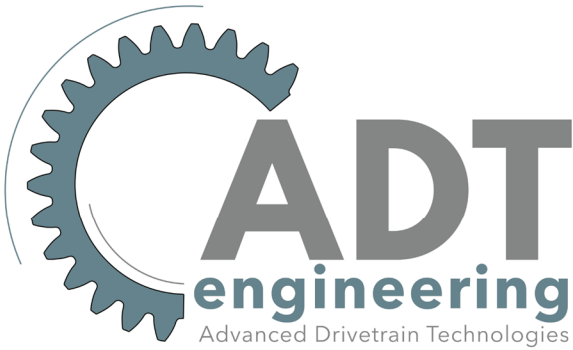
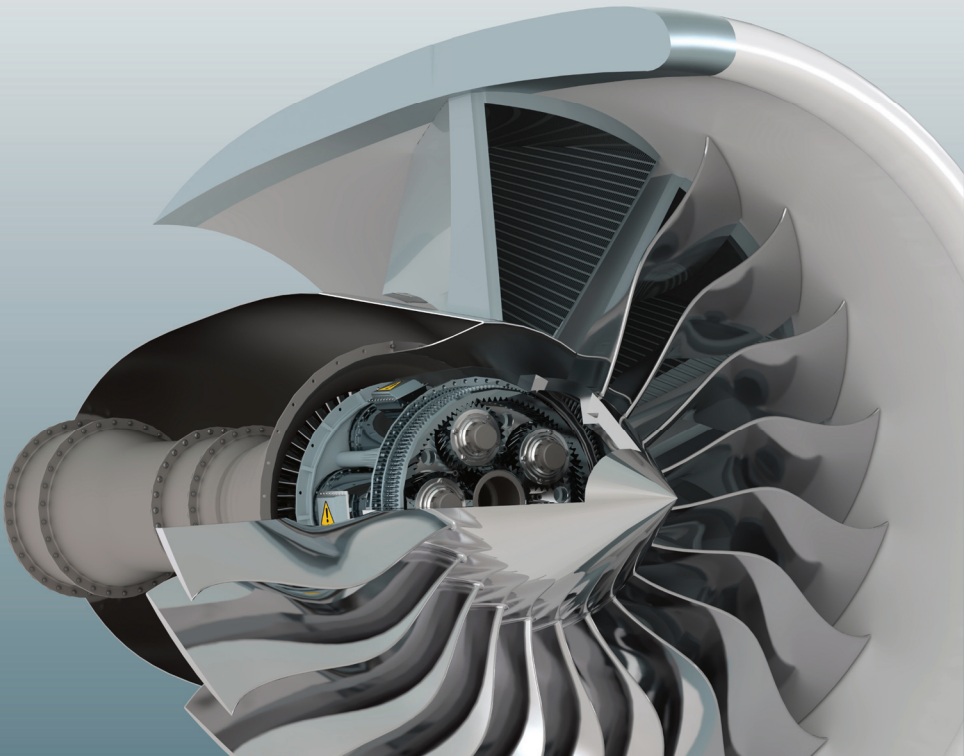




Let us design the link
you need between
thrust and
sustainable aviation



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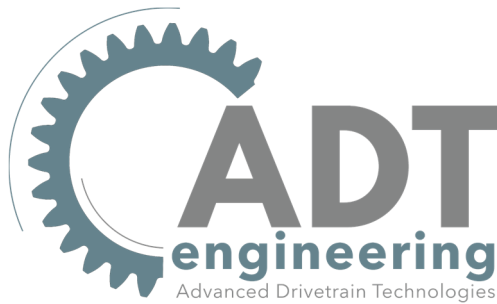
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The reason ADT exists is our passion for pioneering sustainable, eco-friendly technologies in aviation. Traveling by aircraft should leave no guilty conscience nor any doubt about its environmental impact. Cultural exchange across the globe must remain possible for generations to come. We envision a future where friends worldwide can meet in person - without leaving a significant environmental footprint.

*We provide you the missing link
between thrust and sustainable
aviation - together, connecting
people worldwide.*

Our mission is clear: to develop technologies that enables air travelling without harming the planet. We seek partnerships with those who share our vision, even when immediate financial gains are not guaranteed. Every collaboration with like-minded partners is a step forward, bringing us closer to our vision: a world where aviation and sustainability coexist.

