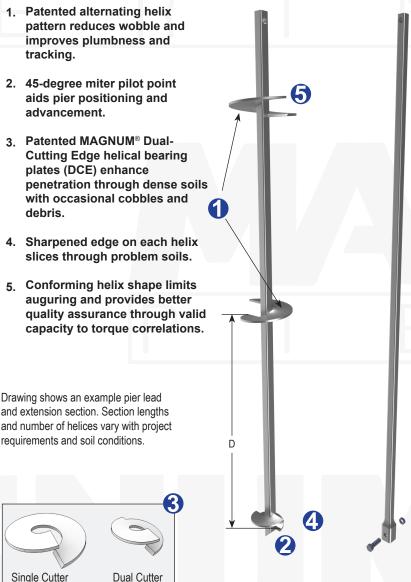
## MAGNUM® MS175B Helical Pier 52 Ton Ultimate - 26 Ton Allowable Capacity

High-Strength 1.75" Round-Corner Square Shaft with Forged Upset Coupler

Description: MAGNUM® Helical Piers offer a number of unique advantages as shown below. MAGNUM® products are manufactured in the USA according to our ISO 9001 approved Quality Program. Our Helical Piers utilize rigid bolted couplings to join extension sections and the lead section, extending the helical bearing plates down to the desired bearing stratum. Structural capacities are developed according to AISC 360 and ICC-AC358 considering buckling of 1 ft unbraced length after 75 years of corrosion in moderate to high aggressive soils. Various coatings, custom lengths and helix configurations are available upon request. See Magnum Technical Reference Manual for additional information.



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Single Cutter	Dual Cutter						
* Structural capacity of							
For compression appli order to achieve this c years of corrosion. St corrosion losses.	apacity. Structural o	capacity is	shown fo	r bare stee	I product af	fter 75	

\*\* Capacity shown is for multi-helix configurations. For single helix, limit ultimate capacity

Specifications				
Shaft	RCSS 1.75" x 1.75" ASTM A29 Fy = 90 ksi, or Better			
Bolts	(1) 1" Diameter SAE J429 Grade 8 Zinc Coated to ASTM B695/F1941			
Helices	1/2" Thick, Helix Die-Pressed ASTM A36, or Better 8", 10", 12" & 14" Diameters Available			
Spacing 'D'	25-1/2" TYP			
Pitch	3"			
Coating	Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP)			
Properties				
10 ft <sup>-1</sup>	Ultimate Capacity-to-Torque Ratio			
10,500 ft-lbs	Maximum Installation Torque			
Capacity by Torque				
** 52 Tons	Ultimate Capacity			
26 Tons	Allowable Capacity			
Structural Capacity				
* 58 Tons	Ultimate Capacity			
29 Tons	Allowable Capacity			

Notes: Helical piers shall be installed to appropriate depth into suitable bearing stratum as determined by geotechnical engineer or local practice. Capacity by torque is based on advancing pier to maximum installation torque. A minimum factor of safety of 2.0 is recommended for determining allowable capacity from correlations with final installation torque. Deflections of 0.5" are typical at allowable capacity; a higher factor of safety may be required to achieve smaller deflections. For tension capacity, helical bearing plates must be deeply embedded (5 ~ 7 x ave. helix diameter or as specified by geotechnical engineer). Load tests are recommended when practical.



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to 34 Tons.