



TOTALSIM^{US}

ADVANCED CFD TECHNOLOGY EXPERTLY
APPLIED TO SOLVE REAL-WORLD PROBLEMS



WHY TOTALSIM^{US}

TotalSim expertly applies advanced CFD technology to solve your most complex engineering challenges.

∴ We are problem solvers.

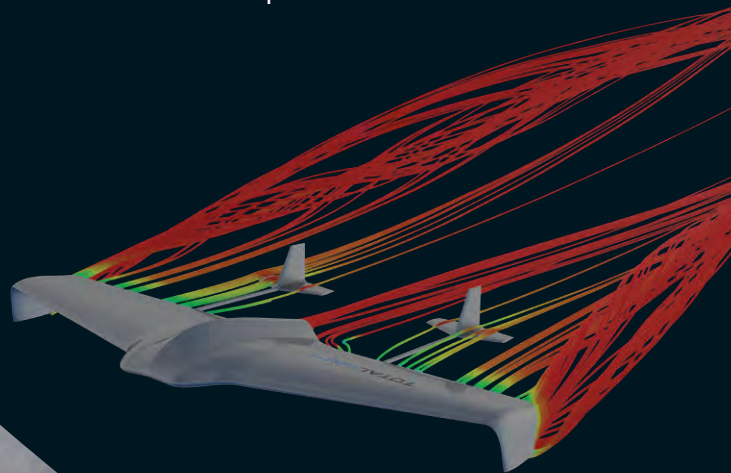
Tap into our expertise to simplify advanced CFD processes and develop solutions that apply the right CFD tools to overcome obstacles, deliver results and maximize value.

∴ We are relationship driven.

Whether local or global, you can count on us to be there with dependable, high-quality support and delivery. We empower your team by rounding out your in-house CFD expertise and collaborate to overcome challenges and accelerate productivity.

∴ We apply expertise.

Stay ahead of the competition with solutions that account for real-world constraints and practical advice on the latest trends impacting design, development and performance.



WHO WE ARE

Founded in 2009, TotalSim US is a full-service computational fluid dynamics (CFD) consulting and solutions group providing decades of engineering expertise and insight to top organizations across the world. TotalSim is headquartered in Dublin, Ohio, with an additional location in Pasadena, California. Together with our sister-company, TotalSim UK, in Brackley, England, we're able to serve clients' global needs.

OUTPERFORM THE COMPETITION WITH TOTALSIM BY:

ACCELERATING

every stage of design and development through automated CFD calculations and workflows

SIMPLIFYING

complex CFD processes to empower our clients' success

EMPOWERING

clients at every stage and level with solver-agnostic solutions, support and training

CUSTOMIZING

CFD tools and providing simulation apps tailored to automotive, truck and aerospace designs

WHO WE SERVE

We leverage bleeding-edge technology and proven methods from our racing background to solve your toughest engineering challenges across multiple industries.



Aerospace
& Defense



Automotive &
Transportation



Motorsports



Chemical
& Process
Engineering



Consumer
Goods



Energy



Marine

OUR SERVICES

From expert advice to customized software, we have the knowledge and technology needed to manage all of your CFD needs.

CFD Consulting

Tackle your toughest challenges and reach your CFD goals by leveraging the expertise of our trusted engineers, aerodynamicists and designers.

Custom Software Development

Get the highly-accurate performance predictions you need with CFD web applications customized to emulate your physical test processes.

CAE Automation

Streamline pre-processing, post-processing, data management and more with automated CAE processes and workflows.

Reverse Engineering

Using Creaform's 3D scanners, we create portable, fast and highly-accurate scanning solutions for any simulation need.

Physical Testing

Obtain expert guidance for on-track, wind tunnel and bench testing, along with performance mapping and aerodynamics analysis.

CFD Software Support & Training

Access support for nearly all of today's best solvers and empower your team with customized training for OpenFOAM and Linux.



TS AERO



A 3D aerodynamic simulation of a propeller aircraft in flight. The aircraft is shown from a low angle, flying over a landscape. The simulation uses a color gradient to represent pressure or velocity fields around the aircraft, with blue indicating high pressure and red indicating low pressure. The background shows a blue sky with white clouds and a brown, hilly landscape.



TS AUTO



A 3D CFD simulation of a Ford EcoBoost car. The car is shown from a front-three-quarter view, with a black body and blue accents. The simulation uses a color gradient to represent aerodynamic flow around the car, with red indicating high velocity or pressure. The background is a plain, light-colored surface.