Company

ADT Engineering was founded by aviation engineers with a clear ambition: To enable emission-free, sustainable propulsion for the future of flight. Whether for eVTOLs, commercial aircraft, propulsion systems, or airport infrastructure, our technologies empower the entire aviation ecosystem to fly cleaner, cooler, and more efficiently – without compromising performance or reliability.

Our Focus Areas: Tailored Solutions for Your Needs

We address the core technical challenges of sustainable aviation with expertise in:

- **Next-generation aviation drivetrains**
Enabling electrification and hybridization for eVTOLs, regional and single-aisle aircraft, while maintaining the power density and reliability required for commercial operations.
- **Precision-engineered gearbox design**
Delivering durability and efficiency for propulsion systems, whether on the ground, in the air or in space.
- **Advanced thermal management systems**
Ensuring optimal performance and longevity for high-power applications in aircraft and airport energy infrastructure.
- **Battery-electric storage and charging solutions**
Supporting fast, safe, and scalable energy systems for eVTOLs, electric aircraft, and airport charging networks including battery preconditioning.

Our Approach: Collaboration Drives Innovation

Driven by curiosity and a passion for progress, we also lead and partner in European, international, and national research projects. Our collaborations in research projects as well as a supplier for OEMs, propulsion manufacturers and airport operators ensure that our solutions are practical, scalable, and future-proof.

Our Responsibility: Designing for Tomorrow

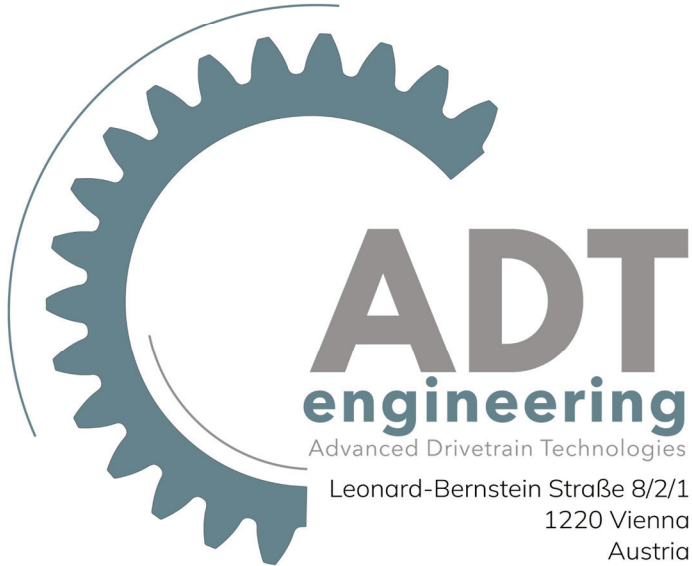
For us, engineering is more than technology – it's about shaping the future of aviation responsibly. Every solution we develop considers its long-term impact on operations, the environment, and society. Together with our partners, we ensure that sustainability and performance go hand in hand.

Our Promise: Performance Meets Sustainability

Our technologies deliver three key advantages for your applications:

- **High efficiency** ➡ Lower operating costs, extended range, and reduced total cost of ownership.
- **Reduced mass** ➡ Improved fuel economy and payload capacity.
- **Optimal battery temperature** ➡ Fast charging with battery conditioning to extend lifespan. „Charge fast. Stay cool. Fly more!“

Through continuous innovation, we are making sustainable aviation a reality – for aircraft, propulsion systems, and airport ecosystems alike.



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AVIATION DRIVETRAINS

RTD for future hybrid
and fully electric aviation
drivetrains

GEARBOX DESIGN

Development and realisation of
gearbox and drive designs

THERMAL MANAGEMENT

Development of TMS for
aviation and energy systems

BATTERY STORAGE & CHARGING SYSTEMS

Development of BESS for
special applications and
charging systems for aviation

AVIATION DRIVETRAINS

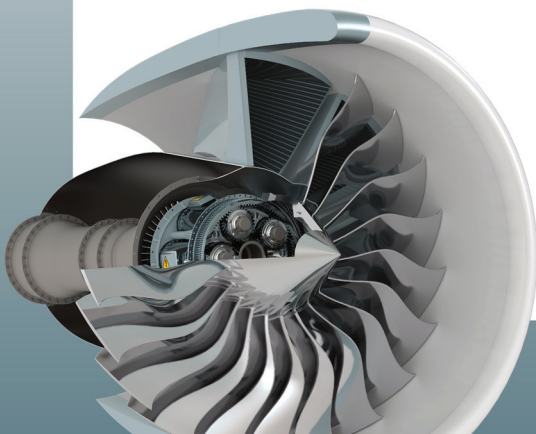
Your Challenge: Power, Efficiency, and Sustainability – All in One

