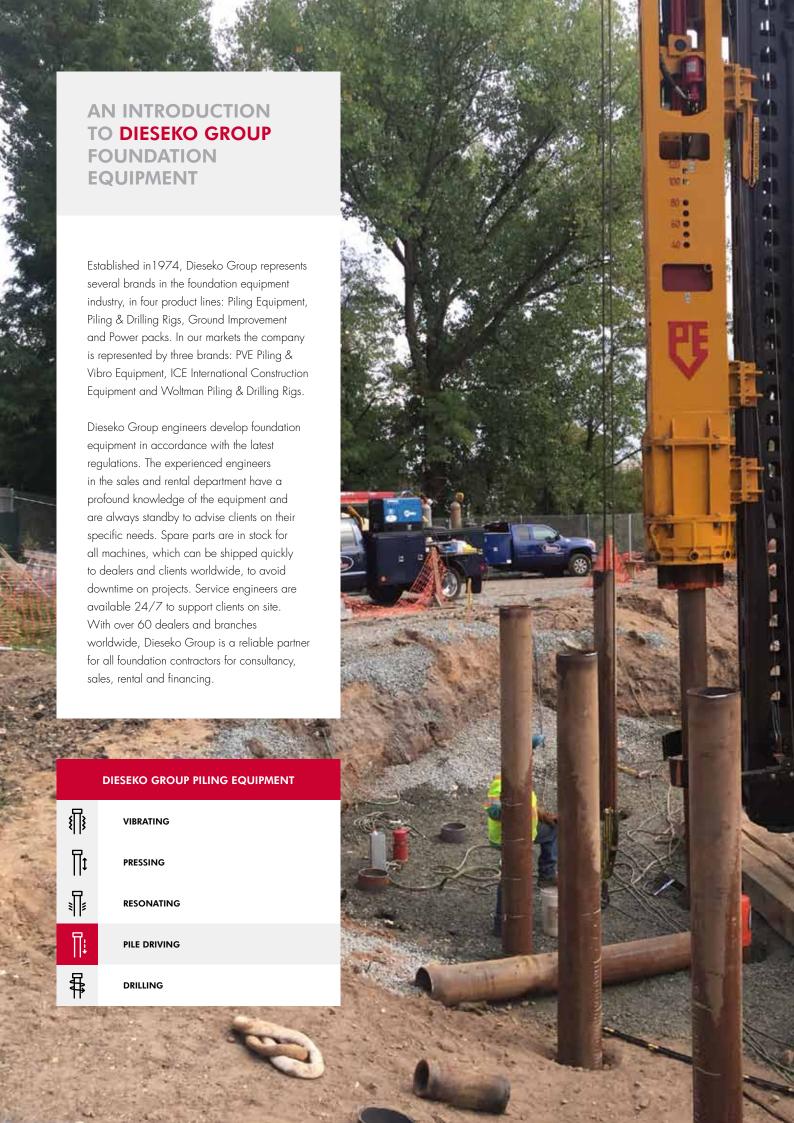


HYDRAULIC IMPACT HAMMERS PRODUCT RANGE









PILE SLEEVES & DRIVE CAPS

For every type of piling works PVE offers a wide range of drive caps and pile sleeves. In case of special projects PVE has the possibility to develop custom made pile sleeves.

PVE drive caps and sleeves are suitable for the following applications:

- Precast concrete piles
- Timber piles
- Steel casing piles
- Steel profiles (H and U beams)
- Steel and concrete sheet piles
- Combined sheet pile walls
- Cast-in-situ concrete piles

MAXIMUM PERFORMANCE WITH MINIMUM GROUND VIBRATIONS

ACCELERATED

PVE NL series impact hammers are accelerated to guarantee high performance. The accelerated PVE impact hammers ensure efficient pile driving operations and high production rates. The impact energy is adjustable for an optimal setting in relation to pile type, pile diameter and soil stiffness. The PVE NL series impact hammers are manufactured according high quality standards and with A-brand components. The PVE NL series impact hammers are well known for their long lifetime and high efficiency.

SOUNDPROOF

Especially in urban areas several challenges need to be taken into consideration when it comes to piling works. PVE recognizes the importance of the continuity of piling works while taking the surrounding area and neighbours into account. PVE offers a very sophisticated insulating system for the PVE NL impact hammer range. With the sound insulating system sound reductions up to 10 dB are possible compared to a standard impact hammer. PVE NL impact hammers are continuously subject to further developments for sound proofing and efficiency.

MEASURESTRIKE SYSTEM

Quality and accuracy of your piling works, PVE clearly understands the wishes of the client, their principals and engineers. For this reason we are offering the MeasureStrike system. The MeasureStrike system registers and reports for each pile number pile tip depths, the pile blow energy, pile driving time and blow count. The integrated WiFi application assists the operator in transferring data from the piling operations fast and easy to another device for information exchange. Piling data therefore is available anytime and can be shared within seconds.

