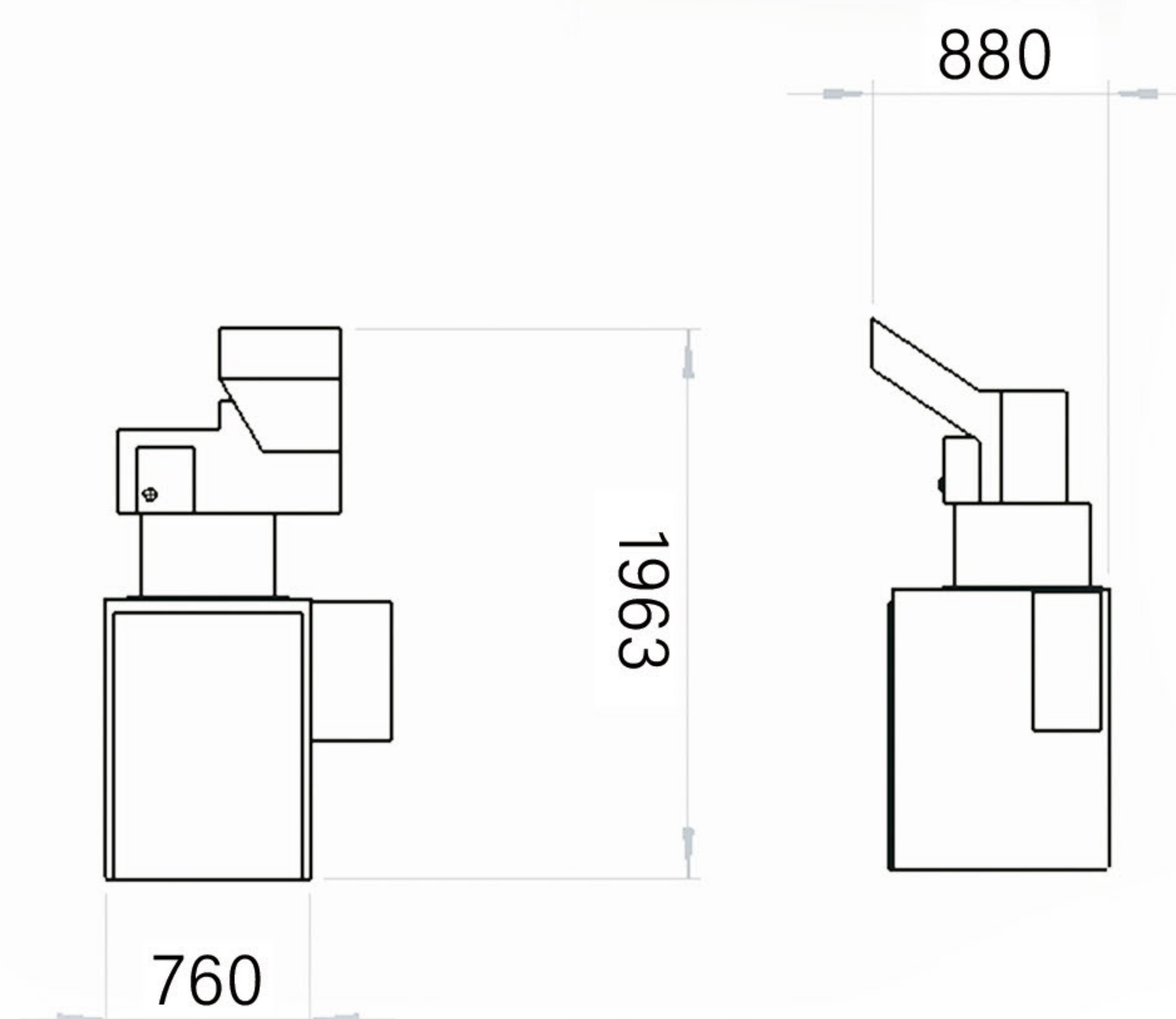
Can be used in conjunction with a **dust collector** (refer to page 31 for details)



GS100



GS500



## Technical Specifications

| model | blade(pcs) | motor(kw) | Voltage           | dimensions (L*W*H)mm | weight (kg) | packaging size (L*W*H)mm |
|-------|------------|-----------|-------------------|----------------------|-------------|--------------------------|
| GS100 | 3          | 1.5       | 220v,1-phase,50Hz | 840*590*600          | 120         | 860*610*620              |
| GS500 | 4          | 3         | 220v,1-phase,50Hz | 760*880*1963         | 240         | 780*900*1983             |

