



AMZ News

MANUFACTURING PHASE





©AMZ

Manufacturing Phase

Towards the end of last year, we gradually transitioned from the design phase to manufacturing. With the help of our manufacturing partners, we were able to assemble a variety of custom components by outsourcing over 500 parts to them.

These parts undergo a diverse range of manufacturing processes, including turning, milling, water jetting, erosion, and various 3D printing techniques. Additionally, we self-produced a wide range of different carbon fiber parts, among which is our unique monocoque, crafted entirely in-house.

Aerodynamics

This year, we devoted more attention to enhancing our aero package by adding an additional student to the aerodynamics module. Through refining the design, we achieved a significant increase in *dufour's* downforce. Our primary focus was on implementing a robust outwash concept, in which the front wing assembly plays a crucial role in redirecting clean airflow to the underfloor, sidepod, and rear wing, while simultaneously dispersing the turbulent wake created by the front tires.

Compared to the previous year, we have engineered many parts with more intricate shapes. For instance, the rear wing main flap features a variable section to accommodate different angles of attack based on the airflow conditions in a specific region.

As a result of these advancements, we have boosted performance by 24.7% compared to last year.

Assembly and commissioning

The assembled parts were mounted onto the car. Working day and night, we watched as the car took its shape. Currently, we are finalizing the last steps of commissioning so the testing may begin.

New Main Sponsor

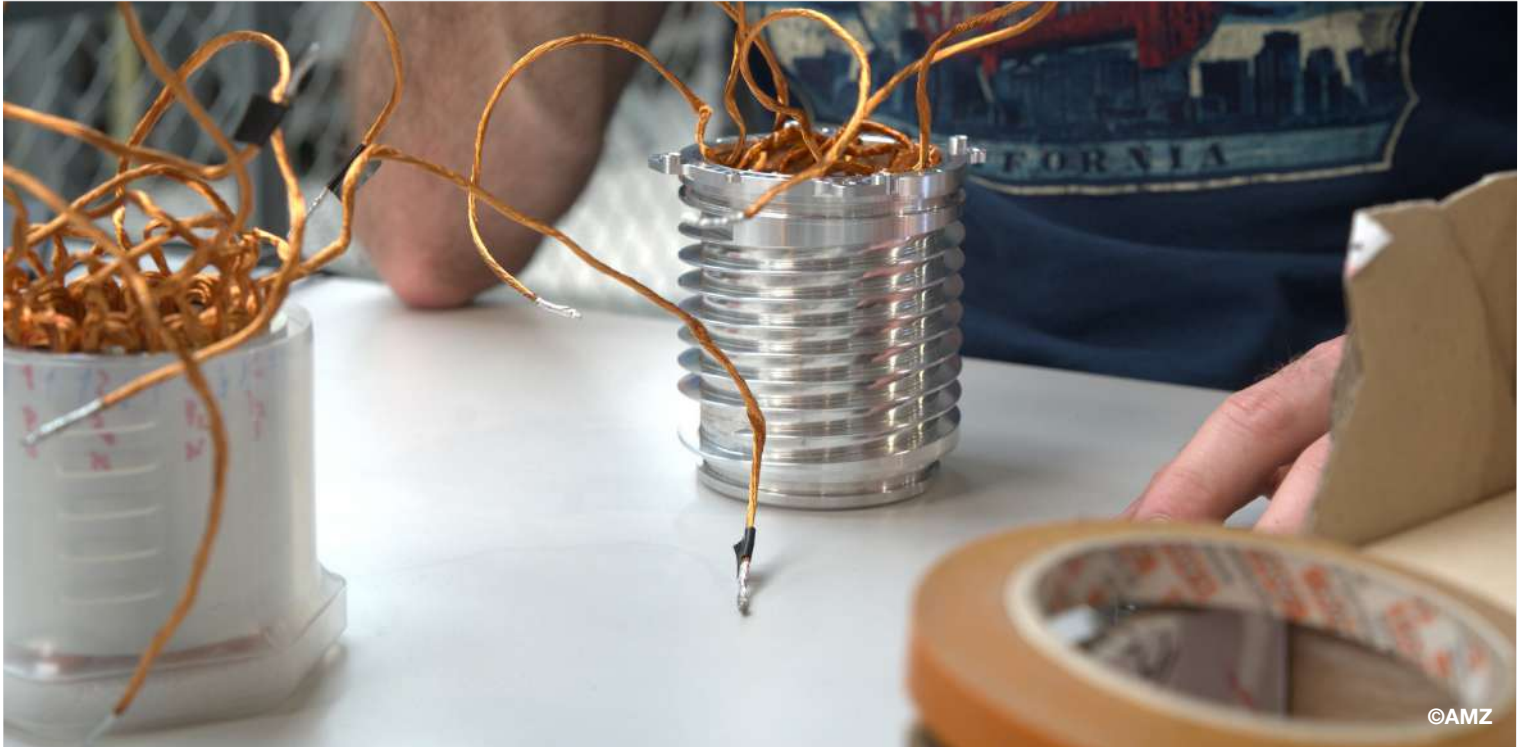
We are delighted to have maxon on board with us as a new main sponsor. Specializing in drive systems, they support us in constructing our self-developed motors in coiling, potting, assembly, and more. Only through our close collaboration it was possible to enhance our motor production processes even further. We look forward to a long and fruitful partnership.