Suitable cranes for normal frequency applications



Crawler

crane



crane







Piling rig

PDS rig

xcavator

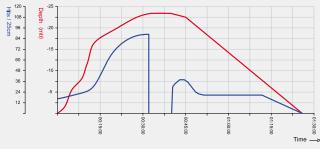
EXAMPLE OF A TYPICAL READ-OUT OF THE PVE MEASURESTRIKE SYSTEM

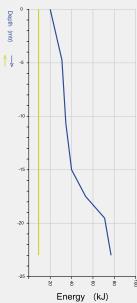
These details are based upon the installation of cast-in-situ driven piles as per mentioned data.

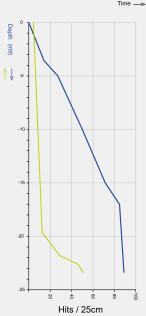
| Project name | Everdenberg | End t |
|--------------|-----------------|---------|
| Location | Oosterhout (NL) | Total |
| Contractor | VVT Piling | Pile le |
| Piling by | VVT | Pile d |
| Piling Rig | PV80-112-5021 | Plate |
| Start time | 10.08:16 | Piling |

| End time | 11:32:58 |
|----------------|--------------|
| Total duration | 01:24:42 |
| Pile length | 23,2 mtr |
| Pile diameter | 508 mm |
| Plate diameter | 610 mm |
| Piling system | Cast-in-situ |

Timediagram









HYDRAULIC IMPACT HAMMERS



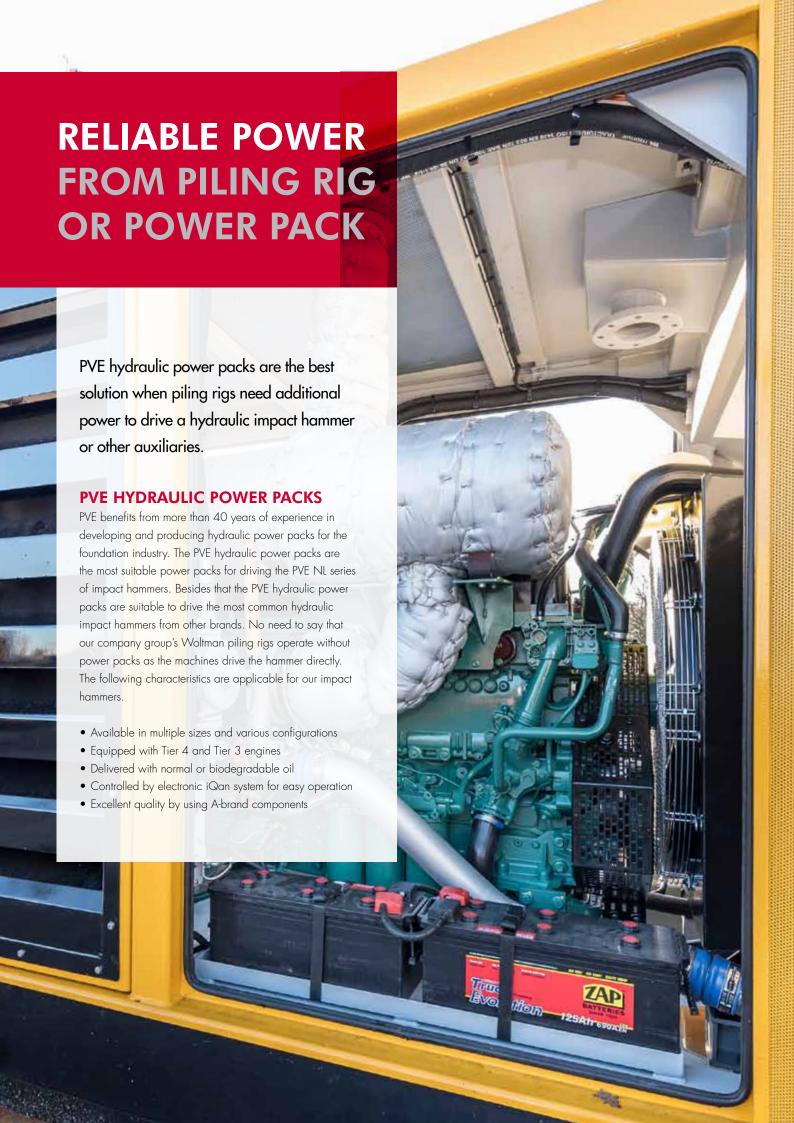
MODULAR

PVE offers a wide range of hydraulic impact hammers. Because the required capacity of the hammers varies as a result of different pile types, sizes and soil conditions the possibility of adjusting the blow energy is a main advantage. Therefore the PVE hydraulic impact hammers are built in a modular configuration. The PVE impact hammer therefore is easy adjustable by added drop weights in case required. For example a transformation of a PVE 4 NL impact hammer into a PVE 6 NL impact hammer is possible within only a few hours. The modular system is applicable on the complete range of PVE impact hammers.