## ○ Product introduction

### GS100

- 1 Reduces glass bottle volume by up to **85%**
- 2 Crushes bottles up to **4" diameter** and **14" height**
- 3 **4-gallon** bucket holds approx. **43 lbs**, easy front-door access
- 4 Compact size fits under bar or service station
- 5 Crushes bottles in seconds, noise similar to a standard blender
- 6 Durable **stainless steel body**, easy to clean

### GS500

- 1 Crushes up to **50 bottles in under 1 minutes**
- 2 Reduces glass volume by **80%**
- 3 Crushed glass collected in **120L waste bin**
- 4 Built-in **dust extraction and filter system**
- 5 **Compact footprint**, ideal for small venues
- 6 **Quick installation**, few moving parts for reliable long-term use
- 7 **Easy to operate**, low maintenance

## ○ Applications

The crusher developed for this model is suitable for materials used in various places, such as red wine bottles, beer bottles, foreign wine bottles, etc



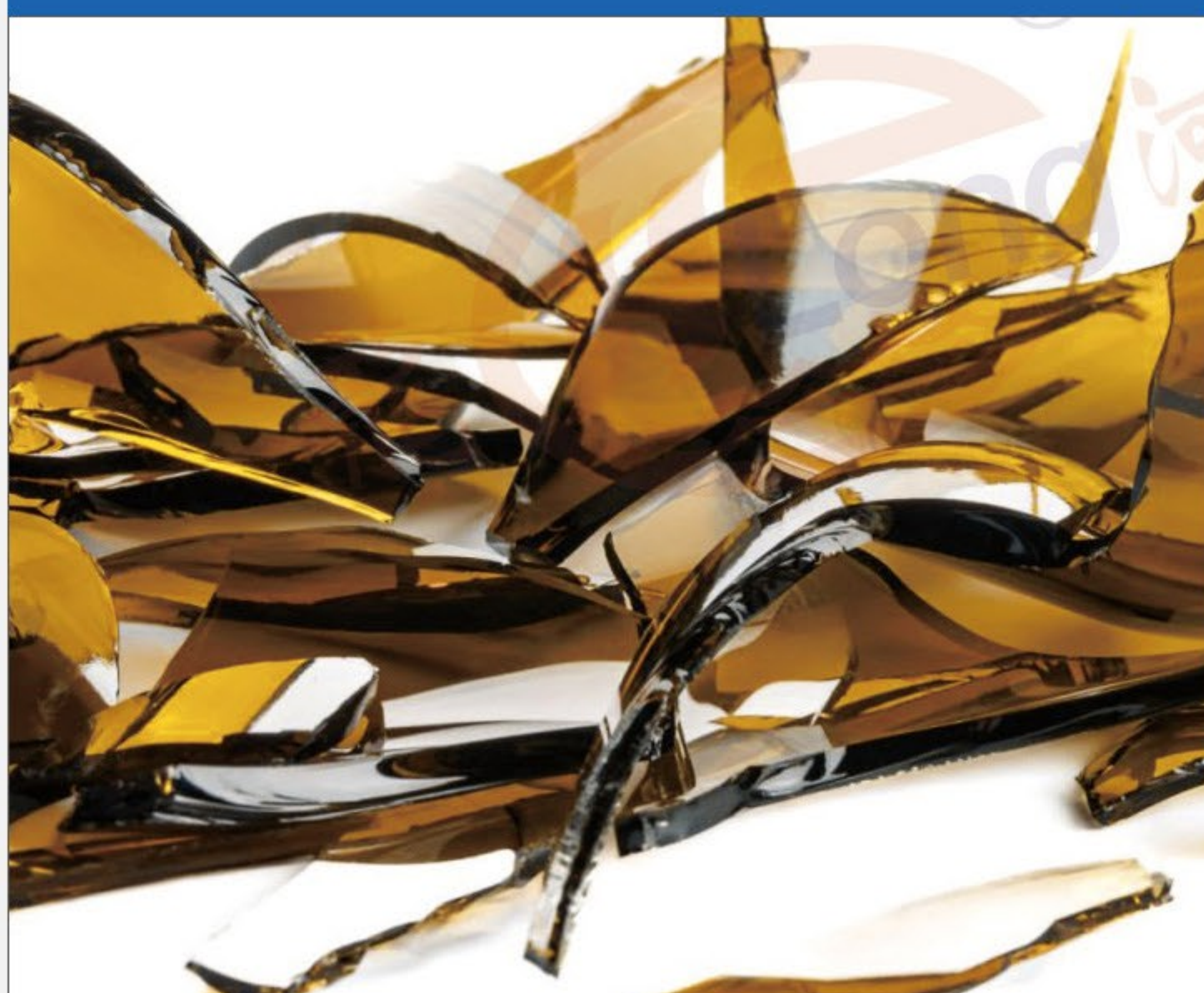
Beer bottles



Beer bottles



Beer bottles

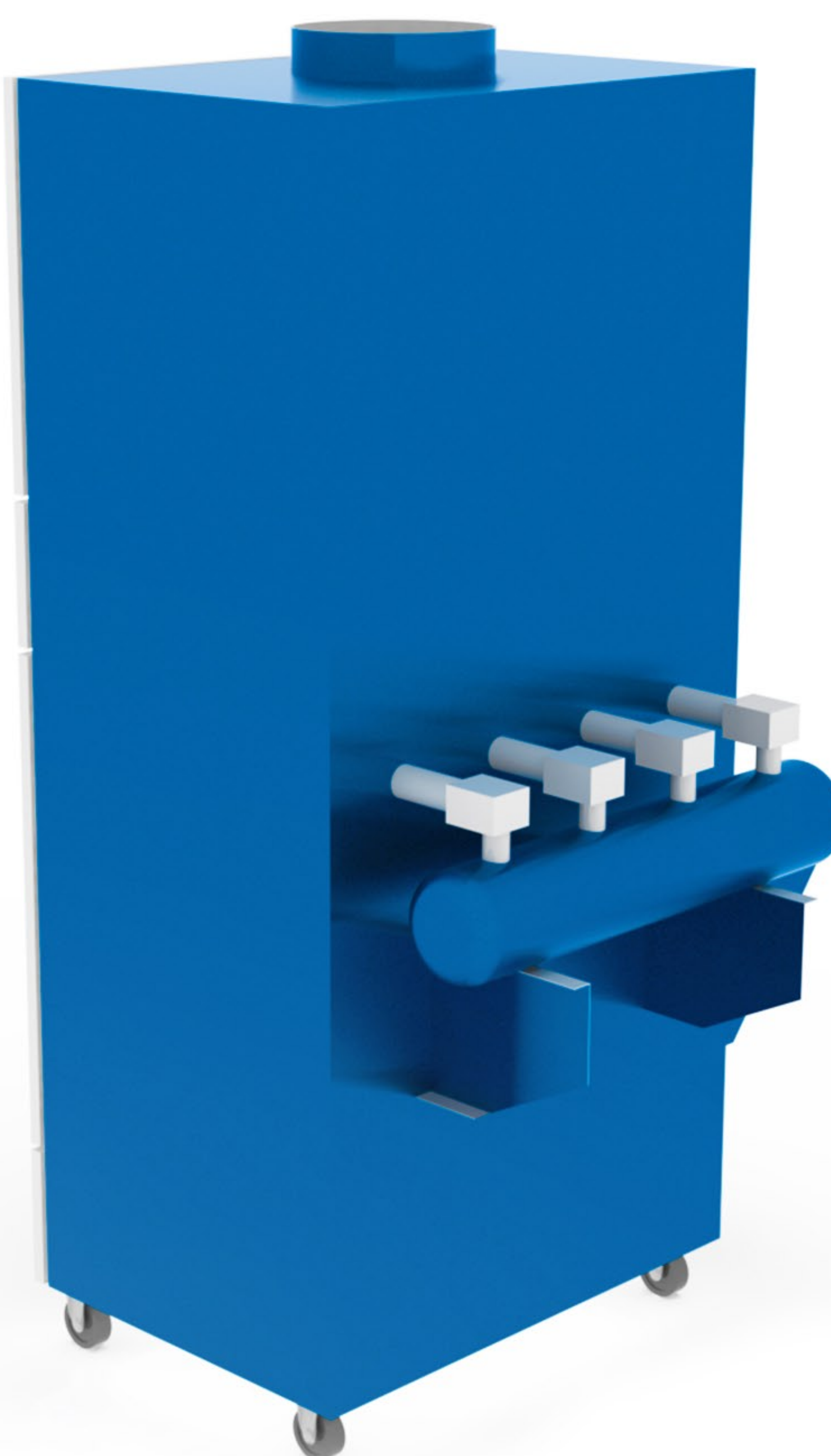




using video

# DUST COLLECTOR

**Our dust collection system pairs seamlessly with any crusher!**



## ○ Functional Introduction

The dust generated during enterprise production affects both the environment and the health of workers. Our company has developed a pulsed dust collection system specifically designed for crushers, which incorporates dual core technologies of high-efficiency filtration and intelligent reverse blowing. It is lightweight, flexible, and easy to operate, widely applicable across multiple industries and locations with dust and smoke pollution, effectively purifying smoke and waste gases through multi-stage filtration without causing secondary pollution.

**Fully Enclosed Sound Insulation and Noise Reduction**  
**—— Pulsed Dust Collection System Specifically for Crushers**

## ○ Equipment Features

- 1** Equipped with a **dedicated turbo blower and a branded motor**, the system incorporates an overload protection circuit to prevent motor burnout, ensuring high safety and stable working performance.
- 2** **Intelligent automatic dust cleaning:** The pulse system automatically cleans the filter cartridges at regular intervals, ensuring a more thorough and clean removal of dust from the filter surface, thereby maintaining a constant suction capacity for the dust collector.
- 3** **The filter cartridges are made of imported materials, offering a long service life.** They can capture dust particles as small as 0.3um and provide excellent filtration for wet and sticky dust.
- 4** The purifier incorporates three layers of protective measures against fire hazards and large particle slag inside, enhancing the longevity, safety, and reliability of the purifier.
- 5** Clean air is evenly guided and dispersed through the grille-shaped exhaust outlet, minimizing noise levels.

