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# APE HD™ DRIVERS

## 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, 20090200055A1. For a more detailed information and a more comprehensive  
 list of APE patents please visit the website at [www.apevibro.com/ver2/APEpatents.asp](http://www.apevibro.com/ver2/APEpatents.asp).

**800-248-8498**  
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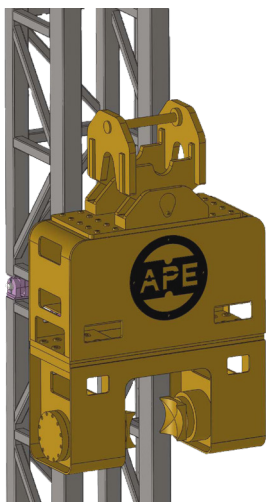
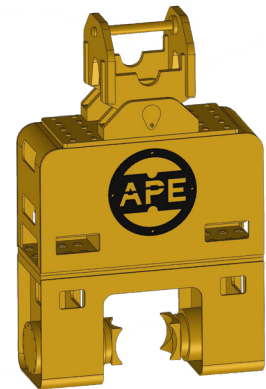


# APE HD™ DRIVERS

APE has pioneered excavator mounted drivers that handle the pile from the ground into position, and easily connect threaded sections. These high power systems (up to 300,000 ft-lb of torque) are powerful fast systems that show up to the job ready to work after unloading from the trailer. No more power unit, this equipment is self-contained and can be attached to rental equipment in a couple hours with no intrusion into the electrical or hydraulic systems of the excavator.

## THROUGH-HOLE-GROUT CAPABILITY

- Install dry or wet (grouted) for additional capacity
- Grout during installation to create soil mixing around entire piles
- Grout post installation with the APE patented push out tip
- Post installation grouting creates Caltrans approved micro pile
- Grouted helical pile for soil arching walls with grout injection
- Depth and grout data logging



## VERSATILITY

- Mount to Skid, Excavator or lead
- Down the Hole Hammer
- Auger Attachment
- Light, fast crews



HD DRIVERS									
Type		HD40	HD50	HD50L	HD70	HD80	HD150	HD200	HD375
Low Speed High Torque	Torque ft-lbs (kg-m)	7,119 per 1,000 psi (641 per 69 bar)	7,700 per 1,000 psi (1,065 per 69 bar)	7,700 per 1,000 psi (1,065 per 69 bar)	12,122 per 1,000 psi (1,676 per 69 bar)	14,528 per 1,000 psi (2,009 per 69 bar)	26,727 per 1,000 psi (3,695 per 69 bar)	40,029 per 1,000 psi (5,534 per 69 bar)	79,757 per 1,000 psi (11,027 per 69 bar)
	Max Pressure	5,000 psi (345 bar)	4,500 psi (310 bar)	4,500 psi (310 bar)	4,640 psi (320 bar)	5,075 psi (350 bar)	5,000 psi (345 bar)	5,000 psi (345 bar)	4,700 psi (324 bar)
	Rotation Speed	105 rpm	38 rpm	38 rpm	30 rpm	29 rpm	27 rpm	18 rpm	6.5 rpm
	Max Flow gpm (lpm)	55 @ 1.11 gal/rev (208 @ 4.20 lit/rev)	100 @ 2.65 gal/rev (379 @ 10 lit/rev)	100 @ 2.65 gal/rev (379 @ 10 lit/rev)	120 @ 3.96 gal/rev (454 @ 14.99 lit/rev)	145 @ 4.99 gal/rev (549 @ 18.89 lit/rev)	250 @ 9.31 gal/rev (946 @ 35.24 lit/rev)	250 @ 13.9 gal/rev (946 @ 52.7 lit/rev)	225 @ 34.6 gal/rev (852 @ 131.1 lit/rev)
	Max Horse Power	240 hp (186kW)	180 hp (196 kW)	180 hp (196 kW)	325 hp (242 kW)	429 hp (320 kW)	700 hp (522 kW)	700 hp (522 kW)	464 hp (346 kW)
High Speed Low Torque	Torque ft-lbs (kg-m)	3,560 per 1,000 psi (420 per 69 bar)	N/A	N/A	5,758 per 1,000 psi (796 per 69 bar)	7,267 per 1,000 psi (1,005 per 69 bar)	N/A	N/A	35,957 per 1,000 psi (4,971 per 69 bar)
	Max Pressure	3,000 psi (207 bar)	N/A	N/A	3,000 psi (207 bar)	5,075 psi (350 bar)	N/A	N/A	4,700 psi (324 bar)
	Rotation Speed	210 rpm	N/A	N/A	61 rpm	58 rpm	N/A	N/A	9 rpm
	Max Flow gpm (lpm)	55 @ .55 gal/rev (208 @ 2.61 lit/rev)	N/A	N/A	120 @ 1.66 gal/rev (454 @ 6.28 lit/rev)	145 @ 2.46 gal/rev (549 @ 9.31 lit/rev)	N/A	N/A	130 @ 14.4 gal/rev (492.1 @ 54.6 lit/rev)
	Max Horse Power	96 hp (72 kW)	N/A	N/A	210 hp (157 kW)	429 hp (320 kW)	N/A	N/A	290 hp (216 kW)
Weight (w/Clamp) <small>* = No Clamp</small>	4,800 lb (2,177 kg)	4,725 lb (2,143 kg)	3,800 lb* (1,723 kg*)	8,640 lb (3,919 kg)	8,440 lb (3,828 kg)	11,850 lb (5,374 kg)	14,500 lb (6,576 kg)	17,500 lb (7,938 kg)	
Depth	29.5 in (749 mm)	25 in (635 mm)	25 in (635 mm)	24 in (610 mm)	24 in (610 mm)	24 in (610 mm)	29.5 in (749 mm)	53.2 in (1,352 mm)	
Width	42 in (1,067 mm)	53 in (1,499 mm)	53 in (1,499 mm)	61 in (1,549 mm)	61 in (1,549 mm)	61 in (1,549 mm)	70 in (1,778 mm)	86 in (2,184 mm)	
Height <small>** = No Clamp</small>	70 in (1,778 mm)	89 in (2,261 mm)	59 in* (1,499 mm)	99 in (2,515 mm)	97 in (2,464 mm)	109 in (2,769 mm)	120 in (3,048 mm)	137 in (3,480 mm)	
Minimum Excavator Capacity Example Listed	44,000 lb (19,958 kg) CAT 320D	44,000 lb (19,958 kg) CAT 320D	44,000 lb (19,958 kg) CAT 320D	56,440 lb (25,601 kg) CAT 320E	56,440 lb (25,601 kg) CAT 320E	117,500 lb (53,297 kg) CAT 349E	156,000 lb (70,760 kg) CAT 374D	Consult Factory	

\* Equipment weight for HD50L models does not include clamp

<sup>1</sup> Torque specs are based on motor supplier data

<sup>2</sup> Speed and flow are based on typical excavator setup

## LOW-HEADROOM CONFIGURATION

- Low overhead operations down to 6 feet
- Powerful light power units move easily
- Smaller diameter hoses are easier to handle
- Most efficient low overhead pile in the business
- Operate with light, fast crews

