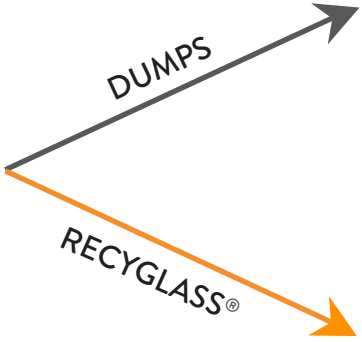
PRALL-TEC
RECYGLASS
GLAS RECYCLING SOLUTION
MADE IN GERMANY

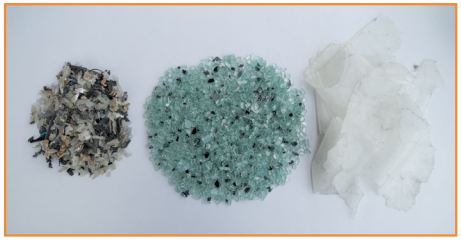
The recycling task

Separation of glass and foil

Glass is a 100% recyclable product that makes a significant contribution to environmental protection. The application possibilities of glass have become very versatile and in certain fields of application recycled glass can be used already up to 90% in the production of new products today. In order to be able to separate laminated glass clean, simple and efficient from each another, a recycling system is required which produces a cleanly separated final product, but at the same time reduce wear costs and maintenance intervals.

The use of liquids, high speeds of shredders, as well as a cutting shredding in the treatment process, cause an unintentionally increase of wear costs in the glass as well as short replacement intervals of all wear parts. As a result, the cost of recycling PVB laminated glass increases and often makes it seem uneconomical why many laminated glass raw products are still being piled up on dumps around the world.





Our solution - Recyglass®

The smart way of recycling

The idea of the Recyglass® recycling system is the simplest and most cost-efficient separation car windscreen components as well as various other laminated glass and safety glass products. The combination of feed bunker and pre-shredder ensure an easy and continuous product feeding of the complete system. The shredder can be loaded with a wheel loader as well as with a sorting grapple on the excavator with up to 10 tons of material. Thanks to a sophisticated geometry of the shredder shafts, which has been developed steadily over the last years, we achieve both a good throughput, a perfect pre-shredding for subsequent work steps, as well as an almost free and low-maintenance pre-shredding. Afterwards, the PTRG 100-67 separates the glass from the PVB foil without further shredding the foil smaller what is important for the separation later on. Subsequently, the foils and glass are separated from one another by a sorting and screening processes. Foil that is not clean enough can be automatically returned to the Recyglass® process for an additional separation to ensure a consistent high-quality end product.

LAMINATED GLASS

PTG 4

METAL AND NON-FERROUS METAL SEPARATION

PTRG

MATERIAL RETURN

SEPARATION OF GLASS, PVB FOIL AND WASTE

90%

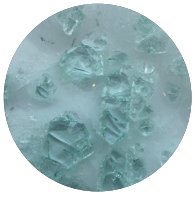
10%

WASTE

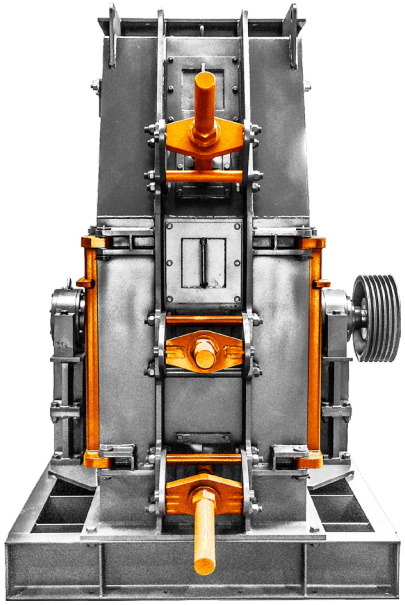
GLASS
99,7% clean

PVB FOIL
clean

PVB FOIL
with glass cullets



Technical machine specifications



PTG 4	40t OUTPUT PER HOUR	9000kg WEIGHT	2000mm x 3000mm INLET SIZE	3000mm FEED SIZE	4x 18,5kW POWER	0-250mm / 0-200mm Depending on shaft END PRODUCT SIZE
PTRG 100-67	25t OUTPUT PER HOUR	7000kg WEIGHT	280mm x 670mm INLET SIZE	300mm FEED SIZE	90kW POWER	0-30mm Glas END PRODUCT SIZE
PTRG 100-100	35t OUTPUT PER HOUR	9500kg WEIGHT	280mm x 1000mm INLET SIZE	300mm FEED SIZE	132kW POWER	0-30mm Glas END PRODUCT SIZE