As an eVTOL developer, aircraft manufacturer, propulsion system provider, or aerospace supplier, you need drivetrains that deliver maximum power, reliability, and efficiency – while being lightweight, quiet, and low-emission. After nearly a century of turbine engine optimization, radical progress now requires rethinking through new drivetrain architectures and hybrid-electric propulsion concepts. ADT helps you achieve all of this – and more.

Our Solution: Hybridization That Unlocks New Possibilities

The Aviation Drivetrains unit of ADT focuses on the development of hybrid and electric propulsion systems tailored to your needs. The reduction of overall aircraft mass and fuel consumption is just one possible outcome, but hybridization allows much more:

- **Simpler, more robust designs** by eliminating complex mechanical mechanisms,
- **optimized performance** through reduced engine design margins,
- **wide-range rotor speed variation** as well as
- **enhanced manoeuvrability** via electric boost.



All while satisfying the growing demand for electric power on modern aircraft. This leads to lower operational costs for your aircraft through improved efficiency, as well as higher performance without compromising reliability.

Our Approach: From Concept to Product – With You in Mind

At ADT, we don't just design drivetrains – we engineer them for your success. Using in-house tools, we perform comprehensive parametric optimization, considering entire mission profiles (both stationary and transient conditions). All optimization happens in the context of the whole engine and aircraft system to ensure every solution is tailored to your specific requirements.

From the earliest concept phase to the final product, we know that efficient collaboration is key - and the expertise of one company is not enough. That's why we apply a systems engineering approach, working with a network of European partners in manufacturing, electric machines, and power electronics. Together, we develop the optimal aviation drivetrain for VTOLs, rotorcraft or Aircraft.

Why Partner with Us?

- **Proven Expertise:** ADT is a trusted partner in European-funded research projects, from Clean Sky II to Horizon Europe and the European Defence Fund - working on the latest advancements in hybrid and fully electric aviation drivetrains.
- **End-to-End Development:** We define, optimize, and develop fully/hybrid electric propulsion modules. From architecture studies to technology concept, from prototype to product.

Let us Build the Future of Flight – Together!

From eVTOLs to commercial aircraft, from small manufacturers to large OEMs, ADT's drivetrain technologies empower you to fly farther, cleaner, and more efficiently.

GEARBOX DESIGN

Your Challenge: Gears with Precision, Reliability, and Performance in Every Application

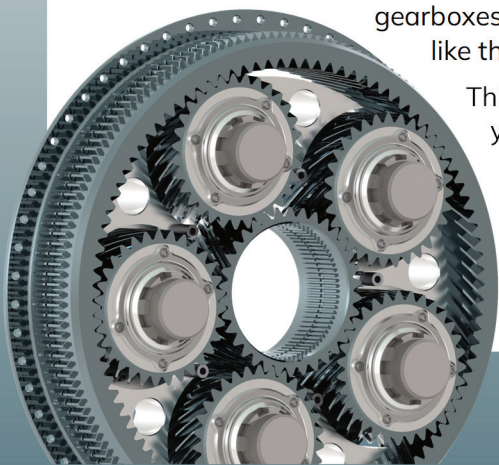
As an aviation propulsion system manufacturer, space industry leader, or specialized machinery builder, you demand gear systems that deliver uncompromising precision, durability, and efficiency – whether for hydrogen, electric, or hybrid powertrains or special applications on ground or in space. ADT's Gear Design department provides the cutting-edge solutions you need to optimize performance, reduce weight, and enhance NVH characteristics – critical for next-gen aircraft, eVTOLs, regional aviation, and beyond.

