



Type3 CAAV5 Based

The bridge between industry and graphic arts

Dobra Alexandru, PLM Consultant, 11/04/2014

Agenda



- **1. General Presentation**
- **2. Description**
- **3. Applications**
- **4. Graphic & Text Functionalities**
- **5. Customer Benefits**

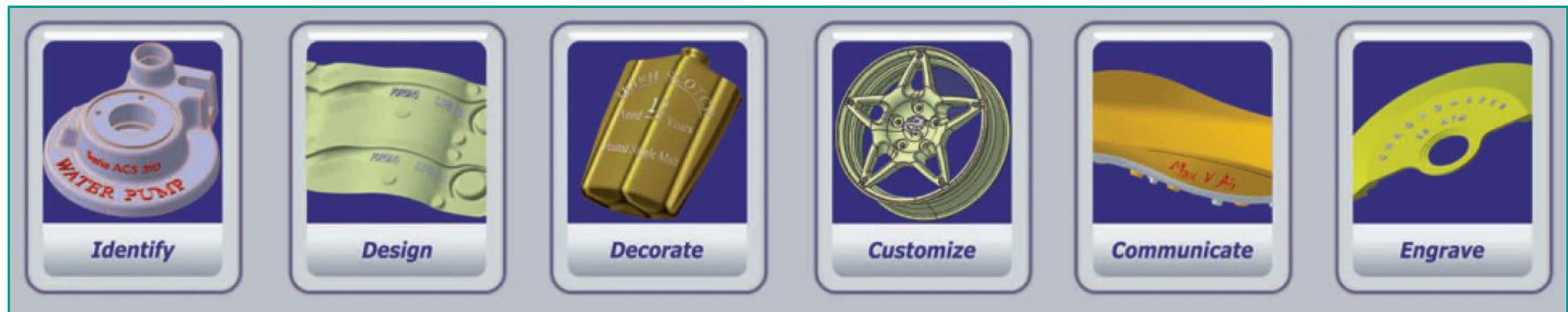
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1. General Presentation

- **Type3 CAAV5 Based**, the **add-on to CATIA V5** enables early **creation of text and easy and effective integration of logos, numbers, graphic elements, symbols, part identification**, etc. in construction and design process for SIMULATION, VALIDATION and PRODUCTION purposes.
- Type3 was selected by Dassault Systemes as a Technology Partner via their partnership program in 1999.
- Since 2003, Type3 CAAV5 Based is used by many companies throughout the world. **Customers are automotive manufacturers, automotive suppliers , electronic equipment, aerospace and much more...**



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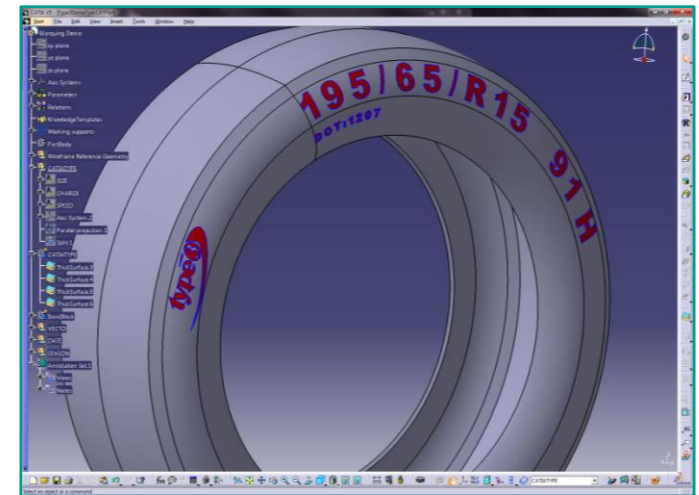


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2. Description

■ Type3 CAAV5 Based, add-on to CATIA V5 offers: ..

- Logos
- Part numbering and identifications
- Serial numbers
- Graphic Elements
- Decoration
- Symbols
- Text...



...to integrate early in the PLM process your lettering and graphics needs

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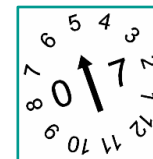
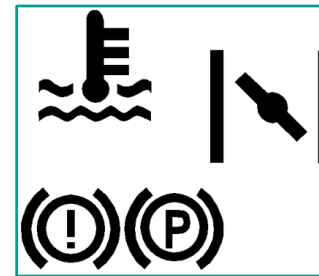
3. Applications

Serial numbers, *graphic elements*

Text, Labels, LOGOS,

Symbols @ ® ™ Ω ...

