

PRESS RELEASE

Zeppelin Systems announces partnership with Italian Technology RubberJet Group & Vertech

Friedrichshafen (Germany), March 6, 2023. On the path towards establishing a sustainable circular economy in the tire manufacturing sector, Zeppelin Systems entered into another important partnership in the mechanical recycling sector on February 7, 2023. The Italian Technology group formed by RubberJet and Vertech specialized in recycling particularly large scrap tires, for example from trucks and construction and mining machinery. High-quality rubber recyclates are made from scrap tires measuring up to four meters in size, which can later be used to manufacture new tires. Best of all, the patented and proprietary method is 100 percent environmentally friendly!

According to current figures from the AZuR network (innovation forum for scrap tire recycling, of which Zeppelin Systems is a member), around 3.5 million tons of scrap tires are generated in Europe each year. In Germany alone, around 550,000 tons of scrap tires were accrued in 2021. If every scrap tire in Europe was recycled, around 2.45 million tons of CO2 emissions would be saved. "This potential must be tapped not only in terms of a sustainable circular economy. As an industrial company, we have a responsibility to make value chains more sustainable overall on a large scale in order to conserve the resources of our planet," says Markus Vöge, CEO of Zeppelin Systems GmbH. In line with this, the Friedrichshafen-based plant engineering company developed a revolutionary, sustainable process for the mechanical recycling of scrap tires in cooperation with international project partners from a wide range of industries. Recycled rubber granulate or "rubber flour" are thus given a second life.

In the patented and proprietary process developed by RubberJet Group and Vertech, primarily off-the-road or giant tires – for example, from construction vehicles in diamond mines with diameters of up to four meters – are broken down into individual parts by a high-pressure water jet process using a patented and proprietary 100 percent environmentally friendly method. Rubber and steel are separated by the water jet technology, and the rubber flour and granulate obtained can be marketed directly as recycled material. By their very nature, the high natural rubber content of rubber used in large tire compounds ensures that the recyclates obtained are of particularly high quality. In addition, the recycling process gives the recycled materials an especially large surface structure. This is essential for renewed interlacing, such that the recycled material can be vulcanized again within the new tire compounds or generally the new rubber compounds.

RubberJet Group has been on the market since 2016, and the Italian company invested over six years developing the patented and proprietary waterjet technology. "With High Pressure Water Jet Technology, large tires can be economically and resource-efficiently recycled into a high-purity and surface-activated rubber flour that can be directly reused in a rubber compound," explains Guido Veit, Vice President Sales for Polyolefins, Rubber and Silos at Zeppelin Systems GmbH. By giving

tires a second life, we are making more sustainable use of resources and thus significantly contributing to a sustainable circular economy. This is what the strategic cooperation and partnership between Zeppelin Systems, RubberJet Group and Veritech achieves.

We Create Solutions!

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About Zeppelin Plant Engineering

Zeppelin Systems is a global leader in plant engineering for the handling of high-quality bulk materials. With over 70 years of experience in process engineering and extensive knowledge in handling countless raw materials, Zeppelin Systems offers complete and reliable solutions. With 22 locations worldwide, the company supports its customers from plant design through implementation and provides all aftersales services locally, from a single source. At Zeppelin Systems, innovative processes are just as important as the clever automation solutions and full range of service they provide to cover the entire life cycle of your plant. Each Zeppelin plant is customized to meet the requirements of each customer be it in the plastic, chemical, rubber and tire, or food industries. With the world's largest technology center network for bulk materials, Zeppelin enables its customers to carry out tests on an industrial scale and verify and optimize their plant design. Zeppelin Systems develops and manufactures its own components for key plant functions, which are also used in third-party plants. For more information, visit zeppelin-systems.com.

About the Zeppelin Group

The Zeppelin Group offers solutions in the construction industry, drive and energy systems, engineering and plant engineering. The Group provides customers with expertise in a number of areas, from the distribution and service of construction, mining, forestry and agricultural machinery, through rental and project solutions for the construction sector and industry as a whole, to drive and energy systems as well as engineering and plant engineering and enhances its offering with digital capabilities in all areas. Zeppelin is represented at more than 340 sites in 43 countries and regions worldwide. In the 2021 financial year, the Group workforce comprised almost 11,000 employees, which generated sales of EUR 3.7 billion. The Group organizes its activities into six strategic business units (Construction Equipment Central Europe, Construction Equipment Nordics, Construction Equipment Eurasia, Rental, Power Systems, and Plant Engineering) and the Zeppelin Digit Strategic Management Center. Zeppelin GmbH is the Group holding company. It is legally domiciled in Friedrichshafen and has its head office in Garching near Munich. The Zeppelin Group is a foundation-owned company. Its roots can be traced back to the establishment of the Zeppelin Foundation by Graf Ferdinand von Zeppelin in 1908. For more information, visit zeppelin.com.

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