WEB-BASED SIMULATION APPLICATIONS

Perform highly-accurate CFD simulations with TotalSim's web applications. Whether looking to assess the performance of your race car design, improve the fuel efficiency of your car or truck, develop a new airplane or UAV design, or streamline industrial product innovation, we have a solution for you.

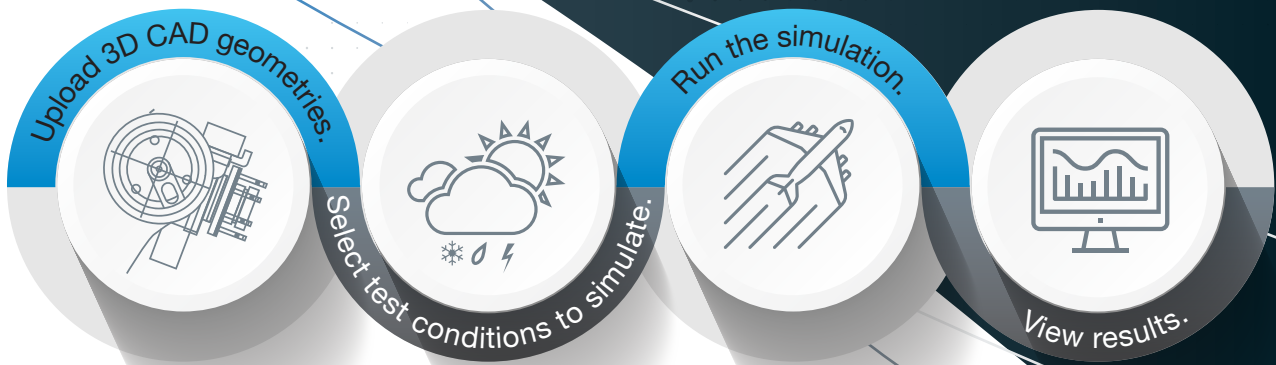
Simply upload your geometry, select the conditions to test for and submit your simulation – our app does the rest. Automated processes combined with powerful cloud-computing and storage enable our applications to accelerate your testing and development for high-powered results.

AVAILABLE APPLICATIONS INCLUDE

- TS AERO
- TS AUTO
- TS TRUCK
- TS FAN
- CUSTOM APPLICATIONS

Not seeing an app that fits your needs?

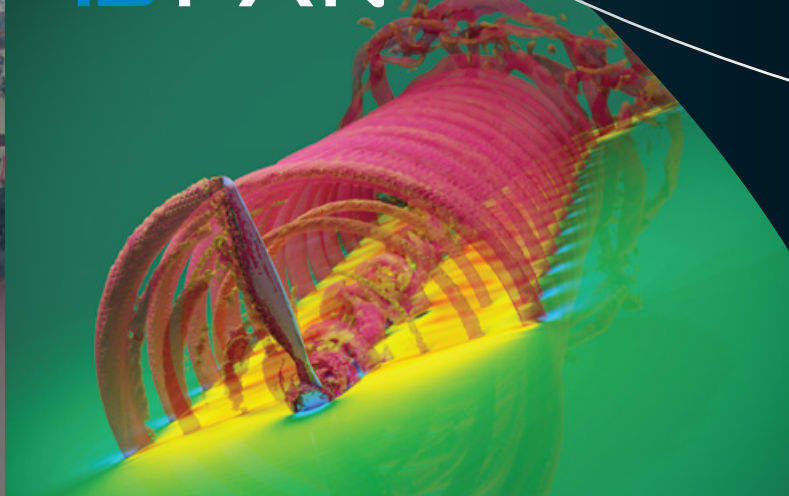
For more specialized simulations, we can develop custom web apps tailored to your project requirements.



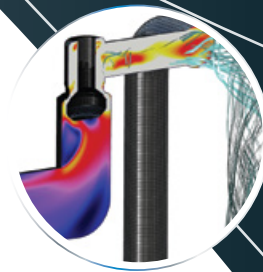
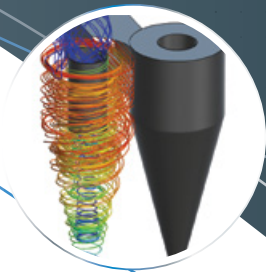
TS TRUCK



TS FAN



READY TO GET STARTED? CONTACT US AT 614.255.7426 OR INFO@TOTALSIM.COM.



TOTALSIM^{US}

Take your ideas from initial concept to high-performance reality – contact TotalSim at [614.255.7426](tel:614.255.7426) or info@totalsim.com to get started.

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