ALBATROS create

The software Albatros Create® is a generative and interactive tool. Through geometric visualization and a mathematical control, its objective is to guide the definition of the geometric parameters that determine the aerodynamic surface of HAWTs (Horizontal Axis Wind Turbines) with Wavy-Leading-Edge. An integration with SolidWorks® allows to automatically obtain a 3D CAD model of the parameterized rotor.

This software was developed at Universidad EAFIT in the Design Engineering Research Group, 2016-2018, by:
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The following configuration steps, shown in the next page, are required before you open Albatros Create

Initial Configuration

This should only be implemented once
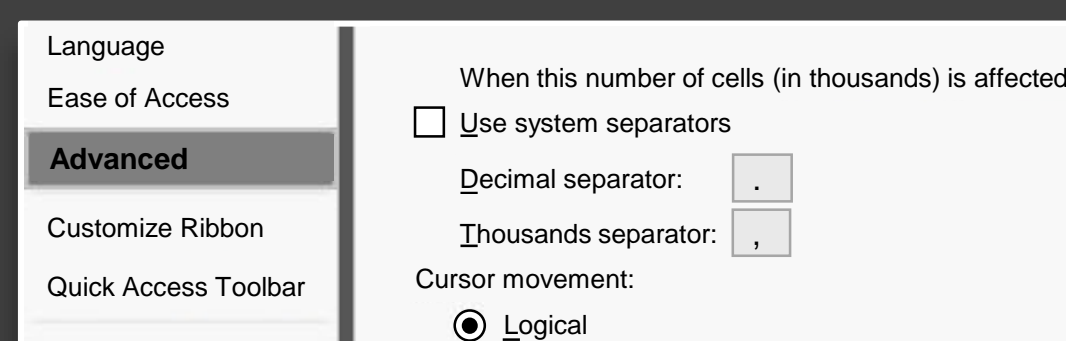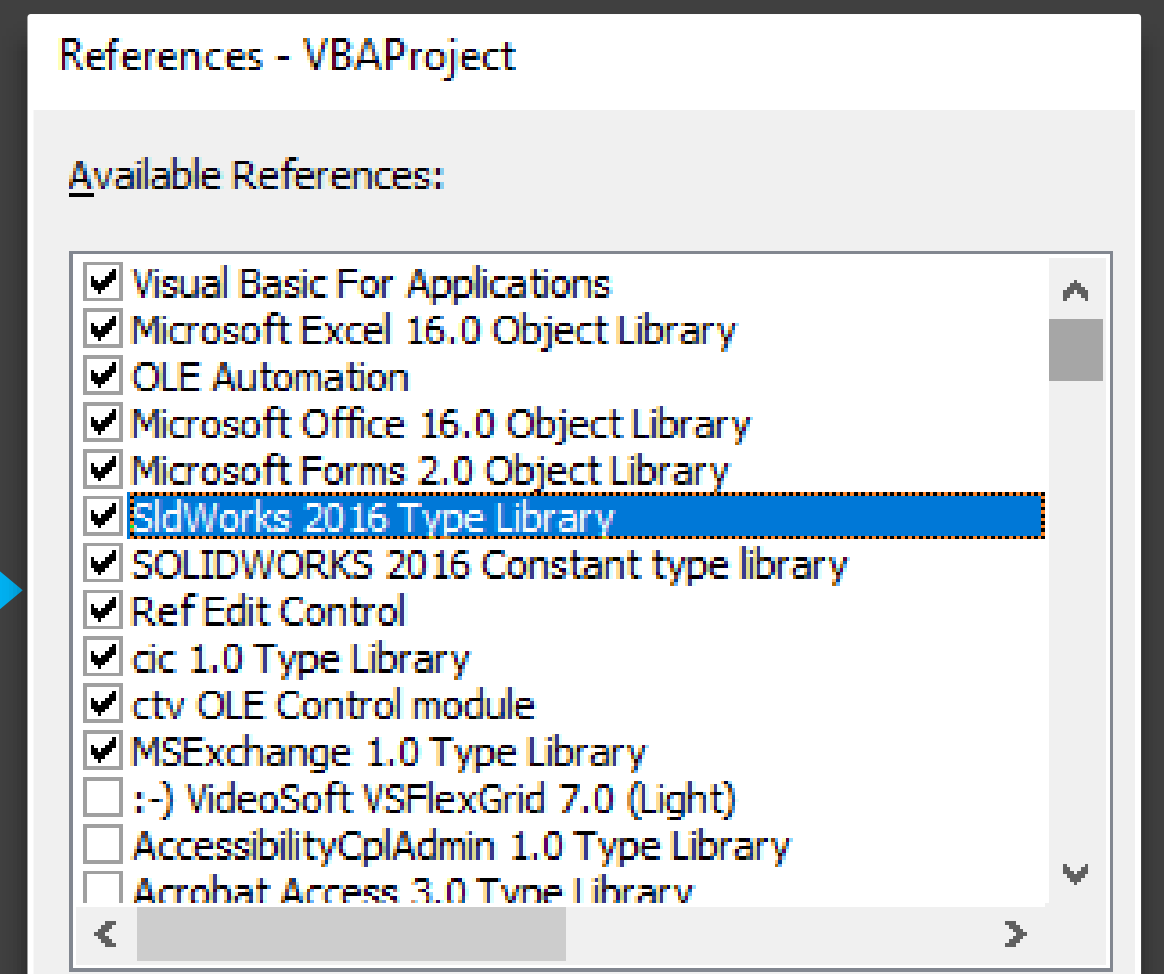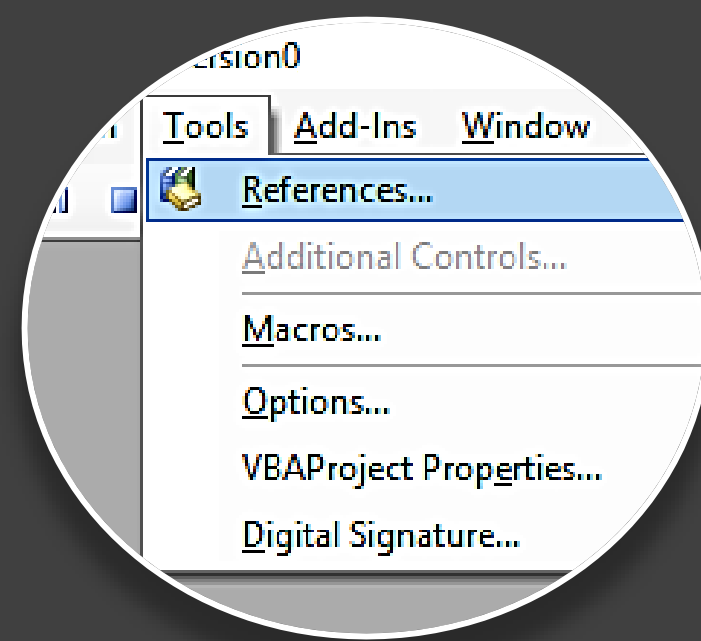
Prerequisites