## ○ Customer Case ( The dust collection system models are customized to match specific crusher models )



PF400 Fabric Crusher Dust Removal System



PY800 Plastic Bottle Shredder Dust Collection System



KTS400 Intelligent Crusher Dust Collection System

## ○ Applications

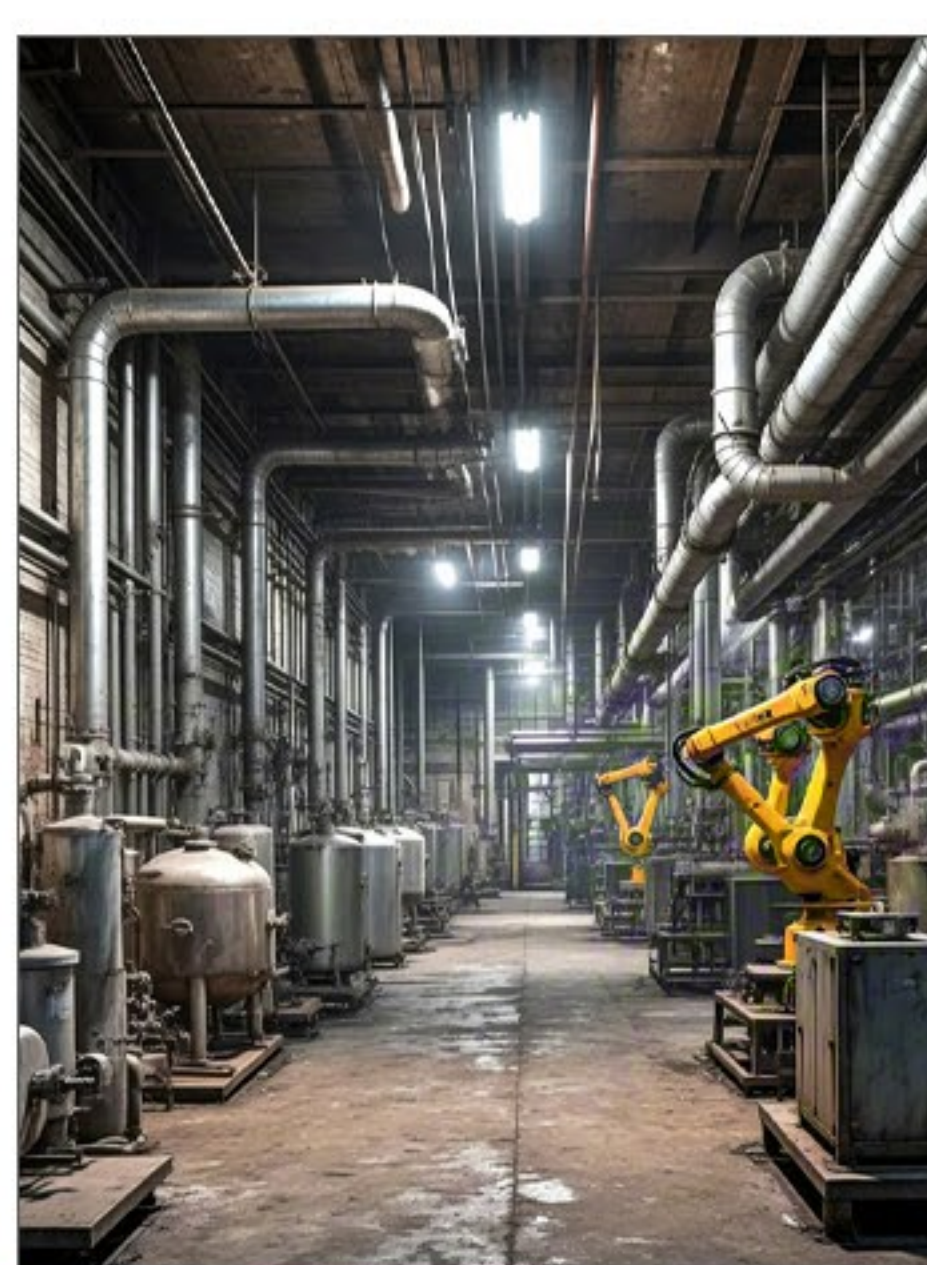
It is also widely applied in industries such as chemicals, metal processing, tobacco, glass, pharmaceuticals, food processing, cleanrooms, hospitals, as well as other places with dust and smoke pollution.



