

STANDARD HELICAL DRIVE HEADS

13,000 FT LBS - 16,000 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

	STANDARD PRESSURE - 3500 PSI		LOW PRESSURE - 3000 PSI	
MODEL	13HDH	16HDH	13HDH-LP	16HDH-LP
Nominal Torque (FT LBS)	12,808	16,111	10,978	13,810
Recommended Flow (Gpm)	26-56	26-56	26-56	26-56
Max Pressure - Do Not Exceed	3500psi @ 33gpm	3500psi @ 33gpm	3000psi @ 33gpm	3000psi @ 33gpm
Max Flow - Do Not Exceed	61gpm @2300psi	61gpm @2300psi	61gpm @2300psi	61gpm @2300psi
Max Horse Power	67	67	67	67
Pressure Relief Valve	Included	Included	Included	Included
Inertia Control Valve	Included	Included	Included	Included
Standard Output Shaft	3" Hex	3" Hex	3" Hex	3" Hex
Weight (lbs)	370	370	370	370
Overall Length (in)	39.6"	39.6"	39.6"	39.6"
Diameter (in)	11.4"	11.4"	11.4"	11.4"

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OUTPUT SPEED & TORQUE

13HDH - STANDARD PRESSURE - 3500 PSI				16HDH - STANDARD PRESSURE - 3500 PSI			
OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE	
GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS
26	22	1,500	5,490	26	17	1,500	6,960
29	24	1,700	6,220	29	19	1,700	7,885
32	27	1,900	6,955	32	21	1,900	8,815
35	29	2,100	7,685	35	23	2,100	9,740
38	32	2,300	8,415	38	25	2,300	10,670
41	34	2,500	9,150	41	27	2,500	11,600
44	37	2,700	9,880	44	29	2,700	12,525
47	39	2,900	10,615	47	31	2,900	13,455
50	42	3,200	11,345	50	33	3,200	14,380
53	44	3,300	12,075	53	35	3,300	15,310
		3,500	12,800			3,500	16,200

13HDH-LP - LOW PRESSURE - 3000 PSI				16HDH-LP - LOW PRESSURE - 3000 PSI			
OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE	
GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS
12	8	1 000	4 603	12	6	1 000	5 778
16	11	1 200	5 524	16	8	1 200	6 934
20	13	1 400	6 444	20	11	1 400	8 089
24	16	1 600	7 365	24	13	1 600	9 245
28	19	1 800	8 286	28	15	1 800	10 401
32	21	2 000	9 206	32	17	2 000	11 556
36	24	2 200	10 127	36	19	2 200	12 712
40	27	2 400	11 048	40	21	2 400	13 867
44	29	2 600	11 968	44	23	2 600	15 023
48	32	2 800	12 889	48	25	2 800	16 179
53	35	3 000	13 810	53	28	3 000	17 334

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.