



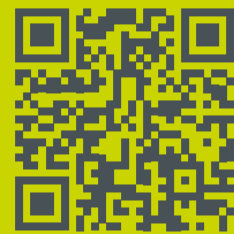
PHILOSOPHY

OUR MISSION
We leverage the universal benefits of glass beads for your special industry applications, in energy-efficient ways.

OUR VISION
Industrial glass beads by SWARCO Indusferica – the world's preferred choice in all niches

OUR VALUES
Efficiency
Diversity
Intelligence

OUR MOTTO
Universal Efficiency



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A NEW FACE AT SWARCO INDUSFERICA

Andreas Krenmayr



We are very happy to welcome **Andreas Krenmayr** to our team. Previously an area sales manager in the plastic recycling industry in Germany, Austria and Switzerland, Andreas brings a wealth of experience that is sure to be a real asset for our team. We are delighted to welcome such a dedicated colleague to our **SWARCO family**.

Before joining **SWARCO Indusferica**, Andreas gained broad professional experience in various positions, including that of Junior Sales Manager at an importer of advertising materials. During his studies, he worked as a junior researcher at the Institute of Polymer Product Engineering where he took care of client projects.

When asked what motivates him most in his job, Andreas responds:
“The fact that there is always something new! To constantly be able to work on new projects and help new clients that advance innovation. And to keep meeting new people who can teach you a lot.”

In his new position at SWARCO, Andreas is looking forward to the challenge of sharing the numerous advantages of glass beads used as filling agents with his clients, helping them to boost the performance of their materials.

In his free time, Andreas likes to play video games, go bouldering, or, in winter, go skiing. In summer, he also enjoys outdoor activities and likes to play sports with his friends.

The next steps in his job at SWARCO include serving existing clients in the best possible way and acquiring new customers. We wish Andreas a successful start and look forward to seeing his expertise and enthusiasm make an important contribution to taking SWARCO Indusferica further.
Welcome to our team, and here's to a successful cooperation!

2024
ISSUE 1



ALL-ROUNDER

News and Updates from SWARCO Indusferica



INTRODUCING
ANDREAS KRENMAYR

CIRCULAR
ECONOMY

ECOCHAIN
HELIX

SWARCO
VESTGLAS

#needforbeads

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Dear readers,

Now that we are a few weeks into 2024, I'm delighted to share our new issue of the SWARCO Indusferica client magazine with you. As always, we take a look at exciting developments that will accompany us in the coming months.

To start, we'll introduce Andreas Krenmayr, who we welcomed to our team. With his many years of professional experience, he is bringing a great deal of dedication and a wealth of knowledge to SWARCO Indusferica that will definitely strengthen our team. We look forward to our successful collaboration.

We are also proud to present the launch of Ecochain Helix, our new life cycle assessment software. This reflects our clear focus on sustainability and environmental awareness.

Our initiative on the utilization of resources within the circular economy is also taking center stage. These approaches contribute to minimizing our ecological footprint and further strengthening the circular economy.

Our article about SWARCO VESTGLAS will give you an overview of the current developments at this pivotal production site for micro glass beads. As an integral part of the SWARCO group since 1978, SWARCO VESTGLAS plays a key role in the development of reflective road markings and various surface treatment technologies at SWARCO.

We would like to thank all our staff and clients for their valuable cooperation over the past year and wish you an inspiring read of the exciting insights and news in this issue of the All-Rounder.

We look forward to another successful year together with you.

Best regards,

Stephanie Müller

Stephanie Müller
Marketing Manager
SWARCO Indusferica



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SWARCO VESTGLAS

Crystal-Clear Innovation for Roads and the Industry

SWARCO VESTGLAS goes back to a glass factory founded in 1948 in Gelsenkirchen, Germany, which produced glassware and technical glass products. In the 1960s, a production facility for micro glass beads was established in Recklinghausen, Germany, with VESTGLAS and another company each holding 50% of the shares. In 1978, the SWARCO group took 100% ownership of the company, and in 1998, the development and production of thermoplastics began.



With a yearly turnover of approx. 29.6 million euros in 2022 and 75 employees, SWARCO VESTGLAS serves clients in Germany, Scandinavia, France, Belgium, the Netherlands, Luxembourg and Great Britain. In addition to glass blasting beads and glass granulates, SWARCO VESTGLAS also offers a broad blasting

media programme for large industrial customers that includes corundum and natural blasting media, such as nutshell granulate and corn cob shot, as well as plastic granulate. These materials are used in a variety of processes, such as cleaning, deburring, matting and shot peening.



ECOCHAIN HELIX

SWARCO Relies on Sustainable Production

Ecochain Helix software is used to perform life cycle assessments (LCAs), precisely analyzing emissions in the supply chain, all production processes and the entire product life cycle. This makes it possible to determine the exact ecological footprint of companies and products.

The Center of Competence uses the data that is collected for targeted research. For instance, the software identifies which raw materials leave a particularly high carbon footprint. They are replaced with more eco-friendly resources where possible, explains Friedrich Wiesinger, Team Leader Product Development at SWARCO Road Marking Systems: "Our product development team conducts research on how to switch from environmentally harmful materials to alternatives with the smallest possible ecological footprint. This helps reduce emissions, waste and transport, and achieve an effective circular economy." SWARCO has already planned concrete measures to make the production of glass beads even more sustainable in the long term.

The Ecochain Helix analysis tool is already in use at all production sites in Europe. Analyses can be divided into Scope 1, 2 and 3. Scope 1 emissions relate to the site's own production process, Scope 2 to emissions from the generation of electricity purchased from

energy companies, and Scope 3 refers to purchased raw materials as well as waste, business travel and staff commutes, etc., and also includes the transport of raw materials. The software follows the international ISO 14040 standard for calculating life cycle assessments.

At SWARCO, the LCA analyzes cradle-to-gate emissions. It encompasses the extraction of raw materials, transport emissions, the internal production process including the use of gas, electricity and water, waste, business travel and staff commutes, and packaging.

These values are calculated per tonne of product in order to determine the CO₂ emissions and other values. The results can be shown at the site, process, material flow, and product level.

CIRCULAR ECONOMY

New Ways of Utilizing Resources

SWARCO Road Marking Systems uses recycled flat glass for the production of high-grade micro glass beads and conducts research on how to also utilize the filter glass dust generated during manufacturing for certain industrial applications to make production even more sustainable.



The circular economy has become increasingly important in recent years. Since its founding, SWARCO Road Marking Systems has relied on the use of secondary raw materials. SWARCO Road Marking Systems' story began with the vision of Manfred Swarovski, who wanted to utilize flat glass cullet for micro glass beads. Fifty years later, these glass beads are still manufactured based on this principle and used in a broad range of applications, including road markings.

Each of SWARCO Road Marking Systems' production sites continuously strives to strengthen the circular economy, with the proportion of secondary glass used in the production of reflective glass beads ranging between 70 and 95 percent. What's more, secondary raw materials are sourced within the region to strengthen the local economy and minimize transport distances. "We are working constantly to increase this share further," says Vice President Peter Tomazic, affirming the importance of keeping the ecological footprint of the products as small as possible.

SWARCO Road Marking Systems also conducts research on how to utilize previously unused resources, such as the filter glass dust generated during production. One current project aims to integrate this dust into concrete in order to lower the percentage of cement used and minimize the ecological footprint. This helps to create synergies and reduce carbon emissions.

#needforbeads