

bauma 2019

DIESEKO GROUP

WHAT'S NEW

- PVE 90VM VIBRATORY HAMMER
- PVE RD430 RESONATOR
- PVE 2308SG SIDE GRIP
- WOLTMAN 50PR-FF PILING RIG
- WOLTMAN 90DR DRILLING RIG
- PVE NLs IMPACT HAMMERS
- ICE 815D VIBRATORY HAMMER
- ICE 9S SWIVEL HEAD
- BELL BAU200 AMPHIBIOUS EXCAVATOR
- BELL DOUBLE CUTTER HEAD
- POWER PACK MONITORING
- NOISE MITIGATION SCREEN
- ACOUSTIC LOUVRES FOR POWER PACKS



WOLTMAN 50PR-FF NEW DESIGN

SMART & SAFE OPERATION

- Wide-view cabin
- Easy-access
- Safety railings
- Auto-locking of leader
- New improved impact hammer
- Fast set-up time (< 15 min)

SPECIFICATIONS

Standard leader length	24,8	m
Maximum leader length	27,8	m
Max. weight impact hammer + pile	18,5	tonnes
Capacity of hammer winch	14	tonnes
Capacity of pile winch	10	tonnes
Capacity auxiliary winch	4	tonnes
Diesel engine	C-7.1	Tier 4F
Engine output	250	HP
Operational width	4400	mm
Transport width	3450	mm
Operational weight excl. impact hammer	51	tonnes
Recommended impact hammer	5/7NLs	PVE
Transport weight incl. impact hammer	61	tonnes

WOLTMAN 90DR NEW DESIGN

EXTREME POWERFUL

- Wide-view cabin
- Easy-access
- Safety railings
- High torque rotary head
- Extreme stable - powerful
- Fast set-up time (< 3 hrs)

SPECIFICATIONS

Standard leader length	30	m
Maximum leader length	39	m
Max. weight (rotary head + pile)	30	tonnes
Capacity main winch	100 (12.5x 8)	tonnes
Capacity pull down winch	35 (17.5x 2)	tonnes
Capacity aux. winch	12 (2x 6)	tonnes
Diesel engine	C-18	Tier 4F
Engine output	755	HP
Operational width	4.800	mm
Transport width	3.500	mm
Recommended rotary head	RH-45-HS	PVE
Max. torque on leader	50	ton./m
Operational weight excl. rotary head	92	tonnes

WOLTMAN 50PR-FF WOLTMAN 90DR



NEW: PVE RH-HS series high torque and high speed rotary heads

NEW: PVE NLs Impact Hammers

- +30% blowrate
- higher potential energy
- improved sound insulation



PVE RESONATOR

PVE RD430

PVE RD260 RESONATING-DRILLING



PVE RESONANCE DRIVER RD430 PILING WITHOUT ANY VIBRATIONS

The Resonator is a revolution in driving steel profiles. Steel is turned to its natural frequency and driven in the ground without any vibration. Eight years of engineering and testing resulted in this unique high frequent machine. A power pack automatically controls the pressure and oil flow to keep the steel in its natural frequency, in all circumstances. Game changing!



PILING & VIBRO EQUIPMENT

PVE RD430 RESONATOR

GAME CHANGER IN THE FIELD OF PILING

- Zero ground vibrations
- Extremely fast
- Wide variety of profiles
- Patented technology
- High efficiency

SPECIFICATIONS

Hydraulic power	430	kW
Frequency	60 - 160	Hz
Max. amplitude (in resonance)	3 - 6	mm
Max. static line-pull	400	kN
Max. operating pressure	350	bar
Max. oil flow	550	l/min
Total weight (Incl. RPC3 / backing mass)	6649	kg
Total weight (Excl. RPC3 & additional mass)	5328	kg
Universal clamp	RPC 3 (472 kg)	

PVE RD260 RESONATOR

SPECIFICATIONS

Hydraulic power	260	kW
Frequency	60 - 160	Hz
Max. amplitude (in resonance)	3 - 6	mm
Max. static line-pull	200	kN
Max. operating pressure	320	bar
Max. oil flow	380	l/min
Total weight (Incl. RPC2)	4124	kg
Total weight (Excl. RPC2)	3764	kg
Backing mass only (Excl. RPC2, yoke)	3020	kg
Universal clamp	RPC2 (360kg)	

Drill unit		
Torque	0,95	ton/m
Max. oil flow	200	l/min
Max. working pressure	205	bar
Max. speed	60	rpm
Possible to turn clockwise and counterclockwise		



For the application of the resonance technique, Dieseko Group collaborated with our highly trusted Canadian partner Resonance Technology International. After ample years of research, development and testing, the resonance technique is brought around the world by Dieseko Group.



