

Helical Ground Anchor

Temporary and reusable ground support method for anchoring braces

Helical Ground Anchors provide an engineered alternative to slab bolting or concrete deadmen. The anchor is a square steel shaft with helix plates that “screws” into the ground with continuous downward force. The anchor will establish a load capacity for subsequent brace attachment (depending on the soil condition and strata).

Helical Ground Anchors are both economical and effective:

- Eliminates forming and handling a concrete deadman at each brace location.
- Eliminates drilling, bolting and patching the floor slab at each brace location.
- Torque installation method produces a verifiable load rating in all soil conditions.
- Provides a quick installation and removal method for anchor placement.
- Compatible with Helical Anchor Extensions, HGA Brackets and Pipe Braces.



A skidsteer with a torque motor attachment is used to install the Helical Ground Anchor at the prescribed angle and depth for bracing.



The lower two flights on the HGA have “C” shape chisel flight finish. Top flight has standard straight flight finish.



The HGA Extension has standard straight flight finish.

Contact SureBuilt Engineering for assistance.

SureBuilt
Concrete Forms & Accessories

840 South 25th Ave
Bellwood, IL 60104
708-493-9569
www.surebuilt-usa.com



Helical Ground Anchor Installation

1. The Helical Ground Anchor should be installed by a trained professional using a skidsteer with a torque motor. Do not weld, cut or alter the Helical Ground Anchor. Do not use worn or damaged components.
2. All subsurface structures and utilities must be properly marked before Helical Ground Anchor installation begins. Provide horizontal clearance of 5' in all directions.
3. The Helical Ground Anchor must be installed with continuous downward pressure to a minimum torque of 2,400 ft-lbs. A Helical Anchor Extension is necessary if the minimum is not achieved.
4. A field log of the site location and torque value of each and every Helical Ground Anchor is required for all construction projects. Prevent soil erosion at all anchor locations.
5. The Helical Ground Anchor must be installed in line with the brace for maximum capacity. Alternative geometry requires appropriate bracing and anchoring calculations.
6. The HGA Bracket, with optional single or double mounting plate, must be used for the brace connection. The bracket attaches to the anchor and the brace shoe bolts directly to the bracket plate.

Helical Ground Anchor*							
Part No.	Description	Size of Square Bar	Length	# of Helicals	Helical Diameters	SWL (lbs)	Ultimate Load (lbs)
SBHA7	Helical Ground Anchor 7'	1-1/2"	84"	3	8"-10"-10"	12,000	24,000
SBHAE	HGA Extension	1-1/2"	42"	1	10"	15,000	24,000

* Allowable torque for product is 2,200 ft-lbs.

* Design by an experienced professional only.

* Installation by a trained contractor only.

* 3/4" Grade 8 Bolt for connection to HGA



The HGA Bracket sleeves over the Helical Ground Anchor and is available with a double or single mounting plate option for braces.