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**APE MODEL 85
PILEDIVING RIG**
**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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ENGINE

Maker	Cummins Inc
Model	QSL 9(intercooler, Turbo-charger)
Type	Water cooled, 4 cycle, 6 cylinder, direct fuel injection
Rated output	261kw(350hp)/1900rpm
Fuel Tank Capacity	370L(98gal)

MAIN PUMP 2

Maker	Kawasaki P.M. Ltd
Type	Variable-displacement type, axial piston double pump with power regulation
Rated Capacity	Max.313L/min @1900rpm
Operating Pressure	Max. 330kg/cm ² (294bar)(4267psi)
Used in Operation	For driving vibro, auger, or hammer

MAIN WINCH

Maker	SAI S.P.A.
Type	Fixed displacement type piston motor with counterbalance valve
Operating Pressure	Max. 210kg/cm ² (206bar)(2987psi)
Reduction Gear	One stage planetary gears
Drum	One drive shaft-one drum
Clutch	Internal expanding friction band type
Brakes	External expanding friction band type
Drum Lock	Pawl and ratchet wheel type
Lifting Capacity	100kn(10,200kgf)(22,500lb)
Rated Lifting Load	49kn(5,000kgf)(11,000lb)
Rope	φ 22mm x 140m, IWRC6 x Fi(29)1910N/mm2

THIRD WINCH

Third Drum Line Speed (high/low)	27.1m/min
Maker	TMA Ltd
Operating Pressure	Max. 270kg/cm ² (265bar)(3840psi)
Reduction Gear	Planetary gears with reduction rate 1:74
Brakes	Multi negative brake and counterbalance valve
Lifting Capacity	100kn(10,200kgf)(22,500lb)
Rated Lifting Load	49kn(5,000kgf)(11,000lb)
Rope	φ 22mm x 130m, IWRC6 x Fi(29)1910N/mm2

MAIN PUMP 1

Maker	Kawasaki P.M. Ltd
Type	Variable-displacement type, axial piston double pump with power regulation
Rated Capacity	Max. 2x123L/min @1900rpm
Operating Pressure	Max. 320kg/cm ² (314bar)(4550psi)
Used in Operation	For driving base machine

GEAR PUMP

Maker	Bosch Rexroth
Type	Fixed displacement type triple gear pump
Rated Capacity	Max.245L/min @1900rpm
Operating Pressure	Max. 3.5kg/cm ² (3.4bar)(50psi)
Used in Operation	For oil cooler

AUXILIARY WINCH

Maker	SAI S.P.A.
Type	Fixed displacement type piston motor with counterbalance valve
Operating Pressure	Max. 210kg/cm ² (206bar)(2987psi)
Reduction Gear	One stage planetary gears
Drum	One drive shaft-one drum
Clutch	Internal expanding friction band type
Brakes	External expanding friction band type
Drum Lock	Pawl and ratchet wheel type
Lifting Capacity	100kn(10,200kgf)(22,500lb)
Rated Lifting Load	49kn(5,000kgf)(11,000lb)
Rope	f 22mm x 140m, IWRC6 x Fi(29)1910N/mm2

Swing Speed	2rpm
Travel Speed	0.4-0.75mph



SPECIFICATIONS

General Dimension	m/ft
Max. Leader Height (with hammer)	24.9/81.8
Max. Leader Height (with vibro)	21.9/71.8
Max. Leader Height (with auger)	21.9/71.8
Max. Pile Length (with hammer)	16/52
Max. Pile Length (with vibro)	15/50
Max. Pile Length (with auger)	15/50

- Standard three line cable configuration.
- New Age APE Technology makes set up in 10 minutes.
- Simple push button hammer to vibro and quick hitch to equipment means versatility.
- Cab based gauges for higher efficiency during pile installation.
- Telescoping, front riding leader for work in cofferdams.
- 45 degree leader rotation for pile orientation.

