



EXCAVATOR MOUNTED PRODUCT RANGE

DIESEKO GROUP



PILING & VIBRO EQUIPMENT

AN INTRODUCTION TO **DIESEKO GROUP** FOUNDATION EQUIPMENT

Established in 1974, Dieseko Group represents several brands in the foundation equipment industry, in four product lines: Piling Equipment, Piling & Drilling Rigs, Ground Improvement and Power Packs. In the US market the company represents two brands: PVE Piling & Vibro Equipment and Woltman Piling & Drilling Rigs.

Dieseko Group engineers develop foundation equipment in accordance with the latest regulations. The experienced engineers in the sales and rental department have a profound knowledge of the equipment and are always standing by to advise clients on their specific needs. Spare parts are in stock for all machines, which can be shipped quickly to dealers and clients worldwide, to avoid downtime on projects. Service engineers are available 24/7 to support clients on site. With over 60 dealers and branches worldwide, Dieseko Group is a reliable partner for all foundation contractors for consultation, sales, rental and financing.

DIESEKO GROUP PILING EQUIPMENT



VIBRATING

NORMAL FREQUENCY



PRESSING

OFFSHORE



RESONATING

VARIABLE MOMENT



PILE DRIVING

EXCAVATOR MOUNTED



DRILLING





EXCAVATOR MOUNTED VIBRATORY HAMMERS

APPLICATIONS

- Highly efficient for general driving, extracting and soil compaction work
- Compact and light-weight for difficult access projects
- Low noise for urban area use
- Variable moment series for resonance free operating in vibration sensitive locations

ADVANTAGES

- Excellent quality
- Easy maintenance
- Easy to mount to almost all types of excavator
- High push/pull forces increase driving performance
- Goose neck for increasing working height and driving longer piles
- Swivel head series for single-operator use
- Hoses and clamps safety facilities
- Improves the profitability of the excavator
- Wide range of clamping solutions

DIESEKO GROUP

- Known for robust and reliable equipment
- Over 40 years experience with a proven track record
- 24/7 worldwide support
- Large spare parts inventory
- World's largest rental fleet
- Consultancy and financing
- ISO 9001 certified



URBAN



RURAL



HARBOR



PVE MULTIPURPOSE USAGE

MAXIMUM VARIETY, MINIMUM DISTURBANCE

An PVE excavator mounted vibratory hammer is used to drive or extract a variety of steel profiles; sheet piles, 'H' beams, and 'I' beams and with the larger excavator mounted vibrators fitted with double clamps, casings and tubular piles can be driven. Another application is soil compaction work. Our vibrators have a very narrow throat width that allows you to carry out staggered sheet piling, and with a wide range of hammers and clamps we have the solution for all types of steel, wood and concrete piles and soil conditions.

The PVE excavator mounted series causes minimal ground vibrations due to its high frequency of approximately 2300 rpm and up. An additional range of resonance free models allows you to drive steel piles without disturbance on vibration-sensitive projects.

Their extreme flexibility, due to the excavator powering, makes this kind of vibratory hammer our most agile piece of equipment - especially in compact spaces.

SELECTING THE RIGHT EXCAVATOR

To determine the correct excavator to use, as a guide, calculate that only 60 to 70 percent of the installed power in the excavator will be available to drive the vibratory hammer. This percentage can be compared with the required hammer power.

When the maximum oil pressure and maximum oil flow are unknown or not available, please use the following table as a guide to match the excavator mounted vibratory hammer with the correct excavator.*

Weight excavator	Type vibratory hammer
< 20t	PVE 2803, 2804
20t - 25t	PVE 2804
25t - 30t	PVE 2804 / 2506, 6VMA
> 30t	PVE 2506, 6VMA / 2308, 8VMA 1223, 12VMA / 23VMA

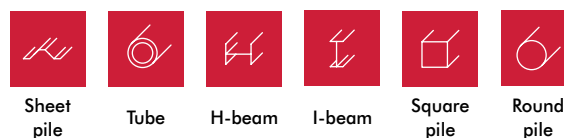
* Please consult our expert for specific information

EXCAVATOR MOUNTED SERIES

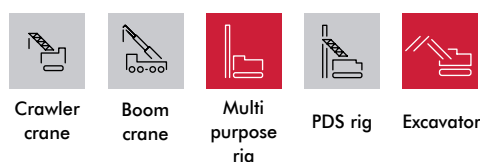
PVE offers a range of four different vibratory hammer models:

- Standard series: standard excavator mounted vibratory hammers
- VMA series: excavator mounted with variable moment
- SH series: excavator mounted with swivel head
- VMA/SH series: with variable moment & swivel head

Suitable piling profiles



Suitable cranes





CHOOSING THE RIGHT MODEL

Choosing the right vibrator for a job depends on soil conditions, the type of pile and the driving depth. The vibratory hammer also has to be matched to the excavator. PVE can supply you with the right attachment for the excavator's boom.

