

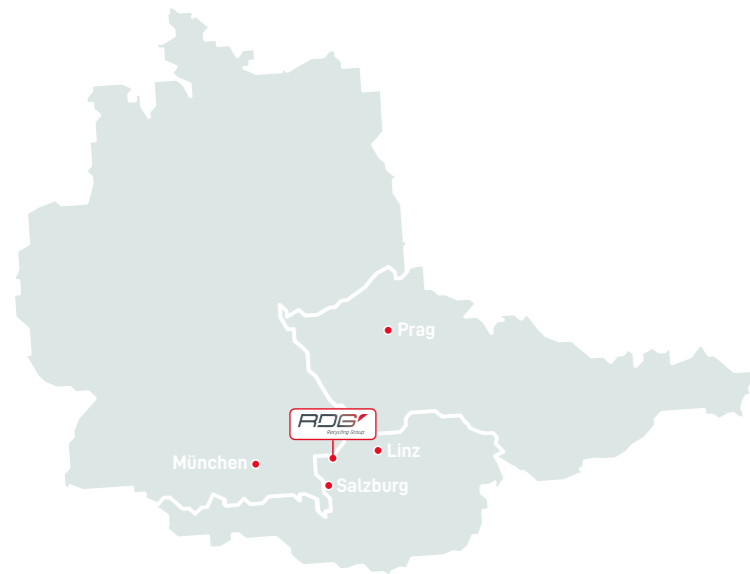
Working towards

a better future



Recycling and Resource Conservation

FOR OUR CHILDREN'S FUTURE



The RDG Recycling Group, based in Mühlheim am Inn, comprises RDG – Plast GmbH and RDG – Verbund GmbH. We specialize in the recycling of plastics, including production waste, composite materials, and large-volume post-industrial waste.

With advanced recycling technologies, we transform plastic waste into high-quality shredded material, regrind, and regranulates. Throughout the process, materials are carefully sorted by type and processed to ensure consistent quality.

Our recycled materials are reintroduced into the production cycle and used to manufacture a wide range of new products.



more than **50**
employees



50.000m²
operating area



16.000t
regrind / granulates
per year



32.000t
CO₂ savings per year



Sustainability in practice

As a recycling company, sustainability is not just important to us, it is part of our daily operations. Our goal is to keep valuable resources in circulation while using energy and resources responsibly.

With modern equipment, efficient processes, and innovative technologies, we continuously work to make our production as environmentally friendly as possible.

A particular focus lies on climate-neutral and resource-efficient processes, helping to reduce emissions and optimize energy use.



The RDG Recycling Group is self-sufficient in heat supply. We heat our entire facility using wood chips from production residues (one-way pallets). For this purpose, we utilize one-way pallets that would otherwise require disposal.



With over 10,000 m² of photovoltaic area and a total capacity of around 990 kWp, we generate sustainable energy and cover approximately 60% of our electricity demand with solar power.



Sustainability also plays a key role in our vehicle fleet. Our company cars are gradually being replaced with electric vehicles. The charging stations are available not only to our employees but also to the public. In this way, we contribute to reducing CO₂ emissions and promoting e-mobility.



Closing the loop together

A modern and high-performance machine fleet forms the foundation for efficient, high-quality plastic recycling.

At RDG Recycling Group, we cover all process steps along the value chain – from shredding and processing to final re-refinement.

For the shredding process, we operate a total of eleven powerful systems, including five granulators and two large cutting mills for a wide range of plastic products.

This area is complemented by four single-shaft shredders for bulky plastic parts, as well as a dedicated system for processing pipes.

An additional shredder enables the efficient separation of metal-plastic composites. For the subsequent separation and cleaning of materials, we rely on a modern sorting system combined with a hydrocyclone.



These technologies ensure reliable removal of contaminants and a high level of material purity as the basis for further processing.

In the final step, the processed plastics are refined. A high-performance blending system and extrusion line enable the production of high-quality regranulates with consistent material properties.

Thanks to this comprehensive technical setup, RDG Recycling Group is able to efficiently process a wide range of plastic streams and convert them into high-quality secondary raw materials – making an important contribution to a functioning circular economy.

