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6 inch Light Pole Foundation - Round Shaft Helical Anchor

Earth Contact Products (ECP) is the foremost manufacturer of helical light pole foundation products in the United States. The adaptability of the ECP helical light pole foundations allows these products to be used as foundations for light poles, bollards, equipment pads and support for street and highway signage.

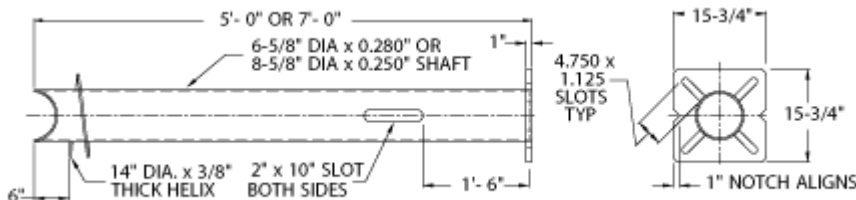
ECP offers 6" Light Pole Foundations For:

- New Construction
- Parking Lot
- Street Lights
- Bollards
- Decorative Lamps
- Solar Panels
- Highway Signage



ECP helical light pole foundations provide a simple and cost effective means of supporting parking lot and street light poles. The ECP Helical Light Pole Foundations provide resistance to lateral and moment loads due to weather and other conditions. This unique design provides a sturdy base without concrete or spoils removal.

Visit ECP Utility for more information and options for light pole foundations.



Light Pole Support Torque Anchors™			
Torque Anchor™ Configuration	Part Number	Ultimate-Limit Capacity at SPT ≥ 5 bpf	
		Overturning Moment	Lateral Load
6-5/8" Dia. x 0.280" Wall & 14" Helix – 7'- 0" Long	HTAF-663-84 14	< 12,000 ft-lb	< 1,000 lb



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Note: Integral Pile Cap is 1” Thick x 15-3/4” Square Pile Cap Welded to Shaft With Slots for 1” Diameter Mounting Bolts 2” x 10” Cable Access Slot Provided on Both Sides of Shaft Double Cut Chamfer on Bottom of Shaft Aligns Pile and Eases Installation We Will Fabricate Custom Light Pole Supports to Your Design Specifications – Allow Extra Time For Processing. Other Shaft Lengths are Available to Meet Your Engineering Specifications
Product Supplied Hot Dip Galvanized Per ASTM A123 Grade 100.

***The products shown shaded are available but are not stocked – allow extra time for fabrication**

Table 2. Capacities of Helical Torque Anchors™					
Shaft Size	Installation Torque Factor (k)	Axial Compression Load Limit	Ultimate-Limit Tension Strength	Useable Torsional Strength	Practical Load Limit Based Torsional Strength
1-1/2” Square Bar	9 - 11	70,000 lb.	70,000 lb.	7,500 ft-lb	Load limited to the rated capacity of the attachments and the lateral soil strength against the shaft
1-3/4” Square Bar	9 - 11	100,000 lb.	100,000 lb.	11,000 ft-lb	
2-1/4” Square Bar	10 - 12	200,000 lb.	200,000 lb.	23,000 ft-lb	
2-7/8” Tubular – 0.203” Wall	8 - 9	60,000 lb.	60,000 lb.	5,500 ft-lb	44,000 lb
2-7/8” Tubular – 0.262” Wall	8 - 9	100,000 lb.	100,000 lb.	9,500 ft-lb	80,000 lb
3-1/2” Tubular – 0.300” Wall	7 - 8	115,000 lb.	120,000 lb.	13,000 ft-lb	97,000 lb
4-1/2” Tubular – 0.337” Wall	6 - 7	160,000 lb.	160,000 lb.	22,000 ft-lb	143,000 lb

The designer should select a product that provides adequate additional torsional capacity for the specific project and soil conditions.

IMPORTANT NOTES:

The capacities listed for Axial Compression, Tension and Torsion in Table 2 are mechanical ratings. One must understand that the actual installed load capacities for the product are dependent upon the actual soil conditions on a specific job site. The shaft “Useable Torsional Strengths” given here are the maximum values that should be applied to the product. Furthermore, these torsional ratings assume homogeneous soil conditions and proper alignment of the drive motor to the shaft. In homogeneous soils it might be possible to achieve up to 95% or more of the “Useable Torsional Strength” shown in Table 2. In obstruction-laden soils, torsion spikes experienced by the shaft may cause impact fractures of the couplings or other components. Where impact loading is expected, reduce shaft torsion by 30% or more from “Useable Torsional Strength” depending upon site soil conditions to reduce chance of fracture or damage. Another advantage of selecting a torsional rating below the values shown in Table 2 is that one may be able to drive the pile slightly deeper after the torsional requirements have been met, thus eliminating the need to cut the pile shaft in the field.



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The load transfer attachment capacity must be verified for the design. Standard attachments and ratings are shown on the following pages. Special configurations to fit your project can be fabricated to your specifications upon request.

ECP helical anchors, also known as helical piers, screw piers, screw anchors and torque anchors are ideal for deep foundation support applications where there is a need to resist both tension and axial compressive forces. Examples of these include expansive clay soils, solar panel foundations, utility towers and shoring. ECP light pole foundations are easy to install, can be installed in limited spaces and can be loaded or tested immediately upon installation making them very unique to the light pole foundation and electric utility industries.



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