



Piling Equipment available from

The No.1 Supplier of piling equipment for installing plastic piling, trench sheeting and timber piles

Aldridge Piling Equipment



APE has the most extensive range of piling equipment suited to installing trench sheeting and Plastic Sheet Piling. The range includes the UK largest range of Double acting air hammers, hand held hydraulic hammers, DCP Excavator Mounted vibrators, pneumatic extractors.

APE are extremely pleased to be soon expanding the range to include

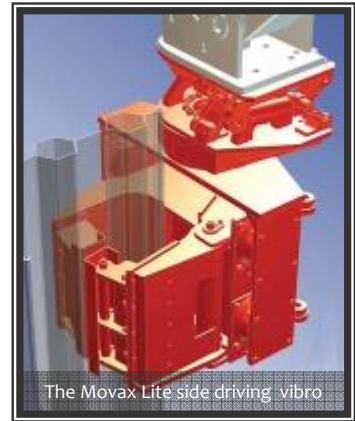
the Movax Lite range, APE suspended vibrators, compactor plates, Hydraulic Impact hammers, and the long awaited APEX vibro-impact



Hand held Hydraulic Impact Hammers



Excavator Mounted Vibrators



The Movax Lite side driving vibro



Double acting air Hammers



APE Mini-Suspended vibrators



Mini Excavator Piling Attachments



Double acting air Hammers



APEX Vibro-impact Attachments

Double acting air hammers

The APE Mini Hammers

These are small air powered impact hammers, design and built by APE, they have become the Industry Standard hammer for waterways applications for the installation of steel trench sheeting, plastic piling, tubes, beams, barrier posts and timber piles. These are the smallest purpose built pile drivers in the world with weights starting at 90 kgs. These units are available for sale or hire.



Description	Units	APE No.1	APE No.2
Energy per blow (Theoretical)	Kg.m	21.7	52.3
Frequency	bpm	445	442
Piston Weight	Kgs	11	26
Piston Stroke	mm	102	150
Weight	kgs	90	270
Height	mm	1000	1200
Air flow required	cfm	125	125
Air pressure	psi	90	90

Traditional Double acting air hammers (Hire only)

In addition to the APE Mini hammers APE offers the widest range of air hammers for hire any where in the UK. If you have hired an air hammer before most likely it came from APE. The se hammer whilst originally designed for trench sheeting are suited to installing hot rolled sections, timbers and other steel sections. Air hammers are ideally suited to installing sheets into hard, dense or cohesive soils, and as a result tend to function as a back up to our vibratory devices.



Description	Units	BSP 300	Copco 400	MKT500	500N	600N	700N
Energy per blow	kgm	46	40	138	165	415	650
Frequency (Blows per minutes)	bpm	400	310	300	330	250	225
Piston mass	kg	31	35.5	91	90.7	227	385
Piston stroke	mm	146	140	178	229	305	330
Total weight	kgs	454	750	920	1143	2177	3006
Height Max	mm	1600	1600	1920	1933	2273	2419
Anvil Sizes available	in	8,14	9,14,18	14,18	14,18,22,28	18,22,28	18,22,28
Sheet overlap (Approximate)	ft	1	3	3	3	3	3
Max pile depth (inside hammer)	in	4	9	4	11 1/2	16	20
Air flow required	cfm	125-150	125-150	250	250	500	600
Air pressure required	psi	90	90	90	90	90	90
Hoses fitting options		3/4	3/4	2x 3/4 or 1 1/2 "	1 1/2" - 2" BSP	1 1/2" - 2" BSP	1 1/2" - 2" BSP

Excavator Mounted Vibrators

Excavator Mounted vibratory hammers

These are small vibrators with double eccentrics to ensure powerful vertical vibrations. These units are purpose built excavator attachments, converting the hydraulic power of the excavator into powerful bi-direction vibration. These vibrators are classed as high frequency and so provide lower levels of ground vibration, and due to their low noise levels are the industry standard equipment for the installation and extraction of trench sheeting and plastic piling.

Combined with APE manufacturing ability a wide range of timbers and tubular piles can be driven through the use of pile caps. In terms of synthetic piling, these vibrators can be used directly on some products, or indirectly through pile caps and mandrels.

