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Communications

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PRESS RELEASE

Highly wear-resistant screws and barrels enable safe recycle processing

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Whether film manufacturer, injection molder or line manufacturer: the processing of recycle involves many challenges because recycle is a rather complex raw material and a stress test for the plasticizing unit. Highly wear-resistant barrels and screws from Reifenhäuser Reiloy give the unit a long service life and ensure high product quality.

Recycle is often a grab bag, because it is not always clear how carefully the starting material has been sorted and cleaned, or which additives and possibly aggressive residual components are contained. In addition, high-quality recycle processing requires special additives that enable the polymer to become a high-quality product again. However, many of these additives are also challenging because, among other things, they have an abrasive effect or adhesive tendency - others have an aggressive effect due to inorganic acids. Many colorants and fillers also stress the components.

Reifenhäuser Reiloy offers a reliable solution for this with its highly wear-resistant screws and barrels and regularly sets benchmarks in terms of quality and performance. The components offer a demonstrably longer service life, precise matching of raw materials and additives, exclusive alloys developed in-house, and process-optimized surfaces. Manufacturers of injection molded and extruded products thus benefit from the best cost-benefit ratio in the industry. Higher resistance to wear is provided by special iron-based alloys and nickel-based alloys that match the raw material being processed. The decisive factor here is the composition of the alloys, because wear protection depends not only on the hardness of the layer.

Ralf Pampus, Managing Director at Reifenhäuser Reiloy, explains: "We are the only screw and barrel manufacturer to develop and produce the hard material alloys - and even the powders required for wear protection - in-house in our own materials laboratory. This means we offer expertise across the entire process that is unique in the market. Recent independent tests have again proven that Reifenhäuser Reiloy's wear protection is the best on the market and that the investment pays off - because high-quality components need to be replaced less frequently, produce consistent quality and thus ensure the productivity of a line."

Reifenhäuser Reiloy has decades of experience in wear protection systems and takes a holistic approach to wear protection consulting: Reiloy experts determine the optimum interaction between barrel and screw armor for each plasticizing unit and select the appropriate surface treatment.

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Highly wear-resistant barrels and screws on the K 22:

REIFENHÄUSER MAIN BOOTH: **Hall 17 / C 22**

SCREWS | BARRELS | EXTRUDERS: **Hall 11 / C16**

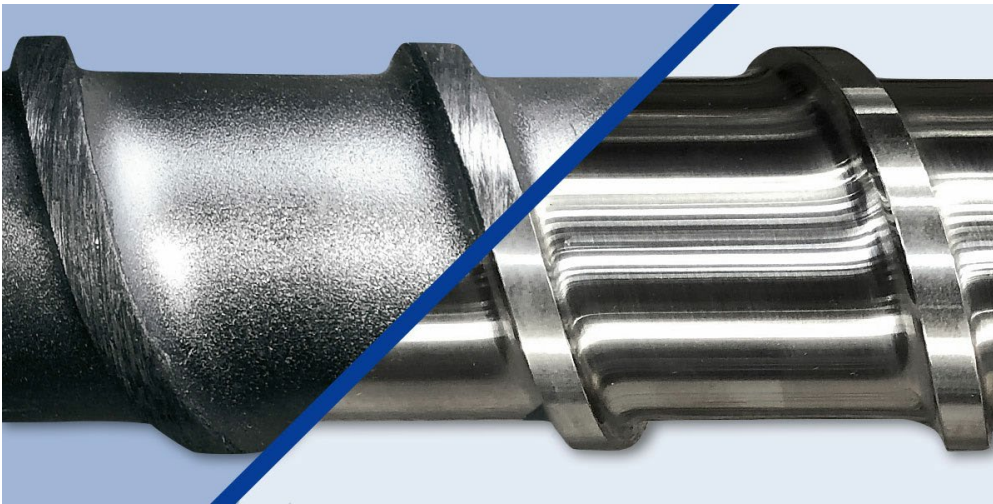
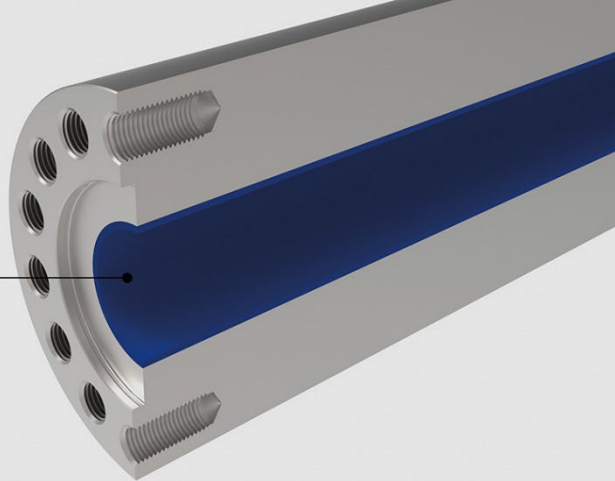
More information about wear resistance:

- <https://reifenhauser.com/en/company/media/news-and-stories/stories/reiloy-verschleisschutz-hardness>
- <https://reifenhauser.com/en/company/media/news-and-stories/success-story/processing-recyclate-wear-protection-for-components>
- <https://reifenhauser.com/en/company/media/news-and-stories/stories/reiloy-wear-protection-extrusion-know-how>

About the Reifenhäuser Group

The Reifenhäuser Group is the leading provider of innovative technologies and components for plastics extrusion. Founded in 1911, the company supplies high-technology solutions all over the world. With its technologies and the know-how of its 1,750 employees, Reifenhäuser has the world's largest network of expertise in plastics extrusion technologies. The CEO of the Group is Bernd Reifenhäuser.

For greater resistance to wear, Reifenhäuser protects its barrels with special iron-based alloys and nickel-based alloys that match the processed raw material.



Recyclate is complex as a raw material and a stress test for the components of the plasticizing unit. Abrasion, corrosion and adhesion can lead to surface damage.



Reiloy screws and barrels from Reifenhäuser regularly set benchmarks in wear protection and offer proven longer lifetime.



Reifenhäuser is the only manufacturer to develop and produce the hard alloys for the wear protection of its screws and barrels in-house.

Pictures: Reifenhäuser