



streamwise gmbh
Switzerland
www.streamwise.ch

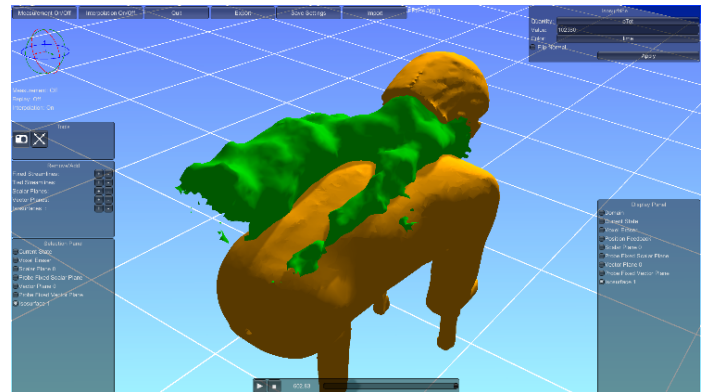
ProCap Offer A new world of quantitative flow visualization Aerodynamic design and consulting services

ProCap (Probe Capture): Optical tracking of hand-held probes

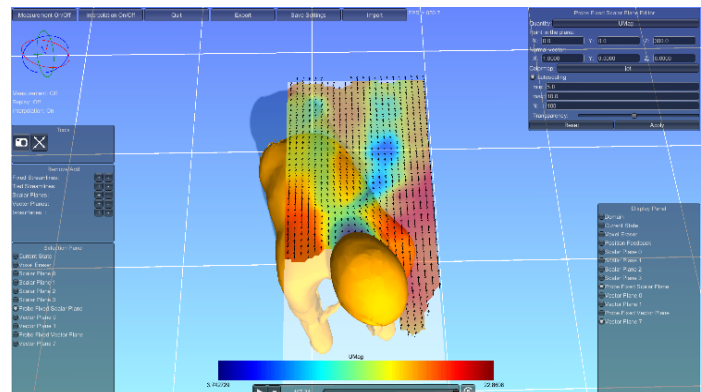
Probe Capture (ProCap) is an innovative approach that brings wind tunnel testing to a new level. The real-time visual feedback of the 3D measurement provides instantaneous understanding of the aerodynamics. Procap effectively combines the simplicity and speed of a smoke probe with the quality of a 3D-point measurement scan. Becoming commercially available in 2017, streamwise offers to support measurement campaigns with ProCap and our yearlong experience in wind tunnel testing now.

Highlights

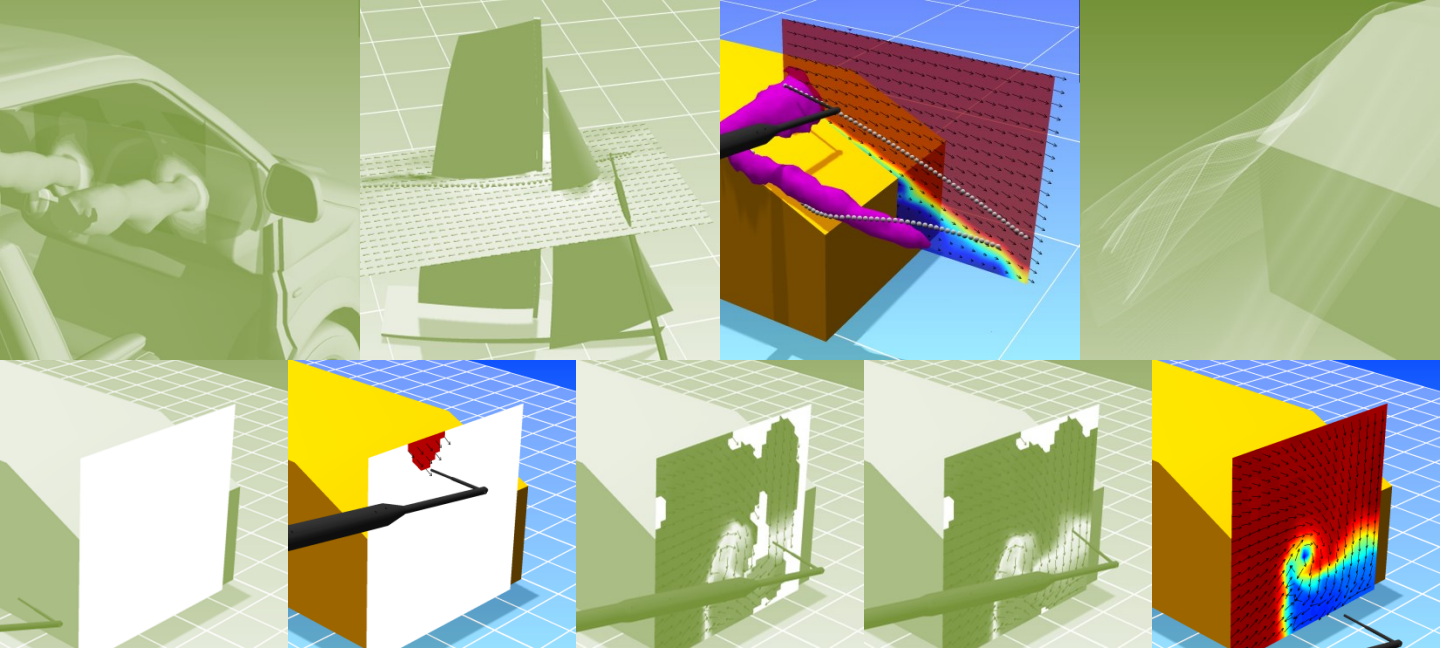
- Enables fast local flow measurements at complex objects in wind tunnels
- Provides 3D flow data in real-time to quantitatively and qualitatively support the measurements
- Transportable and flexible system also for temporary installation



