

MAGNUM[®] MH637BR Helical Piles

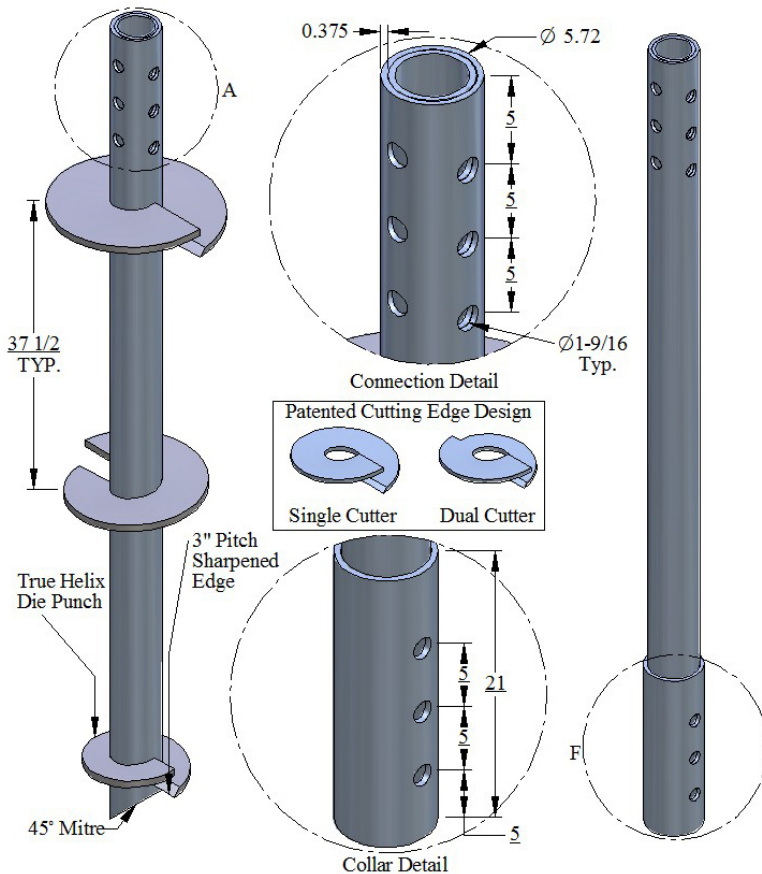
150 Ton Ultimate - 75 Ton Allowable

High-Strength 5.72" Diameter, 0.37" Wall, Round-Shaft with Dual-Sleeve Reinforced (R) Coupler & (3) 1.5" Bolts



Description

Magnum MH637BR Helical Piles have 150 tons ultimate capacity and 75 tons working capacity in compression and tension. Lead sections and extensions couple together to extend helical bearing plates to the desired bearing stratum. Round shafts offer increased lateral and buckling resistance compared to solid square shafts. Capacity calculations are based on average life expectancy of over 50 years for most soil conditions. Patented Magnum Dual-Cutting Edge helical bearing plates (DCE) enhance penetration through dense soils with occasional cobbles and debris. Custom lengths and helix configurations are available upon request. See Magnum Technical Reference Manual for additional information including design tools, prescriptive specifications and example plans.



| STEEL SPECIFICATIONS | |
|-----------------------------------|--|
| SHAFT | HSS 5.72 x 0.37 wall ASTM A513 65 KSI, or Equivalent |
| I | 19.94 in ⁴ |
| Ag | 5.54 in ² |
| S | 7.01 in ³ |
| COUPLING | 0.46" Wall Collar |
| BOLTS | (3) 1.25" Diameter SAE Grade 5 / ASTM A325 |
| BLADES | 0.875" Thick, Helix Die-Pressed ASTM A36, or Better |
| COATING OPTIONS | Hot-Dip Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP) |
| PROPERTIES | |
| 4.6 ft ⁻¹ | Ultimate Capacity-to-Torque Ratio |
| 65,000 ft-lbs | Maximum Installation Torque |
| STRUCTURAL CAPACITY | |
| 196 Tons | Ultimate Capacity |
| 98 Tons | Allowable Capacity |
| BY TORQUE - COMPRESSION & TENSION | |
| 150 Tons | Ultimate Compression & Tension |
| 75 Tons | Allowable Compression & Tension |

Lead - MHL6BR9C12S16D20SNG

Extension - MHE6BR9NG

6" Product Line Helical Bearing Plate Specifications & Available Configurations

0.875" Thick; ASTM A36 or Higher
3.00" Blade Pitch
12", 16", 20", 24" Diameter
Standard Circular Helix, or
Patented Dual Cutting Edge Helix

Sharpened Edges - All Helix

- *6 ft. Lead or Extension - up to 2 helical bearing plates
- *10 ft. Lead or Extension - up to 3 helical bearing plates
- *15 ft. Lead or Extension - up to 5 helical bearing plates
- * **Standard Stocking Length**

All Magnum Steel & Products Made in U.S.A.

Note: Helical piles 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 pile 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 0.05" to 1.0" are typical at allowable capacity. A higher factor of safety may be required for tolerable deflections. For tension capacity, helical bearing plates must be deeply embedded. Load tests are recommended when practical.

Magnum Piering, Inc.

6082 Schumacher Park Dr.
West Chester, OH 45069
800-822-7437
www.magnumpiering.com

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