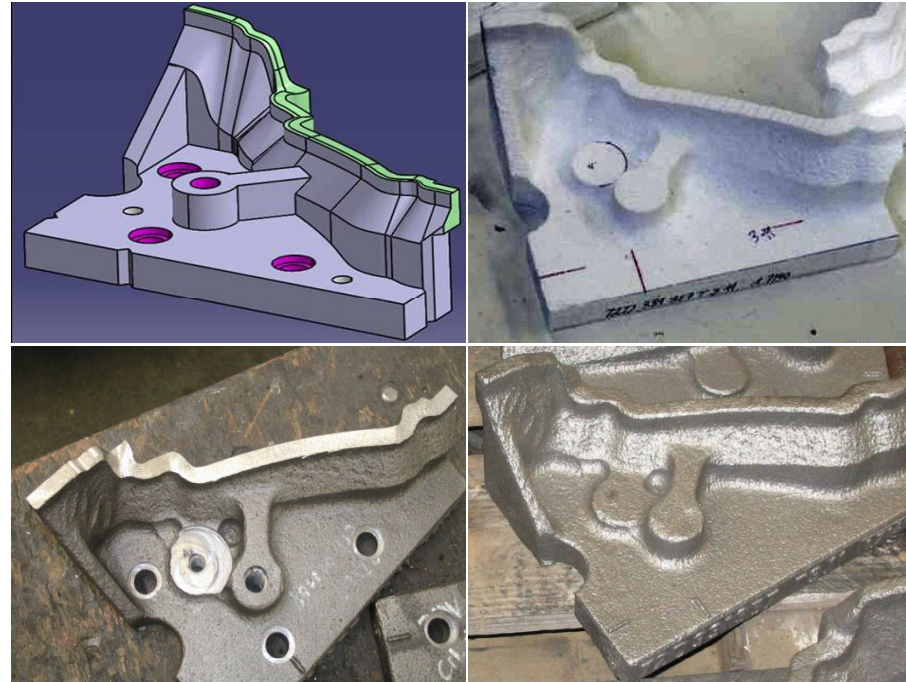


# fast<sup>®</sup> TRIMSTEEL TOOLING



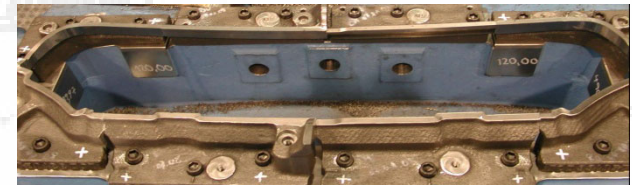
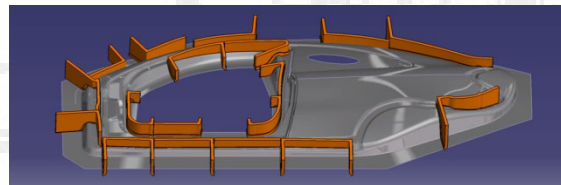
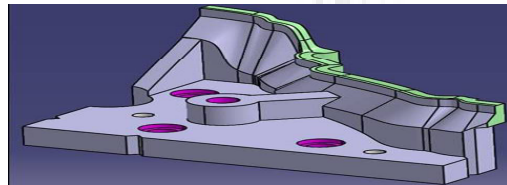
## Automated design of trim steels and forming tools



[www.cenit.de](http://www.cenit.de)  
[www.cenit-group.com](http://www.cenit-group.com)

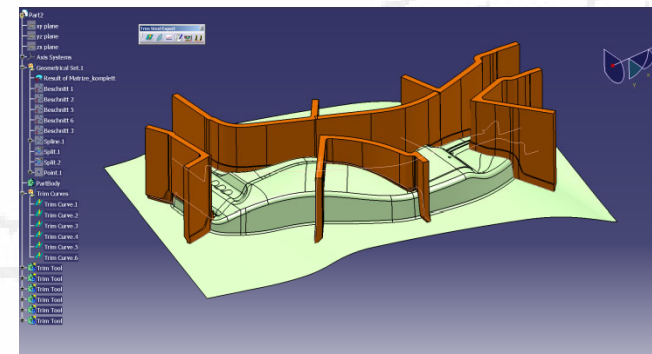
# Contents

- Product description
- Position in engineering process
- Product usage process steps
- Product details
- Prerequisites
- Product packaging



