SOIL SCREW®
RETENTION WALL SYSTEM
CIVIL CONSTRUCTION

SOIL SCREW® RETENTION WALL SYSTEM

- Immediate loading - no grout cure time
- Fast and clean installation in any weather condition
- No excavation or spoils to remove
- No holes to drill

CHANCE®, SINCE 1912

Hubbell Power Systems, Inc. is the world’s leading helical anchoring and foundation manufacturer. The CHANCE® brand family represents American made products for the civil construction, deep foundation, electric utility, oil/gas, railroad, and renewable energy markets. Backed by over 100 years of engineering experience, the CHANCE® Helical Pile System offers a technically advanced and extremely cost effective alternative to other foundation systems.

DESIGN MANUAL AND TECH SUPPORT

Developed by design professionals, the SOIL SCREW® Retention Wall System Design Manual is available on our website or on CD by request. This illustrated desktop guide coordinates with accepted principles and computer tools.
- Compatible with commonly available industry software for internal and global stability.
- Complies with FHWA (Federal Highway Administration) design-build guidelines
- Based on recommendations by industry expert Clouterre (France)
- Compares to other wall types such as tiebacks and mechanically stabilized earth (MSE)
- Suitable applications
- Design and construction procedures

HUBBELL® Power Systems Inc.
**INSTALLATION**

CHANCE® SOIL SCREW® Anchors install quickly in any weather condition. A hydraulically powered torque motor is mounted to standard construction equipment such as a digger-derrick truck, line truck, rubber tired backhoe, trackhoe excavator, or front end skidsteer loader. Continuous torque is applied to advance the SOIL SCREW® into the soil.

**BENEFITS**

- Predictable results
- Cost-effective
- Proven engineered system
- Labor saving - small crews
- No pre-drilling
- Site specific to conditions and loads
- Extendable with bolted join connection
- Bearing device not friction dependent

**APPLICATIONS**

- Building site preparation
- Retaining walls
- Roadways
- Land development
- Levees / Dams
- Revetments
- Slope failures
- Parking lots

**LOAD-BEARING SUPERIORITY OF SCREW ANCHORS**

Bearing plates are spaced along the entire length of screw anchors. These true-spiral helices install with ease and minimal soil disturbance. Monitoring torque during installation accurately indicates expected holding capacity for predictable results. Capacity is proportional to installation torque.

The SOIL SCREW® Retention Wall System reinforces in-situ soil with soil screws installed in a grid pattern. The rows of soil screws are typically installed nearly horizontal. Soil screw sizes and grid spacing are determined by soil conditions and load requirements, including intended overburden.

The System removes performance uncertainties and associated costs of grouted soil nails in soils of low shear strength. Screw anchors in soil act as bearing devices as opposed to grouted anchors which rely on friction between the soil and grout.

Profit from the design flexibility of this fundamental difference. Join other designers who have already used soil screws. Get your SOIL SCREW® design manual today on abchance.com or contact your CHANCE® representative.