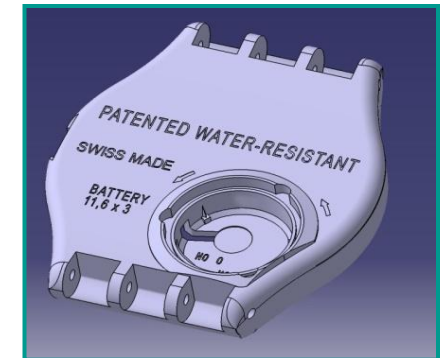
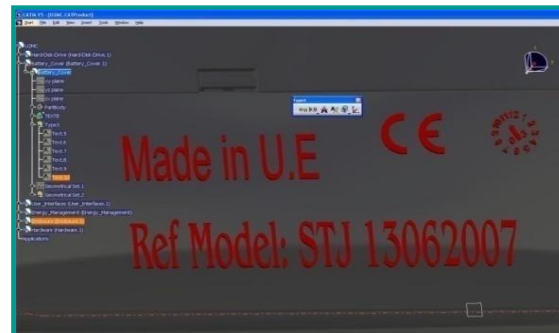
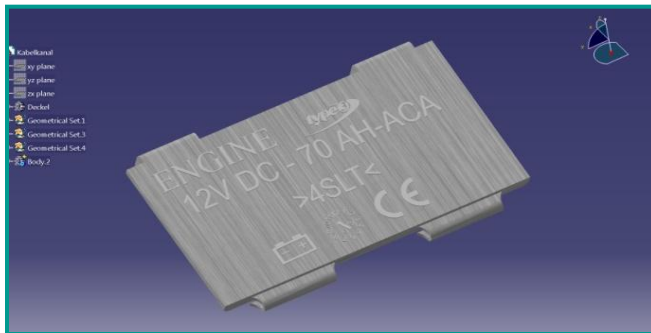
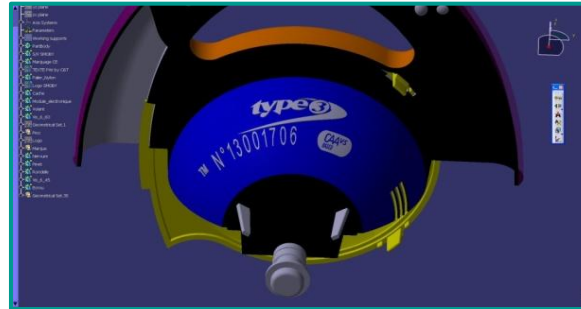
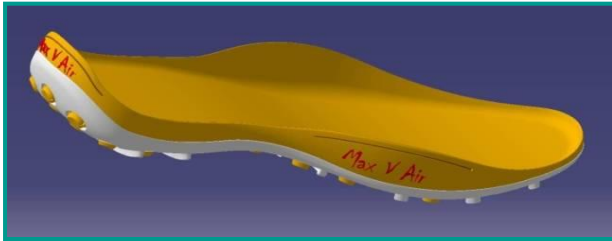
Identification



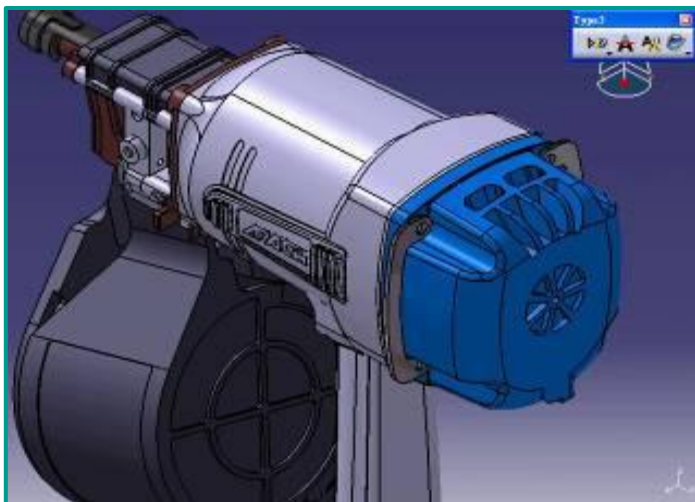
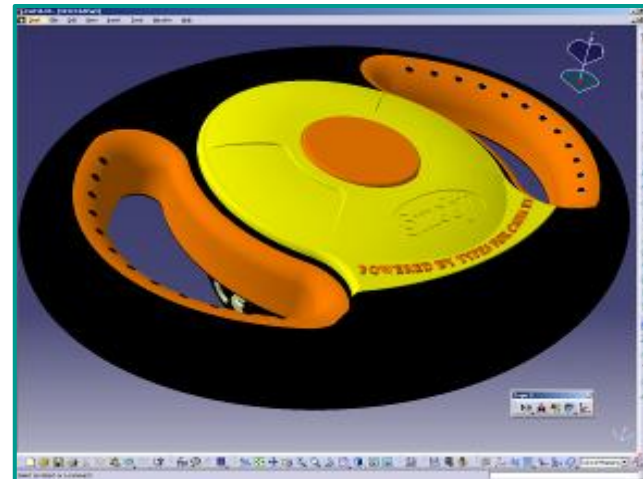
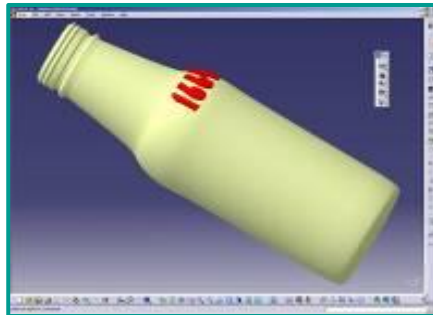
All are integrated earlier in the product lifecycle