Events

At the end of January, the registration quizzes for this year's Formula Student events took place. We are pleased to inform you that we qualified with outstanding positions. For the 2024 season, we will compete with *dufour* in Switzerland, Austria, Hungary, and Germany against the best student teams in the world.

Outlook

We would like to take this opportunity to thank all sponsors for their assistance, which was most crucial for the success of this project. With your continuing support, we are convinced that *dufour* will become a remarkable milestone in AMZ engineering history. Our latest car will be unveiled at the coming rollout on the 21st of May. We are excited to meet our sponsors, friends and families there.



©AMZ

Main Sponsors											
Premium Sponsors											
Sponsors											
Favourers											
A. Jäggi AG	Admec AG	Allair	Alteco AG	Analog Devices	Angst + Pfister	AWAG Elektrotechnik AG	Axalp Technologies	Bambu Lab	Bauhalle ETH	Baumann Springs Ltd.	Baumer AG
Bernina AG	Bomattec	Bossard	Brunner Präzisionsschleiferei	Buchser Tech GmbH	CEJN	De Martin AG	Domsel	Dr. Thomas Tanconge-Dejean	EDAG Engineering GmbH	Empa	Enclustra
Eurocircuits	Expresdruckerei GmbH	Fixposition	FORMACUT	Fritz Born AG	Furka Reibbeläge AG	Garage Stucki AG	GDELS	Grinovatech AG	H.A. Schlatter AG	H&R Spezialfedern GmbH & Co. KG	HABAAG
Hesai Technology	HMF	Hosttech	Item24	Kubot Tech AG	LAEMMLE Chemicals AG	MAN Energy Solutions AG	Max Schilling AG	Melasta	Frnds Metallservice Menziken AG	Mitutoyo	Muri Protech AG
Nicomatic	Novagear AG	OC Oerlikon Balzers	Precisionation AG	Prof. Dr. Dirk Mohr	Prof. Dr. Lino Guzzella	Projekt Neptun	PWB AG	Racing Unleashed	Rego Fix	Reviewable	Rheinmetall
Rofam GmbH	Rollstar AG	Rovitec	Sauber Motorsport AG	SBG Systems	Scientific IT Services	Servax	Sturmberg GmbH	Swaytronic	Mechanische Werkstatt AG	Tyssenkrupp Material	UIKER Antriebstechnik AG
Venturi AG	Victorinox AG	voestalpine Böhler	Wevo-Chemie	Wurth Elektronik							