PVE 90VM PVE 2308SG SIDE GRIP

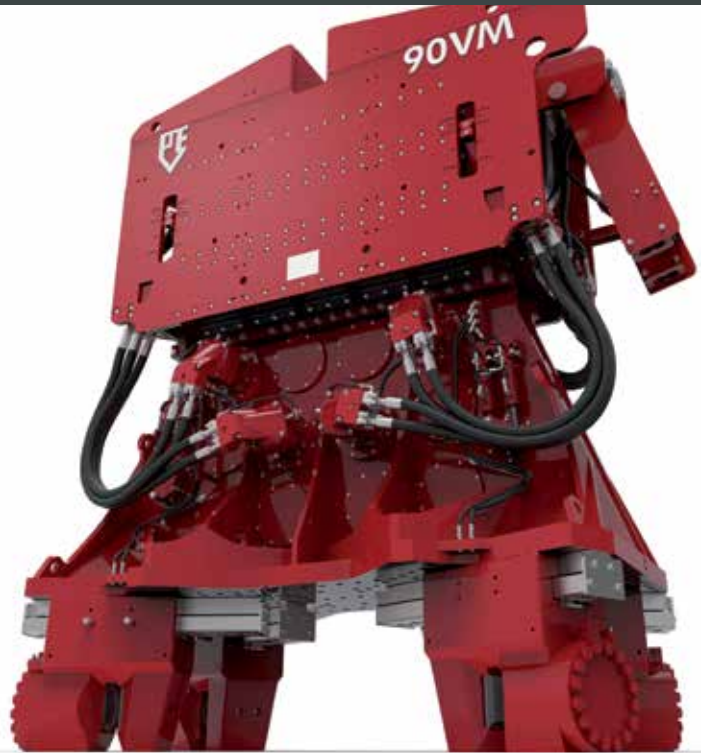
PVE 90VM VIBRATORY HAMMER

LARGE DIAMETER PILING IN URBAN AREA'S

- World's biggest variable moment vibratory hammer
- Unique proven VM technology
- Integrated cooling
- Integrated x-plate
- Wide range of casing diameters

SPECIFICATIONS

Eccentric moment	0-90	kgm
Max. centrifugal force	0-4477	kN
Max. frequency	2130	rpm
Max. amplitude excl. 4xPPK 150T	13,3	mm
Max. amplitude incl. 4xPPK 150T	9,1	mm
Max. static line-pull	1500	kN
Max. operating pressure	350	bar
Max. oil flow	2062	l/min
Forced lubrication	yes	
Dynamic weight excl. 4xPPK 150T	13500	kg
Dynamic weight incl. 4xPPK 150T	19900	kg
Total weight excl. 4xPPK 150T & hoses	18500	kg



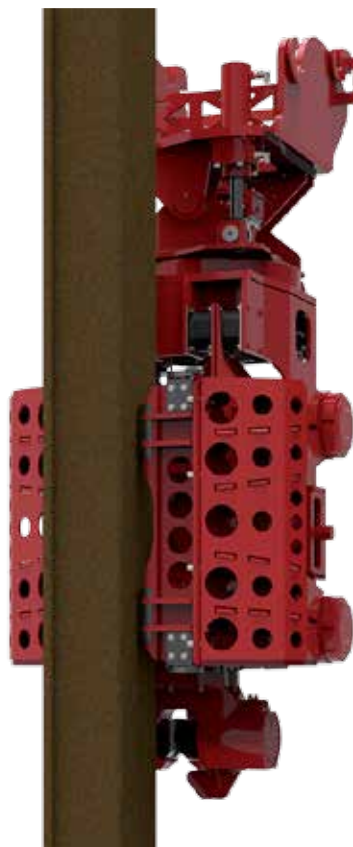
PVE 2308SG SIDE GRIP

SIDE-GRIPPING USING NEW TECHNOLOGY

- Robust
- Based on proven technology
- Wide range of profiles
- Unique side grip concept
- Minimal moving parts

SPECIFICATIONS

Eccentric moment	8	kgm
Max. centrifugal force	464	kN
Max. frequency	2300	rpm
Max. amplitude excl. 60TU	6,9	mm
Max. amplitude incl. 60TU	6,2	mm
Max. static line-pull	160	kN
Max. operating pressure	350	bar
Max. oil flow	214	l/min
Forced lubrication	no	
Dynamic weight excl. 60TU	2326	kg
Dynamic weight incl. 60TU	2576	kg
Total weight excl. 60TU & Tilting adapter	3034	kg





NOISE REDUCTION



NOISE MITIGATION SCREEN

MASTERING PILING NOISE IN A MOBILE WAY

- Noise reduction up to -7,5dB (both source and profile)
- Improve your health and safety performance
- Adjustable for wide range of hammer types
- Possibility of one open side
- Hydraulic leveling synchronization with integrated screen-winch

