



Glass Breaker

The glass breaker screen is designed to separate glass from other material like plastic bottles, milk cartons and metal cans.

The material that enters the machine gets its first impact on the rapidly rotating shafts. Much of the glass breaks and jumps up again, where it touches a breaker plate. The material that is fine enough, will fall through the stars of the screen. The volume of the upper material will reduce, while the broken glass falls down. After 2 breaker plates, 2/3 of the material is screened from the material stream. At this point the breaker star deck changes into a screen deck to screen the remaining glass from the material flow. In this screening section, there is also a breaker plate to prevent glass from jumping out of the machine and increase the efficiency of the breaking and screening function.

Result

The result is that all material > 25mm will pass over the screen, whereas the broken glass will fall through the screen. The fraction smaller than 25mm, 95% consists of glass particles and 5% other material like small parts of cork and bottle caps. Depending on the product demands, the glass material can be sold as it is or needs further refinement for glass recycling.

The glass breaker is available as a single or cascade deck solution with a maximum breaking and screening area of 10 respectively 10 m². The glass breaker can handle up to 40t/h of co-mingled bottles and cans!



Input material

Glass mixed with milk cartons, metal cans and plastic bottles



Output

Material < 25mm consisting of 95% glass and 5 % other material

Material > 25mm consisting of < 1% glass subject to input fraction

