CAD Import and Reusing Existing Designs

With our powerful CAD import and export capability within the TurboTides design system, users can conveniently import a CAD file of an existing design, extract geometry information from an impeller, any vane components and the flow passage. The imported geometry can then be used as a TurboTides parameterized geometry model that allows further editing for design optimization.

To further facilitate reusing of the existing designs, any components that are saved into TurboTides embedded database can be reused in new designs. For example, any user can easily load an existing volute or other component into the current design with a few mouse clicks and then be automatically meshed and analyzed with TurboTides built-in CFD.
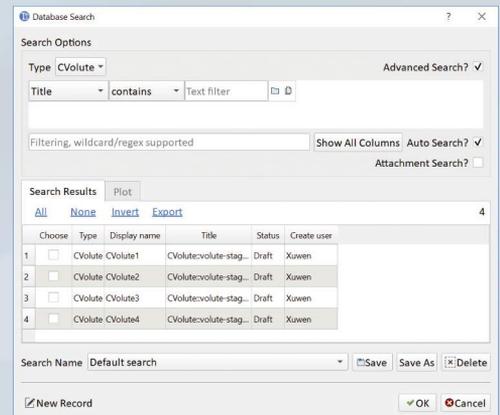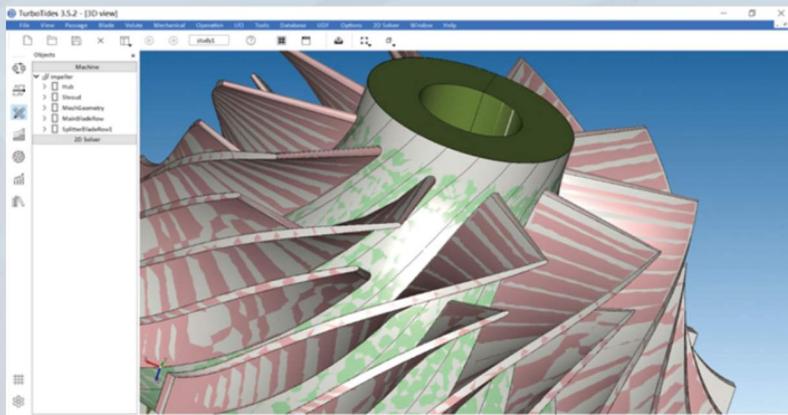
Powerful and Flexible Volute Design and Editing

The cross-section shape of the volute could be either elliptic, square or arbitrary shape defined by an editable Bezier curve, including support for twin volute with horizontal or vertical split.

Supports volute tongue editing, cross-section area control, exit pipe control etc.