

# POWER LINE<sup>®</sup>

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# S Y S T E M S

## Products

Our software automates the calculation of design loads and the checking of strength according to most international standards (ASCE, NESC, IEC, CENELEC, etc.). This has been possible because of Power Line Systems close involvement over the past 30 years with the organizations that developed these standards and the feedback from the electric companies that require their use.

### PLS-CADD

The standard edition of PLS-CADD is a line design program that includes all the terrain, sag-tension, loads, clearances and drafting functions necessary for the design of an entire power line. Also includes **PLS-CADD/LITE** and **PLS-CADD/ULTRALITE**, but not any of the other items listed below ([compare editions](#)).

**Optimum Spotting Option:** Enables automatic selection of structure locations and types for the least cost design of a line.

**SAPS Option:** Finite element sag-tension option: provides a superior alternative to the built-in ruling span sag-tension.

**PLS-CADD/LITE:** Simplified edition of PLS-CADD for calculation of sags and tensions in a single span, thermal ratings and structure loading trees for a single structure. Included at no charge with the standard edition ([compare editions](#)). Includes **PLS-CADD/ULTRALITE**, but does not include the terrain modeling, material or drafting functions of the standard edition and is based on the ruling span concept. (*PLS-CADD/LITE does not open or act as a viewer for PLS-CADD Standard edition models*).

**PLS-CADD/ULTRALITE:** Streamlined version of PLS-CADD for quick modeling of a single span of conductor or wire. It develops a Sag-Tension report as well as Stringing Charts for a user definable range of span lengths and stringing temperatures.

**PLS-CADD/SURVEY:** Surveyor's edition of PLS-CADD that provides terrain modeling and drafting capabilities, but not structure spotting, loads, clearances, or sag-tension ([compare editions](#)).

### TOWER

Analyzes, designs and optimizes steel lattice towers for transmission and substation applications.

## **PLS-POLE**

Analyzes and designs structures with wood, laminated wood, steel, concrete or fiber reinforced polymer (FRP) poles, or modular aluminum masts.

**PLS-POLE Professional** includes modules for modeling and analyzing all pole material types; Wood, Steel, Concrete, Laminated Wood, & FRP.

In addition it also comes with CAISSON functionality embedded in for designing directly embedded poles with or without backfill, as well as concrete piers.

**PLS-POLE/WOOD** for analysis and design of wood poles

**PLS-POLE/STEEL** for analysis and design of steel poles

**PLS-POLE/CONCRETE** for analysis and design of concrete poles

**PLS-POLE/LW+MAST** for analysis and design of laminated wood poles and modular aluminum masts

**PLS-POLE/FRP** for analysis and design of Fiber Reinforced Polymer poles

**PLS-POLE/Integrated CAISSON**

## **SAPS**

Structural Analysis of Power and communication Systems is the analysis engine that powers our other software. It can be purchased for standalone use to solve exotic problems. SAPS can act as a plug-in to add finite element sag-tension to the standard edition of PLS-CADD.