

MAXIMUM TORQUE. AUTOMATIC PERFORMANCE. BUILT FOR PRODUCTIVITY

When your installation demands extreme torque, controlled power, and uncompromising durability, the PierTech™ TA-300 delivers. Designed specifically for high-capacity helical pile installation, the TA-300 pairs a hydraulic gear and piston motor with a multistage planetary gearbox to produce up to 303,836 ft-lbs of actual maximum torque output.

With standard automatic two-speed shifting, integrated protection valves, and 98% efficient planetary gearing, the TA-300 is engineered to maximize productivity while protecting both the drive and your prime mover.

KEY FEATURES

- 303,836 ft-lbs Maximum Torque Output**
 Delivers the power required for large-diameter and deep helical installations.
- Standard Two-Speed Automatic Shifting**
 Eliminates manual electrical harnesses while optimizing speed and torque for maximum installation efficiency.
- Counterbalance & Pressure Relief Valves (Standard)**
 Integrated protection safeguards the drive, motor, and hydraulic system during demanding applications.
- 98% Efficient Planetary Gear System**
 Multistage planetary gearbox design delivers smooth, quiet transmission and superior torque multiplication.
- Hardened Steel Connection Pins**
 Standard across all drives for maximum durability and strength in the field.
- Optional Link Arm for Full Articulation**
 Enhances positioning flexibility and installation accuracy.
- Multiple Prime Mover Mounting Options**
 Available in standard and custom configurations to match a wide range of skid steers and excavators.
- Developed for Versatility**
 Engineered to perform with a wide range of prime movers and hydraulic systems.
 - Warranty Protection - 2 year gearbox and 1 year motor warranty for peace of mind

KEY FEATURES

The TA-300 is ideal for:

- High-capacity helical pile installation
- Deep foundation applications
- Large shaft and multi-helix configurations
- Commercial and heavy industrial projects

Designed to maximize productivity while maintaining control, the TA-300 helps contractors install faster, safer, and with greater confidence.



General Information	
Prime Mover Weight Class	55 - 70 t
Max Hydraulic Pressure	5,000 PSI (345 Bar)
Max Hydraulic Flow	100 GPM (378 LPM)
Motor Ports	-20 Code 62
Shift Pressure	3,500 PSI (241 Bar)
Gearbox Shaft Pullout Rating	67,400 Lbs
Gearbox Oil Capacity	15.3 Gallon (58 Liter)
Gearbox Oil Type	SAE 80W90
Output Shaft	200mm Square
C - Model Specifications (Center Mount)	
Overall Height	78" (1981mm)
Overall Width	54" (1372mm)
Weight	6,800 lbs (3,085Kg)
Connection	Excavator Plate

All output speed and torque specifications are theoretical. Torque values are calculated assuming 80% system efficiency; however, actual performance will vary based on the overall efficiencies of the prime mover's hydraulic system. This document is intended for informational and comparative purposes only. For application-specific criteria and recommendations, please contact PierTech for engineering guidance.



DRIVEN BY INNOVATION

Precision. Speed. Reliability.

For pile driving contractors tackling the most demanding projects—PierTech delivers engineered deep foundation systems designed to perform in tough soils, tight schedules, and critical infrastructure environments. From transmission corridors and industrial plants to oil & gas facilities and heavy commercial builds, our systems eliminate concrete delays, reduce mobilization, and keep crews moving.

BUILD FASTER BUILD SMARTER

- Faster installs with smaller crews
- No concrete, no curing delays
- Proven performance in poor soils & high water tables
- Low vibration, minimal site disruption
- Engineered, tested, and made in the USA



WE DESIGN

- Value engineering services
- Geotechnical reviews
- Engineered drawings, PE-stamped



WE MANUFACTURE

- Helical piers, grouted piles, anchors & grillage
- Installation Equipment



YOU INSTALL

- Contractor-friendly systems with training, support, and fast lead times

TOGETHER WE SUCCEED