- SolidWorks must be installed
- Only for Microsoft's Windows operating systems

References

- Open a new Microsoft Excel file
- Open Microsoft Visual Basic with [Alt+F11] or [Alt+fn+F11]
- Click on [Tools]
- Click on [References]
- Enable the shown Checkboxes that are available.

Decimal Separator

- Back in the new Excel file, click on [File]
- Click on [Options]
- Click on [Advanced]
- Uncheck "Use System separators"
- Set Decimal separator to "."
- Set Thousands separator to ","

Tools Add-Ins Window

References...

Additional Controls...

Macros...

Options...

VBAProject Properties...

Digital Signature...

References - VBAProject

Available References:

- ☑ Visual Basic For Applications
- ☑ Microsoft Excel 16.0 Object Library
- ☑ OLE Automation
- ☑ Microsoft Office 16.0 Object Library
- ☑ Microsoft Forms 2.0 Object Library
- ☑ SldWorks 2016 Type Library
- ☑ SOLIDWORKS 2016 Constant type library
- ☑ Ref Edit Control
- ☑ cic 1.0 Type Library
- ☑ ctv OLE Control module
- ☑ MSExchange 1.0 Type Library
- ☐ :-) VideoSoft VSFlexGrid 7.0 (Light)
- ☐ AccessibilityCplAdmin 1.0 Type Library
- ☐ Acrobat Access 3.0 Type Library

Language
Ease of Access
Advanced
Customize Ribbon
Quick Access Toolbar

When this number of cells (in thousands) is affected
☐ Use system separators
Decimal separator: [.]
Thousands separator: [,]
Cursor movement:
◉ Logical

Open Albatros Create

Every time the software is opened

- Disable AutoSave
- Enable Macros
- Enter the provided Password in the Intro page

- Refer to the Workflow Module for a quick guide on the generative process

Start Creating!

AutoSave ◉ Off

Some active content has been disabled. Click for more details. | Enable Content |