Some examples

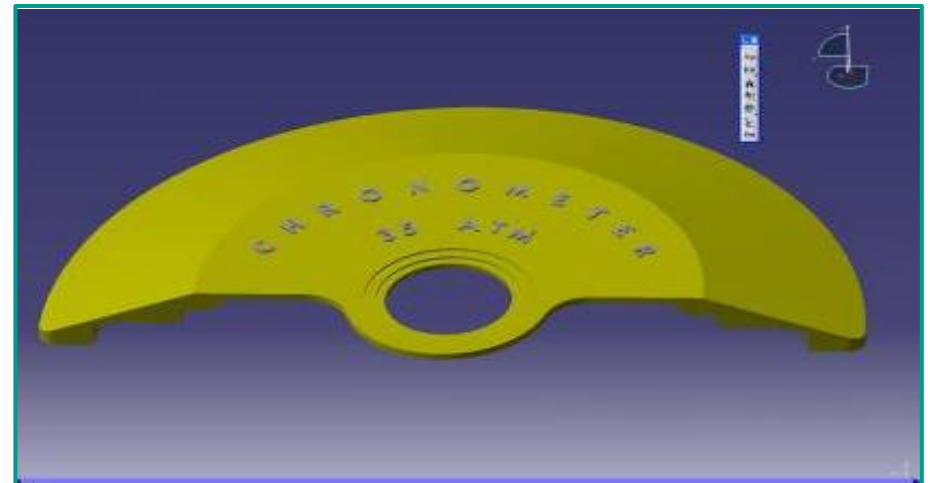
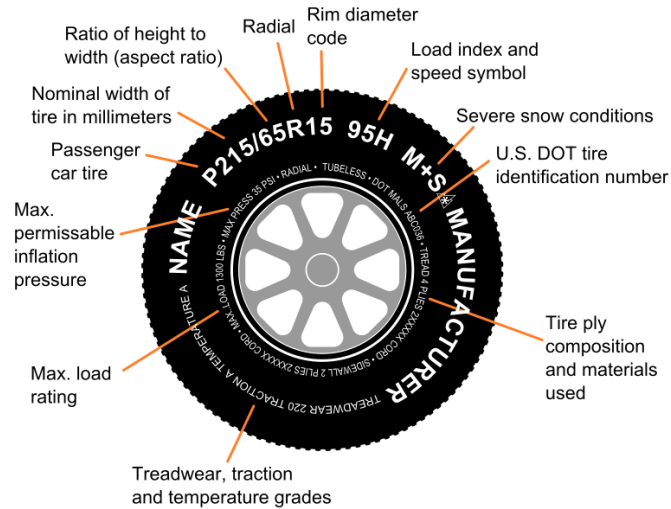
Automotive – Aerospace – Electric & Electronic – Medical – Consumers goods – Packaging...



Automotive – Aerospace – Electric & Electronic – Medical – Consumers goods – Packaging...



Product Information / Identification



Tire, Safety Systems, Wheels, Forged parts, Interiors, Lighting ...



Packaging / Consumer Goods

Packaging and Industrial packaging, Furniture Equipments, Sanitary Products, Watch making, Toys, Gardening products ...



Industrial Equipments

Motion & control technologies, Pump products, Sheet Metal, Forged tools, Plumbing products, Machinery...



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4. Graphic & Text Functionalities