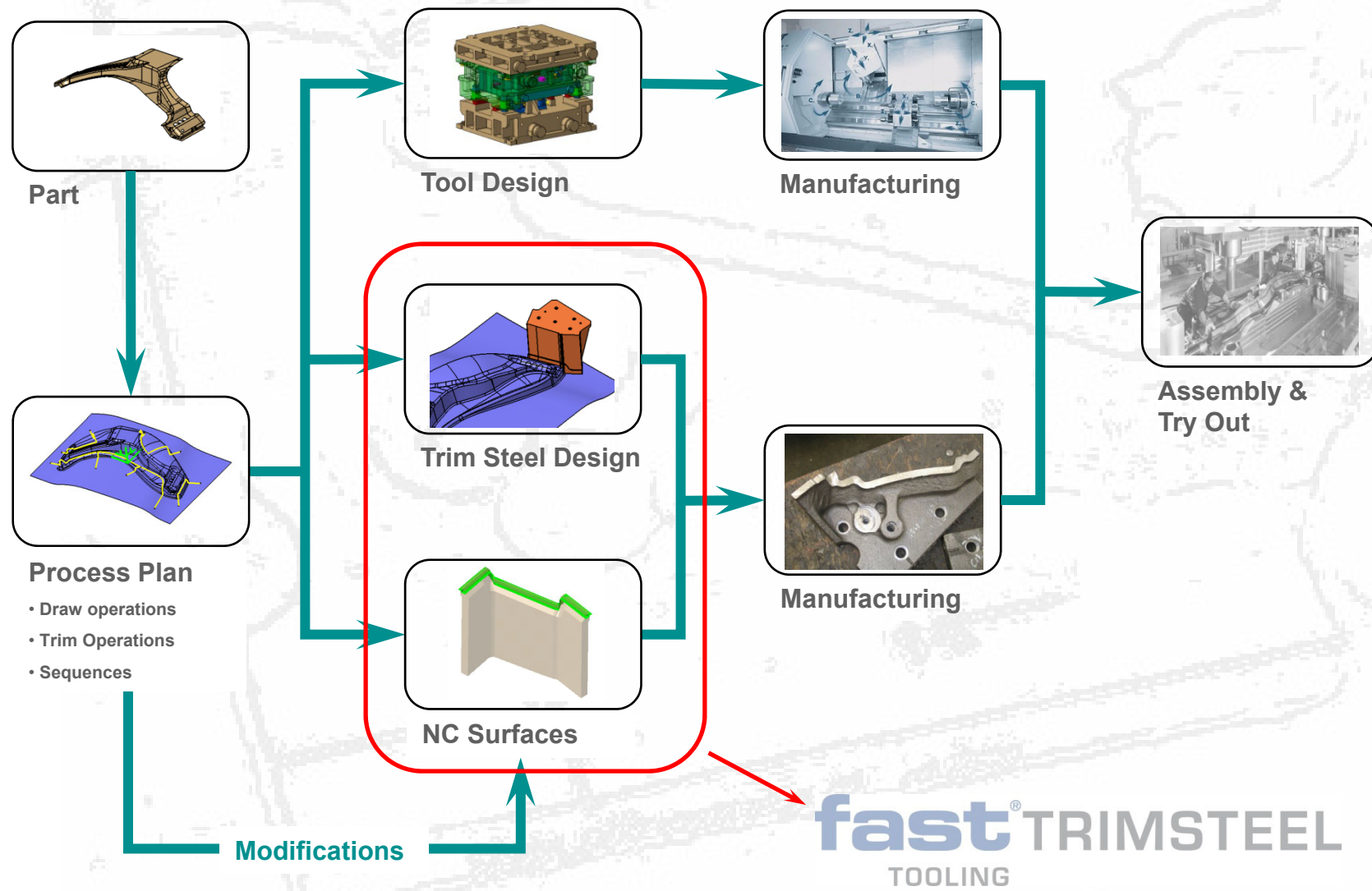
# Product description

- **Automated generation of trim steel geometry**
  - **FASTTRIMSTEEL** is a dedicated solution to easily design and modify trim and forming tools
    - The application computes:
      - Solid geometry for trim or forming tool
      - Trim surfaces for NC programming
  - **FASTTRIMSTEEL** is a close cooperation between the Swiss company iCapp and CENIT

