

Electric motors on the rise

Press contact:

Nr.: 10/18

Hanau, July 19, 2018

Norman Lemm
VACUUMSCHMELZE GmbH &
Co. KG
Phone +49 (0)6181 / 38-0
Fax +49 (0)6181 / 38-2645
norman.lemm@
vacuumschmelze.com

**Contact address for reader
requests:**
VACUUMSCHMELZE GmbH &
Co. KG
Postfach/P.O.B. 22 53
D-63412 Hanau
Tel. +49 (0)6181 / 38-0
Fax +49 (0)6181 / 38-2645
info@vacuumschmelze.com
www.vacuumschmelze.com

Hanau – the electrification of drives is gaining speed. For years, car manufacturers all over the world have been working with hybrid and all-electric vehicles, however a most recent trend is that electric high-performance drives, originating from motorsport technology are gaining increased relevance for the design and development of production vehicles.

Nearly all leading manufactures consider cobalt-iron alloys in their development approaches - whether to explore the limits of what is technically possible or to get to know the entire range of the product market. VACODUR[®] and VACOFLEX[®] continue to be the leading solution for highly efficient electric motors.

In combination with rare-earth magnet systems, these materials enable a torque, i.e. performance increase of approx. 50 % compared to conventional materials or a weight reduction with constant performance. Motor performance and efficiency can be adapted specifically.

Current developments are targeting an improvement of the product portfolio with associated cost neutrality and process-optimized alloys. This brings the use of premium products closer to the use in production vehicles.



Stator and laminations
© VACUUMSCHMELZE GmbH &
Co. KG

VACUUMSCHMELZE GmbH & Co. KG

VACUUMSCHMELZE (VAC), based in Hanau, has 4,300 employees worldwide, 1,450 of whom are in Hanau. The company 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 approx. 380 million euros in over 50 countries and is holder of around 800 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 materials and parts, inductive components for electronics, magnets and magnet systems for use in a wide variety of fields and industries spanning watch-making and medical technology, renewable energies, shipbuilding, installation technology, automotive and aviation. VAC's custom solutions are developed in close collaboration with the customer, reflecting the company's expertise in materials, applications and state-of-the-art production technology.

For more information, visit www.vacuumschmelze.com

® = registered trademark of VACUUMSCHMELZE