Our Solution: Aerospace Expertise for your Success

With years of experience in gearbox and drivetrain design, we specialize in sustainable powertrains for aviation and high-precision applications. Our expertise covers:

- **Maximum efficiency and minimal weight** for hydrogen, electric, and hybrid systems – tailored to your specific requirements.
- **Superior NVH performance** for quieter, smoother, and more reliable operations in aircraft, eVTOLs, and regional aviation.
- **Extreme environment solutions** – from compact space gearboxes to large-scale applications like the Giant Magellan Telescope.

This experience enables us to deliver you gearbox design with higher performance through optimized gearbox layouts and machine element design. We can increase lifespan with



advanced macro- and microgeometry optimization and provide enhanced durability via specialized gear coating and surface treatments – extracting the maximum potential from every component.

Our Approach: Choose the best design before starting optimisation

We don't just design gears – we engineer them for your success. Using advanced tools like KISSsoft, Siemens NX, and Simcenter 3D, we ensure precision, reliability, and innovation in every project. From concept to manufacturing, we provide gearbox layouts, machine element design, and sophisticated gear optimisation tailored to your application.

We manage supplier networks or leverage our trusted partner network to deliver your final product – seamless and efficient. We empower your team with KISSsoft trainings and workshops, enabling independent drivetrain design and problem-solving. We step in for specific challenges or system-level calculations – whenever you need us.

Why Partner with Us?

- **Proven Expertise:** Our aerospace-grade precision is applied to diverse sectors, bringing the same level of optimization and durability to your projects.
- **Innovation at Scale:** From small space gearboxes to large industrial applications, we deliver tailored solutions that meet your exact needs.

Let us design the link you need, between thrust and sustainable aviation!

From propulsion systems to space applications, from small manufacturers to large OEMs, ADT's Gear Design expertise empowers you to achieve more with every component.

THERMAL MANAGEMENT

Your Challenge: Reliable, Efficient, and Safe Thermal Performance

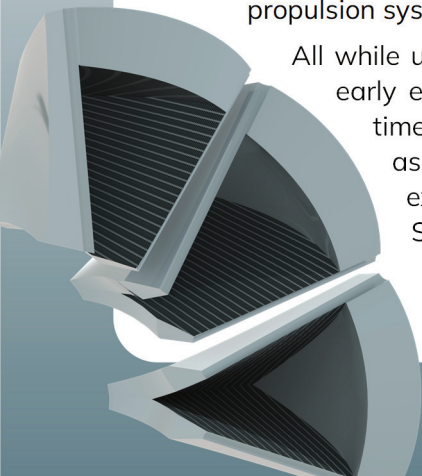
Whether you're developing battery-electric vehicles, hybrid powertrains, energy storage systems, or next-gen aviation concepts, one thing is clear: Performance hinges on effective thermal management. Without it, alternative propulsion systems cannot operate efficiently, safely, or reliably over their lifespan. At ADT, we solve this challenge – so you can focus on what matters most: your mission.

Our Solution: Thermal Management Systems Tailored to Your Needs

ADT develops tailored thermal management solutions for energy storage systems, electric and hybrid powertrains, and complex integrated systems. The objective is to ensure optimal operating conditions for every component, regardless of ambient temperature, load profile, or application:

- **Efficient heating and cooling concepts** and control algorithms to meet demanding technical requirements,
- **optimized energy consumption**, packaging space, and system costs,
- **intelligent cooling and heating circuits** for aviation propulsion systems.

All while using advanced simulation methods to make early engineering decisions, reducing development time and risk. Our engineers work with tools such as Matlab/Simulink and have extensive experience in CFD and FEM analysis, including Siemens Simcenter 3D.



Our Approach: Include thermal management from the beginning on

At ADT, we don't just simulate – we deliver end-to-end thermal solutions for your success. From the early design phase, our experts analyze thermal sources and sinks, calculate load cases, and simulate heat flow across the system.

From concept to series production, we know that efficient collaboration is key - and the expertise of one company is not enough. That's why we act as a development partner throughout the project lifecycle, from concept development and prototype construction to testing and industrialization. Upon request, we also assume responsibility for supplier coordination and complete system implementation.

Why Partner with Us?

- **Cross-Industry Expertise:** ADT's expertise is built on projects across multiple industries, including railway HVAC systems, stationary battery energy storage systems, and electric and hybrid aviation propulsion systems. This broad experience enables the transfer of proven technologies between industries, creating innovative solutions for emerging challenges.
- **Innovation at the Core:** Through active participation in national and international research projects, ADT remains at the forefront of technological development. Projects such as "exFan" contribute to the next generation of energy-efficient propulsion and thermal management systems, strengthening our role as an innovation partner for future mobility solutions.

