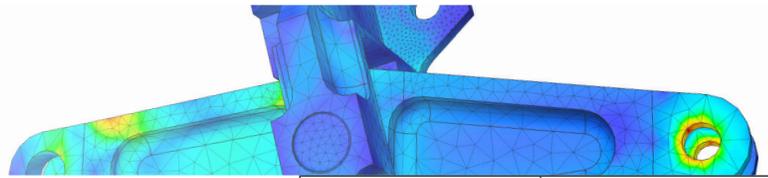
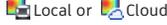
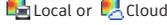
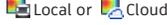
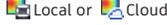


Simulation Comparison Chart



Note: Fusion 360 includes the option for some simulation study types to be solved on the local computer, in addition to solving through the Fusion 360 cloud solvers. These local solves require a one-time installation of Autodesk Nastran solvers, which is included with a Fusion 360 subscription, and do not require Autodesk tokens.

		Fusion 360 Subscription	Fusion 360 PLUS Simulation Extension Subscription (monthly/annual terms)
3D Simulation Study Types	Static Stress  Local or Cloud Inspect a range of load conditions and the resultant stress, strain, and deformation results analyzed to determine the likelihood of failure of the design. Looking for more advanced finite element analysis (FEA) simulation capabilities? See Autodesk@Inventor@Nastran@ .	✓	✓
	Modal Frequencies  Local or Cloud Inspect the effects of natural free-vibration on your part or assembly to help you fine tune your design. Looking for more advanced finite element analysis (FEA) simulation capabilities? See Autodesk@Inventor@Nastran@ .	✓ (3 TOKENS PER CLOUD SOLVE)*	✓
	Thermal Steady State  Local or Cloud Trace heat transfer across your part or assembly to understand if your part may fail based on the maximum critical temperature of a component. Looking for more advanced thermal simulation capabilities? See Autodesk@CFD .	✓ (3 TOKENS PER CLOUD SOLVE)*	✓
	Thermal Stress  Local or Cloud Simulate temperature-induced stresses caused by temperature gradients in the model and varying thermal expansion characteristics of the materials. Looking for more advanced thermal simulation capabilities? See Autodesk@CFD .	✓ (3 TOKENS PER CLOUD SOLVE)*	✓
	Shape Optimization  Cloud Achieve light weight design goals by identifying material can be removed from your design, while still achieving allowable stress and displacement objectives. Interested in optimizing designs even more? See Autodesk Fusion 360@Generative Design Extension .	- (3 TOKENS PER CLOUD SOLVE)*	✓
	Nonlinear Static Stress  Cloud Explore large deformation, motion, contact and load changes, and nonlinear material behavior during an event or an incremental change in loads. Looking for more advanced finite element analysis (FEA) simulation capabilities? See Autodesk@Inventor@Nastran@ .	- (6 TOKENS PER CLOUD SOLVE)*	✓
	Event Simulation  Cloud Predict how time-dependent forces influence design performance. Looking for more advanced finite element analysis (FEA) simulation capabilities? See Autodesk@Inventor@Nastran@ .	- (6 TOKENS PER CLOUD SOLVE)*	✓
	Structural Buckling  Cloud Determine the critical buckling multiplier and modal buckling shape from a compression load applied to your structural component to develop a support or stiffening structure to prevent structure failure due to buckling. Looking for more advanced finite element analysis (FEA) simulation capabilities? See Autodesk@Inventor@Nastran@ .	- (6 TOKENS PER CLOUD SOLVE)*	✓
	Injection Molding Simulation  Cloud Identify how your part design influences part manufacturability and part quality for plastic injection molded parts through guided results to get an aesthetically acceptable part that will perform as intended. Looking for more advanced injection molding simulation capabilities? See Autodesk@Moldflow@ .	- (6 TOKENS PER CLOUD SOLVE)*	✓

* Cloud simulation token amounts shown are current as of March 2022. For the most up-to-date information on solving options and costs, please visit [Autodesk Fusion Help Documents - Cloud credits for Fusion 360 simulation studies](#).