APE offer a range of DCP and ICE vibrators, that can be attached to excavators from 5 tonnes through to 30 tonnes in weight. The ICE vibrators are of the more popular B design, so slightly taller in use and so better suited to lap sheets. The Ice vibrators prove most useful when working near obstructions as their clamps can be rotated enabling piles to be driven as close as 250mm away.



Specification	Units	EMV70	ICE 230B	ICE 328B	EMV300
Eccentric Moment	Kgm	0.7	2.2	3.2	4.6
Force	kN	70	220	275	300
Frequency	Rpm	3000	3500	2800	2400
Amplitude	mm	3.4	8	11	14.6
Max Static force allowed	kN	28	60	60	80
Hydraulic Power	kW	12	38	47	52
Pressure min/max	Bar	240/350	210/350	210/350	240/350
Flow required	lpm	30-120	90-105	110-120	130-250
Weight	Kg	530	940	940	860/940
Excavator Size	Tonnes	5-20	13-24	18-30	13-30
Max Pile mass	kg	800	800	800	800





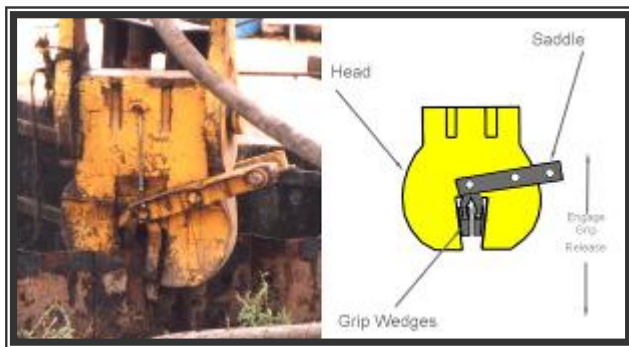
Air powered Impact Extractors

Zenith and Tractomat Impact Extractors

These are maintained within our fleet for those who still prefer to operate dedicated air powered extractors. However, since the inclusion of vibratory hammers in our fleet, which on the whole are far more efficient extractors, the use of this equipment is in demise, this is especially the case with the Zenith 20 extractor.

This has been further affected by the use of mobile excavators as the primary lifting equipment. The Zenith extractors require a substantial pull and typically operate best off a crawler crane.

The Tractomat Mini extractors still prove very popular since they are substantially smaller than the smallest vibrators available and so can gain access to sites with weight restrictions. Likewise the Zenith 80 extractor, when used with a crane does offer a powerful alternative to our vibrators.



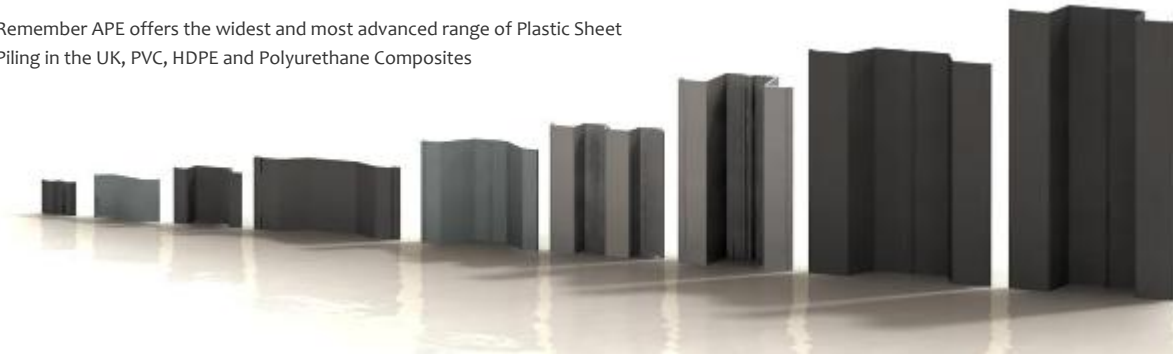
Specifications	Units	T IV	Zenith20	Zenith80
Blows per minute		300	500	350
Energy per blow	ft.lb	75	83	345
Compressor Size	cfm	250	250	600
Supply pressure	psi	90	90	90
Max pull	ton	5	10	20
Min Pull	ton	1-2	3	6
Weight	kgs	195	1000	2500
Overall length	mm	1500	2000	2570
Depth of jaw	mm	110	120	140
Depth of body	mm	200	310	310
Depth of jaw	mm	310	460	550
Length of jaw	mm	600	540	650
Width of body	mm		450	640
Width of jaw	mm		600	690
Max sheet thickness	mm	15	10	10