HYDRAULIC IMPACT HAMMERS

| | | E ES PVE SNL | E>PVE 4NL | CHE EXPVESAL - | BPVE GNL | → B>PVE7NL | E>PVE 9NL | E> PVE 10NL | ED PVE 12NL | ES PVE 14NL | E>PVE16NL | E>PVE18NL |
|----------------------------------|--------|----------------|----------------|----------------|-------------------|-----------------|-----------------|------------------|---------------------|------------------|--------------|---------------------|
| Maximum potential energy | kJ | 3 NL 43 | 4 NL 57 | 5 NL 72 | 6 NL 86 | 7 NL 101 | 9 NL 127 | 10 NL 155 | 12 NL 212 | 14 NL 247 | 16 NL 282 | 18 NL 318 |
| Maximum net. energy | kJ | 36 | 48 | 60 | 72 | 84 | 106 | 129 | 177 | 206 | 235 | 265 |
| Maximum stroke | mm | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Minimum stroke | mm | 100 | 100 | 100 | 100 | 100 | 100 | 200 | 200 | 200 | 200 | 200 |
| Blowrate at max. stroke | bl/min | 40 | 40 | 40 | 40 | 40 | 40 | 30 | 30 | 30 | 30 | 30 |
| Ram weight | ton | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 12 | 14 | 16 | 18 |
| Hammer weight incl. drive cap *) | ton | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 13,9 | 16,9 | 18,9 | 21,2 | 24,6 | 28 |
| Maximum pressure | bar | 140 | 155 | 165 | 1 <i>7</i> 5 | 185 | 235 | 150 | 170 | 200 | 230 | 260 |
| Required oilflow | l/min | 390 | 390 | 390 | 390 | 390 | 390 | 650 | 650 | 650 | 650 | 650 |
| Length indication | mm | 5020 | 5390 | 5760 | 6130 | 6500 | 6870 | 6800 | 7200 | 7700 | 8200 | 8700 |
| Max. width indication | mm | 940 | 940 | 940 | 940 | 940 | 940 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Max. height indication | mm | 940 | 940 | 940 | 940 | 940 | 940 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Recommended power pack | | 250 NL | 250 NL | 250 NL | 250 NL | 250 NL | 250 NL | 500 NL | 500 NL | 500 NL | 500 NL | 500 NL |





HYDRAULIC POWER PACKS



POWER PACK RANGE

For the PVE NL series impact hammers PVE recommends the 250 NL and 500 NL hydraulic power pack. Besides these two types PVE offers a wide range of power packs suitable to drive vibratory hammers, vibroflots, offshore impact hammers, rotary heads, dredging pumps and other auxiliaries. For more information reference is made to the Dieseko Group website or additional brochures.

HYDRAULIC POWER PACKS

| | | | I . | | ı | |
|-----------------------|-------|------------------------|------------------------|-------------------------|-------------------------|--|
| | | 250 | 250 | U 500 | ए | |
| | | 250 NL | 250 NL | 500 NL | 500NL | |
| Diesel engine | | Volvo Penta TAD 753 GE | Volvo Penta TAD 872 VE | Volvo Penta TAD 1352 GE | Volvo Penta TAD 1374 VE | |
| Emission standard | | Stage 3A | Stage 4 | Stage 3A | Stage 4 | |
| Max. power | kW/HP | 212/288 | 210/286 | 363/494 | 375/510 | |
| Max. fequency | rpm | 1800 | 2200 | 1800 | 1900 | |
| Max. working pressure | bar | 250 | 250 | 250 | 250 | |
| Max. oil flow | l/min | 390 | 290 | 750 | 750 | |
| Operational weight | kg | 4700 | 4920 | 7100 | 7100 | |
| $L \times W \times H$ | mm | 3670 × 1600 × 2070 | 3670 x 1600 x 2070 | 4460 x 1750 x 2310 | 4460 x 1750 x 2310 | |
| | | | | | | |





PROFESSIONALS IN THE FIELD





The modular system of the PVE NL series hydraulic impact hammers enables the modification from, for example, a PVE 4 NL hammer into a PVE 6 NL within only a few hours. By adding extra drop weight the standard PVE NL impact hammer is adjustable for heavier piling works.



The PVE NL series impact hammers are very suitable for every application of driven piles. Besides the most common application of driven precast concrete piles the PVE hydraulic impact hammers are also very suitable for driving cast-in-situ concrete piles. Temporary casings can be driven by the PVE hydraulic impact hammer to the required depth and extracted by the piling rig with or without support from a ring vibrator. PVE is also manufacturer of high performance ring vibrators.





PVE offers large PVE NL series impact hammers suitable for heavy piling works. Large steel casing piles, combined sheet piling walls and offshore mono piles can be driven efficient and fast by the larger impact hammers. Also large PVE impact hammers are built according the modular system which gives the opportunity to increase the impact hammer capacity when required.



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