

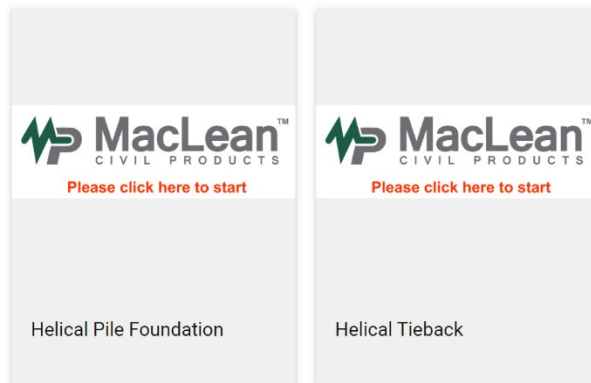
Welcome to MacLean Power System (MPS) Real-Time Design!

MacLean's Real-Time Design (RTD) is a free design tool to generate MacLean helical products recommendations.

[RTD-flyer-.pdf \(macleancivilproducts.com\)](#)

[KBMax](#)

The MPS RTD Helical Design Software allows design professionals to model helical piles, anchors, and tiebacks in designer-defined soil conditions. The software allows the designer to perform multiple evaluations with varying soil conditions and helix configurations to make pile, anchor, or tieback selection easier and more economically. The designer has the option to manually create helical product configurations for evaluation or allow the software to automatically evaluate common helical product configurations and select an economical option that meets the load requirements.



A step-by-step walk-through of RTD sign-up and use can be found at the following link:

[RTD-Helical-Walkthrough.pdf \(macleancivilproducts.com\)](#)

The RTD software automatically performs the following functions:

- Calculates a default value for soil unit weight, internal friction angle, and cohesion based on site specific SPT N values and soil description
- The designer can override the default soil parameter values if site specific data is available
- Performs pile capacity calculations using Terzaghi bearing capacity factors and Rankine earth pressure coefficients, and designer-defined site soil parameters
- Quickly selects optimal helical piles and anchors in compression, tension, and tieback applications
- Allows manual automatic selection the helical product
- Calculates pile buckling load capacity in soils with less than 5 SPT blow-counts
- Compares pile torque capacity to project requirements based on industry standard K_t Factors
- Presents output results in editable Excel and Adobe formats

MPS engineers provide technical support to RTD users. Contact MPS technical support by email at dcowan@macleancivilpower.com or by phone at (731)330-4024.