Aircraft Dynamics Library provides an open and user-extensible environment for full aircraft and sub-system simulation. Structured but flexible system architectures are built based on an extensive library of predefined aircraft components. This lets users assemble any class of fixed wing aircraft in a convenient and straightforward fashion.

Aircraft Dynamics Library is developed and maintained by Modelon. For more information, please contact Modelon at: www.modelon.com sales@modelon.com

Modeling and simulation of fixed wing aircraft and related sub-systems suitable for architecture design exploration and detailed analysis.

KEY FEATURES
- Extensive library of pre-defined components including wings, fuselages, landing gears, flight controls, power systems, consumer systems and many more
- Six and three degree of freedom flight dynamics models
- Detailed landing gear models
- Empirical sizing and synthesis methods based on mature and openly published methods
- Open code and easily extensible

Templates accelerate model build-up.

Tires without contact (yellow), slipping (red), in contact (grey).

Parametric wing geometry.