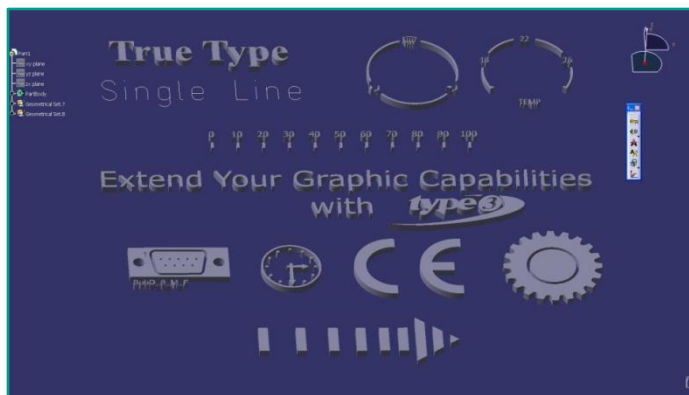
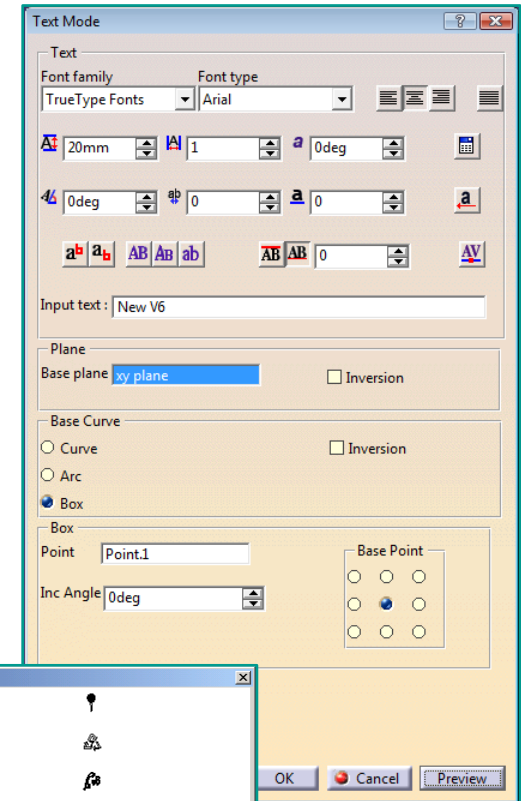
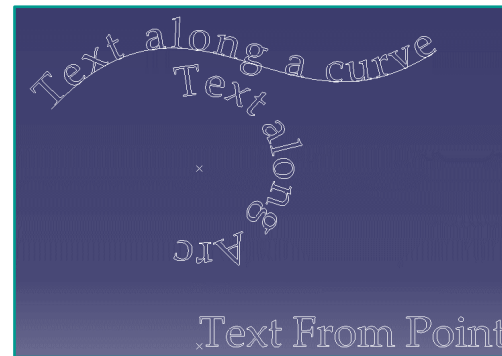
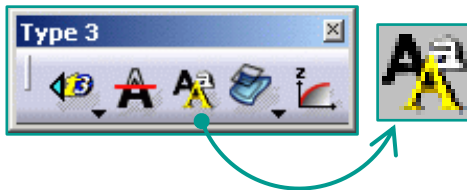
Expert and easy Typographic possibilities and handling of logos

- **Create text** and apply various and numerous parameters
- **Create any numbering, apply symbol characters**
- **Retrieve logos** directly from the scanner or import graphic files formats such as BMP
- **Trace (vectorize) logos directly in CATIAV5** after assessing, if necessary, some vectorization parameters
- Add commands and icons to the CATIAV5 environment to provide complete and professional Typographic, Scanning and Vectorization possibilities

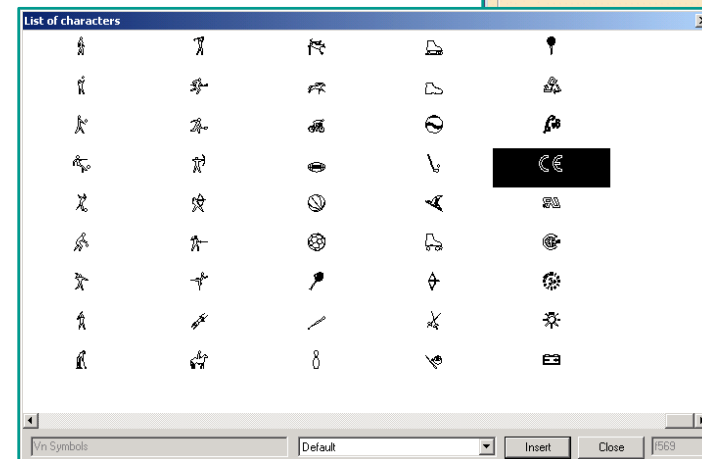
Text mode

- High precision of text/fonts tools
- TrueType, OpenType, SingleLine
- Mirror / inversion
- Place along curves, from Points or Arcs
- Symbol library
- Full CATIA curves compatibility
- Associative, parametric...

Text mode



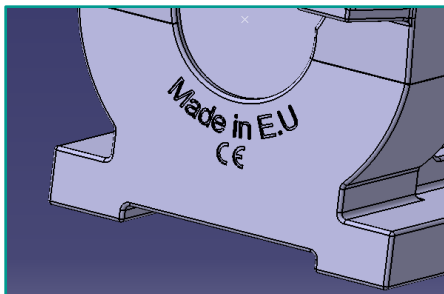
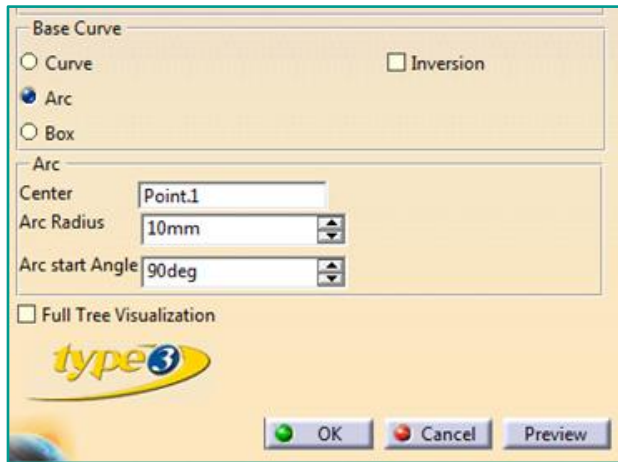
Symbol library



