



CFD Services & ELEMENTS

ARC, the Best Kept Secret in Efficiency!

To offer an **advanced aerodynamic CFD toolset**, ARC develops its own CFD software, Elements, through a joint venture with ENGYS Ltd. ELEMENTS, has been validated on over 100+ models using physical data from the ARC wind tunnel and other full scale testing.

ELEMENTS can run with transient and steady state analysis, with the transient code having been highly developed to **reduce it's run time while increasing the accuracy**. ELEMENTS also offers a moving mesh for wheel spoke flow.

ELEMENTS also utilizes **design of experiment** to allows for a range of shapes to be morphed & automatically tested via multiple input parameters.

ARC maintains its own **in-house High Performance Computing (HPC)** data center for maximum customer privacy. Current cluster computing power includes more than 10 teraFLOPS and 600+ cores. More than 1,000 additional processors are also accessible remotely outside of the headquarters.

