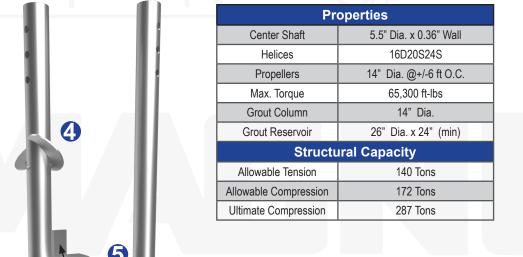
## MAGNATUDE® MG536Y-6 Propulsion Grout Piles Allowable Capacity 172 Tons - Ultimate Capacity 287 Tons

High-Strength 5.5" Diameter, 0.36" Wall, Center-Shaft with 14" Grout Column

**Description:** MAGNATUDE® Propulsion Grout Piles combine the unique benefits of helical installation with grouted displacement piles. MAGNUM® products are manufactured in the USA according to our ISO 9001 approved Quality Program. Our MAGNATUDE® piles utilize rigid bolted couplings to join extension sections and the lead section, extending the grout column and placing the helical bearing elements down to the desired bearing stratum. Structural capacities are developed according to AISC 360 and consider buckling length of 5 ft unbraced length. Grout displacement plates create an annular space which is filled by grout. Grout Propellers spaced along the pile shaft propelled the grout down to improve grout take. Grout is utilized as ground improvement, adhesion and corrosion protection only. Required depth of the pile depends on ground conditions and should be determined for each site by a design professional.

- 1. Patented Dual-Cutting Edge helical bearing plates (DCE) enhance penetration through dense soils with occasional cobbles and debris.
- 2. Patented Alternating Helix pattern reduces wobble and improves plumbness and tracking.
- 3. Displacement paddles in the helices create an annular space for the grout column.
- 4. Patented Grout Propellers force grout down into the annular space as the pile shaft rotates.
- 5. Evenly spaced Grout
  Propellers along the length of
  all extension sections ensure
  maximum grout take and true
  diameter of grout column.



Installation Notes: Begin by auguring a grout reservoir and fill with high-mobility neat cement or sanded grout. Case reservoir if needed to prevent caving and water intrusion. Install MAGNATUDE® propulsion grout piles through the reservoir. Displacement plates clear a path for the grout column. Propellers force grout to follow. Apply crowd and torque as needed to advance pile. Continuously supply grout to reservoir. Add extensions to reach required depth. Monitor and maintain position and desired inclination.



## **MAGNUM PIERING, INC.**

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