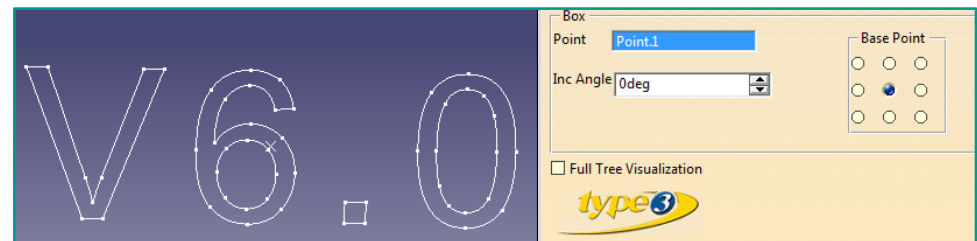
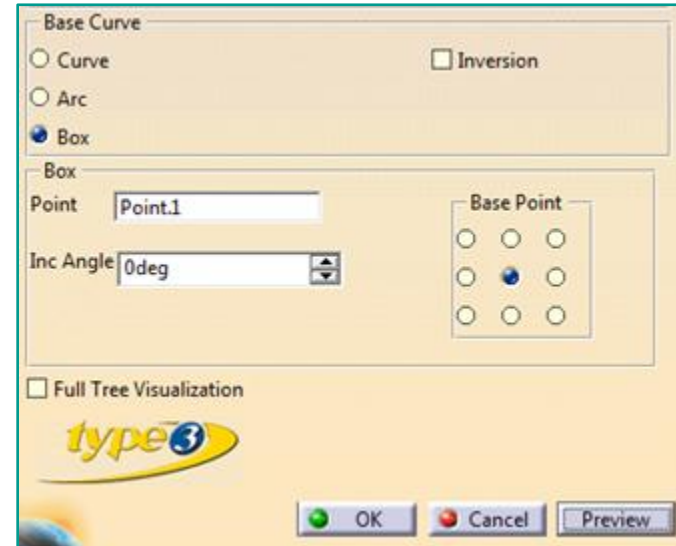
Text mode (2)



