NEWSLETTER

TOPICS:

UP-TO-DATE WITH RACETECH

Dear sponsors, friends and supporters,

the first set of deadlines is already over and we would like to talk about the procedure for the production of the SES samples.

The manufacturing and preparation of our RT14evo for the competitions is going on in full swing. We would like to thank you again for your support with the components! Your support is our greatest source of strength and motivation.

We would like to draw your attention to our current campaign for new LiPo sponsors once again: With every new LiPo sponsorship you will receive a calendar 2022 having detailed photos of the RT14.

We hope you enjoy reading!
Your Racetech Racing Team

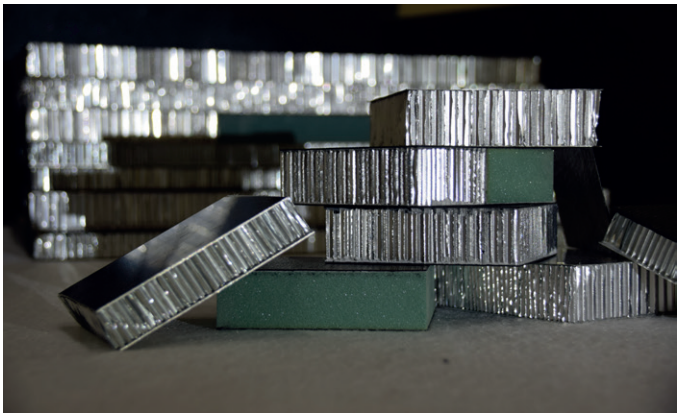
> 01
LATEST NEWS

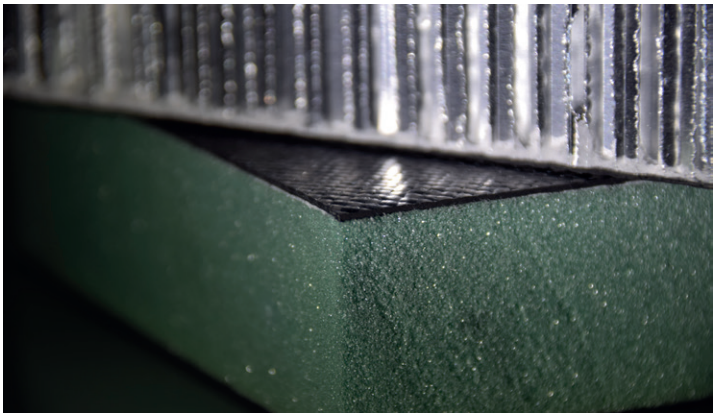
SES TEST SAMPLES

Since strength and rigidity are considerably more difficult to predict for a composite monocoque than for a steel tube frame, it is necessary to perform several physical material tests in addition to the previous calculations and simulations. During these tests, both flexural strength, rigidity, and perimeter shear strength of the sandwich panels as well as the shear strength of glued lap joints are determined. The results of these tests are documented in the SES (Structural Equivalency Spreadsheet), which will later be reviewed by the events judges. To ensure the safety of all vehicles, a flawless SES is a prerequisite for participation in the events. This implies that every step from manufacturing of the samples to documentation of the results is to be done with great diligence.

Currently, we are in the process of manufacturing the SES samples for the monocoque and accumulator container of the RT14evo, which will be tested in the upcoming weeks. In parallel, the first tests for the RT15 will be executed as per plan. These have multiple innovations compared to the RT14evo: A new type of carbon fiber, the use of preimpregnated fabrics (prepregs) with superior material properties, and a new aluminum honeycomb, capable of creating three-dimensional bends, supplied by our sponsor IWE GmbH & Co. KG is used for the first time. This allows greater freedom of form in the monocoque.

Author: Philipp Geisler





SES samples prepared for testing

> 02
NEW ARRIVALS IN THE WORKSHOP

A huge thanks to all our sponsors who make these components possible for us!

MOTOR SHAFT

MOTOR SHAFT

The motorshaft of the RT14evo has been developed by means of additive manufacturing, which reduces both weight and manufacturing costs of the shaft, because the inner contour of the shaft no longer needs to be machined. The new motor shafts also serve as a step towards innovation in the development of the motors of the RT15. We would like to thank AM Metals for the additive manufacturing and MFB for post-processing the shafts.

Author: Simon Karschner

THANK YOU FOR YOUR SUPPORT!

