



Herbold Meckesheim

Your partner for
plastics recycling



**Pacesetter for climate and
resource protection through
high-quality plastics recycling**

Granulators & Shredder | Plastcompactors/Agglomerators |
Fine grinding | Washing lines | Service |

HERBOLD Meckesheim is a supplier of machinery and equipment for high-quality plastics recycling and, thanks to its technologies, saves high amounts of fossil raw materials and greenhouse gas emissions every year. This makes HERBOLD Meckesheim an important player in the implementation of the European „Green Deal“ for a functioning resource protection.

HERBOLD Meckesheim has a worldwide customer network and contributes significantly to a functioning circular economy. The company convinces with reliable and future-oriented technologies. The recycling of plastics by HERBOLD Meckesheim's machine technology saves resources and greenhouse gas emissions on a large scale compared to the petroleum-based primary production of plastics.

HERBOLD Meckesheim supplies recycling technologies for the recovery and recycling of approximately 100,000 metric tons of plastic waste every year.

This alone means that around 200,000 metric tons less crude oil need to be extracted as abiotic or fossil raw materials. For the primary production of one metric ton of polypropylene – the second most widely used plastic in the world – a total of about 5.2 metric tons of raw materials are consumed and about 1.7 metric tons of greenhouse gases are released, whereas the use of one metric ton of polypropylene from secondary raw materials (plastic waste) consumes on average only 224 kg of resources (abiotic or fossil) and releases 966 kg of greenhouse gases.



Watch our videos:



Since HERBOLD Meckesheim's machine technology is used to recover about 100,000 metric tons of plastics (e.g. PP), this results in total annual savings of about 500,000 metric tons of abiotic resources and about 73,000 metric tons of greenhouse gases.

In the past ten years, about one million metric tons of plastics have thus already been recovered by HERBOLD Meckesheim plants. This is around 2.5 per mille of the amount of plastics produced worldwide every year. Which means that global greenhouse gas emissions have been reduced by almost 750,000 metric tons through the use of machine technology from HERBOLD Meckesheim.

Plastics – Curse and blessing at the same time

Plastics play an important role in our modern society. They are present in all areas of life. At the same time, however, plastics are an ever greater burden on our environment if they are not disposed of properly. Worldwide for years now, about ten million metric tons have been ending up in the world's oceans every year due to improper disposal.

As a result of their poor biodegradability, the plastics remain there for a long time and pollute fish, environmental systems and also enter the food chain as microplastic particles. It is indicated to recover much larger quantities from the various areas of application.

The recycling of plastic waste is stipulated in Germany and the entire EU by legal requirements such as packaging regulation and waste legislation. For this reason, it will no longer be possible for all sectors to operate in the future without recycling management.

 www.herbold.com



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Climate protection concerns us all

In Germany, around 53 percent of plastic waste is currently recycled for energy, which means that plastic waste is mainly used as substitute fuel for cement production or as an energy source in waste incineration plants. The filter dusts are usually landfilled or processed. Consequently, the energy recovery of plastics causes further waste as well as greenhouse gas emissions. According to estimates by the International Energy Agency (IEA), the production of plastics and other petrochemical products will account for half of the growth in global oil demand by 2050. At the same time, it is estimated that the current production volume of plastics of around 400 million metric tons per year will increase massively by 2050.

„We can no longer tolerate wastage of material due to lack of recovery,” the company management emphasizes on this development. In order to fulfill the goal of the Paris Climate Agreement to limit the global temperature increase to 1.5 degrees Celsius by 2050, it is important to fully exploit the possibility of recycling plastic. In this way, emissions and environmental impact can be reduced and natural resources conserved. **This is also achieved by the use of HERBOLD technologies.**

Improving recycle usage – but how?

With a recycle use of just under 14 percent in 2020 for the production of materials made of plastics, there is still a long way to go to achieve 100 percent recycle use. Increasing the recycling rate is therefore highly relevant in terms of avoiding primary material and thus greenhouse gas emissions. This is promoted and demanded by the legislator through successively increasing recycling quotas.

Across the EU, half of all plastic packaging produced is to be recycled in 2025, and 55 percent five years later. Industrial companies are also increasingly recognizing that recycled plastics can have the same quality and service life as virgin material. **The recovered plastics are also suitable for highly stressed components of high-value products.** An already established application is the recycling of PET bottles into granulates that can be reused for food packaging and obey the strict legal regulations that go with it. **PET washing lines of this type are part of HERBOLD Meckesheim's product portfolio.**



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Our Product Range

Size Reduction

- › Shredders
- › Granulators
- › Pulverizing Systems

Agglomeration

- › Plastcompactors

Service

- › Parts & Overhauls
- › Inspections & Trouble Shooting
- › Upgrades & Performance

Washing/Separation Systems & Components

- › Wet Shredders
- › Pre-washing Units
- › Wet Granulators
- › Friction Washers
- › Hydrocyclones & Separation Tanks
- › Air Classifiers
- › Hot Washing
- › Mechanical & Thermal Drying
- › Water Processing



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