

# MAGNUM<sup>®</sup> MHL325BR Reinforced Helical Piles

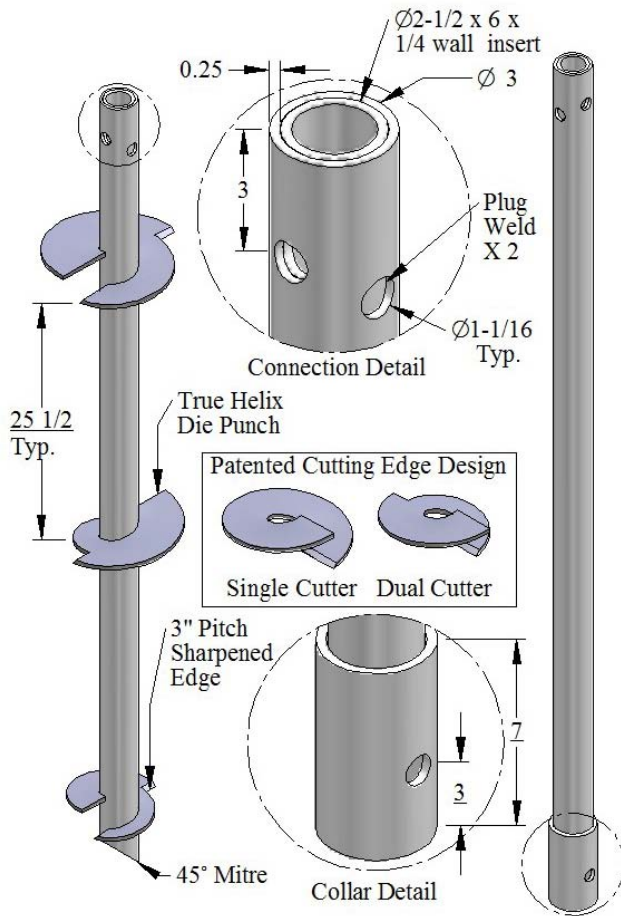
## 68 Ton End Bearing - 50 Ton from Torque

High-Strength 3" Diameter, .25" Wall, Round-Shaft  
Helical Piles with Rigid Coupler & (1) .875" Bolt



### Description

Magnum<sup>®</sup> MHL325BR Helical Piles have 50 tons ultimate capacity from torque and 25 tons working capacity in compression and tension. Lead sections and extensions couple together to extend helical blades to the desired bearing stratum. Round shafts offer increased lateral and buckling resistance compared to solid square shafts. Galvanized coating extends average life expectancy to over 100 years for most soil conditions. Patented Magnum<sup>®</sup> Dual-Cutting Edge Blades (DCE) enhance penetration through dense soils with occasional cobbles and debris. Custom lengths and blade configurations are available upon request. See Magnum<sup>®</sup> Technical Manual for additional information.



**Lead** - MHL325BR6A8D10D12DG

**Extension** - MHE325BRR6G

### 3" Product Line Helix Blade Specifications & Available Configurations

.375" Thick; ASTM A36 or Higher

3" Blade Pitch

8", 10", 12", 14" Diameter

Standard Circular Blade, or

Patented Dual Cutting Edge

**Sharpened Edges - All Blades**

\*3 ft. Lead or Extension - up to 2 blades

\*6 ft. Lead or Extension - up to 3 blades

\*12 ft. Lead or Extension - up to 6 blades

\*24 ft. Lead or Extension - up to 10 blades

\* **Standard Stocking Length**

STEEL SPECIFICATIONS	
SHAFT	HSS 3.00 x 0.25 wall ASTM A450 65 KSI, or Equiv.
I	1.99 in <sup>4</sup>
Ag	2.10 in <sup>2</sup>
S	1.33 in <sup>3</sup>
COUPLING	Outer .25" Sleeve with .25" Insert
BOLTS	(1) .875" Diam. SAE Grade 8 Thru
BLADES	.375" Thick, Helix Die-Pressed ASTM A36, or Better
COATING	Hot-Dip Galvanized to ASTM A153

CAPACITIES	
8 ft <sup>-1</sup>	Ultimate Capacity-to-Torque Ratio
12,500 ft-lbs	Maximum Torsional Strength
END BEARING - COMPRESSION	
68 Tons	Ultimate End Bearing Capacity
34 Tons	Allowable End Bearing Capacity
BY TORQUE - COMPRESSION & TENSION	
50 Tons	Ultimate Compression & Tension
25 Tons	Allowable Compression & Tension

**Note:** Helical piers shall be installed to appropriate depth into suitable bearing stratum as determined by geotechnical engineer or local practice. Maximum allowable capacity is based on installation to maximum torsional strength. Ultimate capacity is limit state. A minimum factor of safety of 2.0 is recommended for determining allowable capacity from correlations with final installation torque. Deflections of 1" are typical at allowable capacity. A higher factor of safety may be required for tolerable deflections. For tension capacity, blades must be deeply embedded. Load tests are recommended when practical.

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

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U.S. Patents 6,058,662 and 5,234,287; Other Patents Pending.

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