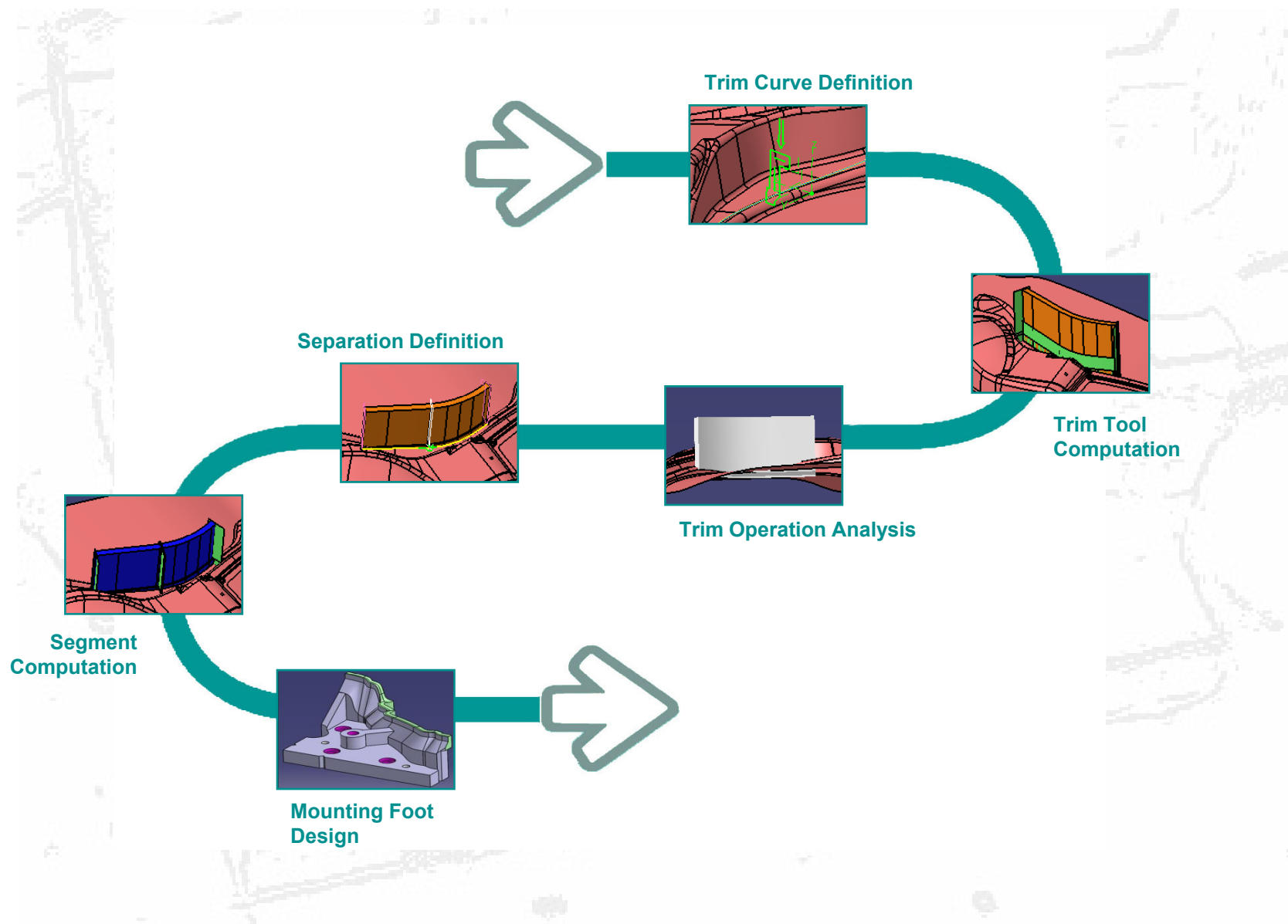


**fast**® TRIMSTEEL  
TOOLING

# Position in engineering process

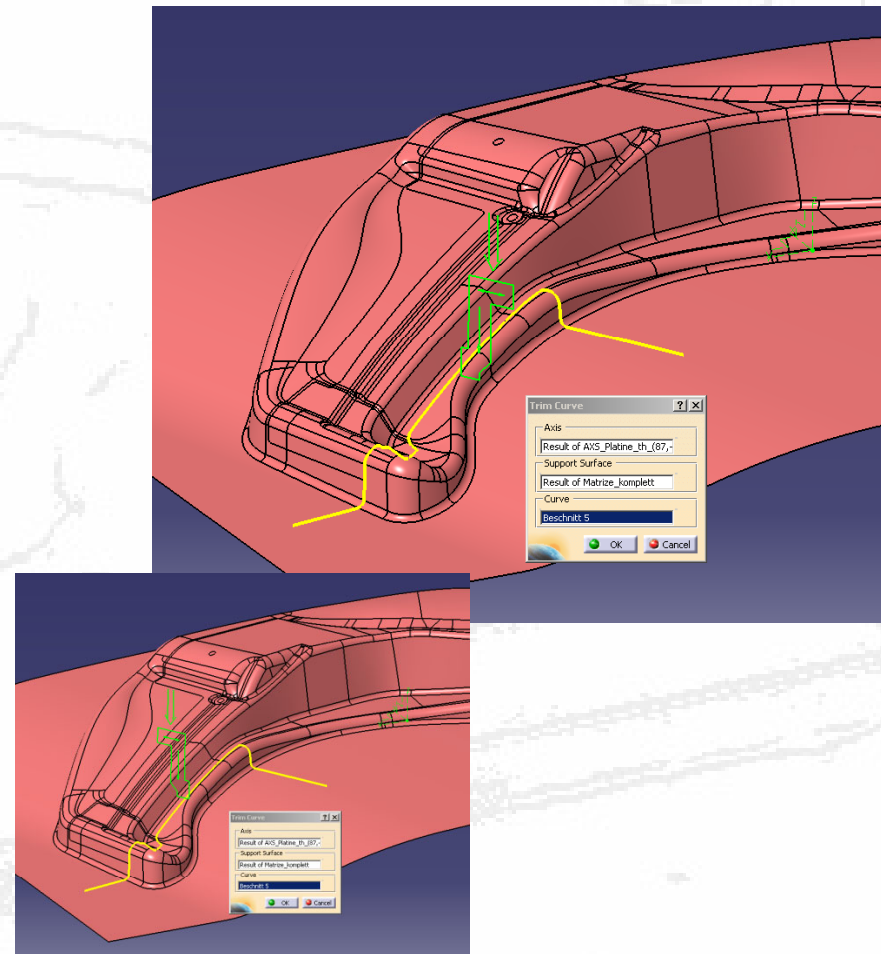