Flow separation after cycling helmet



Cross flow vortices after cyclist with side wind

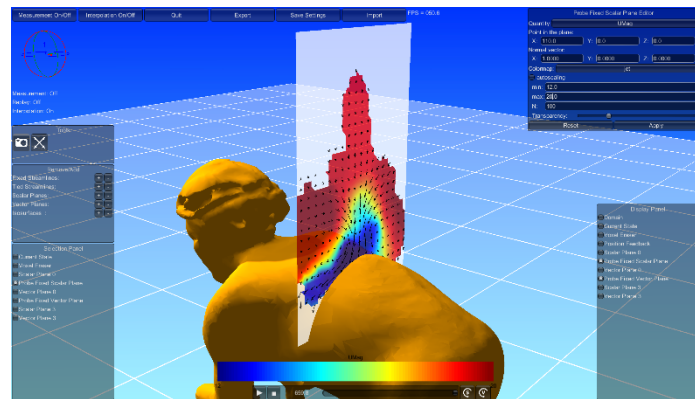


Consulting for aerodynamic optimization by streamwise

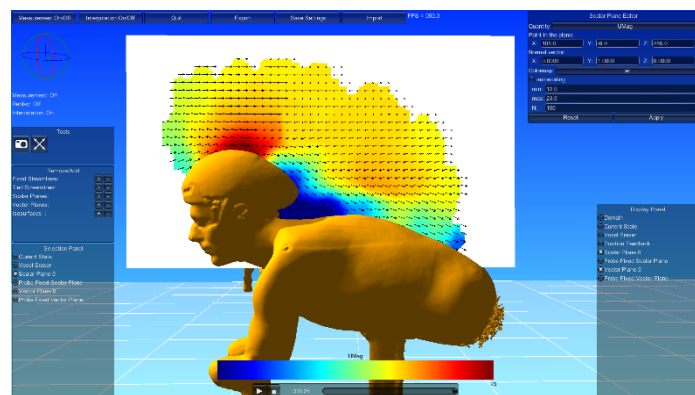
We have built up our know-how hands-on in wind tunnels and understand the relevant optimization potential. Success is based on good data, an intuitive understanding of the flow and years of experience in external aerodynamics.

For a successful aerodynamic optimization we offer

- Aerodynamic design and concepts
- Development of strategies and test setups
- Pragmatic, research-based approach
- First principles based modelling
- Flow visualization, data analysis and interpretation
- Testing and optimization of prototypes
- Execution or support of wind-tunnel campaigns (we have access to a research facility)
- Full scale 3D flow visualization for design and optimization
- Optimization of body position (motion capture system available) in- and outside of the wind tunnel (track testing)
- Optimization of aerodynamic drag in general (experimental and CFD)



Vortex rollup in the back of a rider



Flow velocity in midplane

Contact

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