Text in ARC

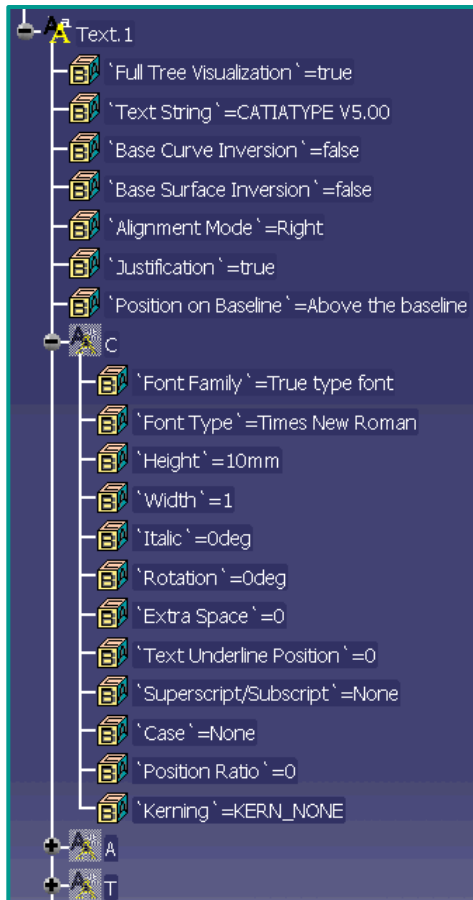


Text from a POINT

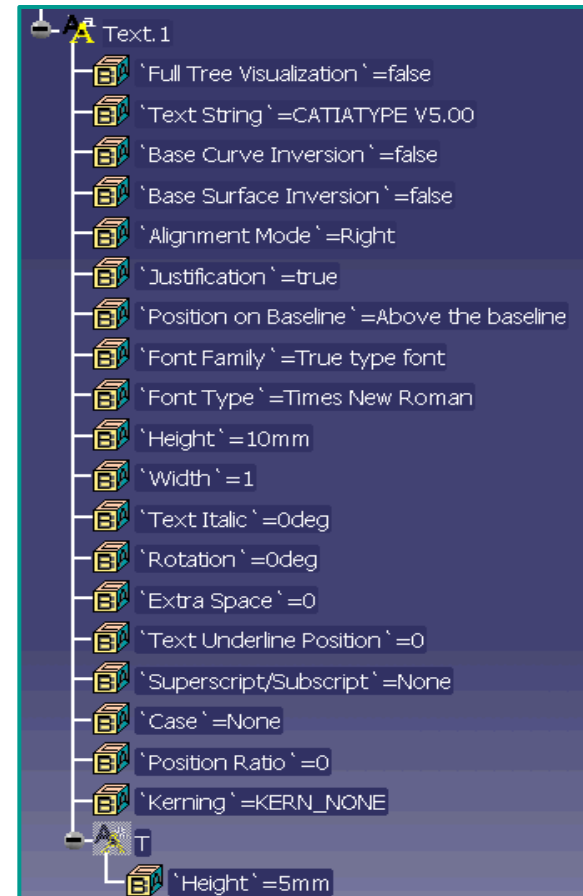


All details in Construction Tree!

Full tree visualisation

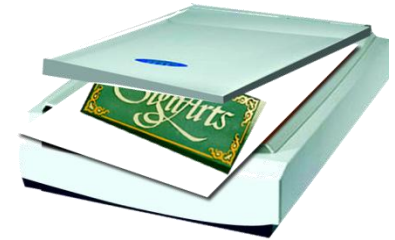


Partial tree visualisation

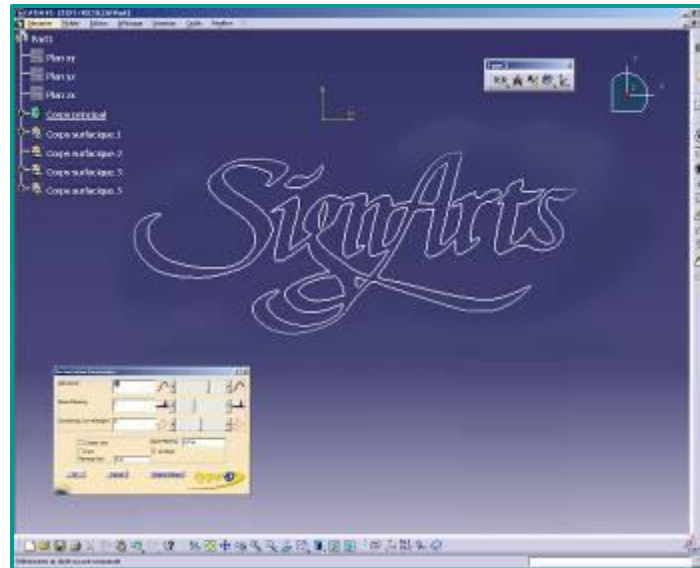


Scan & Vectorization

- Direct BMP, JPEG, TIFF, GIF, PNG imports in CATIA
- Driving 2D Scanner
- Precise vectorization parameters
- Vectorization of black/white and color files
- Fast and easy vectorization



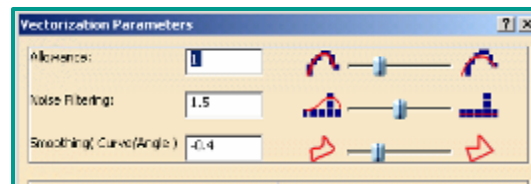
Vectorized logo
in CATIA



Color reduction
& selection



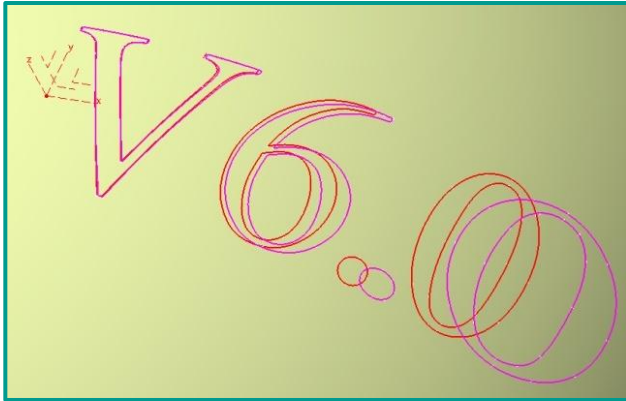
Adjustable parameters
for highly precise
vectorization



Projection (standard or local)