CARBON FOOTPRINT

Sustainability is embedded in our R&D, processes and products. Vibration piling is an environmentally friendly foundation technique, as vibrations cause minimal noise and ground disturbance.

PVE equipment is developed and produced in accordance with the latest regulations. Together we can minimise your carbon footprint.

The vibrator is connected to the boom's hydraulic connections by two hoses. A third hose is the drain oil line. The vibratory hammer is simply controlled by the excavator operator with one lever. All excavator mounted hammers in the resonance free series are equipped with an electrical remote control unit.

The PVE swivel head vibratory hammer can be tilted to a 90 degree angle. The operator can grab sheet piles stored on the ground and drive them directly without any other handling operations.

The combination of high frequencies, oil flow and working pressure makes this hammer suitable for mounting on practically any excavator with a sufficient oil flow, at a maximum operating pressure of 350 bar. The hammer can be attached to an excavator using two different types of forks or a head plate. An additional goose neck can increase working height by approximately 2 m for handling and driving longer steel profiles.



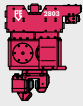
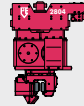
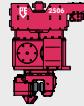
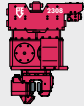
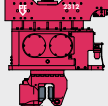
PRODUCT RANGE HIGH FREQUENCY



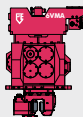

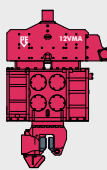
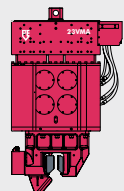
COMPACT AND POWERFUL VIBRATORY HAMMERS

Mounted on hydraulic excavators for optimised mobility and agility, this high frequency range is ideal for projects in compact spaces and urban areas.

HIGH FREQUENCY VIBRATORY HAMMERS

						
		2803	2804	2506	2308	2312
Eccentric moment	in-lbs	278	399	521	695	998
Max. centrifugal force	ton	31	44	46	49	75
Max. frequency	rpm	2,800	2,800	2,500	2,300	2,300
Max. amplitude *)	in	0.34	0.40	0.52	0.67	0.48
Max. static line pull	ton	13	13	13	13	20
Max. oil flow	gpm	30	44	53	49	87
Hydraulic power	kW/HP	65/89	98/133	117/159	108/147	190/259
Dynamic weight *)	lbs	1,631	1,984	2,006	2,072	4,167
Total weight *)	lbs	2,039	2,27	2,293	2,337	5,247
L x W x H *)	in	44.4 x 20.5 x 55.7	44.4 x 25.4 x 59.1	44.4 x 25.4 x 59.1	44.4 x 25.4 x 59.1	60.6 x 17.1 x 73.6
Recommended sheet pile clamp		DWK 40TU	DWK 60TU	DWK 60TU	DWK 60TU	DWK 100TU
Recommended tube clamp		-	-	-	-	PPK 55TC
Recommended pile clamp		PLK 60T40	PLK 60T40	PLK 60T40	PLK 60T40	PLK 120T40

RESONANCE FREE HIGH FREQUENCY VIBRATORY HAMMERS

					
		6VMA	8VMA	12VMA	23VMA
Eccentric moment	in-lbs	564	651	1,041	2,000
Max. centrifugal force	ton	42	49	79	135
Max. frequency	rpm	2,300	2,300	2,300	2,300
Max. amplitude *)	in	0.42	0.48	0.49	0.60
Max. static line pull	ton	13.4	13.4	22.5	30
Max. oil flow	gpm	37	49	69	143
Hydraulic power	kW/HP	81/110	108/147	152/207	327/446
Dynamic weight *)	lbs	2,667	2,722	4,277	7,606
Total weight *)	lbs	2,733	2,788	4,905	9,921
L x W x H *)	in	45.6 x 23.4 x 67.4	45.6 x 23.4 x 67.4	59.8 x 26.5 x 62.9	51.2 x 31.1 x 71.3
Recommended sheet pile clamp		60TU	60TU	100TU	160TU
Recommended tube clamp		-	-	PPK 55TC	PPK 80T
Recommended pile clamp		PLK 60T40	PLK 60T40	PLK 120T40	PLK 120T40

