



Foundation Supportworks Helical Piles, Tiebacks & Anchors		Ultimate Capacity Based Upon Torque ( kips - kN ) (1) (2)	Helix Bearing Plate Grade & Thickness ( in - mm )	Section Coupling Method	Building Code Certifications
<b>Round Corner Square Bar (RCS)</b>					
Model HA150	1.50 in - 38.1 mm ASTM A29 Yield Strength = 90 ksi (min)	Comp = 65 kips - 289 kN Ten = 65 kips - 289 kN	ASTM A572 Grade 50 0.375 in - 9.5 mm std 0.50 in - 12.7 mm opt	(1) 0.75 in - 19.1 mm Grd 8 Bolt	none
Model HA175	1.75 in - 44.5 mm ASTM A29 Yield Strength = 90 ksi (min)	Comp = 100 kips - 444 kN Ten = 100 kips - 444 kN	ASTM A572 Grade 50 0.375 in - 9.5 mm std 0.50 in - 12.7 mm opt	(2) 0.75 in - 19.1 mm Grd 8 Bolts	none
<b>Round Shaft</b>					
Model HP237	O.D. = 2.38 in - 60.3 mm Wall = 0.15 in - 3.9 mm ASTM A500 Grade B or C Yield Strength = 60 ksi (min)	Comp = 25 kips - 111 kN Ten = 25 kips - 111 kN	ASTM A572 Grade 50 0.313 in - 7.9 mm std	(2) 0.625 in - 15.9 mm 4325 Bolts	none
Model HP287	O.D. = 2.88 in - 73.0 mm Wall = 0.20 in - 5.2 mm ASTM A500 Grade B or C Yield Strength = 60 ksi (min)	Comp = 50 kips - 222 kN Ten = 50 kips - 222 kN	ASTM A572 Grade 50 0.375 in - 9.5 std 0.50 in - 12.7 opt	(2) 0.75 in - 19.1 mm Grd 8 Bolts	none
Model HP288	O.D. = 2.88 in - 73.0 mm Wall = 0.28 in - 7.0 mm ASTM A500 Grade B or C Yield Strength = 60 ksi (min)	Comp = 71 kips - 316 kN Ten = 71 kips - 316 kN	ASTM A572 Grade 50 0.375 in - 9.5 std 0.50 in - 12.7 mm opt	(2) 0.75 in - 19.1 mm Grd 8 Bolts	ICC ESR-3074 LA RR 25990 CCMC 13556-R
Model HP350	O.D. = 3.50 in - 88.9 mm Wall = 0.31 in - 8.0 mm ASTM A572 Sheet Coil Yield Strength = 65 ksi (min)	Comp = 112 kips - 498 kN Ten = 112 kips - 498 kN	ASTM A572 Grade 50 0.375 in - 9.5 std 0.50 in - 12.7 mm opt	(4) 1.00 in - 25.4 mm Grd 8 Bolts	none
Model HP450	O.D. = 4.50 in - 114.3 mm Wall = 0.34 in - 8.6 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 132 kips - 587 kN Ten = 132 kips - 587 kN	ASTM A572 Grade 50 0.375 in - 9.5 mm std 0.50 in - 12.7 mm opt	(4) 1.125 in - 28.6 mm Grd 5 Bolts	none
Model HP662	O.D. = 6.63 in - 168.3 mm Wall = 0.28 in - 7.1 mm ASTM A500 Grade B or C Yield Strength = 60 ksi (min)	(2)	ASTM A572 Grade 50 0.50 in - 12.7 mm std	(4) 1.75 in - 44.5 mm Grd 5 Bolts	none
Model HP700	O.D. = 7.00 in - 177.8 mm Wall = 0.36 in - 9.2 mm ASTM A252 Grade 3 Yield Strength = 70 ksi (min)	(2)	ASTM A572 Grade 50 0.50 in - 12.7 mm std	(4) 2.00 in - 50.8 mm A307 Bolts	none

(1) The values shown only address torque correlated soil capacity. Other mechanical limit states of the pile/anchor, its couplers, and its connections to the structure (brackets) may also govern the design capacity. Refer to the manufacturer's technical manual for further information."

(2) Large diameter helical piles develop capacity by a combination of both end-bearing and skin friction. The ultimate pile capacity is calculated based on the site-specific soil profile on a case-by-case basis. Load tests are often recommended for larger shaft sizes to identify a site-specific torque correlation factor (Kt), to determine the pile displacement versus load, and to verify the helical pile configuration.