# Product usage process steps



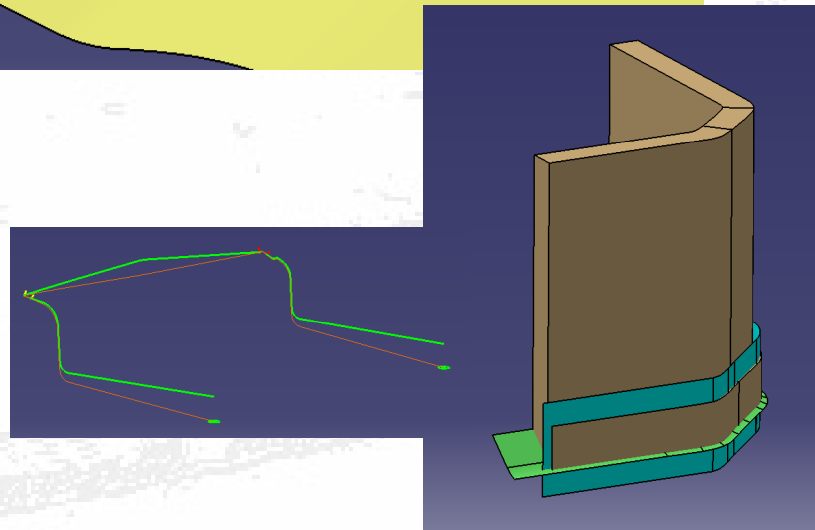
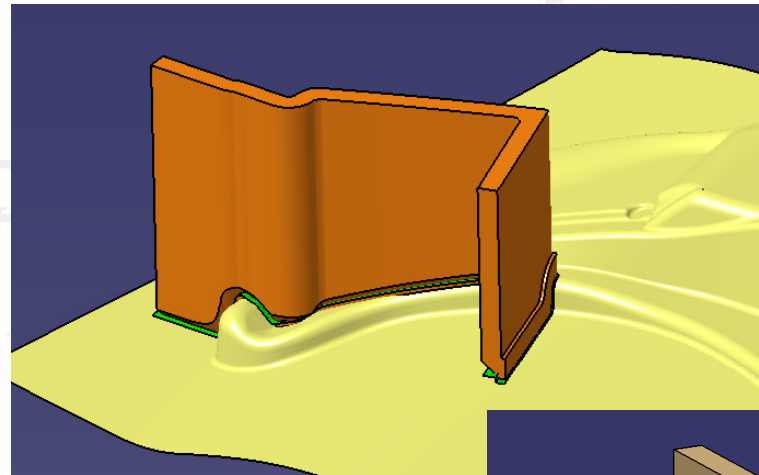
# Product details

