# JANUS @ GOLDHOFER AG

# *WHY JANUS: MARKET REQUIREMENT*
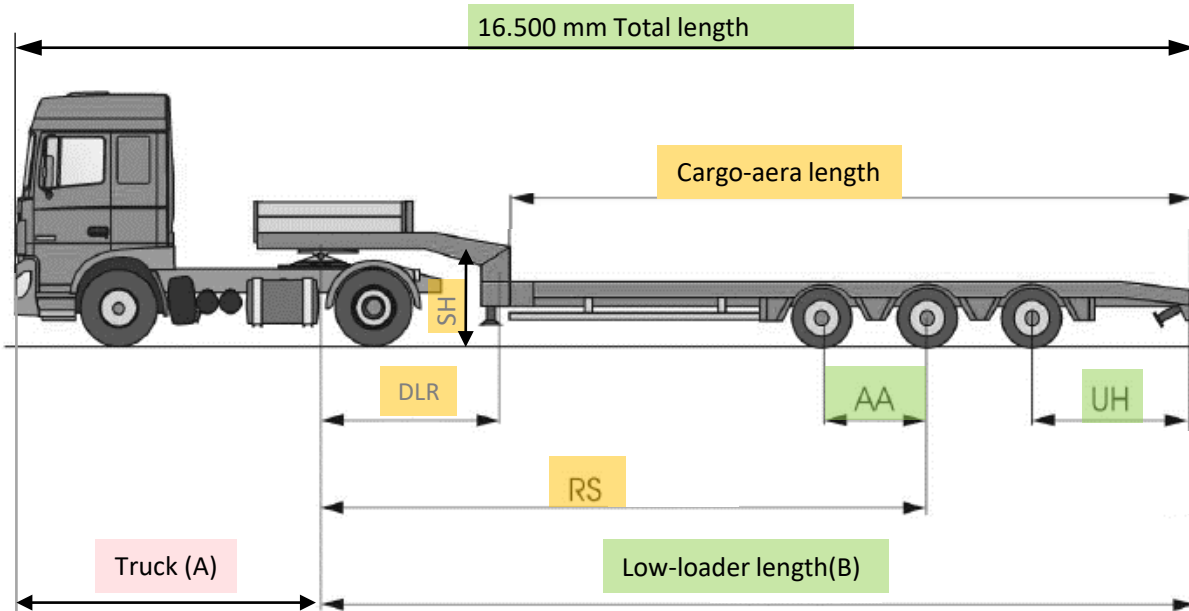


**Legende:**

| | |
|---|---|
| Freely selectable* | |
| Selectable in steps | |
| Fix | |

DLR = steering wheel radius
SH = trailer height
RS = theoretical wheelbase
AA = distance between axles
UH = overhang

Trailer 16.500 mm total length → Customer truck is individual = individual loader length.

Variance in steel construction necessary → less pre-configuring possible.

In the past each order was individual.