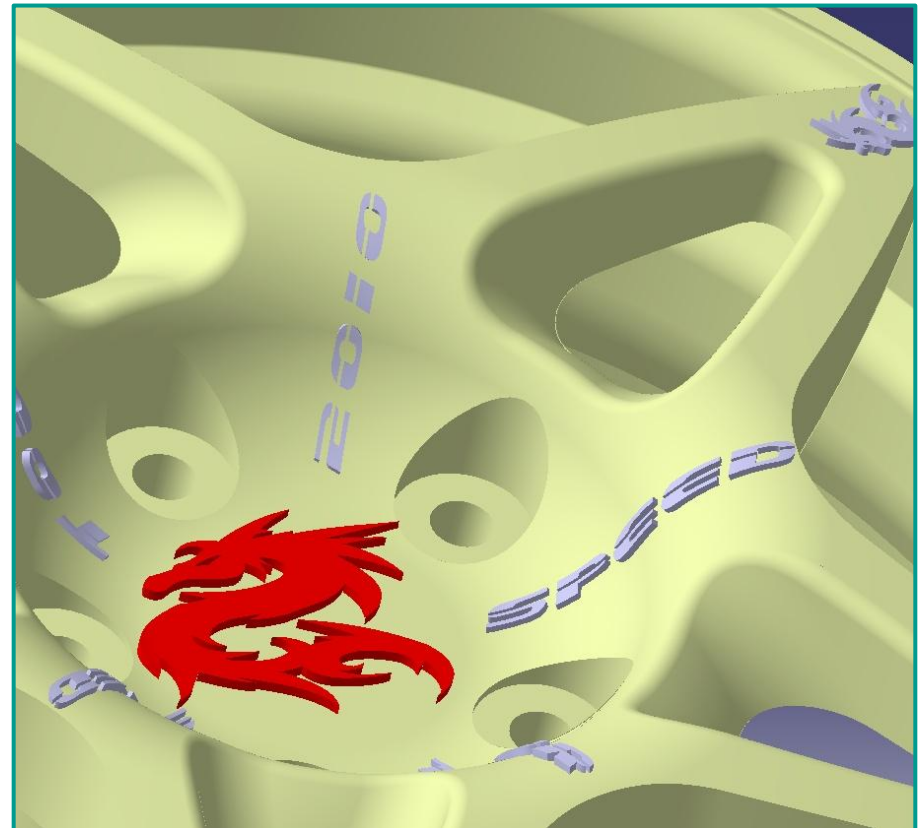


In PINK, the “parallel” projection
In RED, the “local” projection

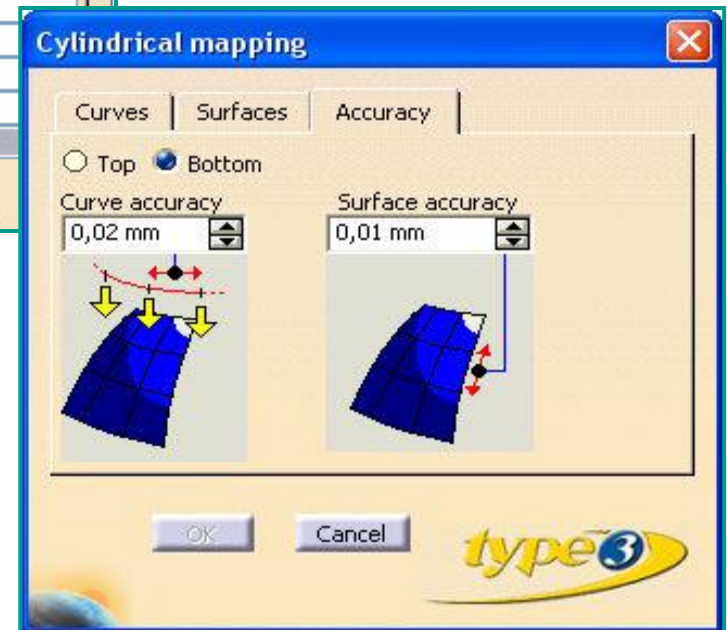
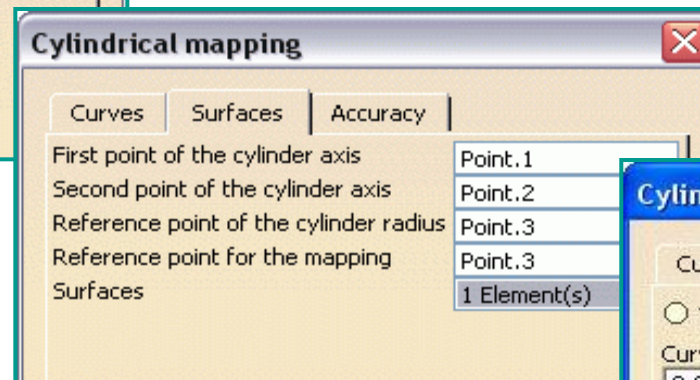
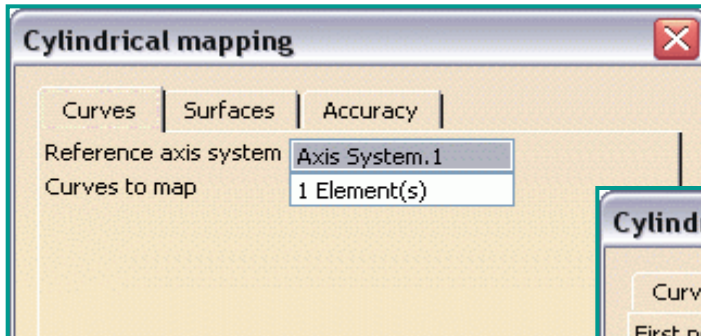
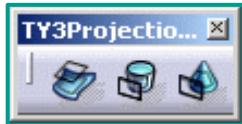


- High precise positioning with markers
- Full CATIA curves compatibility
- Associativity
- Base for creating solids
- Base for CAM machining...