- **Trim Curve Definition**
  - **Collect base information**
    - Tool operation direction
    - Surface to be cut
    - Trim contour
  - **Define trim tool orientation**



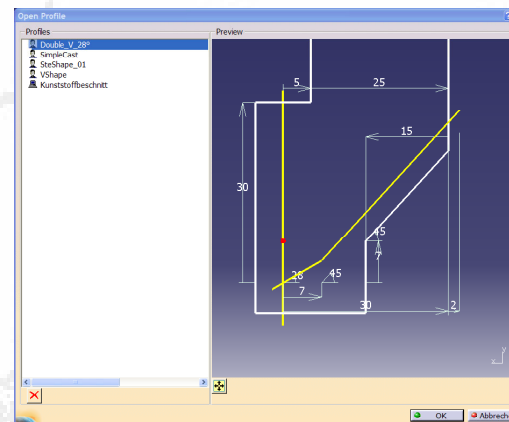
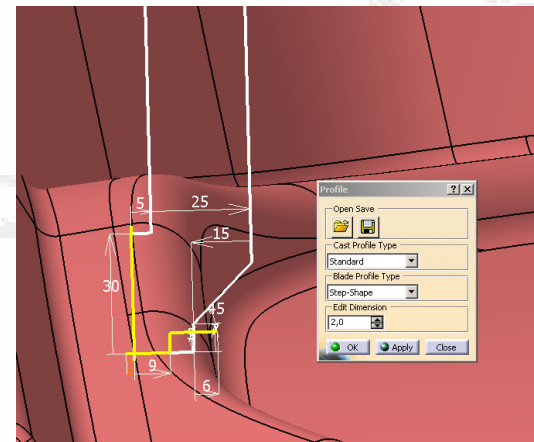
# Product details

- **Trim tool computation**
  - **Definition**
    - Tool shape and dimensions
    - Cutting parameters
    - Cutting behaviour (shear)
  - **Computation**
    - Cast body
    - NC tool surfaces
    - Collision check



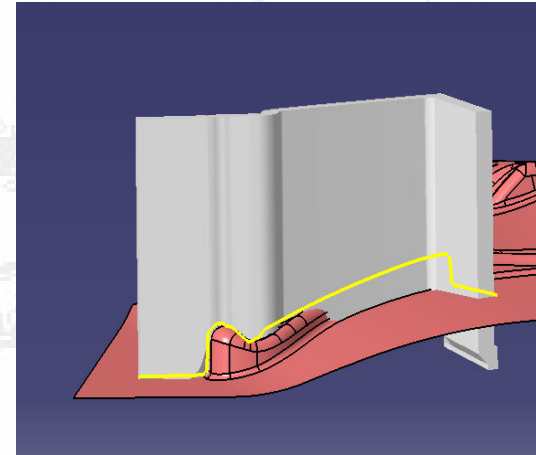
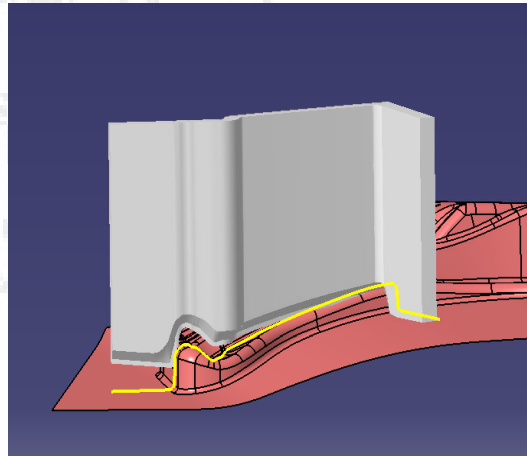
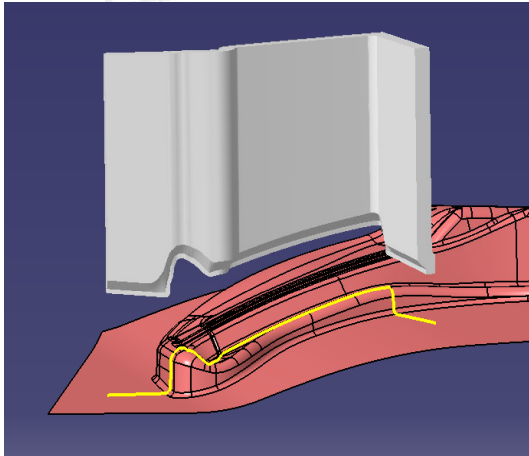
# Product details