\* Customer truck is individual, so each loader is individual as well

# WHY JANUS: EXAMPLE CONSTRUCTION-KIT-PHILOSOPHY

MARKET REQUIREMENT:  TOTOAL LENGTH REQUIRES AN ADOPTION OF THE CARGO-AERA LENGTH
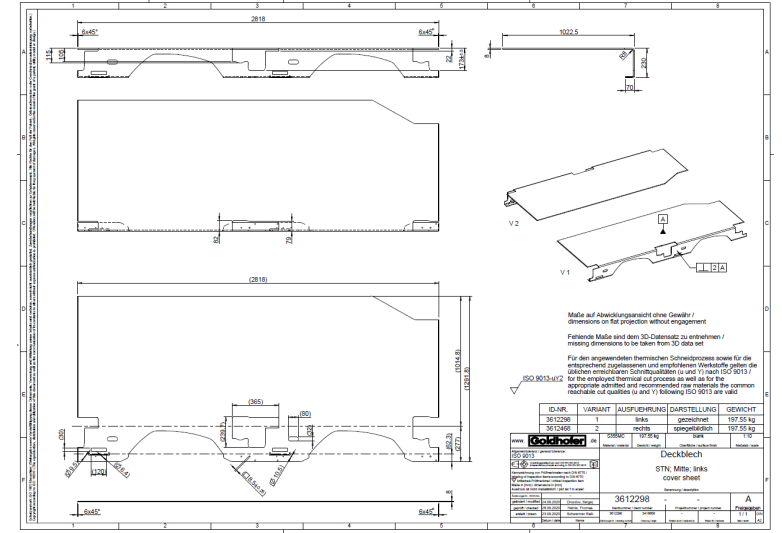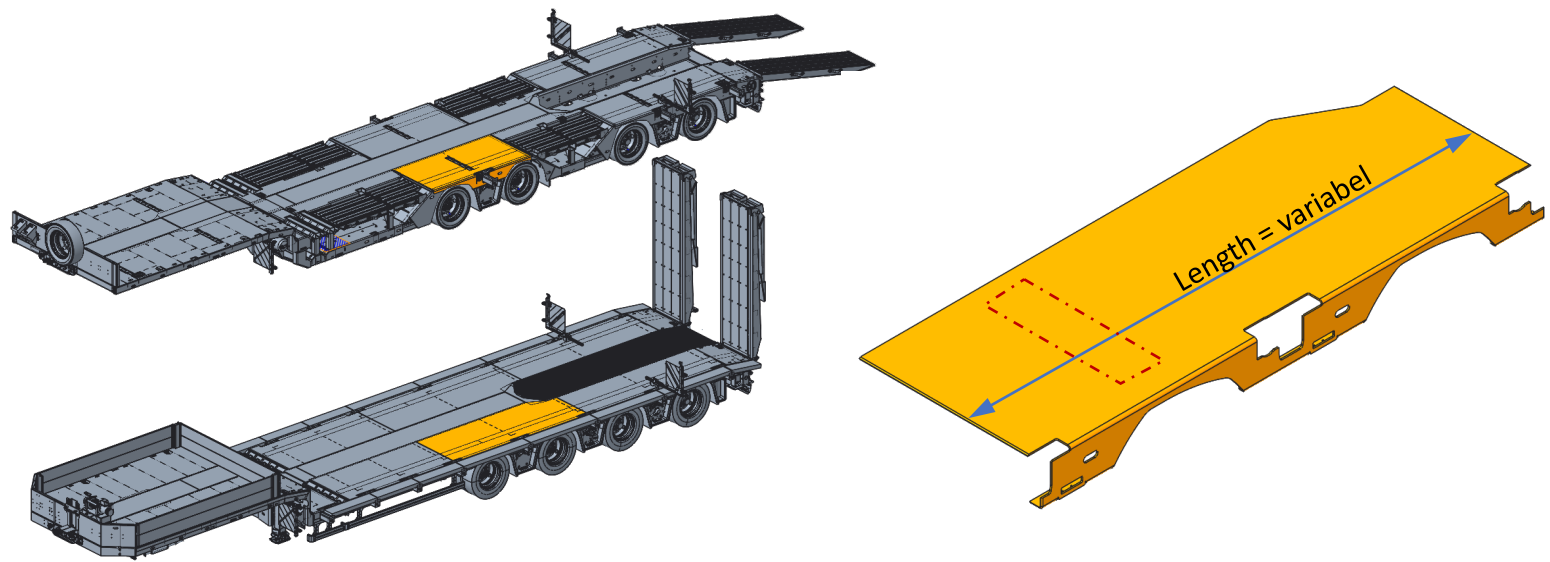


» Sheet metal is welded. Depending on the vehicle length, excavator trough, wheel trough, number of axles, etc., the sheet metal changes - multiplication necessary?  **Not all possible configurations will come!**

» If a variant such as a stake pocket bar is added, the detailed variance is multiplied

» Derived necessary data, e.g.
article creation, drawing creation, parts list, 3D data, test plans and production orders…

# *JANUS: FINDINGS FROM THE FIRST PRODUCT LINE AT GOLDHOFER AG*

- **150% (MST-) BOM Structure incl. Systemes and Software**

- **For each order, JANUS generates full automatically:**
  - **19 Drawings incl.**
  - **52 CAD-components**
  - **Ø 95% of the order-specific components can be reused**

- **Reduction engineering time with Janus:**
  - **Reduction (onyl) engineering hours 75%**
  - **Savingsfor this producline (200 vehicles /y) = 4800 Stunden**

- **Now possible with Janus:**
  - **Pre-productions planing**
  - **„just-in-time" - order management**
  - **and many more**
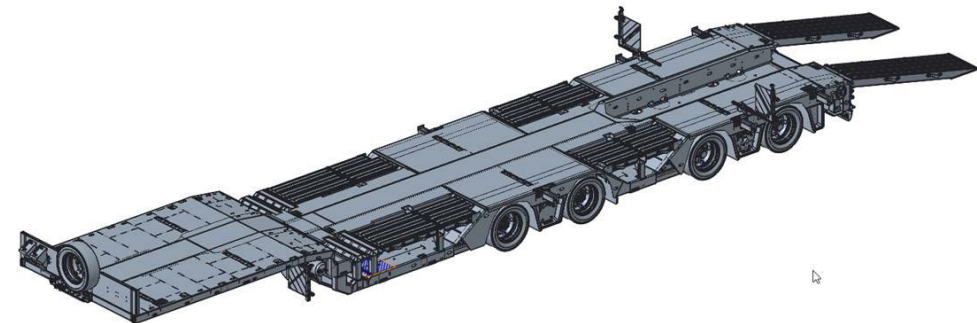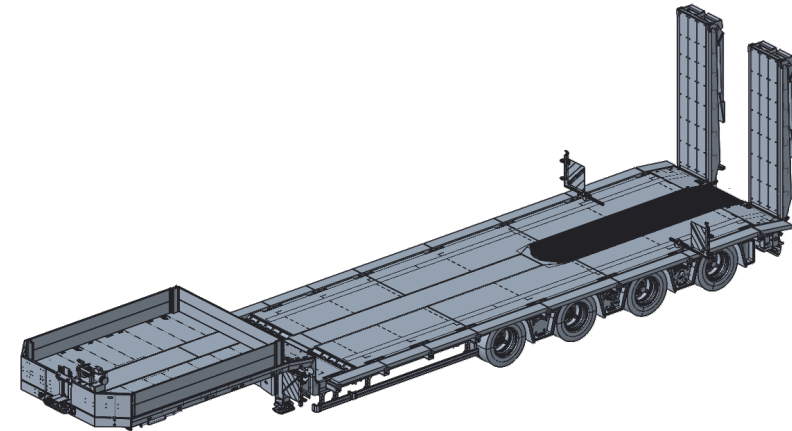
# *JANUS-BENEFITS*

