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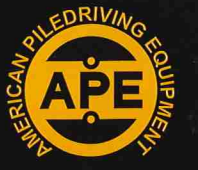
APE HD™ HELICAL PILES

DEEP FOUNDATION SOLUTIONS

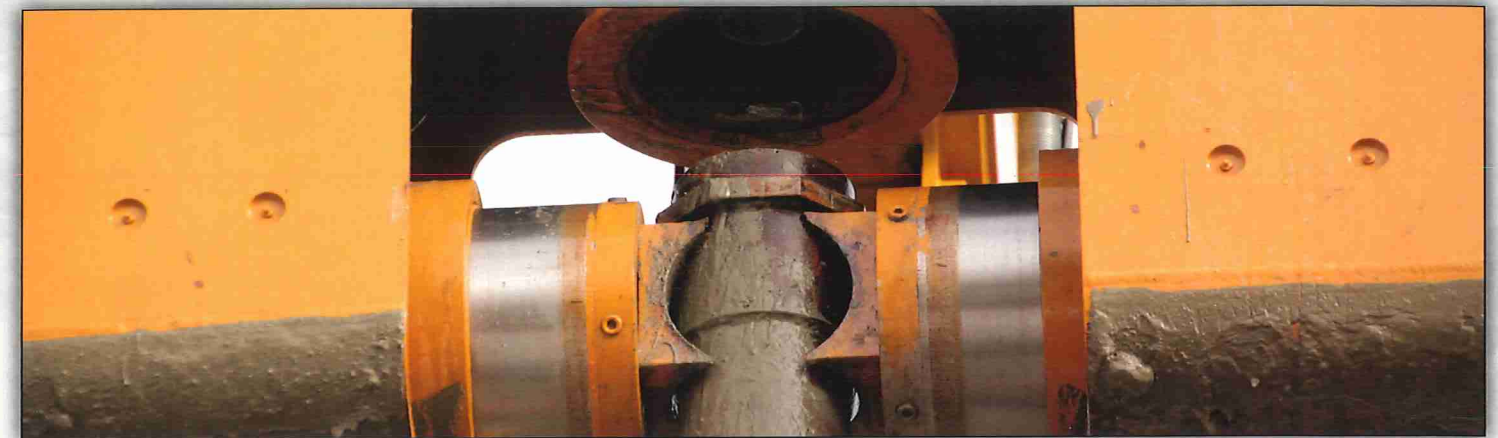
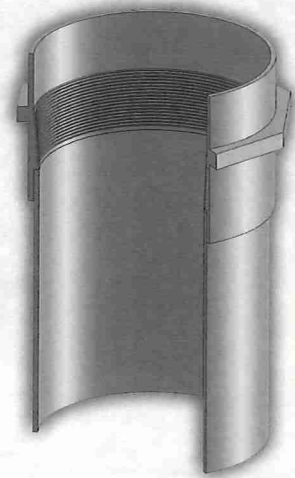


The APE product line is protected by, but not limited to the following patent numbers:
5088565A, 5117925A, 5263544A, 5529132A, 5544979A, 5609380A, 5653556A,
5794716A, 6039508A, 6386295B1, 6427402B1, 6431795B2, 6447036B1, 6543966B2,
6648556B1, 6672805B1, 6732483B1, 6736218B1, 6896448B1, 6908262B1, 6942430B1,
6988564B2, 7168890B1, 7392855B1, 7694747B1, 7708499B1, 7824132B1, 7854871B1,
7913771B2, 7950876B2, 7950877B2, 8070391B2, 8181713B2, 8186452B1, 8434969B2,
8496072B2, 2009020055A1. For a more detailed information and a more comprehensive
list of APE patents please visit the website at www.apevibro.com/ver2/APEPatents.asp.

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THREADED COUPLER WITH SOCKET DRIVE TECHNOLOGY

- COUPLERS WITH THE APE PATENTED THREAD CONNECTION ELIMINATES MAKE UP PAST THE MIDPOINT
- ADD UNLIMITED ADDITIONAL PILE SECTIONS
- ALL CUT OFF COUPLERS ARE PROPERTY OF APE

SHAFT SECTION

- DOM SEAMLESS API CASING
- SHAFT SECTIONS FROM 4 TO 40 FOOT LENGTHS

GEO-EXCHANGE TECHNOLOGY

- APE HD² HELICAL PILE MATERIAL CAN BE USED WITH APE PATENT PENDING CLSCW TECHNOLOGY TO HEAT AND COOL STRUCTURES USING THE STEEL PILE FOUNDATION AND A GROUND SOURCE HEAT PUMP

THREADED ENDS

- ADD UNLIMITED ADDITIONAL PILE SECTIONS

HELICAL PLATES

- 1 HELIX FOR EACH PILE, OR MULTIPLE 10" TO 36" O.D. CLOCKWISE HELICAL PLATES
- 1/2" TO 2.0" THICK
- PITCH 4" TO 12"
- TENSILE STRENGTHS FROM 50,000 PSI TO 100,000 PSI

PILE TIPS

- VARIOUS OPEN ENDS
- VARIOUS CLOSED END DIGGING TIPS
- GEO-EXCHANGE DOUBLE-PLATED CLOSED-END
- TIPS FOR GROUT INJECTION

SHAFT SECTION SPECIFICATIONS

API in lbs / ft	Units	API 13.5	API 23	API 29	API 53	API 60	API 68
Diameter	in	4.5	5.5	7	9.625	11.75	13.375
	mm	114.30	139.70	177.80	244.48	298.45	339.73
Thickness	in	0.290	0.415	0.403	0.472	0.489	0.514
	mm	7.37	10.54	10.24	11.99	12.42	13.06
Inside Diameter	in	3.92	4.67	6.184	8.681	10.772	12.347
	mm	99.57	118.62	157.07	220.5	273.61	313.61
Area (A)	in ²	3.83	6.63	8.45	13.57	17.30	20.77
	mm ²	2,471	4,277	5,451	8,756	11,161	13,400
Section Modulus (Z)	in ³	3.79	7.84	13.16	33.40	46.76	60.51
	mm ³ / 10 ³	62.18	128.50	215.70	547.50	766.30	991.80
Moment of Inertia (I)	in ⁴	8.54	21.57	46.07	160.80	274.70	404.70
	mm ⁴ / 10 ⁶	3.55	8.98	19.18	66.93	114.40	168.50

Yield API L-80 to API P-110 (80,000 to 110,000 psi) - API ISO Certified Manufacturer

