

**DIESEKO GROUP**

# Born to Drive

Vibratory and Piling Equipment of Dieseko Group



## Dieseko Group – Introduction



Dieseko Group is a world leader in hydraulic foundation technology and is supported by a strong organization and management team.

Dieseko is a Global player with a strong track-record in developing innovative solutions to meet customer demands.

Dieseko offers a wide range of hydraulic vibratory hammers, piling rigs, complementary equipment and related services with a clear focus on specialized foundation equipment.



## Dieseko Group – Introduction

Over 40 years  
experience



Manufacturer of world leading  
foundation equipment brands



Representing:



It is all about quality



## Dieseko Group – Headquarters and Branches



**The Netherlands:** HQ Dieseko Group BV

**China:** Shanghai ICE Construction Equipment

**Singapore:** ICE-PVE Asia PTE Ltd

**USA:** PVE Equipment USA

**Brasil:** Dieseko Brasil - Maquino Solo

Worldwide 60 dealers and agents  
representing products and services

Dieseko Group – 40 years, a brief glimpse in this video.



### PVE Piling & Vibro Equipment



*Hydraulic foundation equipment:*

- Standard Frequency Vibratory Hammers
- Variable Moment Vibratory Hammers
- Power Units (100 - 3200 l/m)
- Resonating (introduction 2015)
- Ring Vibrators
- GIANT Offshore Modular Vibratory Hammer
- GIANT Offshore Vibro Drill

### PVE Piling & Drilling Rigs



*Hydraulic equipment:*

- Pile Driving Machines
- Rotary Drilling Machines
- PDS-type Driving Machines
- Impact Hammers
- Rotary Heads
- Auger Cleaners



### ICE International Construction Equipment



*Hydraulic foundation equipment:*

- Normal Frequency Vibratory Hammers
- High Frequency Vibratory Hammers
- Resonance Free Vibratory Hammers
- Excavator Mounted Vibratory Hammers
- Power Packs
- Vibroflots



