

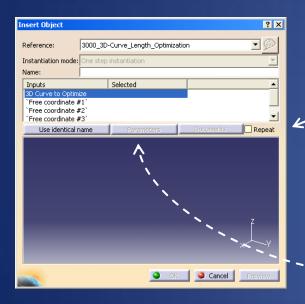
#### **Generic Catia Tools**

(Parametric Constructions & Templates)

### Summary

- What is a generic tool?
- What are the advantages?
- Live presentation
- What are the tools already available?
- What are the future developments / improvements

A generic tool is a Catia component\* that can be called from a catalog and instanciated in your Catia structure.



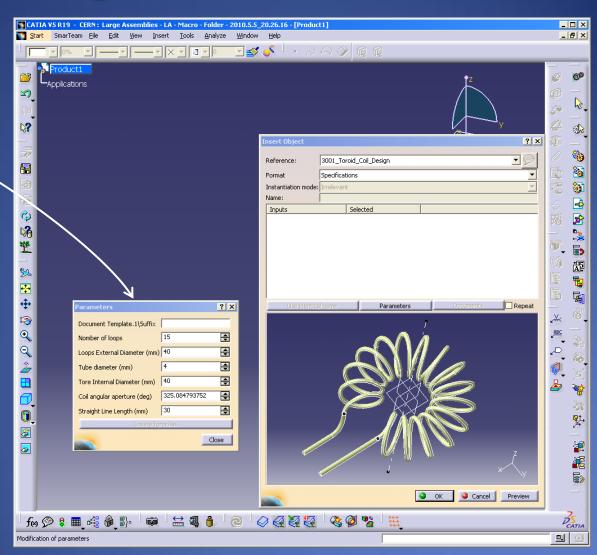


Before instanciation, a window appears that may ask you to select some inputs (geometric features or parameters).

--You may also set some driving parameters with specific values.

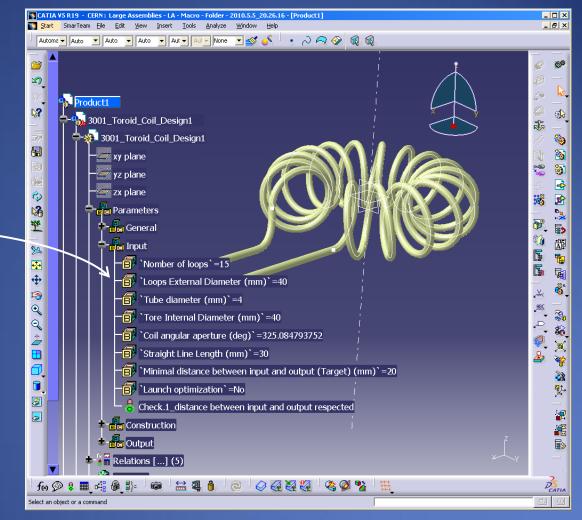
Driving parameters

If you forget to set the driving parameters values, you will be able to change them after the tool is instantiated.



When all the inputs are filled, the tool is instanciated in the structure tree.

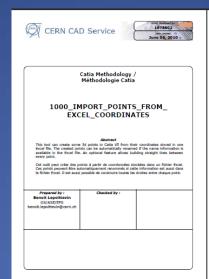
You can change the driving parameters here.



All the informations needed to use these tools will be available from the CERN CAD Service web site.

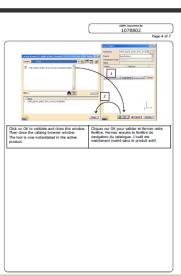
Go to FAQs >> Generic Tools







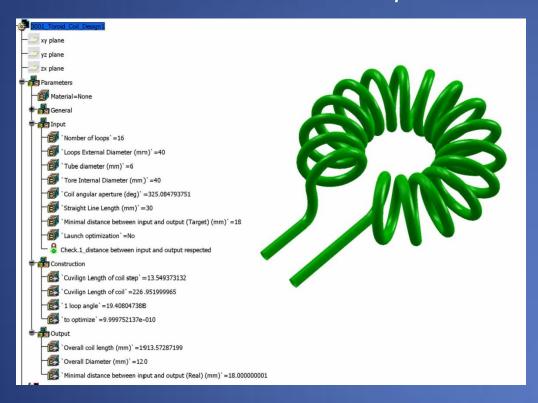




#### Live presentation

Instantiate a parametric toroid Coil

Instancier une bobine toroïdale paramétrée



#### What are the advantages?

- The inputs are automatically replaced in the tool;
- The construction is updated with your own inputs;
- A new component is added in your structure and you can save it (or not);
- It is possible to keep the associativity for future updates\*;
- The knowlegde can be embedded;
- All the tools are easily available for everybody;
- Time savings for users.

\* Depending of the settings. If needed, contact CAD Support

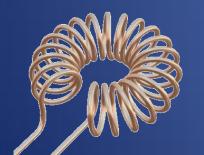
June 2010 EDMS: 1016129

#### What are the tools already available?

EDMS: 101612

- Import points from excel coordinates
- 3D-curve length optimization
- Toroid coil
- Holed band design
- Manekin for illustration

(Women / Men – Standing / Sitting)





# What are the future developments / improvements?

- Import points from excel coordinates
  - -> possibility to build the straight lines between each point...
- Holed band design
  - -> creating an axis system for each hole to make easier the constraints creation

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#### Thank you / Merci