

List of modules included in each package



" Customized " : Compose your version of ADS yourself by selecting only the modules you want to add to ADS-Homebuilder

Versions:	ADS-Light	ADS-Homebuilder	ADS-Pro	ADS-Corporate *	" Customized " *	ADS-Education	Description
<b>Standard Versions</b>	225 €	595 €	1 995 €	19 970 €	- €	495 €	
<b>Number of licenses (seats)</b>	1	1	1	1	1	5	
<b>CAD</b>							
Generation of the 3D-Model	x	x	x	x	x	x	Set of tools to generate the 3D model of an airplane
<b>Processing</b>							
Geometry Analysis	x	x	x	x	x	x	Set of tools to perform the geometric analysis of an airplane
Reverse Engineering	x	x	x	x	x	x	Set of tools to perform the reverse engineering of an airplane
Performance Analysis		x	x	x	x	x	Set of tools to perform the performance analysis for different flight conditions
Conceptual Design (Level 1)	x	x	x	x	x	x	Set of tools to size an airplane according to specifications
Conceptual Design (Level 2)		x	x	x	x	x	Set of tools to size an airplane according to specifications
<b>Stability</b>							
Weight & Balance		x	x	x	x	x	Compute the CG Position for different load cases
Control & Stability		x	x	x	x	x	Compute the CG Limits and Aerodynamics centre location
<b>Tools</b>							
		x	x	x	x	x	Set of tools to show the influence of the geometric parameters on the mass
<b>Technical Notes</b>	x	x	x	x	x	x	Set of Technical Notes to explain the algorithms used
<b>Database</b>							Set of editable and modifiable database
Airplane	5	5	5	5	5	5	Database of airplanes (UAV, Light Airplane)
Engines			+ 245				Database of engines (IC, Turbopropeller, Electric motor)
Airfoils			+ 1300				Database of airfoils
Materials	x	x	x	x	x	x	Database of materials
Batteries	x	x	x	x	x	x	Database of batteries
Tires			+ 240				Database of tires
Fuel	x	x	x	x	x	x	Database of fuels
<b>Export</b>							
STL	x	x	x	x	x	x	Generation of files in stl format (to export to CAD Software, 3D-Printers...)
<b>Options</b>							
<b>Stability</b>							
Stability Derivatives			x	x		x	Compute all stability derivatives for different flight conditions
Dynamic Stability				x		x	Compute the lateral and longitudinal eigenmodes, Frequential response, Step response
<b>Cost Analysis</b>							
Market Price			x	x		x	Compute the market price
R&D				x		x	Compute the development and manufacturing costs
Operating				x		x	Compute the operating costs
Breakeven Point				x		x	Compute the breakeven point
<b>Aerodynamic</b>							
Lift Distribution			x	x		x	Compute the lift distribution according to the geometry and the flight conditions
Xfoil				x		x	Compute the aerodynamic performance of any shape using Xfoil
<b>Processing</b>							
Design Constraints			x	x		x	Accept or reject automatically the results according to defined criteria
Quality			x	x		x	Perform comparative analysis with the airplanes of the database
<b>Optimisation</b>							
Shape (CSP, Offset, DZ...)				x		x	Allow shape control which influence aerodynamics and manufacturing
List of Airfoil Candidates			x	x		x	List automatically the best airfoils according to the flight conditions
List of Engine Candidates			x	x		x	List automatically the best engines to fulfill the requirements
Multiple Runs				x		x	Automatically perform several successive runs and display the differences between the runs
Expertise (check stability)				x		x	Give the user instructions to increase stability
Expertise (check requirements)				x		x	Check some results if they comply with the selected regulation
Expertise (propeller geometry)				x		x	Optimize the propeller geometry to generate the maximum thrust for a given flight condition
<b>Structure</b>							
Internal components (Airframe)			x	x		x	Generate automatically the airframe (spars, ribs, frames...)
<b>Checks</b>							
Interference between components			x	x		x	Check interference between components (crew, tanks, airframe, control surface...)
<b>Specific</b>							
Ducted propeller				x		x	Compute the performance of an airplane with a ducted propeller
<b>Classification</b>							Allow the generation and analysis of airplanes belonging to:
VTOL				x		x	The VTOL, Fixed-Wing category
Light Transport (FAR23 C)				x		x	The light transport category
VLI (FAR23)				x		x	The Very Light Jet category
<b>Categories</b>							Allow the generation and analysis of airplanes belonging to:
Seaplane				x		x	The seaplane category
<b>Toolbox</b>							
Digitizer				x		x	Tool to digitize curves such as polars...
Glide polar analyzer				x		x	Tool to analyze glide polars and compute aerodynamic data
<b>Technical Assistance (On-Line) + New releases</b>							On-Line technical assistance and free access to the new releases
3 Months							
6 Months				x			
9 Months							
12 Months					x		
<b>Additional Data Files</b>							Dataset created for Reverse Engineering
Light Aircraft, UAV							
Light Transport							
VLI							
Light Business, Business							
Airliners							

Don't hesitate to request a Demo before purchasing.  
Spoken languages: English/French

\* Request for quotation (sales@oad.aero)