Stay cool and let us Power the Future of Flight – Together!

From battery-electric vehicles to hybrid aviation systems, from small startups to large OEMs, ADT's thermal management expertise empowers you to achieve more with every watt.

BATTERY STORAGE & CHARGING SYSTEMS

Your Challenge: Reliable and Efficient Electrical Energy Storage and Charging systems

As a developer or operator in aviation or defense, you face a critical challenge: providing reliable, efficient, and sustainable electrical energy for next-generation aircraft and mission-critical applications. At ADT, we address this head-on – so you can focus on pushing the boundaries of what's possible.

Our Solution: Advanced Energy Storage and Charging for the Future

ADT develops advanced energy storage and charging solutions for aviation and defense applications. Combining expertise in electrical & mechanical engineering, energy storage, control systems, and thermal management, we support projects throughout the entire product lifecycle, helping our customers achieve:

- **Rapid turnaround times** enabling commercial operation of electric aviation with safe and efficient charging in 20 minutes,
- **Extended range and efficiency** through innovative fast-charging systems for CS-23 class electric aircraft due to the elimination of the need for a heavy on-board cooling system.
- **Reduced infrastructure demands** by integrating energy storage to lower grid connection requirements and operating costs.

All while combining high-performance charging stations, integrated battery-buffer storage, and advanced thermal management to improve the use of renewable energy.



Our Approach: Fast charging and battery conditioning in one step

Our charging solution for CS-23 class electric aircraft actively cools the aircraft battery during charging, eliminating the need for heavy onboard cooling systems. This increases aircraft efficiency and range while enabling charging times of approximately 20 minutes.

Currently undergoing prototype testing with the Diamond eDA40 electric aircraft, we are on track for serial production in 2027.

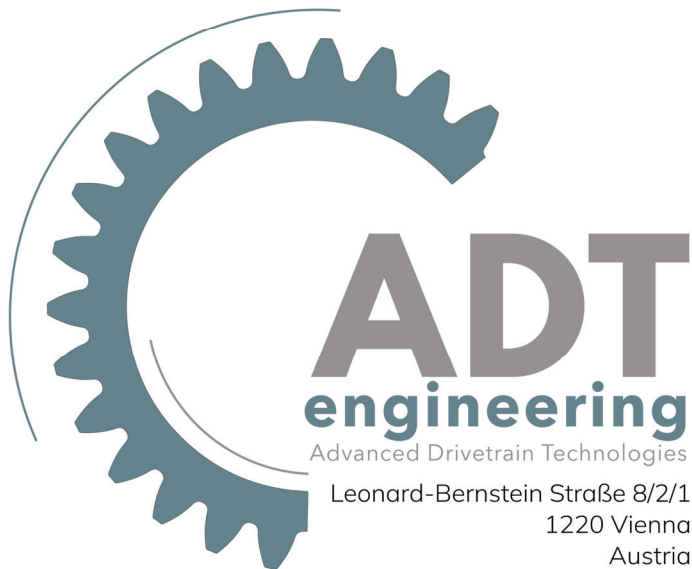
We help shape the future energy infrastructure of airports. With the growing adoption of electric aircraft, eVTOLs, SAF, and hydrogen propulsion, we develop scalable high-power charging systems (>1.5MW) with integrated energy storage and thermal management. Working closely with airport operators, utilities, and aircraft manufacturers, we evaluate future energy demand, renewable energy integration, grid impacts, and infrastructure requirements to provide a roadmap for sustainable, economically viable, and low-emission regional aviation.

Why Partner with Us?

- **Holistic Expertise:** By combining expertise in energy storage, power electronics, charging technologies, control systems, and thermal management, ADT is at the forefront of sustainable aviation innovation.
- **Market-Ready Solutions:** Our developments support the market introduction of electric and hybrid-electric aircraft and contribute to a more efficient and sustainable aviation industry.

Charge fast. Stay cool. Fly more!

From aviation to defense, from startups to large OEMs, ADT's energy storage and charging solutions empower you to fly farther, charge faster, and operate sustainably.



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