- Trim tool computation
  - Tool shape and dimensions
    - Editable dimensions
    - Different types of head blade face
    - Storage in database



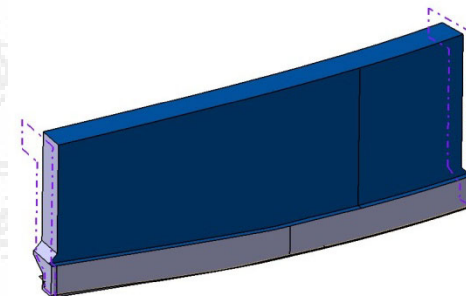
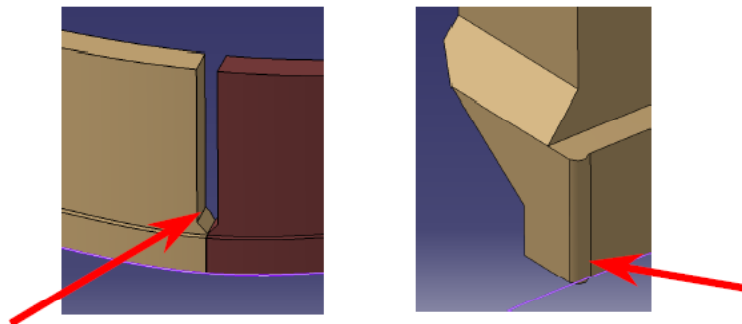
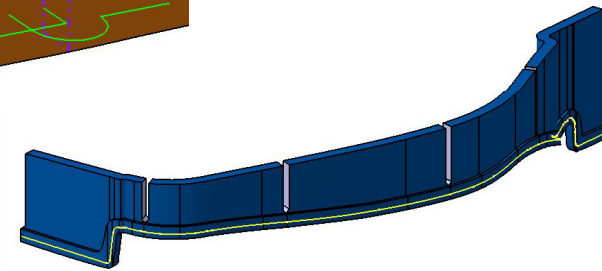
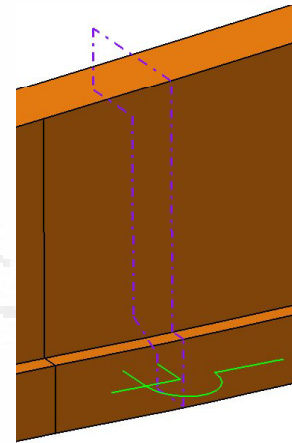
# Product details

- Trim operation analysis
  - Visual analysis of intrusion behaviour of trim tool



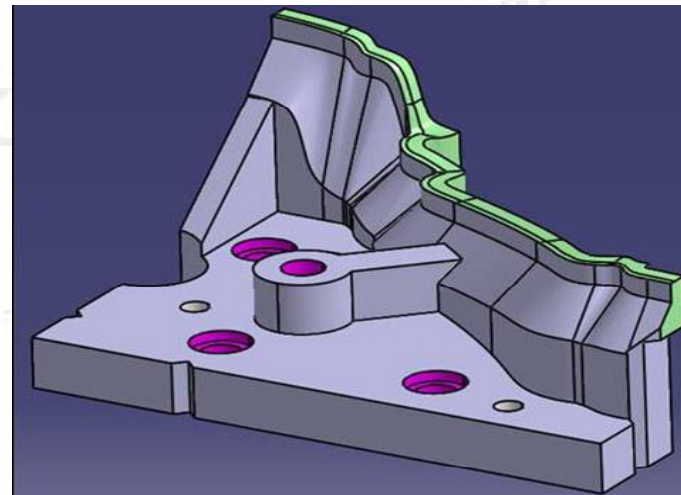
# Product details

- **Segmentation**
  - **Separation point definition**
    - Overlap
    - Orientation of separation point
  - **Segment**
    - Inheritance of definition and parameters of trim tool
    - Contact relief