- Fully automatic generation of new articles including WT part (structures)
- Reuse existing components
- Insert or delete delete components
- Create and controll BOM- MBOM-SBOM
- Automatic creation and modification of drawings
- Modify CADS Dimension and Parameters
- Create or delete geometries (caliper pockets, stake pocket strips
- Change materials
- Change Colors
- Adjust sheetmetal thickness
- Adjust weldings details
- Update and create parameter
- Pre-configure feasibility
- FEM calculation of new variants
- ERP Interaface
- CPQ Interface
- Graphical logic Editor
- Parameter Editor
- CAD Interface to Creo Parametric
- And much more ….
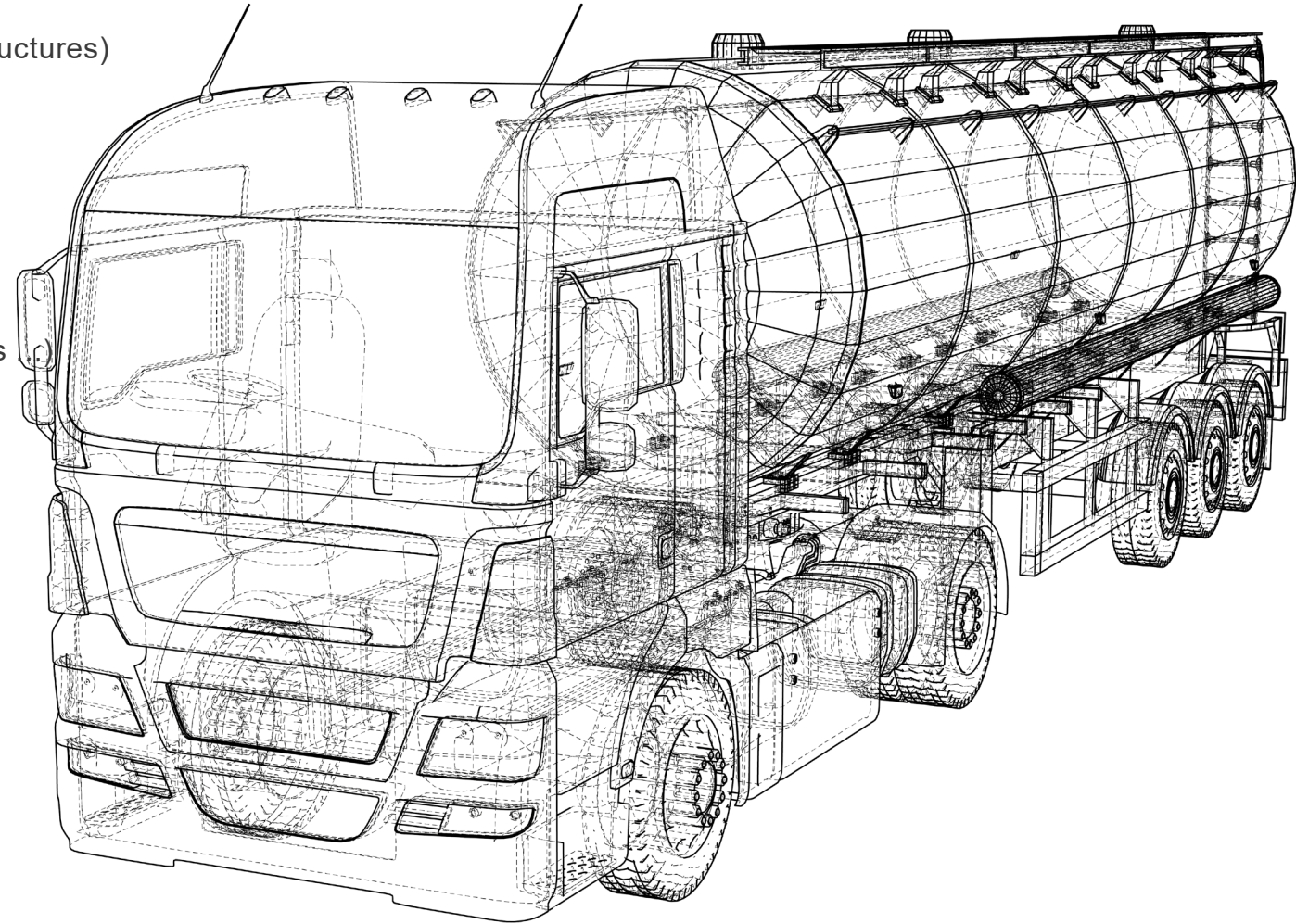
For more information

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