### Damen Dredging

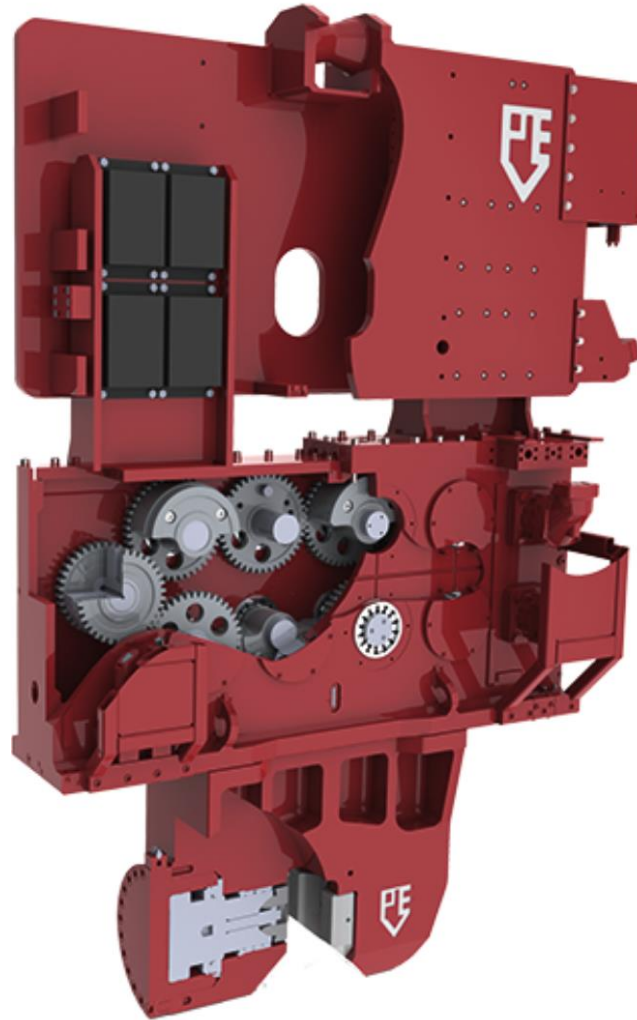
**DAMEN**

**ICE**

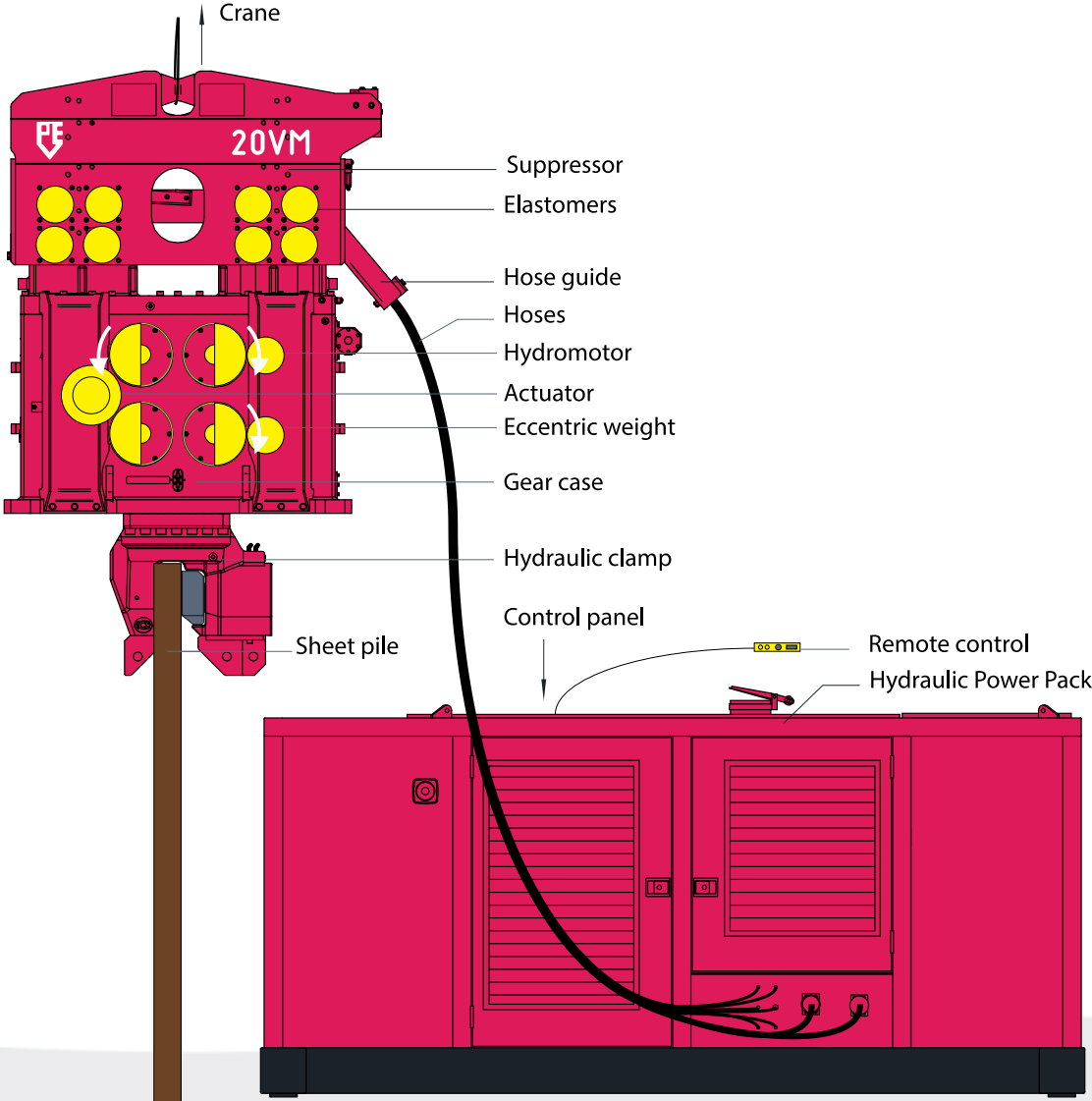
- DOP Dredging Pumps
- Powered by ICE Power Units



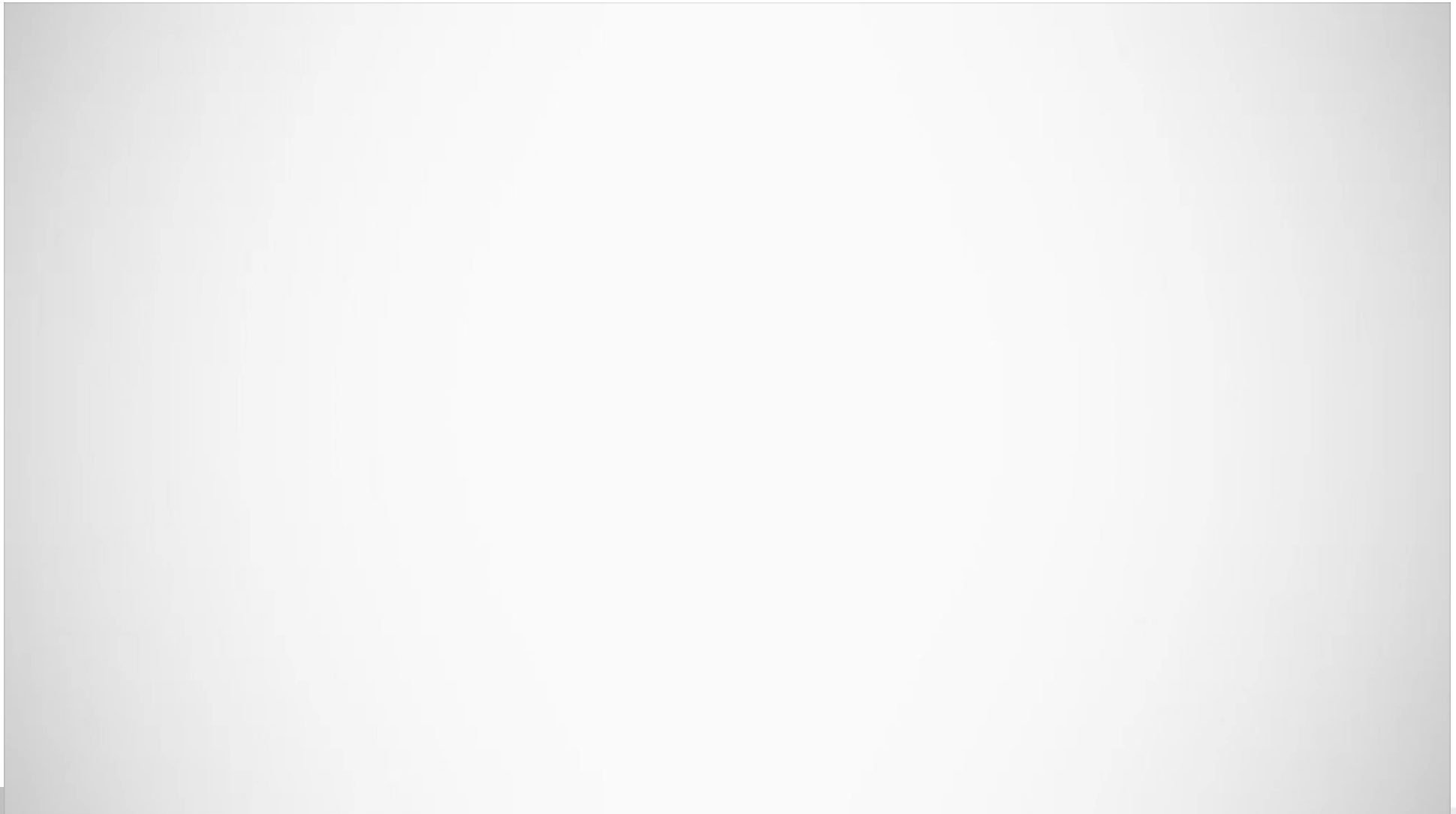
Vibratory Technology



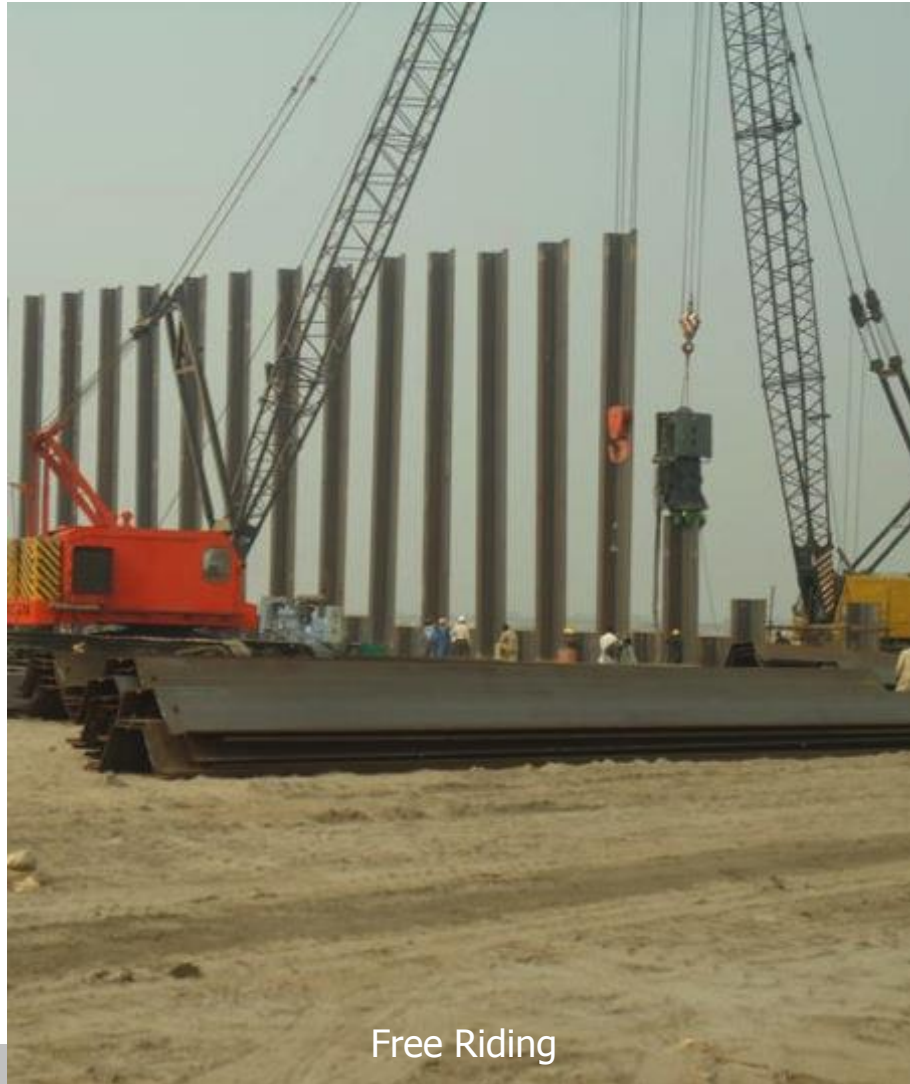
Vibratory Technology



Vibratory Technology – Variable moment animation



## Vibratory Technology – mounting the vibratory hammer



Free Riding



Leader Guided



Excavator Mounted

## Vibratory Technology – Foundation Profiles

H-Beams



Tubes



Concrete profiles



Wooden piles



## Vibratory Technology – Foundation Profiles

Combi wall



Sheet piles



## Vibratory Technology – Clamps

### Tubes

Direct mounted or x-plate mounted



### Sheet Piles

Single, double and triple



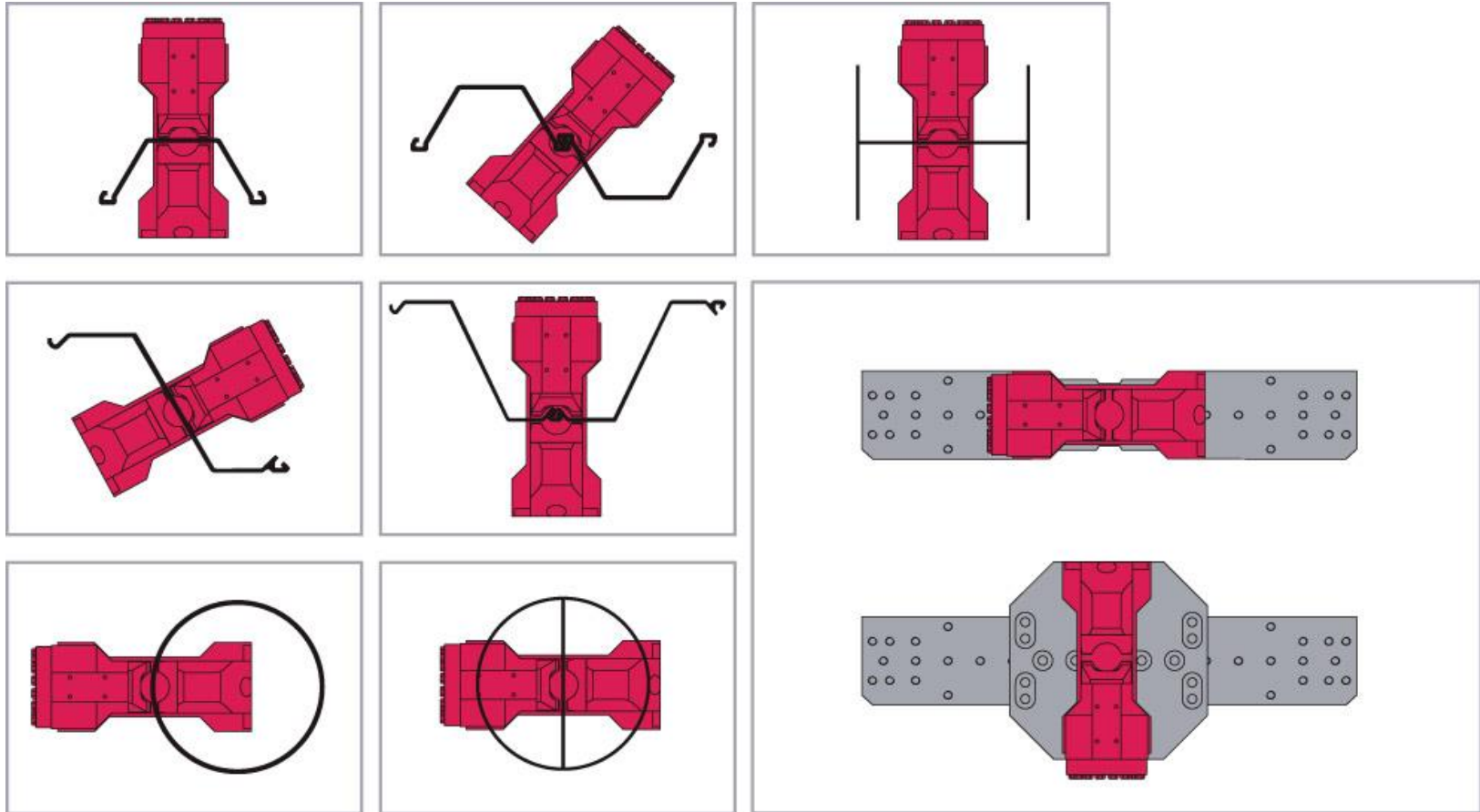
### Piles

(concrete, wood)





## Vibratory Technology – Sheet pile clamps



## Product Range – types of Vibratory Hammers

### Normal Frequency

Normal vibrating frequency up to 1,600 RPM



### Variable Moment

Resonance free (for urban area's) up to 2,300 RPM



### Excavator Mounted

Powered by excavator up to 3,000 RPM



## Product Range – Pressing Machine

### Pressing Machine

Leader guided hydraulic pressing technique



## Product Range – Ring Vibratory Hammer

### Ring Vibrator

Soil compaction and improvement



## Product Range – Hydraulic Power Packs

### Standard series up to 3,200 L/min

Smart, environmental friendly meeting the latest Emission Regulations:

- **Tier 3 / Stage IIIA - Tier 4 Final / Stage IV**
- Volvo or CAT engines
- Ad Blue technology
- CE-certification

### Dieseko Durable Saving

- Idle Time Reducer Stop-Start system
- Save up to 35% fuel

### High Quality

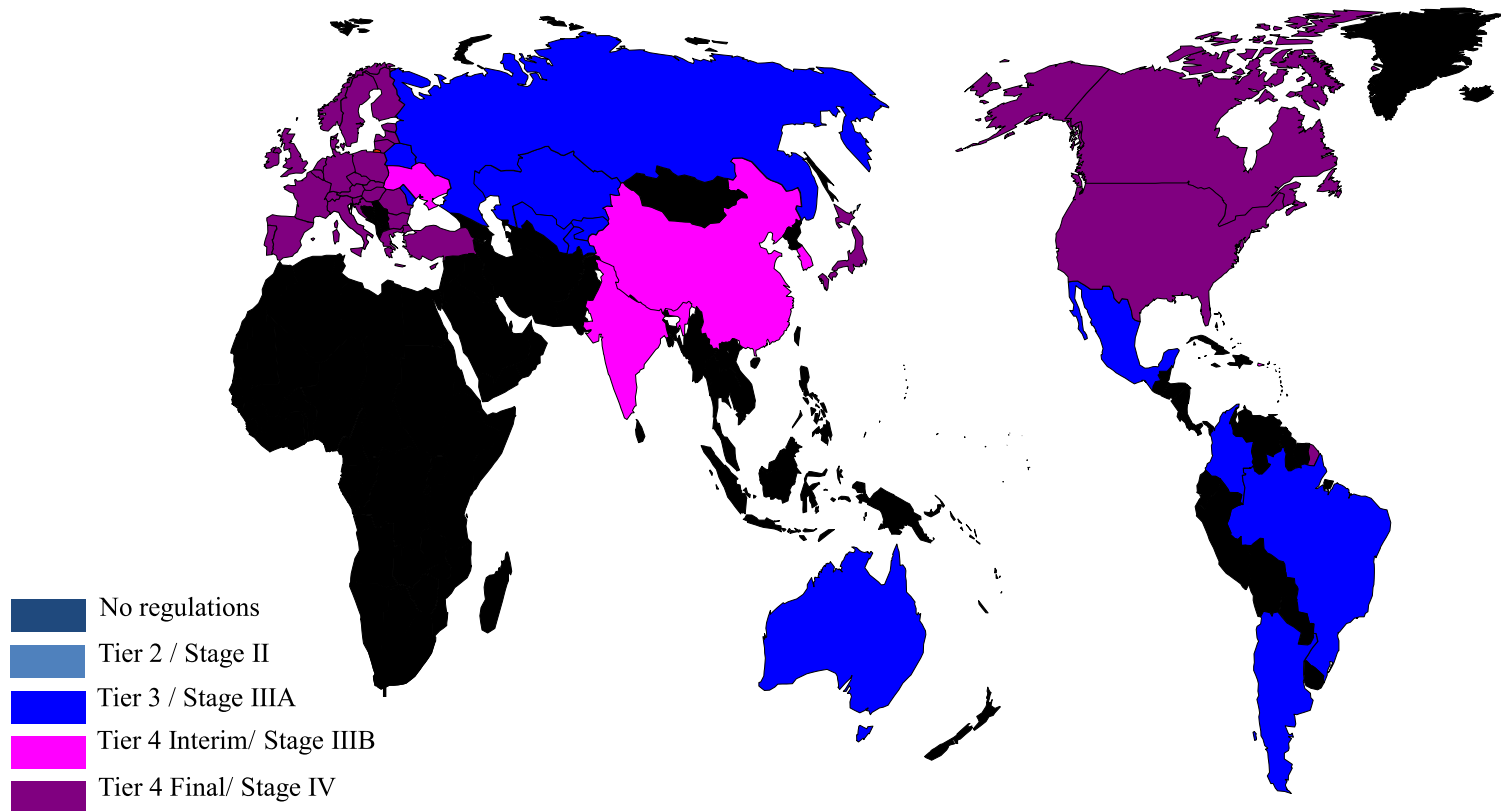
- Superb parts suppliers



## Product Range – Hydraulic Power Packs



### Worldwide Emissions Regulations - 2016



## Product Range – Hydraulic Power Packs/OEM

### Build to customer specifications e.g.

- Crane mounted
- Special applications
- Special sizes

### Original Equipment Manufacturing (OEM)





## Projects



Singapore – ICE 82NF

## Projects



France – PVE 28VM

## Projects



India – ICE 416

## Projects



Netherlands – PVE 2335VM

Projects



China – ICE 416L

## Projects



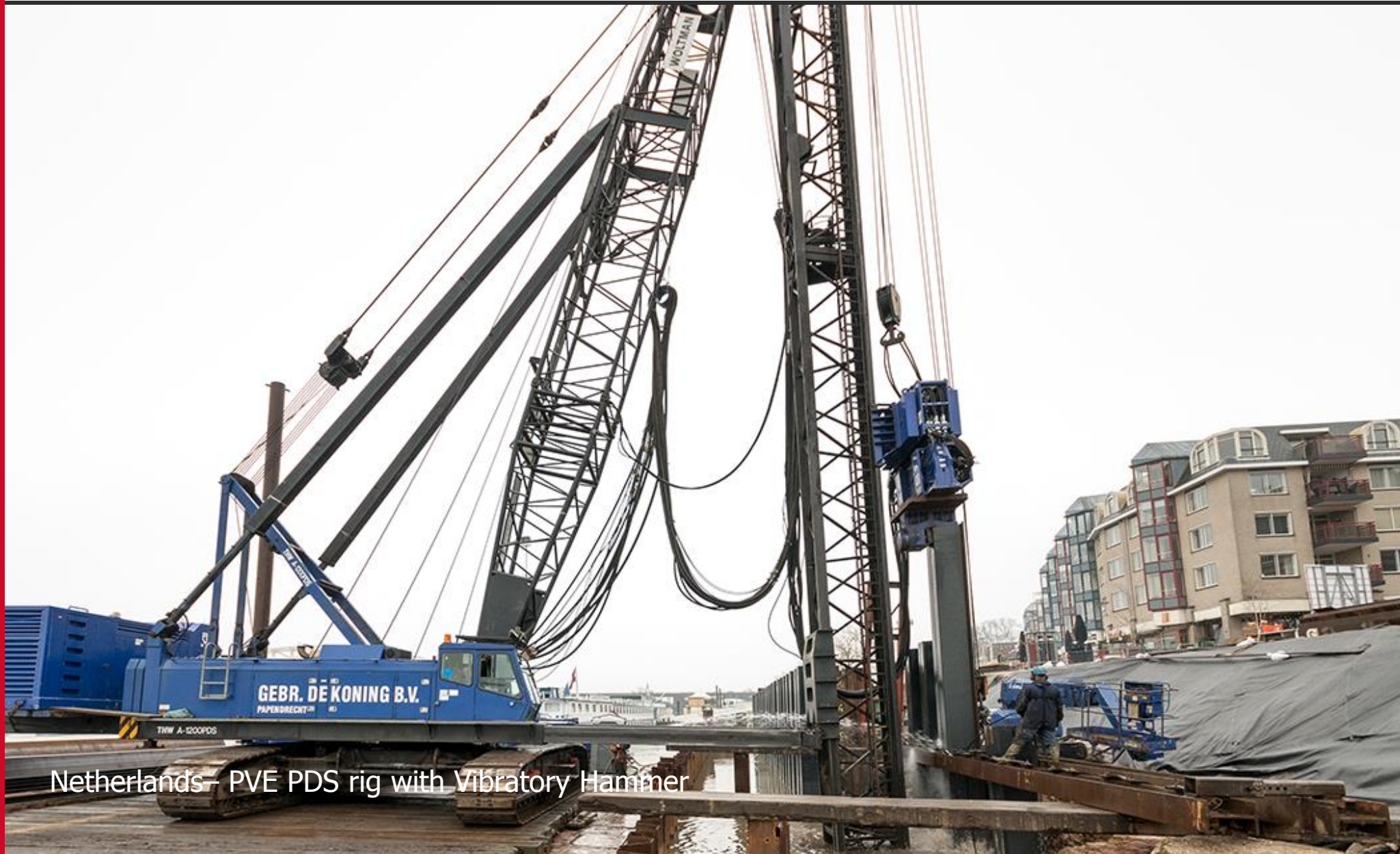
Poland – ICE 12RF: Resonance Free Vibro hanging in a mobile crane

## Projects



Hong Kong – ICE 1412C six-clamps

## Projects



Netherlands— PVE PDS rig with Vibratory Hammer



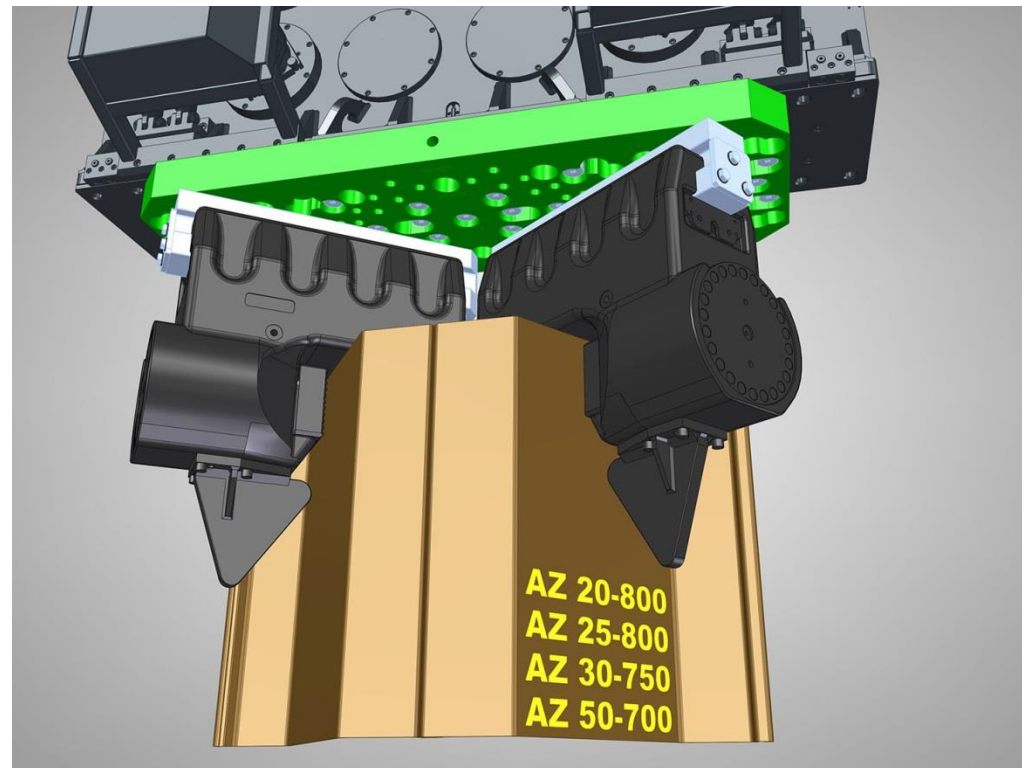
## Projects



Netherlands– Combi Wall. Ballast weights attached to the Vibro.

## Latest Developments in Foundation Equipment

**2015:** Adaptations for new AZ-sheet piles



## Latest Developments in Foundation Equipment

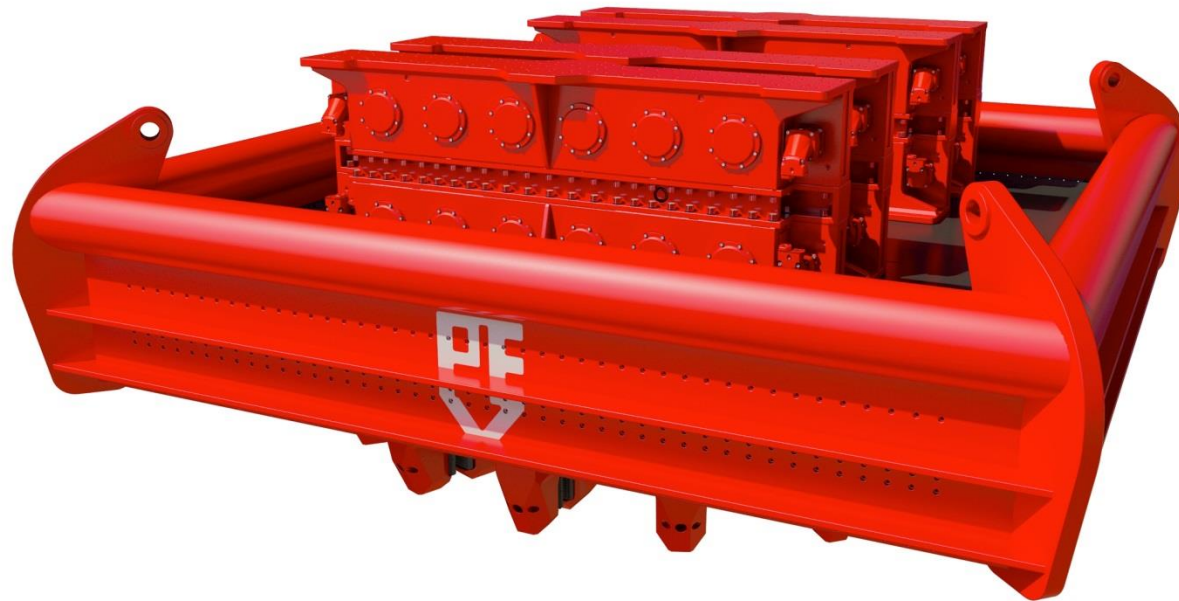
**2013:** Offshore Upending, lifting and vibrating  
Time saving offshore piling solution



## Latest Developments in Foundation Equipment

### 2013: Offshore GIANT

Modular concept 2000Kgm Vibro / Vibro Drill



## Latest Developments in Foundation Equipment

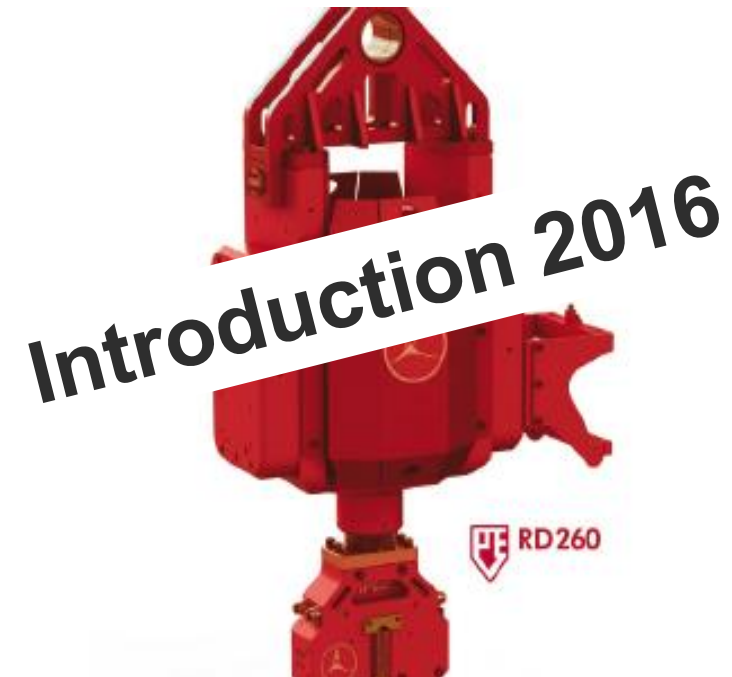
### 2014: Monopiles XXL

Giant series 500 Kg, the biggest Vibro in the world!

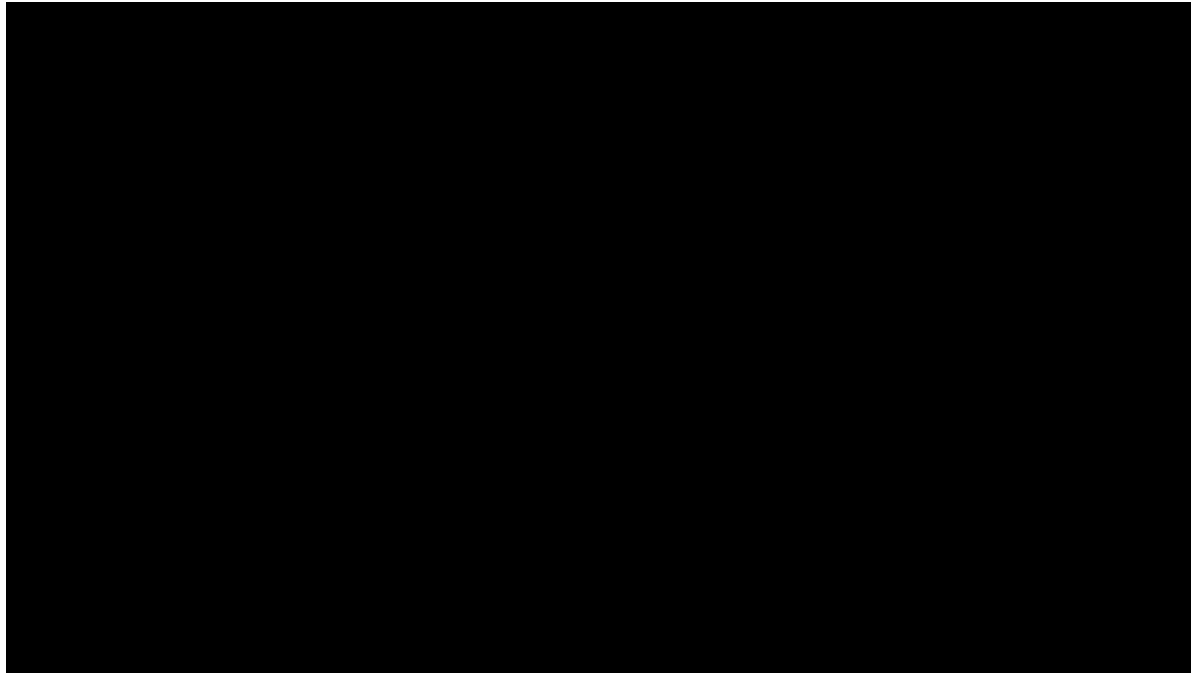


Resonator: new development pending

**2016:** Resonator RD260  
0 - 180Hz resonating piling equipment



## Resonator: a demonstration



<b>Power</b>	260 kW
<b>Amplitude</b>	3 – 7 mm
<b>Oil flow</b>	450 L/min
<b>Frequency</b>	0 – 180 Hz
<b>Line pull Pull down</b>	25 t
<b>Clamp force</b>	600 Bar
<b>Length</b>	mm
<b>Width</b>	Mm
<b>Height</b>	mm
<b>Weight</b>	1300 kg

END