

# CATIA PLM Express

## CATIA - Knowledge Templates

**Produces significant productivity gain to foster innovation**

Lengthy engineering changes are often the cause of delays and increased production costs. Companies need to capitalize their know-how with built-in knowledge templates to save time and focus on innovation.

### Overview

CATIA - Knowledge Templates enables the creation of intelligent design templates which embed geometry and know-how to reuse with maximum security.

### Customer Benefits

- Increased ability to innovate by automating repetitive and tedious design tasks
- Reduced time for bidding and increases responsiveness to inevitable customer engineering changes during design and manufacturing
- Faster production ensures high quality development
- Reduced product complexity and lower overall product development costs
- Usage of user defined features enables management of IP protection between OEM and supplier chain while preserving industrial usage within the company

## Key Capabilities

### Interactive Creation of intelligent Product Knowledge Templates

CATIA - Knowledge Templates is applicable for all designers and engineers who need to capture design data and methodologies for multiple reuse scenarios across projects, or in the definition of highly customizable intelligent template catalogs to encapsulate corporate standards. Templates can be extracted from existing feature, part and assembly designs or created specifically. They can contain not only geometry, but also any associated parameters or relations, including embedded intelligence of design rules, design tables and checks, providing the ability to encapsulate the specifications of sophisticated adaptive features. Only the CATIA - Team PLM option is necessary to use these templates.

### Editing and maintenance of Product Knowledge Templates

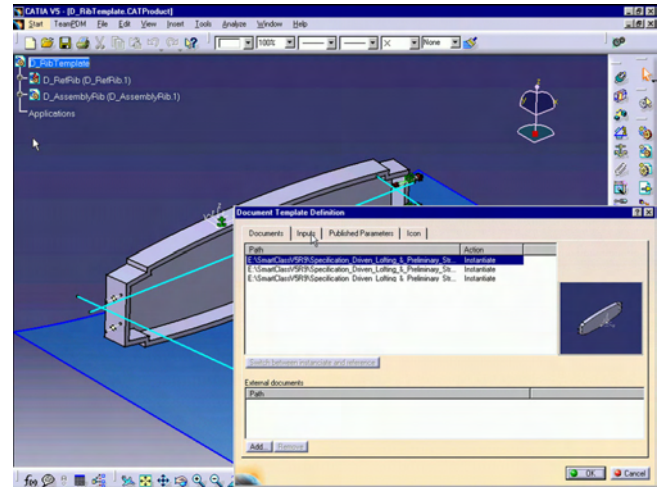
The management of captured knowledge is facilitated through the ability to edit and maintain templates in the same easy and intuitive, interactive way used to modify any CATIA part design. This requires no programming skill and allows templates to be easily adapted to the changing requirements of the organization, accommodating improved methodologies or changed legislative or customer requirements.

### Product Knowledge Templates management

Once defined, these intelligent, adaptive templates can be shared across the extended enterprise through catalogs. These templates can be as well managed within the Engineering Hub, through ENOVIA V5 VPM, giving users all the power of our PLM solution in terms of data management, collaboration and concurrent engineering. This facilitates standardization of design methodologies and capture of corporate knowledge capital, without the need for advanced programming skills. For reuse, a defined Product Knowledge Template offers the end user a single entity, with a predefined set of inputs, for maximum understanding and ease of use.

### Scripting templates for a complete solution

CATIA Product Knowledge Templates provides a scripting language, enabling full design specification and generation. Using a simple and declarative language, the user can describe (in text



Screen capture of CATIA - Knowledge Templates

format) geometric specifications, transformation and positioning specifications (including assembly constraints), and knowledge specifications. Moreover, to keep the creation of scripts simple, powerful Knowledge Templates can be used as any script objects.

### Enable large deployment of User Define Feature

Thanks to the ability to modify the User Define Feature (UDF) reference that strengthens the continuous development process and enable opening and closing of UDF when instantiated, customer can securely create and deploy their UDF within their enterprise. The system keeps the ability to manage IP protection between OEM and supplier chain while preserving industrial usage within the company.

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