* including clamp

PRODUCT RANGE HYDRAULIC CLAMPS

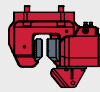


CLAMPS & TOOLS

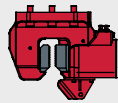
There are a variety of clamps and other tools that can be connected to the excavator mounted vibratory hammer. PVE has developed a wide range of clamping systems and beams for driving sheet piles, tubular piles of varying dimensions, concrete piles and even wooden and vinyl piles.

- **DWK series:** sheets pile clamps for single or double sheets and H-beams
- **PPK series:** tube clamps for tubes or multiple sheets
- **PLK series:** pile clamps for concrete, wooden and steel tubes or piles
- **DWCK series:** concrete sheet pile clamps on request
- **Goose neck:** to drive longer piles
- **Mounting bracket:** connection between excavator and hammer, can be turned through 360°
- **Hydraulic rotator:** to rotate the hammer up to 360°

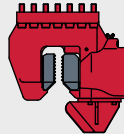
SHEET PILE CLAMPS



DWK 40TU



DWK 60TU



DWK 100TU

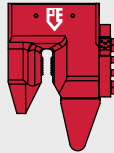
Clamping force	ton	45	67	113
Working pressure	psi	4,640	4,640	4,640
Weight	lbs.	330	550	1,065
L x W x H	in	25 x 10 x 17	25 x 13 x 20	27 x 12 x 28



TUBE CLAMPS



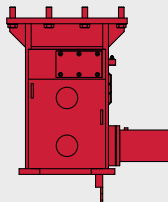
PPK 55T



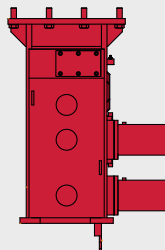
PPK 80T

Clamping force	ton	62	90
Working pressure	psi	4,350	4,350
Weight	lbs.	690	1,100
L x W x H	in	20 x 13 x 18	23 x 14 x 25

PILE CLAMPS



PLK 60T40



PLK 120T40

Clamping force	ton	67	135
Working pressure	psi	4,350	4,350
Weight	lbs.	2,740	3,640
L x W x H	in	47 x 25 x 45	47 x 25 x 58





GLOBAL SERVICE NETWORK

Dieseko Group B.V.
(headquarters)
Lelystraat 49
3364 AH Sliedrecht, the Netherlands
Tel: (+31) 184 410 333
info@diesekogroup.com
www.diesekogroup.com

Woltman Piling & Drilling Rigs
(service & manufacturing)
Ambachtsweg 16
3381 LN Giessenburg, the Netherlands
Tel: (+31) 184-652044
info@woltmanrigs.com
www.woltmanrigs.com

Woltman Piling & Drilling Rigs
(sales & manufacturing)
Everdenberg 17
4902 TT Oosterhout, the Netherlands
Tel: (+31) 184-430900
info@woltmanrigs.com
www.woltmanrigs.com

PVE Equipment USA Inc.
5011 Vernon Road
Jacksonville, FL 32209, USA
Tel: (+1) 904 765 66 86
info@pve-equipment.com
www.pve-equipment.com

Pilequip Pty. Ltd.
39 Chapman Road
Vineyard NSW 2765, Australia
Tel: +61 2 9838 3144
info@pilequip.com.au
www.pilequip.com.au

Shanghai ICE Construction Equipment Trading Company
No. B8, Building 31, ChuanSha International Industrial Garden,
6999 ChuanSha Road, PuDong District,
201202 Shanghai, P.R. China
Tel: (+86) 21 3468 8990
info@icevibro.com
www.icevibro.com

Dieseko Brasil
Rua Cícero Dantas,
42 - CEP 06713-230 - Cotia - SP Brasil
Tel: (+55) 11 996 545 097
info@diesekogroup.com
www.diesekogroup.com

Dieseko Group certified dealer: