

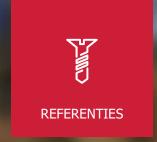
DIESEKO GROUPMENU











DIESEKO GROUPMENU

INTRODUCTION

HISTORY

AMBITIONS

ORGANIZATION

BRANDS









INTRODUCTION

THIS IS DIESEKO GROUP

- Dieseko is the global player in the foundation technology market based in the Netherlands
- Products marketed under brands ICE, PVE and Woltman
- Shareholder of



- Clear focus on foundation equipment
- World leader in vibratory equipment

DIESEKO GROUP

Netherlands

USA

Singapore

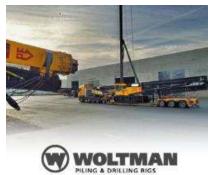
China

Brasil

Australia







INTRODUCTION

THIS IS DIESEKO GROUP

- Turnover 2018: € 89 Mio
- 200 employees worldwide
- 7 branches worldwide
- 60 dealers worldwide





DIESEKO GROUPMENU

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POWER UNITS B.V.

OFFSET GENERATOR SETS+TRILBLOKKEN

ICE

 1977 Founding ICE – Amsterdam as an importer of American vibratory hammers

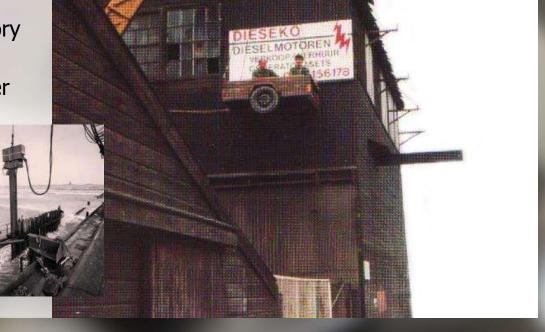


1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 2016 2017

 1978 Dieseko moves to Papendrecht and becomes a dealer of foreign vibratory hammers

1979 ICE produces first vibratory hammer





1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 2016 2017

- 1983 Dieseko moves to Sliedrecht Where it is still based
- 1983 ICE equipment is used on the construction of the Delta Works
- 1985 Dieseko focuses on its own manufacturing plant: VIP -Versluis Industrial Products





1974 1977 1978 <mark>1983</mark> 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 2016 2017



- 1989 Dieseko launches PVE
- 1990 ICE part of Geveke
- 1992 Introduction of PVE 2320 VM Variable Moment vibratory hammer



1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 2016 2017

- 1995 Going global
 - Dieseko attracts dealers in Europe and far east.

 - Dieseko opens a branch in teh USA.ICE expands its dealer network to 32
- 1996 The PVE ringvibrator is introduced
- 2001 The huge PVE 200M is introduced and directly put to work on the construction of the Betuwelijn



1995 2004 1978 1983 1989 2008 2009 2010 2012 2013 2014 2015 2016 2017

- 2004 Active Share takes over ICE
- 2005 ICE products active in Dubai for Palm Island
- 2007 ICE wins Gazelle award for the second time in a row.







.974 1977 1978 1983 1989 1995 <mark>2004</mark> 2008 2009 2010 2012 2013 2014 2015 2016 2017



2008 Founding of DIESEKO GROUP

PVE and ICE merge and they join forces in a single strong company with a comprehensive product portfolio and global service netwerk.

Dieseko Group starts as a house of brands.

DIESEKO GROUP



1974 1977 1978 1983 1989 1995 2004 <mark>2008</mark> 2009 2010 2012 2013 2014 2015 2016 2017

- 2009 The new emerging market: offshore
 - Developing the 200M 'twin' for the constructions of wind farms.
 - The PVE 200M active in Bard1 offshore project



1974 1977 1978 1983 1989 1995 2004 2008 <mark>2009</mark> 2010 2012 2013 2014 2015 2016 2017

INTRODUCTION

OVER 40 YEARS HISTORY



- **2010**
 - PVE 300M, Dieseko Group once again introduces the biggest vibratory hammer in the World
 - With the establishment of ICE China in Shanghai a fully owned rental fleet comes available.
 - With the Vibroflot, a new product is added to the range
- **2011**
 - A rental fleet is established in Brazil



.974 1977 1978 1983 1989 1995 2004 2008 2009 <mark>2010</mark> 2012 2013 2014 2015 2016 2017

- **2012**
 - The award for "Best Managed Companies" is won again
 - Dieseko Group provides two sets of the PVE 300 MU upending vibratory hammer, to the prestigious Global Tech wind farm in Germany



.974 1977 1978 1983 1989 1995 2004 2008 2009 2010 <mark>2012</mark> 2013 2014 2015 2016 2017

- **2013**
 - Dieseko Group introduces the variable moment into China and Brazil
 - Introduction of the modular offshore hammer PVE "Giant"
 - Introduction of a patented start-stop system
 - NPM Capital, a subsidiary of SHV acquires a majority stake in Dieseko Group





.974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 **2013** 2014 2015 2016 2017

- **2014**
 - Dieseko Group celebrates 40th anniversary.
 - Introduction of PVE 500M, the world's biggest mono bloc vibro hammer







1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 2016 2017

2015

- Dieseko Group acquires PVE Piling & Drilling Rigs.
- Dieseko shows the world a new pile driving technology. In cooperation with RTI, Dieseko Group develops the Resonator.
- PVE PDR builds the largest rig in its history: the PVE 300PD.
- PVE introduces the 250M vibratory hammer for heavy duty pile driving.



1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 <mark>2015</mark> 2016 2017

2016

- Dieseko acquires Woltman Piling Equipment and founds: Woltman Piling & Drilling Rigs
- Dieseko Group establishes a branche in Australia by taking a majority interest in Pilequip Australia
- A sales record at bauma Munic show





1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 <mark>2016</mark> 2017

2017

- Sales devided in Benelux and International Division
- A brand new design for the Woltman Piling
 & Drilling Rigs. Starting with the 50PR-FF
 the range will be modernised
- From april Dieseko Group is worldwide supplier of Bell dreding pumps and amphibious dredgers



1974 1977 1978 1983 1989 1995 2004 2008 2009 2010 2012 2013 2014 2015 2016 2017

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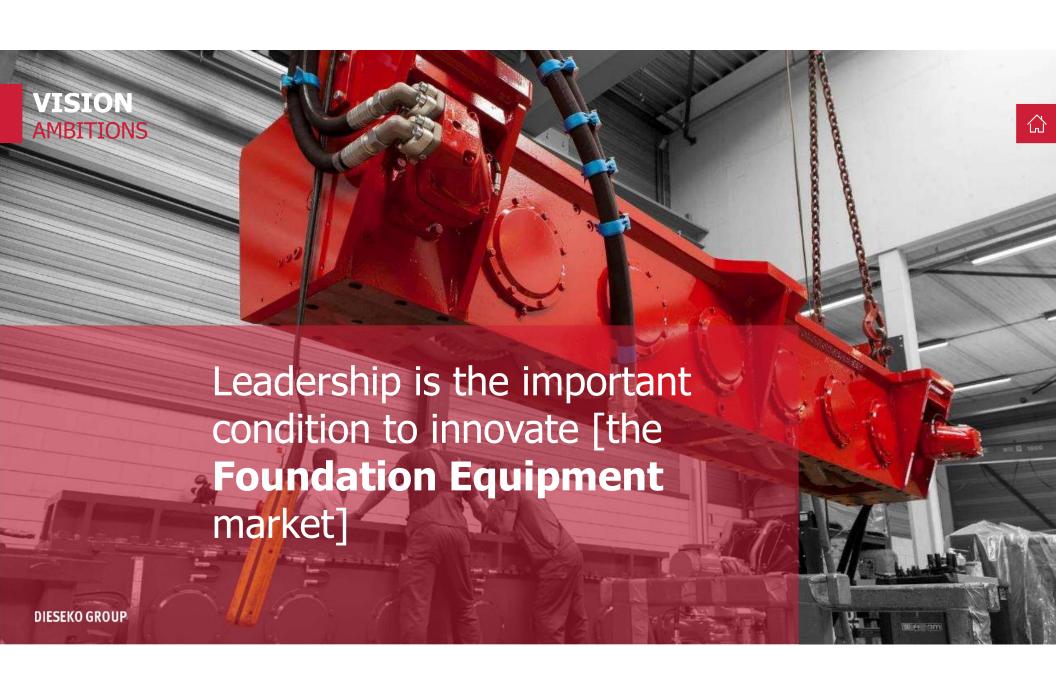
BRANDS



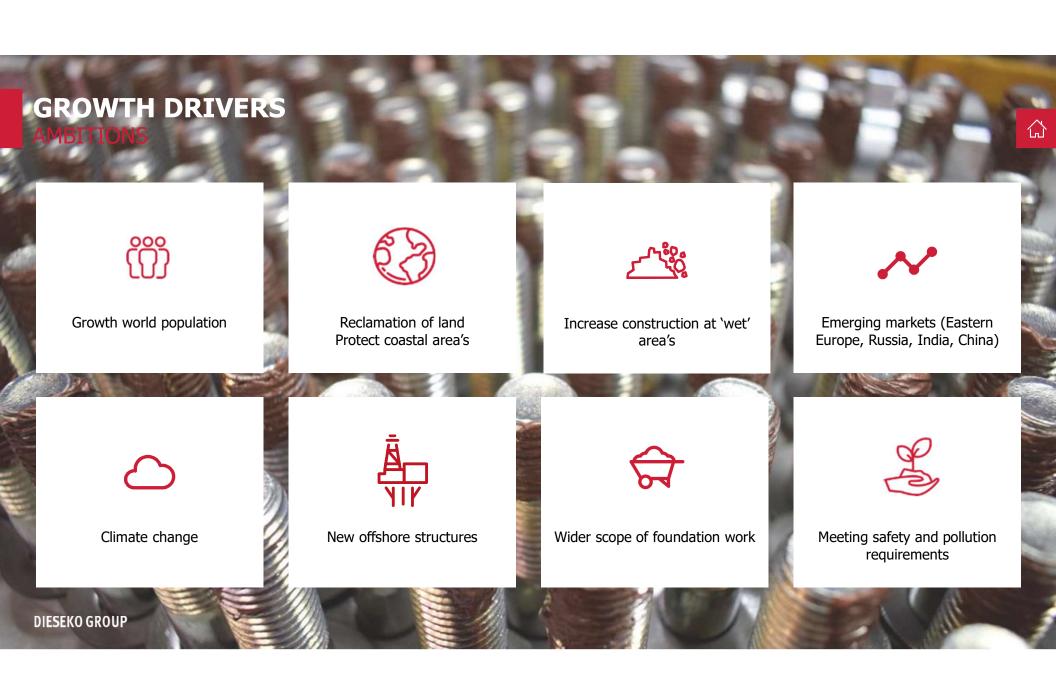




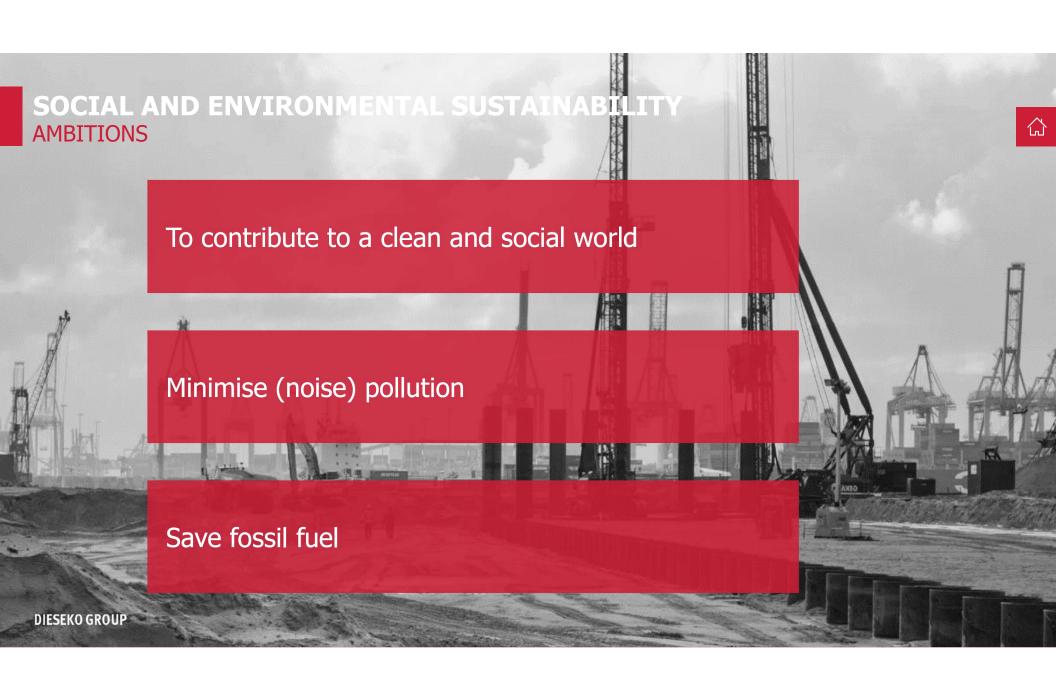












OUR CONTRIBUTIONS

AMBITIONS

Do the job efficient: silent, agile and fast pile driving

Large variety of foundation equipment for multiple foundation aplications
Customized solutions

Do the job almost harmless: zero vibration technology Resonator based on the resonance principle

Do the job sustainable

Stop-start iTimer saves up to 30% fuel consumption Biodegradable oil and Ad Blue Compliant to regulations worldwide Noise reduction offshore -60 dB under regulation



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ORGANIZATION

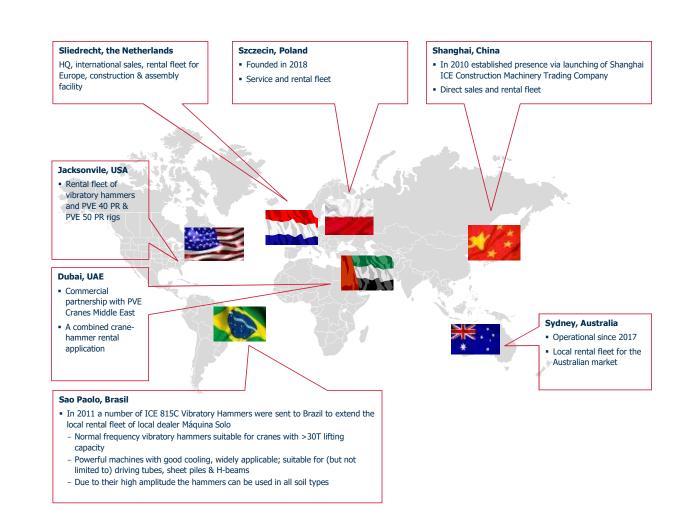
DIESEKO GROUP

- Branches and dealers
- Distribution
- Certification / Quality
- Employees
- Safety
- Financial figures
- Awards
- Partners and suppliers



ORGANIZATION

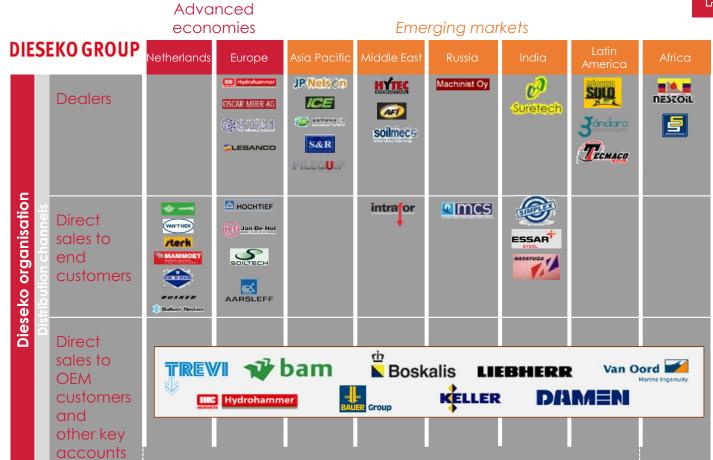
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ORGANIZATION

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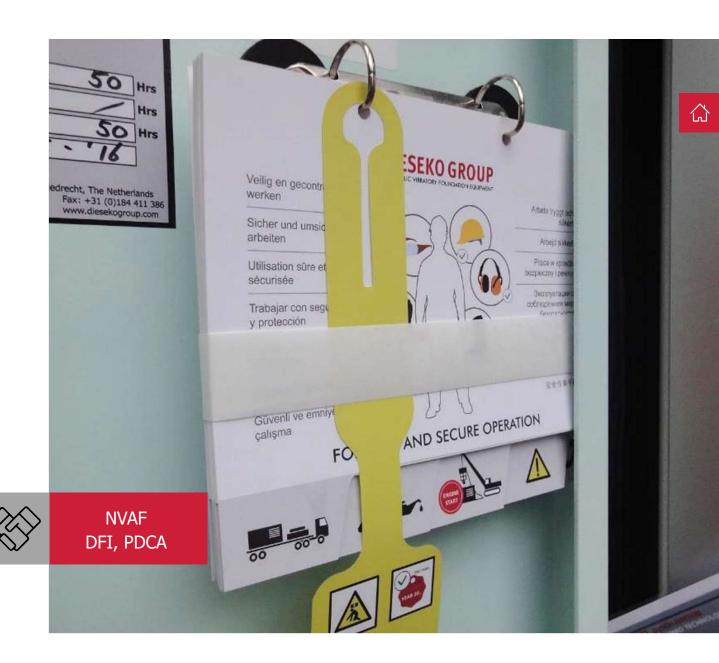
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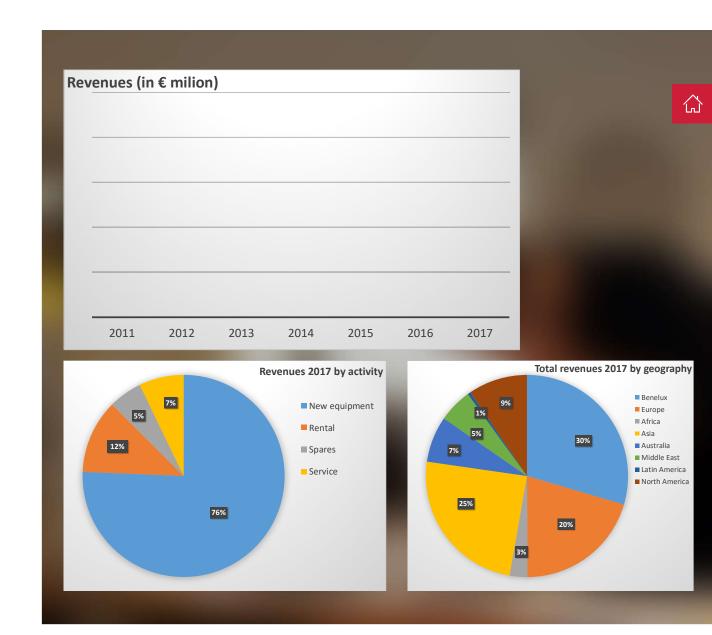
200

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DIESEKO GROUP

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DIESEKO GROUP

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ORGANIZATION

PARTNERS AND SUPPLIERS

- Branches and dealers
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BUSINESS









PARTS









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PVE Piling & Vibro Equipment PRODUCT LINES











ICE International Construction Equipment

PRODUCT LINES











WOLTMAN Piling & Drilling Rigs PRODUCT LINES









Piling Rigs



VR (HSP) Rigs



Drilling Rigs



Sheetpile Pressing Rigs



PDS type Piling Rigs



Concrete Pumps







BELL Dredging Equipment PRODUCT LINES





DIESEKO GROUPMENU

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BUSINESS AREAS

ACTIVITIES

FOUNDATION GROUND IMPROVEMENT SHORING SHALLOW DREDGING









PRODUCT PORTFOLIO

ACTIVITIES

FOUNDATION EQUIPMENT

PILING AND DRILLING RIGS

GROUND IMPROVEMENT EQUIPMENT

POWER & OTHER



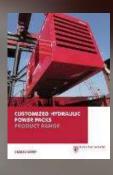


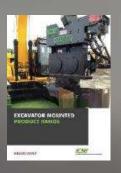




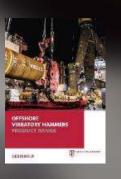














Click for more information



PRODUCT GROEPEN PRODUCTEN & DIENSTEN



PILING EQUIPMENT

Variable Moment Vibrato incl. Ringvibrator

PVE

9 Vibroflots

ICE

COMPACTION EQUIPMENT

2 Offshore Vibratory Equip

PVE

Normal Frequency Vibrat

CE

4 Excavator Mounted Vibra

ICE

Resonator Technology

VE

6 Pressing Machines

VE

7 Impact Hammers

PDR

Rotary Heads

VE + PDR

PILING & DRILLING RIGS

10 Piling Rigs

VE + PDR

11 Drilling Rigs

PVE + PDR

12 MPR Rigs

PVE + PDR

13 PDS Rigs

VE + PDR

OVERIG

14 Power Packs

15 Dredging Pumps

16 Trade Products

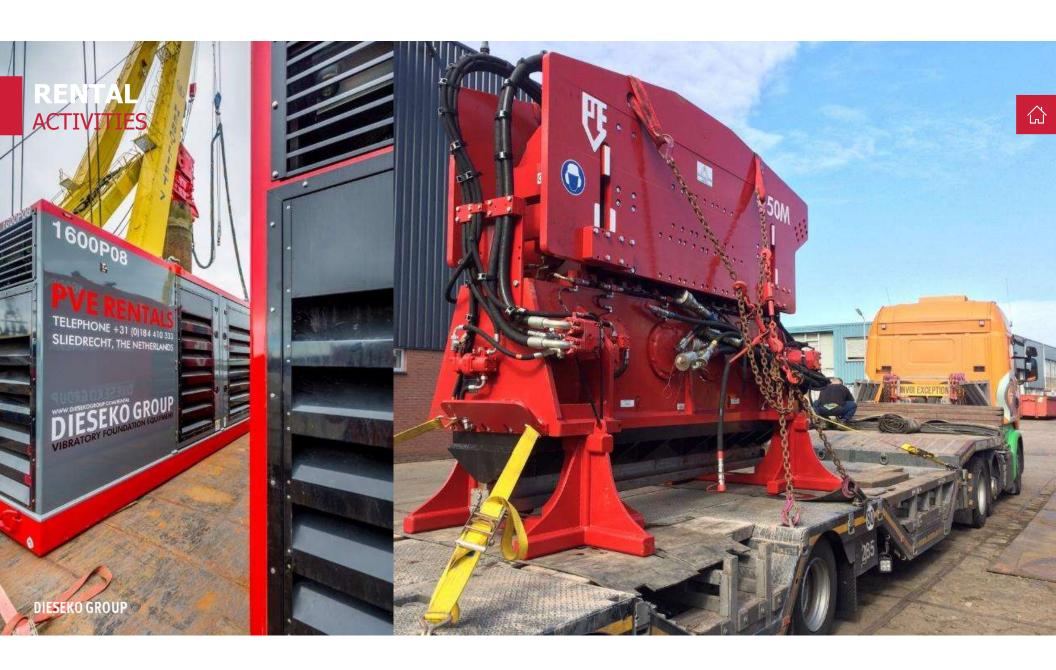
DIES EK0

SUPPORT & SERVICES ACTIVITIES









DIESEKO FINANCE

ACTIVITIES

Deferred payment of investments in customer equipment fleet

Available for Dieseko Group products

For accelerating customer sales growth



CONSULTANCY

ACTIVITIES

Specific advise for the right equipment

- Drive-ability studies
- Knowledge center
- Consulting service for new piling and ground improvement technologies



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RESONANCE TECHNOLOGY

INNOVATIONS

- Driving without vibrations
- PVE RD260, 4th generation
- High frequency piston cylinder arrangement
- Automatic tuning of frequency
- Ideal adjacent to heritage structures, transportation links or major utilities
- In cooperation with RTI



RESONATOR TECHNOLOGY

INNOVATIONS

- Free hanging and rig mounted
- Tubes and sheetpiles
- Fast and secure







RD430 Resonator

Item	Value
Max. Flow / Max. Pressure	550 L/min / 350 bar
Hydraulic power	430 kW
Frequency	60 – 160 Hz
Max. amplitude (in resonance)	4 mm
Max. static line pull	400 kN
Total weight (incl. / excl. Clamp/Backing mass)	6649 / 5177 kg
Clamp mass	472 kg
Clamp / Clamp pressure	RPC 3 / 690 bar
Max. profile types	610 Casing HEB 600 PU28
Power pack	600
Dimensions (L X W X H)	1671 x 651 x 3480 mm



RESONATOR TECHNOLOGY

INNOVATIONS

Absolutely vibration free!



UPENDING PROFILESINNOVATIONS

- Break through patented PVE innovation
- Upending, lifting and driving in one sequence
- Started as an offshore application



UPENDING PROFILES

INNOVATIONS

 Also available as (after market) add-on

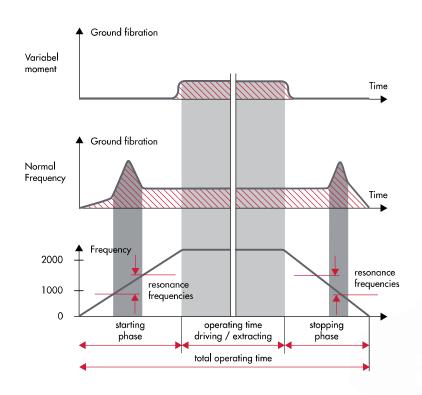




VARIABLE MOMENT

INNOVATIONS

Resonance free start and stop





MODULAR CONCEPTS INNOVATIONS

- 250kgm gearboxes stacked to 500kgm
- Patented synchronization module





"A GIANT step for mono pile foundations"



GIANT 2000M

Item	Value
Max. Flow / Max. Pressure	12800 L/min / 350 bar
Max Centrifugal force	42992 kN
Eccentric moment	2000 kgm
Max. frequency	1400 rpm
Max. amplitude (incl. Clamps)	13,5 mm
Max. static line pull	20160 kN
Forced lubrication	Yes
Dynamic weight (incl. clamp)	295 mT
Total weight (incl. Clamps)	407 mT
Clamps	16 x PPK 350T
Casing dia (min. / max.)	4500 / 6500
Max. casing weight	1650 mT
Power pack	4 x 3200
Dimensions (L X W X H) (incl. clamps)	7880 x 7880 x 8650 mm



2308SG Excavator Mounted Side Gripper

"Side-gripping using new technology"



