

STANDARD HELICAL DRIVE HEADS

20,000 FT LBS - 30,000 FT LBS



PierTech's Standard Helical Drive Heads were designed specifically for helical pier or pile installation. Designed by real-world engineers who understand the demands of the foundation industry, these drive heads are designed to perform under the most strenuous environments. Their design also allows them to run at the highest efficiency rates so that they will perform dependably for years.

FEATURES

- High efficiency bell geroler hydraulic motors with integrated Pressure Relief Valve, ensures max volumetric efficiency for consistent & efficient pile installation throughout the working day
- More linear feet in the ground = greater returns
- ICV (Inertia Control Valve) to prevent rapid decompression of oil, caused by the reverse energy created by Pile Kick-back
- Engineered hood & ears for maximum strength
- Extreme duty shaft retaining system
- No Case Drain required
- 3yr Gearbox & 2yr Motor Warranty



Need Torque from a lower pressure? No problem.

Two pressure series are available to suit your requirements

Standard pressure series, for machines with 3500 PSI. Low Pressure series, for machines with 3000 PSI

PREMIUM ANCHOR DRIVES

MODEL	STANDARD PRESSURE - 3500 PSI			LOW PRESSURE - 3000 PSI	
	20HDH	25HDH	30HDH	20HDH-LP	25HDH-LP
Nominal Torque (FT LBS)	19,488	24,514	30,771	21,012	26,375
Recommended Flow (Gpm)	26-56	26-56	26-56	26-56	26-56
Max Pressure - Do Not Exceed	3500psi @ 33gpm	3500psi @ 33gpm	3500psi @ 33gpm	3000psi @ 33gpm	3000psi @ 33gpm
Max Flow - Do Not Exceed	61gpm @1800psi	61gpm @1800psi	61gpm @1800psi	61gpm @1800psi	61gpm @1800psi
Max Horse Power	67	67	67	67	67
Pressure Relief Valve	Included	Included	Included	Included	Included
Inertia Control Valve	Included	Included	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square	100mm Square	100mm Square
Weight (lbs)	640	640	640	640	640
Overall Length (in)	45.3"	45.3"	45.3"	45.3"	45.3"
Diameter (in)	14"	14"	14"	14"	14"

STANDARD HELICAL DRIVE HEADS

20,000 FT LBS - 30,000 FT LBS



OUTPUT SPEED & TORQUE

20HDH - STANDARD PRESSURE - 3500 PSI				25HDH - STANDARD PRESSURE - 3500 PSI				30HDH - STANDARD PRESSURE - 3500 PSI			
OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE	
GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS
26	14	1,500	8,340	26	11	1,500	10,550	26	9	1,500	13,185
29	16	1,700	9,450	29	13	1,700	11,955	29	10	1,700	14,945
32	18	1,900	10,565	32	14	1,900	13,365	32	11	1,900	16,705
35	19	2,100	11,675	35	15	2,100	14,770	35	12	2,100	18,460
38	21	2,300	12,790	38	17	2,300	16,175	38	13	2,300	20,220
41	23	2,500	13,900	41	18	2,500	17,580	41	14	2,500	21,980
44	24	2,700	15,010	44	19	2,700	18,990	44	15	2,700	23,735
47	26	2,900	16,125	47	20	2,900	20,395	47	16	2,900	25,495
50	28	3,200	17,235	50	22	3,200	21,800	50	17	3,200	27,255
53	29	3,300	18,340	53	23	3,300	23,210	53	18	3,300	29,010
		3,500	19,500			3,500	24,600			3,500	30,800

20HDH-LP - LOW PRESSURE - 3000 PSI				25HDH-LP - LOW PRESSURE - 3000 PSI			
OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE	
GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS
12	5	1 000	7 004	12	4	1 000	8 792
16	7	1 200	8 405	16	6	1 200	10 550
20	9	1 400	9 806	20	7	1 400	12 308
24	11	1 600	11 207	24	8	1 600	14 067
28	12	1 800	12 607	28	10	1 800	15 825
32	14	2 000	14 008	32	11	2 000	17 583
36	16	2 200	15 409	36	13	2 200	19 342
40	18	2 400	16 810	40	14	2 400	21 100
44	19	2 600	18 211	44	15	2 600	22 858
48	21	2 800	19 611	48	17	2 800	24 617
53	23	3 000	21 012	53	18	3 000	26 375

Output speed and torque specifications are THEORETICAL. Speed and torque output are dependent on the overall system efficiencies associated with the prime movers hydraulic system. This document should be used for information and comparative purposes only. When determining criteria, & application specific information is required, please contact PierTech.