



GoliathTech 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
Round Shaft					
GTPI178	O.D. = 1.875 in - 47.6 mm Wall = 0.154 in - 3.9 mm ASTM A500 Grade C	Comp = 19 kips - 85 kN Ten = 19 kips - 85 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std	0.50 in - 12.7 mm (2) Galvanized Grade 5 Bolts	CCMC 13675-R
GTPI238	O.D. = 2.375 in - 60.3 mm Wall = 0.154 in - 3.9 mm ASTM A500 Grade C	Comp = 32 kips - 142 kN Ten = 32 kips - 142 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std	0.50 in - 12.7 mm (2) Galvanized Grade 5 Bolts	CCMC 13675-R
GTPI278	O.D. = 2.875 in - 73.0 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 64 kips - 285 kN Ten = 64 kips - 285 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.50 in - 12.7 mm (2) Galvanized Grade 5 Bolts	CCMC 13675-R
GTPI312	O.D. = 3.500 in - 88.9 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 77 kips - 343 kN Ten = 77 kips - 343 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.50 in - 12.7 mm (2) Galvanized Grade 5 Bolts	CCMC 13675-R
GTPI412	O.D. = 4.500 in - 114.3 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 115 kips - 512 kN Ten = 115 kips - 512 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.50 in - 12.7 mm (3) Galvanized Grade 5 Bolts	none
GTPI5916	O.D. = 5.563 in - 141.3 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 212 kips - 943 kN Ten = 212 kips - 943 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm (3) Galvanized Grade 5 Bolts	none
GTPI658	O.D. = 6.625 in - 168.3 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 176 kips - 783 kN Ten = 176 kips - 783 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm (3-4) Galvanized Grade 5 Bolts	none
GTPI658X	O.D. = 6.625 in - 168.3 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 249 kips - 1108 kN Ten = 249 kips - 1108 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm (3-4) Galvanized Grade 5 Bolts	none
GTPI858	O.D. = 8.625 in - 219.1 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 229 kips - 1019 kN Ten = 229 kips - 1019 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm (4) Galvanized Grade 5 Bolts	none
GTPI858X	O.D. = 8.625 in - 219.1 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 329 kips - 1464 kN Ten = 329 kips - 1464 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm (4) Galvanized Grade 5 Bolts	none
GTPI1034	O.D. = 10.750 in - 273.1 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 242 kips - 1077 kN Ten = 242 kips - 1077 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm (4) Galvanized Grade 5 Bolts	none
GTPI1034X	O.D. = 10.750 in - 273.1 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 350 kips - 1557 kN Ten = 350 kips - 1557 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm (4) Galvanized Grade 5 Bolts	none
GTPI1234	O.D. = 12.750 in - 323.9 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 344 kips - 1530 kN Ten = 344 kips - 1530 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm (4) Galvanized Grade 5 Bolts	none
GTPI1234X	O.D. = 12.750 in - 323.9 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 501 kips - 2229 kN Ten = 501 kips - 2229 kN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm (4) Galvanized Grade 5 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.