“Our machinery stands for efficiency, quality, and above all innovation in plastic recycling. Through continuous development and the targeted use of new technologies, we create the foundation for sustainable solutions along the entire value chain.”

Franz Kobleder, Shareholder and Managing Director



Shredding

Plastic raw materials are first reduced to shredded material in the processing plants. In a subsequent step, the material is further processed into regrid.

Depending on the requirements, the regrid can already be used and marketed as a final product. In many cases, however, it serves as an intermediate product for the production of regranulates. In this process, the material is melted, filtered, and processed into new plastic granules.

The resulting regranulates are high-quality secondary raw materials and are reused in a wide range of industrial applications. In this way, valuable materials are returned to the plastic cycle, contributing to the sustainable use of resources.

SHREDDING

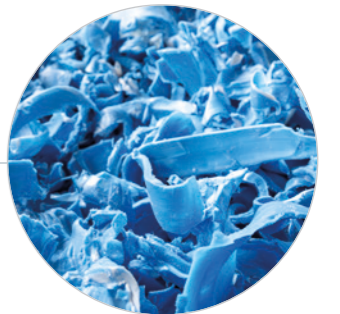


Shredder



Pipe shredder

SHREDDED MATERIAL



GRINDING



Mill

REGRIND



GRANULATING



Extruder

REGRANULATE



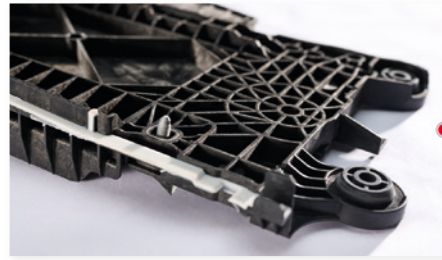
Separation



At RDG, composite materials are separated into plastic and metal components using both manual and mechanical processes. Depending on the material and its composition, different methods are applied to ensure efficient and precise separation of the individual components.

Through careful handling and tailored processing steps, the quality of each material is preserved as much as possible. This allows both plastics and metals to be optimally prepared for further processing. The result is high-quality raw materials that can be reintroduced into the production cycle.

PLASTIC COMPONENT BEFORE SEPARATION



METAL SEPARATION



PLASTIC SEPARATION



SEPARATION OF PET STRAPS



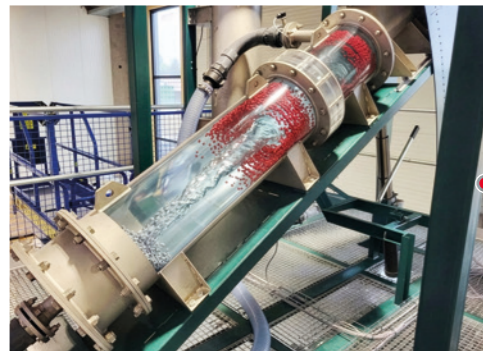
PET



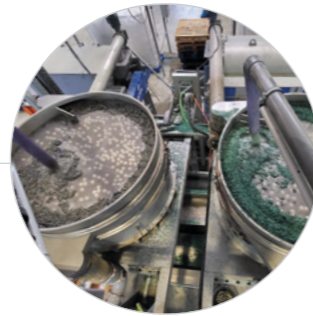
PP



HYDROCYCLONE



SEPARATION OF PET AND PP



INNOVATIVE TECHNOLOGY FOR PLASTIC SEPARATION USING A HYDROCYCLONE

Using a hydrocyclone different types of plastics can be efficiently separated based on their density. This globally unique technology sets new standards in plastic processing and significantly improves the quality of recycling.



Sustainable Logistics

Efficient logistics are a key component of a functioning recycling cycle. With three company-owned trucks, we ensure flexible and reliable transportation. All vehicles comply with the EURO 6 standard and are equipped with modern safety and assistance systems.



At our site, a truck scale enables precise weighing of materials. In addition, RDG offers container loading directly on-site, ensuring efficient preparation and optimal organization for international transport.

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