Plastic Piling Specific Products

Remember APE offers the widest and most advanced range of Plastic Sheet Piling in the UK, PVC, HDPE and Polyurethane Composites



Ramming Plate Attachments

Whilst not strictly piling equipment, these attachments normally used for compaction are actually pretty good at driving short lengths of trench sheeting and plastic piling, usually lengths shorter than 3m.

What these devices lack in power and verticality, they gain in control, as conventional excavator mounted vibrators pivot—to prevent clamp overload. This extract control enables the operator to exert more pushing force, which in the case of plastic sheet piling greatly speeds up installation.



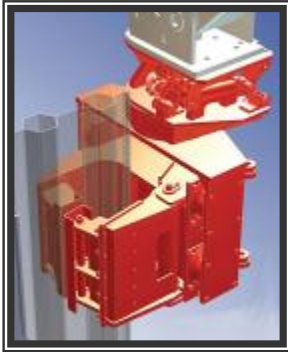
Atlas Copco post/sheet driver

This has been introduced into the range primarily for plastic sheet piling in applications where equipment needs to be small and portable, such as the domestic market and Wildlife Trust.

The device is portable with its own hydraulic power pack, the unit does weigh 29 kgs, and so is still where feasible a two man lift. However, this is both substantially less than our APE No.1 and at the same substantial enough that the device remains on the pile rather than hopping off the pile. To install plastic piling a cap or interface is used, to work with timber piles the unit with the cap will fit 100mm diameter posts—ideal for MultiLock.

Specifications	Weight	Blows per minute	Flow required	Pressure
PD1	28.8kgs	1500	23-30 lpm	140 Bar

Coming soon



The Movax Lite Side Grip

This is the new version of the award winning Movax side grip. The ML range is purpose built for non-operated plant hire, as the units can be fitted to any excavator rather than the dedicated machines required by the SP range.

The ML range has been designed exclusively for the installation of light trench sheeting, plastic sheet piling, tubular piles and timber piles.

APE are the exclusive UK distributors of the New Movax Lite

Model	Vibratory force kN	Min Engine Power required	Excavator Size tonnes
ML-8	80	20	4-7
ML-15	150	40	7-8

Material	Shape	Measurements (mm)
Steel	Sheet Pile	Depth 140mm Max
	Tube	Diameter 80-300
Plastic	Sheet Pile	Depth 140
	Tube	Diameter 100-300
Timber	Post	100-300



The APE Suspended Piling Vibrators

The APE 3 & 6 are the worlds smallest piling vibrators, purpose built for driving light plastic sheet piling.

The APE vibros feature two patented one piece helical gear/eccentric eliminating keyways, pins, splines and bolts inside the gear case.

The design also has a low centre of gravity to minimise pile damage.

Specifications	Units	Model 3	Model 6
Vibratory Force	kN	27	68
Frequency	rpm	3000	3000
Clamp force	kN	106	214
Max Line Pull	kN	44	44
Weight	Kg	320	320
Length	mm	470	630
Width at Throat	mm	152	152
Height	mm	914	914



The APEX

The APEX is the result of 10 year of research and development; the design concept was based around providing the first real alternative to our popular air hammers. The APEX soon became more than that, as it is capable of switching between an impact mode to a vibration mode at the push of a button.

The APEX is a modern attachment designed to suit excavators size of 17-25 tonnes. The first unit is under construction and will enter the hire fleet soon.

Specification	Units	APEX VI4
Cylinder force	kN	210
Vibration frequency	Hz	50
Vibration amplitude	mm	1.2
Impact frequency	Hz	6
Impact Stroke	mm	12
Weight	kgs	1200
Flow requirements	l/min	80
Working Pressure	bar	210
Max Pressure	bar	350