

Coil Winding – Compact Dynamics Enhancement:

VACUUMSCHMELZE to present VACOFLUX®/VACODUR® soft magnetic materials at Coil Winding Expo in Berlin

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Hanau / Frankfurt – VACUUMSCHMELZE GmbH & Co. KG (Hanau) will attend Coil Winding in Berlin from 5 to 7 May. At the world's largest trade show for manufacturers of coil winding, insulation and electrical products, VAC will focus on presenting products from its Materials and Parts division. A key area at the VAC stand Number 4512 in Hall 2.1 will be rotor and stator cores designed for high-performance engines and made from cobalt-iron alloys VACOFLUX® and VACODUR®. These soft magnetic materials were developed specifically for use in high-efficiency electric engines and generators with low power dissipation such as those used in the aviation, motor sports and automation industries.

Combined with VACUUMSCHMELZE's range of advanced production processes, the outstanding properties of these materials assure maximum energy density and minimum power dissipation. Low-fatigue processing technologies aligned to the alloys used (VAC stacking technology) enable fill factors of 98% to be achieved at metal thickness of a mere 0.1 mm: by comparison, conventional processes deliver fill factors of around 90 %. VACUUMSCHMELZE "Power Packs" feature outstandingly efficient insulation between the individual tape layers, enabling eddy current losses to be minimized.

VACUUMSCHMELZE offers the option of combining these packs with VACOMAX® or VACODYM® rare earth permanent magnets, which offer both ultra-high energy density and optimum performance thanks to specifically developed joining and adhesion processes.



VACUUMSCHMELZE GmbH & Co. KG

VACUUMSCHMELZE (VAC) with 1,400 employees in Hanau, designs, produces and markets advanced materials, particularly with magnetic, but also with other physical qualities as well as related products. In 1914, the first vacuum furnace laid the foundation for today's VACUUMSCHMELZE. Industrial vacuum melting techniques for alloys have been in operation since 1923.

VAC Group today achieves annual sales of around 325 million euros in over 40 countries and is holder of more than 600 patents. The company is among the world's most highly innovative developers of advanced industrial materials.

VAC's range of products comprises a broad array of advanced semi-finished products, components, parts, modules and systems for use in a wide variety of fields and industries spanning watch-making and medical technology, regenerative energies, shipbuilding and the automotive and aviation industries. VAC's custom solutions are developed in close collaboration with the customer, reflecting the company's expertise in materials and state-of-the-art production technology.

Find out more at www.vacuumschmelze.com