



**CHANGE**<sup>TM</sup>  
*Since 1912*

**SOIL SCREW**<sup>®</sup>  
*RETENTION WALL SYSTEM*



COMMERCIAL GRADE



## CHANCE<sup>®</sup>, SINCE 1912

Hubbell Power Systems, Inc. is the world's leading helical anchoring and foundation manufacturer. The CHANCE<sup>®</sup> 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<sup>®</sup> Helical Pile System offers a technically advanced and extremely cost effective alternative to other foundation systems.

## SOIL SCREW<sup>®</sup> 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
- Installs in limited access areas
- Cuts labor and equipment costs
- Reclaims valuable building locations
- Standard construction equipment used to install

## DESIGN MANUAL AND TECH SUPPORT

Developed by design professionals, the SOIL SCREW<sup>®</sup> 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



# 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, track-hoe excavator, or front end skid-steer 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](http://abchance.com) or contact your CHANCE® representative.

**SOIL SCREW®**  
*RETENTION WALL SYSTEM*

BUILDING SITE PREPARATION

ROADWAYS

RETAINING WALLS

LEVEES

DAMS

REVETMENTS



*Never Compromise™*



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*Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.*

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