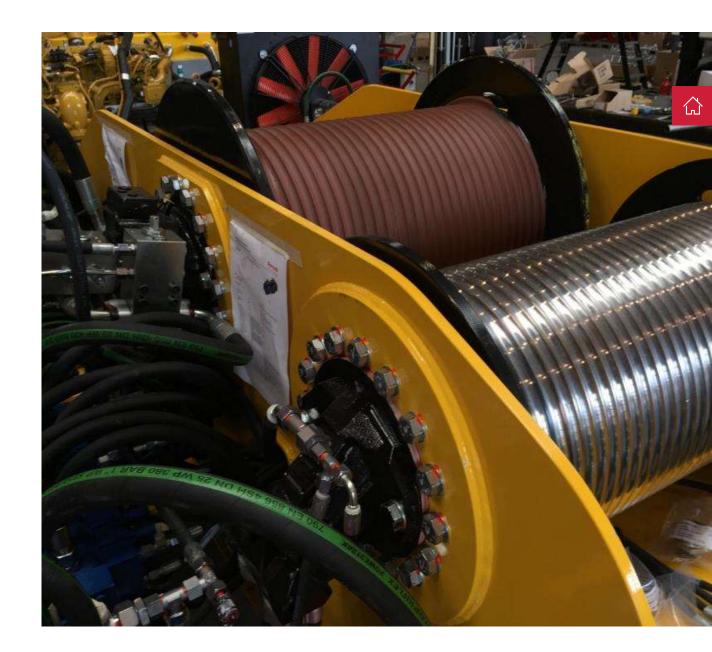
2308SG Excavator Mounted Side Gripper

Item	Value
Max. Flow / Max. Pressure	214 L/min / 350 bar
Max Centrifugal force	464 kN
Eccentric moment	8 kgm
Max. frequency	2300 rpm
Max. amplitude (incl. / excl. Clamp)	6,2 / 6,9 mm
Max. static line pull	160 kN
Forced lubrication	no
Dynamic weight (incl. / excl. Clamp)	2576 / 2326 kg
Total weight (incl. / excl. Clamp + tilting adapter)	3284 / 3034 kg
Weight tilting adpater	242 kg
Clamp	60TU
Dimensions (L x W x H) (incl clamp+tilting adapter)	1306 x 1320 x 2580 mm
Power pack	250



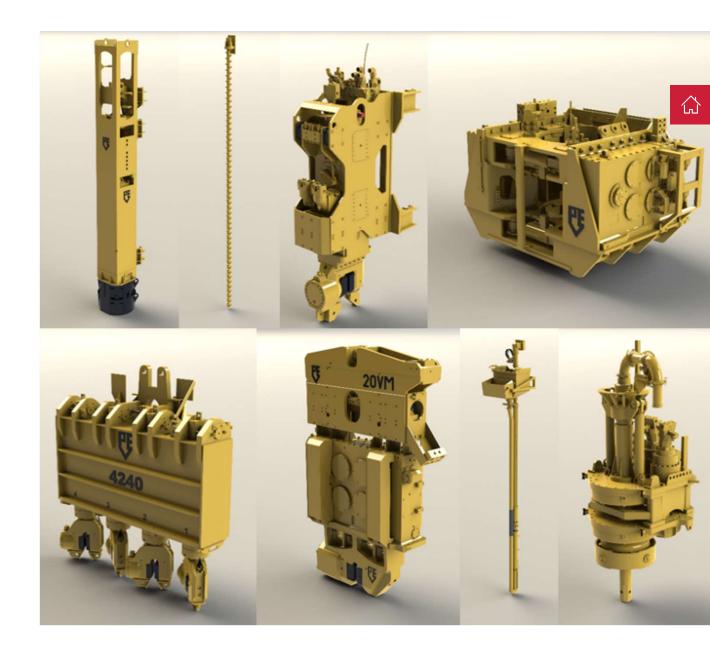
FREE FALL WINCHES INNOVATIONS

New way of efficient piling



MULTIPURPOSE RIGINNOVATIONS

- Sufficient power supply for great variety of attachements
- Multifunctional use



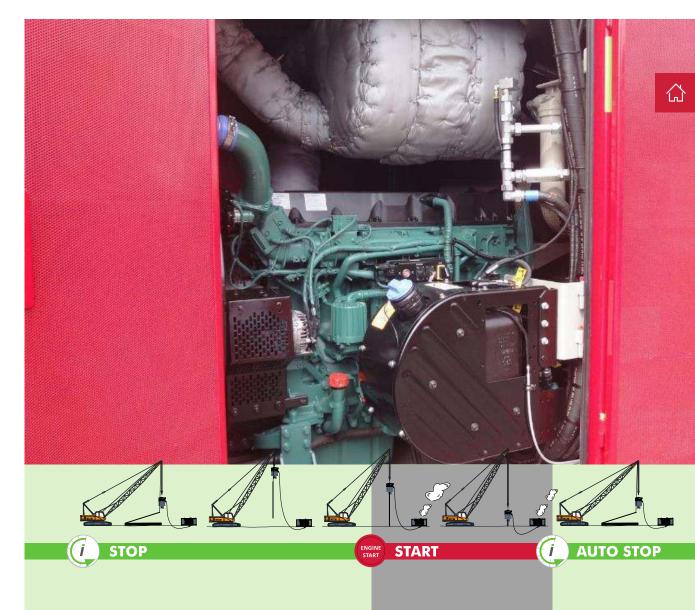
STOP-START SYSTEM

INNOVATIONS

- Intelligent auto timer
- Reduces fuel consumption up to 33%
- Tier4 final compliant

