

EXTREME TORQUE. BUILT FOR THE TOUGHEST JOBS.

When your installation requires exceptional torque and dependable performance, the PierTech™ 150K Hercules Helical Drive Head delivers the power needed to install high-capacity helical piles with confidence. Designed specifically for demanding foundation applications, the 150K Hercules combines a radial piston motor with a heavy-duty multistage planetary gearbox to generate up to 147,000 ft-lbs of maximum torque output.

With a standard two-speed drive system, integrated pressure relief and energy control valves, and a compact high-torque gearbox, the 150K Hercules is engineered to provide consistent installation performance while protecting both the drive head and the host machine. Built for durability in the toughest soil conditions, it delivers the controlled power contractors need to maximize productivity and complete challenging helical pile installations efficiently.

KEY FEATURES

- 2 Speed drive system
- Compact high torque Digga manufactured gearbox
- Engineered hood & ears for maximum strength
- Extreme duty shaft locking system
- No complex hoses, valving or filtration
- Built-in Pressure Relief Valve standard
- Energy Control relief Valve - Prevents rapid decompression of oil caused by the reverse energy created by pile kick-back
- The highest volumetrically efficient motor available - Maintain consistent and efficient pile installation throughout your working day
- 1yr Gearbox & 1yr Motor Warranty



Properties & Specifications	
Max Torque (FT LBS)	147,335
Max Pressure	3,500 PSI @ 100 GPM
Max Flow	100 GPM @ 3,500 PSI
Max Horse Power	201
Pressure Relief Valve	Included
Energy Control Valve	Included
Standard Output Shaft	130mm Square
Mount	
Weight (LBS)	2633
Overall Length (in)	70"
Diameter (in)	24"

Output Speed		
GPM	HI TORQUE LOW SPD	LOW TORQUE HIGH SPD
12	1	2
20	1	3
28	2	4
36	3	5
44	3	6
52	4	8
60	4	9
68	5	10
76	6	11
84	6	12
92	7	13
100	7	15

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