Advantages of the Recyglass® process

Material feed and pre-shredder in one machine

Easy and fast Material feed in hopper

1-man operation control-led from wheel loader / excavator

Full automatic machine operation

Adjustable cleaning efficiency of glass and PVB foil

Easy and fast accessibility of all machinery

Cost-effective and low-maintenance system

Fully electric system under 250kW

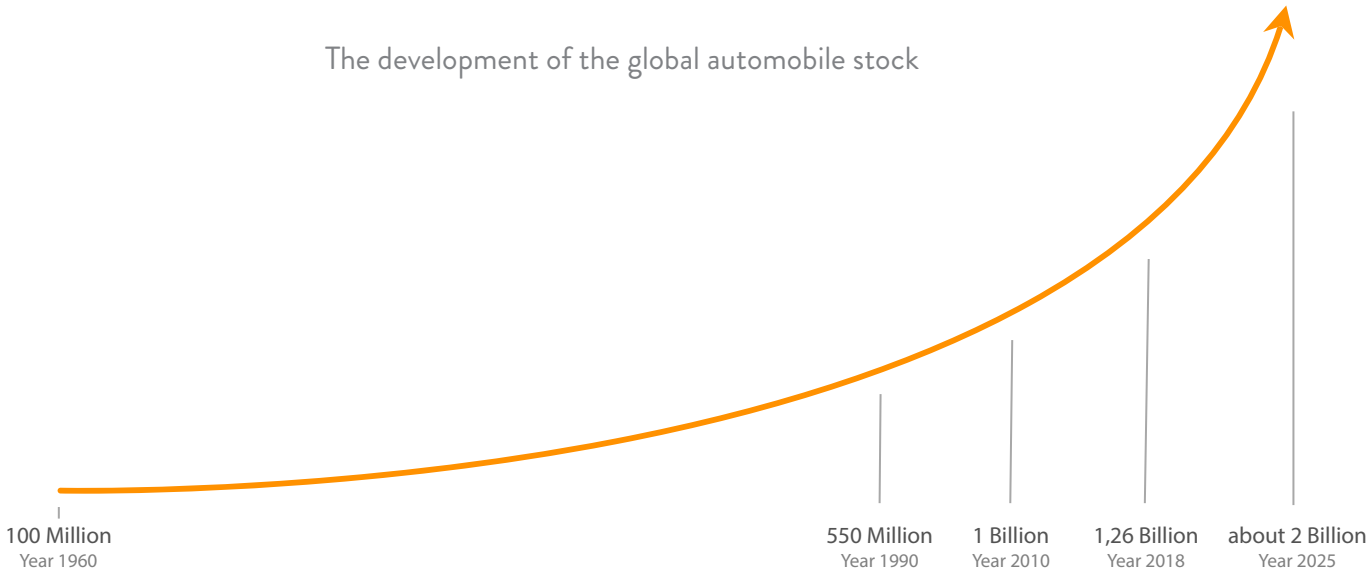
Installation without special concrete basements

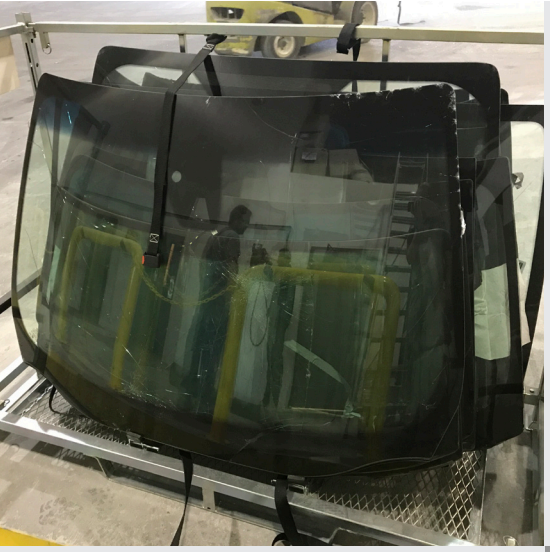
Facts and potentials

Glass recycling in growth

Glass is today one of the products that surrounds us every day and everywhere. The application possibilities of glass are constantly evolving and therefore also the amounts of glass waste that has to be recycled. Bottles and flat glass have been recycled economically almost everywhere for decades. For some years now, the process of laminated glass processing has been steadily evolving as demand for glass and also for PVB steadily increases. The potential of laminated glass recycling can be recognized from the exponential increase in the global automobile stock. In recent years more and more companies have developed new applications for recycled PVB, which today is mainly made from laminated glass. The Recyglass® system has been specially developed for the separation of glass and PVB foil but also offers the possibility of recycling bottle glass, solar systems and other glass products with various expansion stages and machine components.

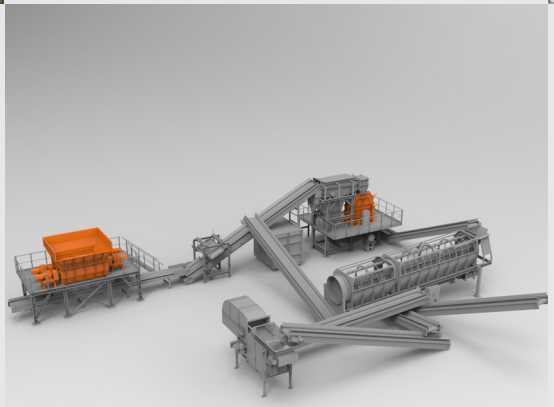
The development of the global automobile stock





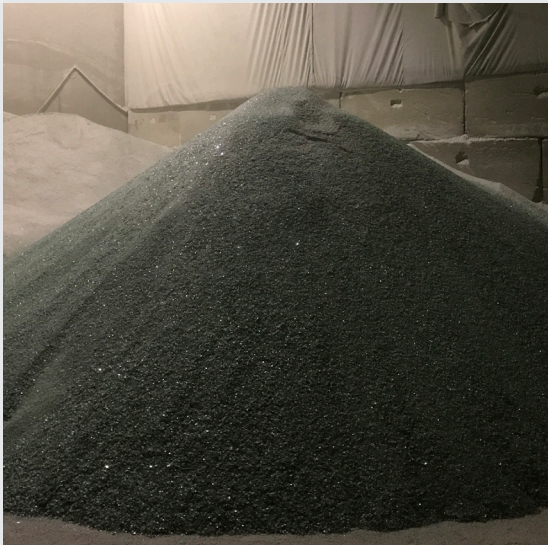
Made in Germany

Future potential



100% Recycling

Individual and
custom-made
plant setup



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