OUR SPONSORS

TU Bergakademie Freiberg

ACTech a materialise company

SWB Seidel Werkzeugbau

Krebs Aulich E-Traction

euro.Courier

AM METALS

TU Bergakademie Freiberg imf

BGH

Laminiertechnik Partzsch LT P CFK AFK GFK

GEBR.FICKER GmbH Formen- und Werkzeugbau

Konnerth Gruppe

MFB GmbH & Co. KG CNC Drehen Fräsen

PW Oertel

Claus Modellbau Neukirchen

Innovativer Werkstoff Einsatz IWE

melasta

siltronic perfect silicon solutions

Stiefelmayer lasertechnik

droette

Felgner Werkzeugbau

millfax

IFI

Autolackiererei Eberlein Freiberg · Niedersaida

ARCUT Wasserstrahlschneiden

SIEMENS Ingenuity for life

SolidLine Ein Unternehmen der Bechtle Gruppe

Entwicklung VE Fertigung

BorgWarner

Börsig

JT Energy Systems

Altium

Gienanth

ETAS

Braun-Dullaeus Pannen Emmerling Patent- & Rechtsanwälte | München · Düsseldorf

AKG

Rößner & Harzer GbR Metallbearbeitung

VDE

FERCHAU

MLP

HICONFORM

BOSCH

iav

ALTAIR

binder

pls Development Tools

Motor Design Limited

MSC Software

GWJ TECHNOLOGY

IPG Automotive

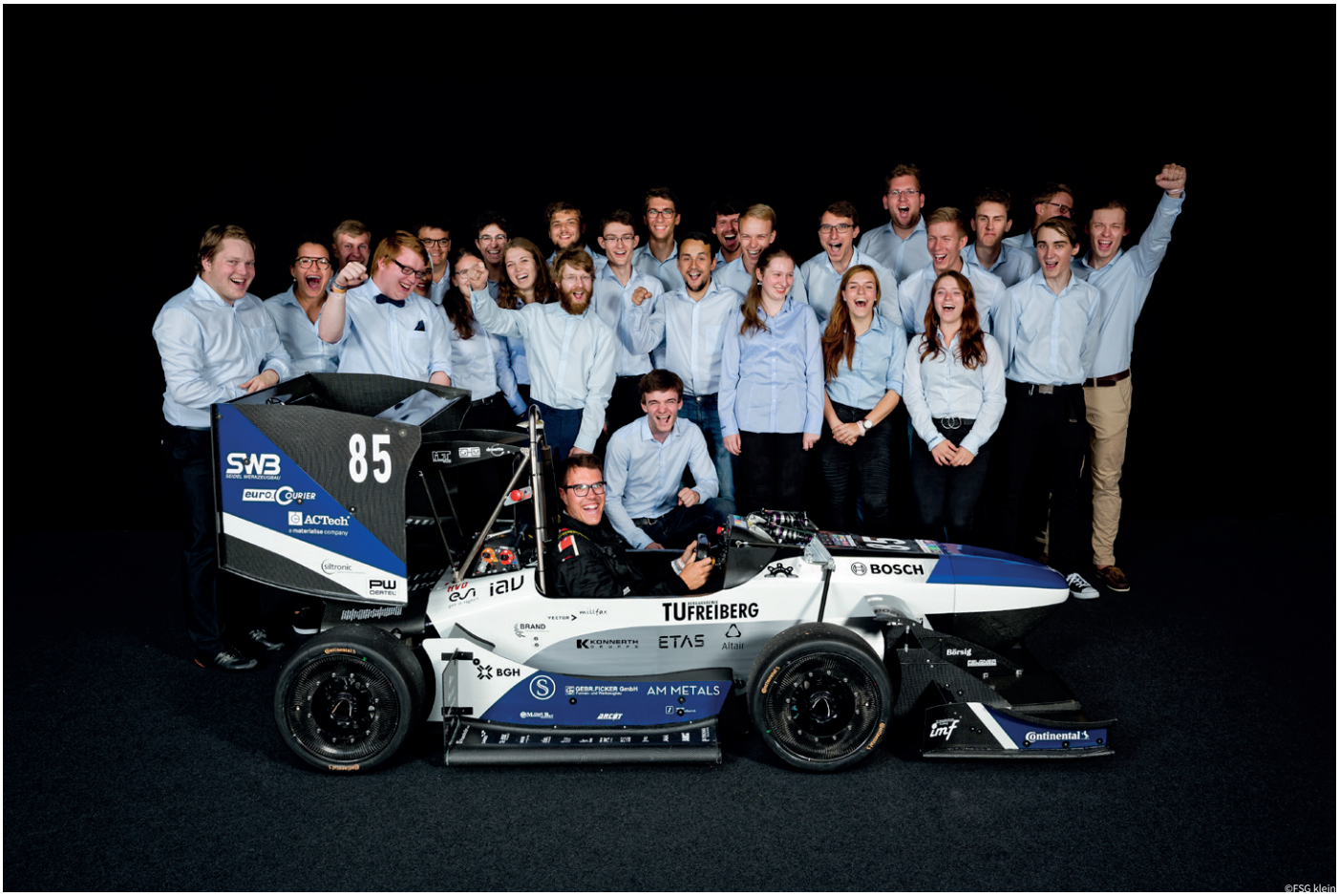
VECTOR

TASKING

SEKELS

robosense

THANK YOU FOR YOUR SUPPORT!



RACETECH RACING TEAM

1. MEMBER OF BOARD
PHILIPP GEISLER

2. MEMBER OF BOARD
JUEL KASSOU

TREASURER
SVENJA LINKE

>>> CONTACT:

ADRESS

TU Bergakademie Freiberg e.V.
Bernhard-von-Cotta-Straße 4
09599 Freiberg
GERMANY

CONTACT DETAILS

info@racetech.tu-freiberg.de
www.racetech-racingteam.de

OFFICE PHONE

Tel.: +49 (0)3731 39 3962

racetech
racing team TU Bergakademie Freiberg e.V.