Desmo

Beyond Sizing, Aircraft Design with Systems in Mind

Born in Berlin.

Desmo is shaped to **handle** the **complexity** of innovative technology and to **enhance** the **ability** to integrate with existing toolsets and **model networks.**

Is Desmo Right for You?

Our software enables engineers to analyze and optimize their preliminary designs in the best way possible – at the whole aircraft level – which not only saves time but money as well. With its Multi-disciplinary Analysis and Optimization (MDAO) approach, you can model aircraft and their subsystems, assess performance, and generally accelerate your progress in numerous design challenges. Whatever your aircraft preliminary design goals may be, Desmo has a solution. Some common applications are:

- New aircraft and technology upgrades
- Retrofitting and variants
- Systems engineering
- Competitive analysis
- Impact analysis for equipment

Desmo: Prepared for the Designs of the Future!

As the premiere off-the-shelf software platform for aircraft preliminary design, Desmo is on the bleeding edge of future aircraft technologies, including:

- Fully electric propulsion
- Hybrid propulsion models
- Conventional, SAF, liquid or compressed hydrogen fuel
- Fuel cells and battery electric power trains

The future of aviation will be built on alternative propulsion concepts.

Accelerate your innovative designs!

Key Features

1. **Intuitive UI and configuration wizard:** Easily configure aircraft components, and update your models anytime.
2. **Flexible and transparent models and methods:** Extend or replace as needed.
3. **Convert and store measurement units automatically:** Eliminate manual conversion errors and unit misinterpretations.
4. **Ready-to-use propulsion and aircraft models:** No need to start from scratch.
5. **Extensible, ready-to-use charts and reports:** Such as payload range diagrams and flight envelope charts - because it always comes down to the numbers.
6. **No CAD expertise needed:** Parameterized generic 3D components and rich purpose-built component editors enable easy visual verification as well as input for aerodynamics, mass, and volume.
7. **Easy set-up of complex missions:** Configure missions on- or off-design for sizing or benchmarking. Challenge your model and close the design loop.
8. **Smart dependency tracking:** Updates your model automatically after any configuration change, with complex solving runs finishing in a few seconds.
9. **Detect and track all dependencies automatically:** Even circular dependencies can be solved – all without writing a single line of code.
10. **Reverse computation direction of methods:** Change direction with one click, no coding required.
11. **Open-source models and methods:** Extend or replace as needed.
12. **Easily integrate third-party tools and libraries:** Thanks to an extensive API and the power of a full-fledged programming environment.

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Innovated by Pace.

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