tobacco factory



food processing workshop



petrochemical plant



metal processing



hospital laboratory



light industry



using video

# WR ROUND GLASS VIBRATING SCREEN

## 【PRODUCT PORTFOLIO】

ACHIEVING FINER AND MORE UNIFORM GLASS GRANULES

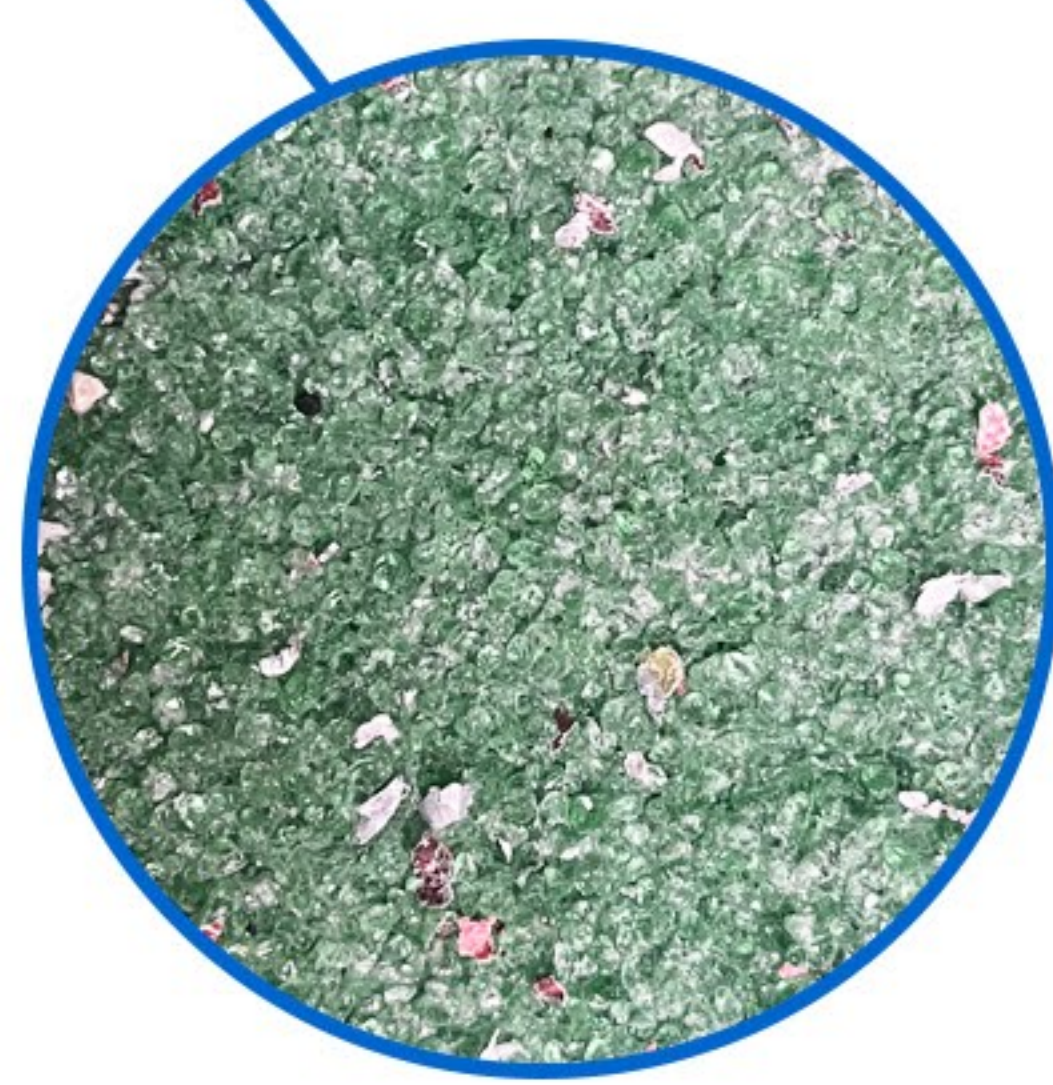
【Glass Crusher】



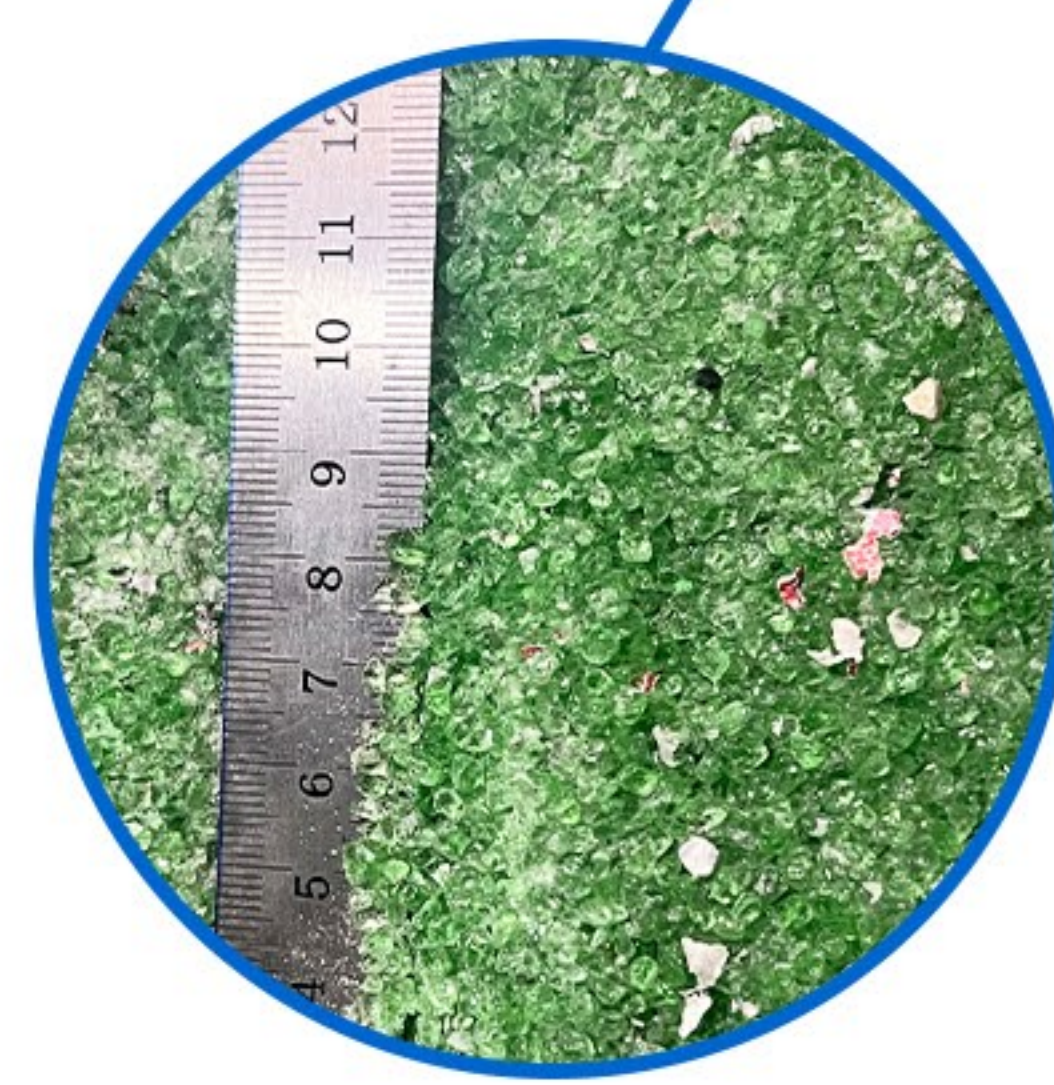
【WR Glass Screening Machine】



Glass bottle



After Crushing



First-Stage  
Filtration



Second-Stage  
Filtration

## ○ Product introduction

Meet our all-new glass crusher and vibrating screen combo – built specifically for bottles. It turns used glass into two clean, sorted grain sizes—perfect for reuse.

From bars and concerts to community events, this setup transforms waste into eco-friendly gold. The crushed glass? Ideal for golf course repair or even restoring beach sand. It's 100% recyclable, zero waste, and seriously good for the planet.

○ Product advantages

- 1 Strong Vibratory Force:** Utilizes a vibrating motor as the vibration source, causing the material to be thrown and rotate within the sieve, achieving effective grading.
- 2 Automatic Discharge:** Material flows automatically from the outlet layer by layer, enabling continuous discharge.
- 3 304 Stainless Steel Plate:** Contact parts with product are corrosion-resistant and durable.