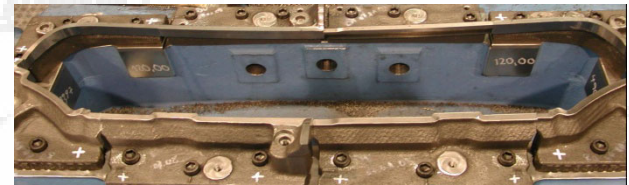
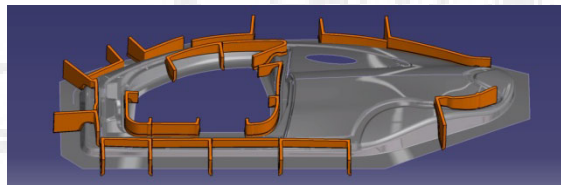
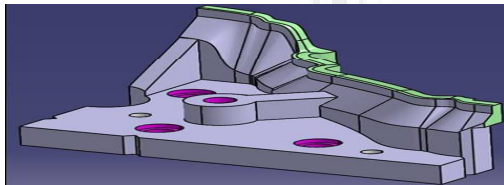
# Product highlights – What's next

- **Mounting foot**
  - **Base plate**
  - **Mounting holes**
    - Mounting
    - Positioning and fixation
  - **Local coordinate system**
    - Markings
  - **Others**
    - Stiffener ribs
    - Ejector position
    - Text engraving



# Prerequisites

- **System requirements**
  - Windows XP (or Vista) 32bit and 64bit platform
  - Licensing with FlexNET Publisher (nodelock and floating)
  
- **Supported CATIA V5 Version**
  - Available for R16 and higher, all common used Service Packs
  - On request for any required Service Pack
  
- **CATIA V5 prerequisites**
  - Minimum required: MD1 configuration, or similar PLM Express configuration



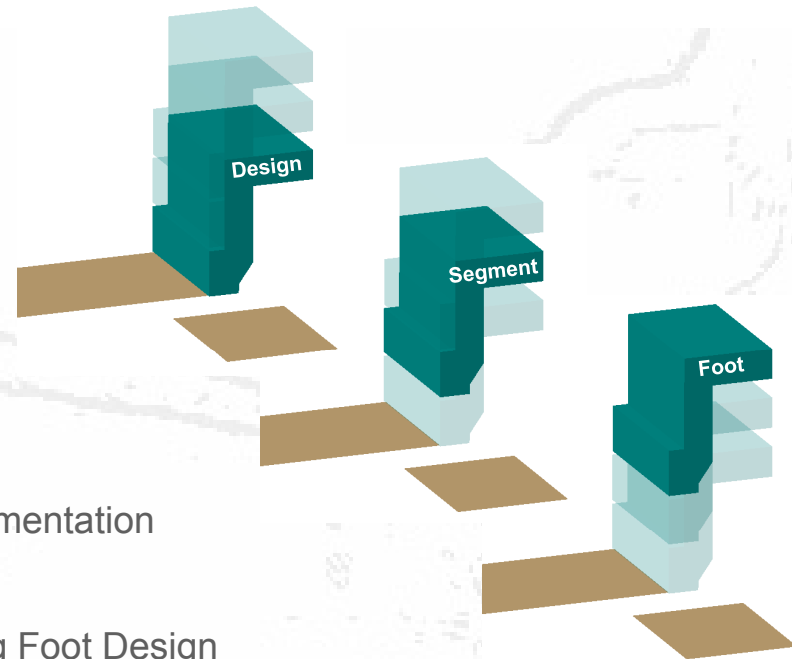
# Product Packaging

## ■ Modules

- Trim Steel Design
- Segmentation
- Mounting Foot Design (2009)

## ■ Configurations

- **FASTTRIMSTEEL Base**
  - Contains Trim Steel Design + Segmentation
- **FASTTRIMSTEEL Advanced**
  - Trim Steel Expert Base + Mounting Foot Design
- Inclusive
  - Installation support
  - Software updates
  - Hot-line support
- Exclusive
  - Training



***Thank you for your attention!***

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**[www.cenit.de/fasttrimsteel](http://www.cenit.de/fasttrimsteel)**

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