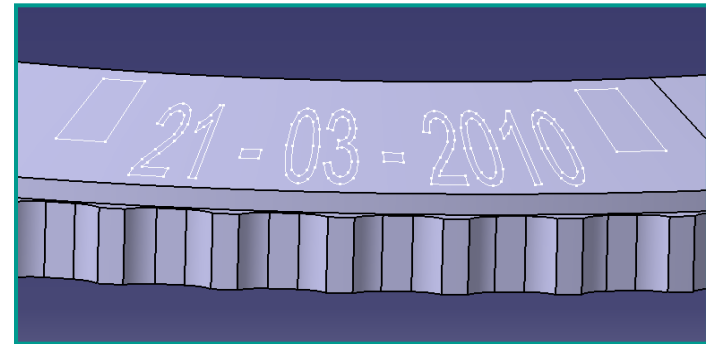
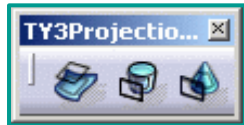
Example of application for “local” projection



Mapping (settings)



Mapping (cylindrical or conical)



How to create text in CATIA without Type3 CAAV5 Based?



- CATIA V5 doesn't have any dedicated text functions in standard
- Customer wanting to create text in CATIA usually use ways around like:

“Pocketing” method

- Use CATIA drawing tool to create text
- Save as DXF to import
- Place text in sketcher to create pockets
- Each character is individual pocket
- **Text is not editable**
- **Time consuming**

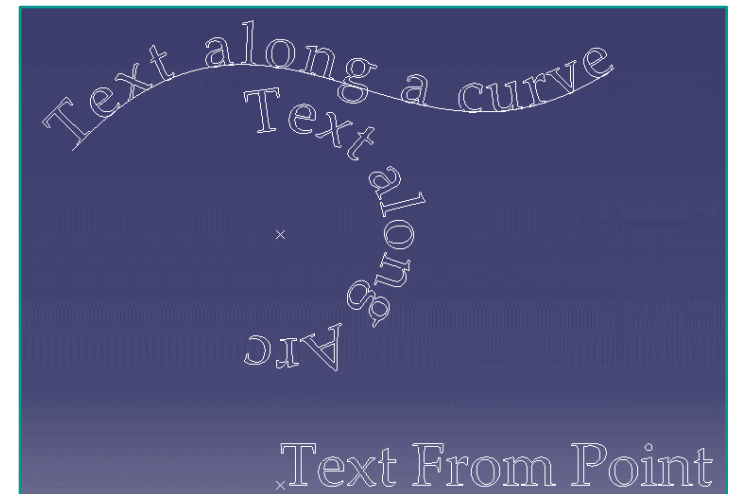
“Sketcher” method

- Create text in sketcher using point coordinates, lines and curves
- **Very manual**
- **Time consuming**
- Depends heavily on operator's mastering of the mouse
- Poor text quality
- **Text is not editable**

Comparing alternative solutions to Type3

Type3 CAA^{V5} Based solution

- **Quick and easy to use**
- Wrapping text on complex surfaces: works on 2D and 3D geometries
- **Update and modify text quickly and easily**
- Seamless integration with CATIA Production and Manufacturing workbenches
- Text globally selected for manufacturing operation



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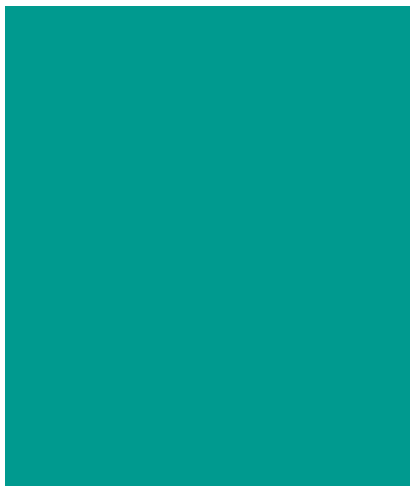
- Professional, **complete** and **associative** typographic module (text, numbers, symbols, ...)
- Logo insertion directly from the **library** (can be extended)
- High precision **vectorization** of logos, graphic artworks, etc.
- Option to plug-in scanners and enlarging design possibilities (logo, image)
- **Projection** and **mapping** on surfaces
- Easy-to-use thanks to **seamless integration in CATIA** interface
- **Short learning curve**
- **Productivity gains**

Prices

TYPE3 CAAV5 Based Graphical & Warp Package INDUSTRIAL



License	PLC	ALC	Quantity
Nodelock	3285 €	979 €	1
Floating (server)	4890 €	1450 €	1



Va multumim pentru atentie acordata!

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