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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, 2009020005A1. 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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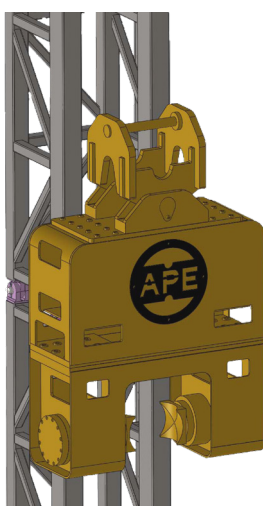
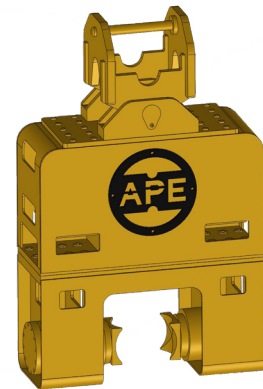
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APE HD™ DRIVERS

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-PILE-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

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



| HD DRIVERS | | 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 (1005 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> | | 4800 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 (1352 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

¹ Torque specs are based on motor supplier data

² 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

