

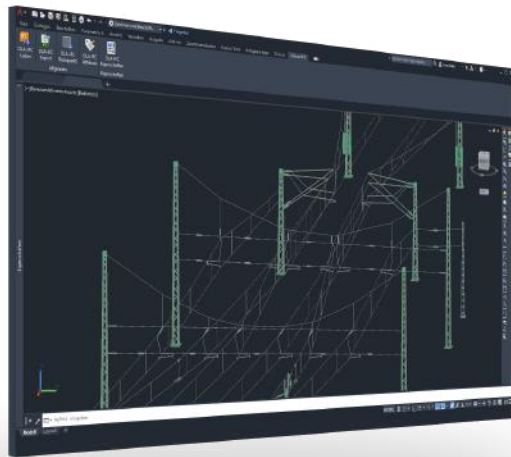
# SIGNON OLAcad

Design software for overhead contact lines (OCL)

# Object-oriented design

SIGNON OLAcad is a powerful design tool for the fast and effective design of overhead contact lines for light and heavy rail infrastructures. The integration of libraries for various types of execution and sets of drawings enables the design of the overhead contact line equipment to be independent of the construction type and manufacturer. In addition to the design of vast distances and extensive station facilities, it is suitable for mass transit catenary systems involving complex junctions and depots.

## Functions



3D view of a long-distance transport project

- Re-defined „smart“ overhead contact line elements with interacting properties
- Automatic recalculation of geometric data and other variables after changes to properties
- Semi-automated design steps
- Multiple standards for each axis distortion available
- Extensive construction phase design possible in a single drawing
- Static calculation in accordance with EN 50119
- Numerous output and export possibilities
- Reloading of revised data tables possible
- Simple revision of plans after build

## Results



Traction line plan for a streetcar crossing

- Top view (2D) and perspective view (3D)
- Layout plans
- Evidence of longitudinal (cantilever) and vertical (tension weights) movement
- Cross sections
- Value tables such as catenary tables, tables for railway power lines, coordinate tables for masts, or full mast and foundation tables in accordance with client specifications
- Static calculations on new and existing installations
- Export of digital design documents in accordance with client-specific CAD interface requirements
- Detailed drawings

# Your advantages



Time-efficient and cost-effective design of new construction, rehabilitation and maintenance projects



Quick feedback on technical feasibility



For light and heavy rail



Vendor independent



No restrictions on construction type



For all design phases



Different levels of detail

## References

- **Stuttgart S21 Rail yard**

Altered design of the contact line system of the terminus due to the relocation of tracks by 200 m in more than 60 superstructure states.

- **High-speed track Wendlingen – Ulm**

Design of the contact line system for Re 330.

- **Ulm**

Adjustment of the contact line system for the implementation of the Wendlingen – Ulm high-speed track.

- **Connection of the Leipzig / Halle Airport**

Design of the contact line system for the air cargo transshipment terminal including integration into the existing Halle – Leipzig track.

- **Dresdner Verkehrsbetriebe AG – new track Gorbitz – Gompitz**

Design and integration of the contact line for the western track extension, including consideration of the continued track to Kesselsdorf.

- **Dresdner Verkehrsbetriebe AG – Pirnaer Landstraße/ Leubener Straße**

New design of the contact line system to remove the damage caused by the flood in 2002, including individual mast static.

- **Citybahn Chemnitz – Stollberg**

DC electrification of a railway track for the Citybahn (Chemnitz model).

- **Hamburg Port Authority – Hamburg Port Railway**

Contact line systems in the area of the Hamburg Port.

- **Great Eastern**

Modernization of the contact line system in the run-up to the Olympic Games in London 2012.