

# MAGNUM<sup>®</sup> MHL637B Xtreme Duty<sup>™</sup> Helical Piles

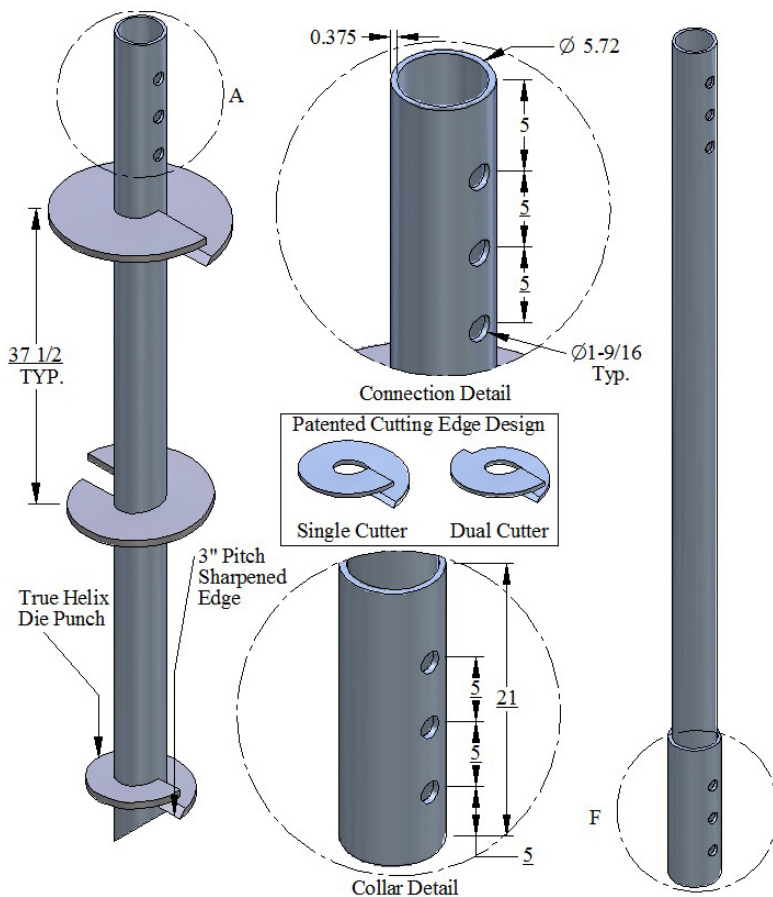
## 196 Ton End Bearing - 133 Ton from Torque

High-Strength 5.72" Diameter, 0.37" Wall, Round-Shaft  
Helical Piles with Rigid Coupler & (3) 1.5" Bolts



### Description

Magnum<sup>®</sup> MHL637B Xtreme Duty<sup>™</sup> Helical Piles have 133 tons ultimate capacity from torque and 67 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 - MHL6B9C12S16S20SNG

Extension - MHE6B9NG

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

0.875" Thick; ASTM A36 or Higher

3" Blade Pitch

12", 16", 20", 24" Diameter

Standard Circular Blade, or

Patented Dual Cutting Edge

**Sharpened Edges - All Blades**

\*6 ft. Lead or Extension - up to 2 blades

\*9 ft. Lead or Extension - up to 3 blades

\*18 ft. Lead or Extension - up to 6 blades

\* **Standard Stocking Length**

STEEL SPECIFICATIONS	
SHAFT	HSS 5.72 x 0.375 wall ASTM A450 65 KSI, or Equiv.
I	19.94 in <sup>4</sup>
Ag	5.54 in <sup>2</sup>
S	7.01 in <sup>3</sup>
COUPLING	0.46" Wall Collar
OPTIONAL BOLTS	(3) 1.5" Dia. A325 SAE Grade 5
BLADES	0.875" Thick, Helix Die-Pressed ASTM A36, or Better
OPTIONAL COATING	Hot-Dip Galvanized to ASTM A153/A123

CAPACITIES	
4.6 ft <sup>-1</sup>	Ultimate Capacity-to-Torque Ratio
58,000 ft-lbs	Maximum Torsional Strength
END BEARING - COMPRESSION	
196 Tons	Ultimate End Bearing Capacity
98 Tons	Allowable End Bearing Capacity
BY TORQUE - COMPRESSION & TENSION	
133 Tons	Ultimate Compression & Tension
67 Tons	Allowable Compression & Tension

**Note:** Helical piles 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 0.5" to 1.0" 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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