- 4 Customizable Screen Mesh Size:** Fine screening up to 500 mesh or 0.028mm, filtration as small as 5 microns.
- 5 Large Round Discharge Port:** 90° right-angle design for fast discharge without blockage, rotatable to any position.



304 Stainless Steel Chemical Test



○ Technical parameters (Customizable ultrasonic version available)

| model   | nominal diameter (mm) | screen diameter (mm) | effective screen area (m²) | maximum feed particle size (mm) | screen surface specification (inch) | number of layers (layers) | vibration times (times/min) | power (kw) | weight (kg) | packaging size (L*W*H)mm |
|---------|-----------------------|----------------------|----------------------------|---------------------------------|-------------------------------------|---------------------------|-----------------------------|------------|-------------|--------------------------|
| WR-400  | 400                   | 340                  | 0.09                       | <10                             | 2-325                               | 1-3                       | 1500                        | 0.18       | 96          | 480*520*1080             |
| WR-600  | 600                   | 530                  | 0.22                       | <10                             | 2-325                               | 1-3                       | 1500                        | 0.25       | 108         | 835*720*1040             |
| WR-800  | 800                   | 720                  | 0.4                        | <20                             | 2-325                               | 1-3                       | 1500                        | 0.55       | 150         | 970*970*1110             |
| WR-1000 | 1000                  | 900                  | 0.63                       | <20                             | 2-325                               | 1-3                       | 1500                        | 0.75       | 210         | 1120*1120*1250           |
| WR-1200 | 1200                  | 1100                 | 0.95                       | <20                             | 2-325                               | 1-3                       | 1500                        | 1.1        | 330         | 1330*1330*1300           |
| WR-1500 | 1500                  | 1400                 | 1.5                        | <20                             | 2-325                               | 1-3                       | 1500                        | 2.2        | 480         | 1530*1530*1600           |



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upkeep / parts supply / technical training

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  Tel: +86 18925132464