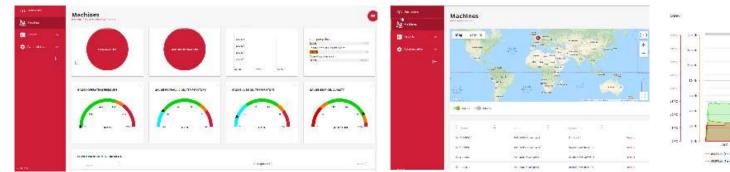


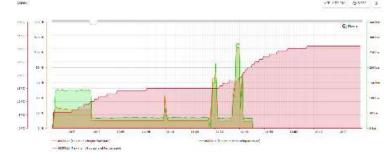




Power Pack Monitoring System



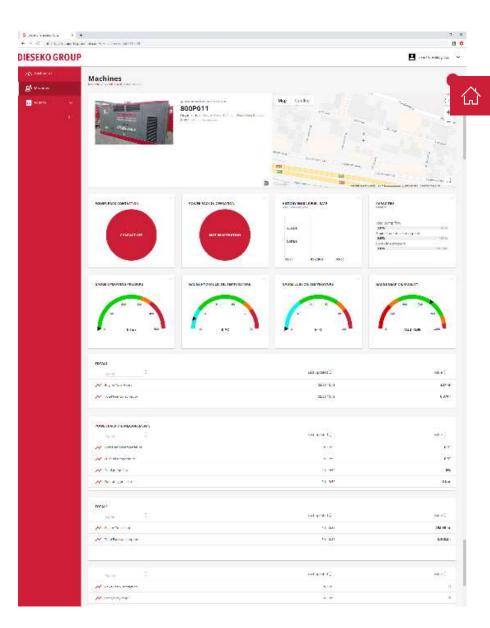




"Economic operations using remote diagnostic monitoring"

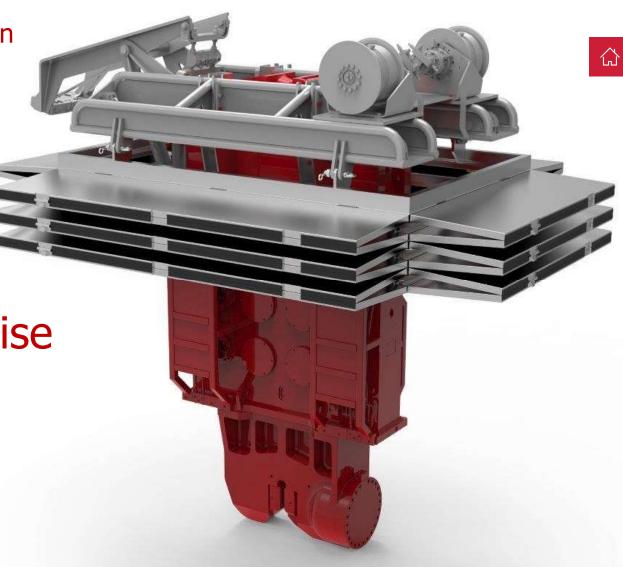
Power Pack Monitoring System

Items Monitored	
Geo position [mapped]	Hydraulic oil temp [°C]
Contact on [0/1]	Lube oil temp [°C]
Unit in operation [0/1]	Gear oil Quality [TDN]
Engine fuel rate [L/h]	Engie total hours [Hr]
Total pump flow [%]	Total fuel consumption [L]
Engine load [%]	Emergency stop [0/1]
Operating pressure [bar]	Return filter clogged [0/1]
High lube oil pressure [0/1]	Vibrator oil flow low [0/1]
Hydr. oil temp high [0/1]	Leak filter clogged [0/1]
Hydr. oil warming up [0/1]	Interm. speed warming up [0/1]
General emergency stop [0/1]	Interm. speed cooling [0/1]
Suction valve not open [0/1]	Hydraulic level low [0/1]
Vibrator oil temp high [0/1]	
DIESEKO GROUP	



Vibratory Hammer Noise Reduction

"Mastering piling noise in a mobile way"



Vibratory Hammer Noise Reduction

Item	Value
Max. Flow / Pressure	150 L/min / 145 bar
External dimensions (H x L x W)	2,6 x 4 x 3 m (retr.) 20,8 x 3 x 2 m (ext.)
Internal dimensions	2,6 x 1,6 m
Total weight (20,8m screen)	5800 kg
Weigth lifting frame	1640 kg
Weight screen (20,8m screen)	4160 kg
Max. traveling speed	0,5 m/s
Leveling principle	Self aligning with hydraulic flow divider
Noise reduction at 2m (measured on 24VM)	-6,3 to -7,5 dB
Noise level at 2m (measured on 24 VM)	85 dB
Materials	Galvanised steel frames Aluminium panels Polyurethane isolation



Noise Reduction Pack



Noise Reduction Pack

Item	Value
Noise reduction (prognosed for 600 powerpack)	-6 to -10 dB
Noise level at 1m / 5m (prognosed for 600 powerpack)	77 to 86 dB / 71 to 76 dB
Dimensions Inlet (L X W X H) Based on 600 power pack	918 x 400 x 1650 mm
Dimensions Outlet (L X W X H) Based on 600 power pack	1473 x 604 x 1890 mm
Materials	Galvanised steel frame Aluminium plating Stone wool insulation
Application	Interchangeable with all Dieseko power packs



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