SPECIFICATIONS

Min. noise reduction at 2m measured on 24VM	-6,3	dB
Max. noise reduction at 2m measured on 24VM	-7,5	dB
Noise level at 2m measured on 24VM	85	dB
Total weight 20,8m screen + lifting frame	5800	kg
Weight lifting frame	1460	kg
Weight screen 16 sections total 20,8m	4160	kg
Weight per section	260	kg
Max. screen height extended	20,8	m
Height per section extended	1,3	m
Max. screen height retracted	2,56	m
Length per section retracted	0,16	m

ACOUSTIC LOUVRES FOR HYDRAULIC POWER PACKS

UP TO -9dB NOISE REDUCTION

- New & after market
- Improve your health and safety performance
- Exchangeable with all ICE & PVE Power Packs

SPECIFICATIONS measured on 600PP

Min. noise reduction at 1m	-6 dB
Max. noise reduction at 1m	-9 dB
Noise level at 1m	88 to 90 dB
Min. Noise reduction at 5m P	-6 dB
Max. Noise reduction at 5m	-9 dB
Noise level at 5m	79 to 82 dB
Materials	Galvanised steel frame Aluminum plating Stone wool insulation
Application	any ICE or PVE Power Pack



POWER PACK MONITORING

COST SAVING OPERATIONS USING REMOTE DIAGNOSTIC MONITORING

- Unlimited analyzing of logged data
- Remote service assistance by Dieseko Group
- Real time monitoring
- Preventive maintenance
- Efficient fleet management



INTERNATIONAL CONSTRUCTION EQUIPMENT

ICE 9S ICE 815D

ICE 9S SWIVEL HEAD

QUALITY MEETS SIMPLICITY

- Cost effective
- Based on proven technology
- Easy maintenance
- Easy operation
- Simple design

SPECIFICATIONS

Eccentric moment	8.9	kgm
Max. centrifugal force	522	kN
Max. frequency	2300	rpm
Max. amplitude excluding 60TU	20.4	mm
Max. amplitude including 60TU	15.5	mm
Max. static line-pull	190	kN
Max hydraulic power	148/201	kW/HP
Max. operating pressure	350	bar
Max. oil flow	253	l/min
Forced lubrication	no	
Dynamic weight excluding 60TU	870	kg
Dynamic weight including 60TU	1150	kg
Total weight including 60TU	1900	kg



ICE 815D VIBRATORY HAMMER

OUR MOST SOLD VIBRATORY HAMMER UPGRADED

- More efficient
- Easier maintenance
- Significant less hydraulic hoses
- Visual load indicators
- Integrated cooling

SPECIFICATIONS

Eccentric moment	45	kgm
Max. centrifugal force	1250	kN
Max. frequency	1590	rpm
Max. amplitude excl. 800kN	23,7	mm
Max. amplitude incl. 800kN	17,7	mm
Max. static line-pull	400	kN
Max. operating pressure	350	bar
Max. oil flow	610	l/min
Forced lubrication	yes	
Dynamic weight excl. 800kN	3800	kg
Dynamic weight incl. 800kN	5075	kg
Total weight excl. 800kN & hoses	5700	kg
Total weight including clamp	7957	kg



BELL BAU200 BELL DOUBLE CUTTER HEAD



BAU200 AMPHIBIOUS EXCAVATOR ROBUSTLY DESIGNED FOR LONG-TERM OPERATION

- Quick swap standard undercarriage
- Triple strand drive chains
- Four drive motors to minimize chain stress
- Adjustable width
- Powerful Bell thrusters
- Full excavator remote control option

SPECIFICATIONS

Base machine	20 tonnes Excavator	
Total weight	32000	kg
Bouyancy	40	m ³
Max. torque	2616	kgf•m
Ground pressure	0.18	kg/cm ²
Max. gradient	30	deg
Max. speed	3.6	km/h
Hydr. System pressure	350	bar
Power	120	kW
Thruster option	yes	
Side pontoon option	yes	
Spud leg option	yes	
Adjustable width	yes	

BELL DOUBLE CUTTER HEAD WIRE SUNSPENDED FOR EMPTYING FOUNDATION PILES OR COFFERDAMS

- Reducing sound nuisance
- Thoroughly emptying piles
- Jet water ring for cleaning tube or casing
- Suitable for consolidated layers, stones, shells
- Time saving



OUR BRANDS



ICE International Construction Equipment has been developing foundation equipment for more than 40 years. The brand is known for its sustainability and value for money. Thousands of customers worldwide trust ICE for its foundation equipment. ICE offers vibratory hammers, excavator mounted vibratory hammers and vibroflots with power packs.
www.ice-holland.com



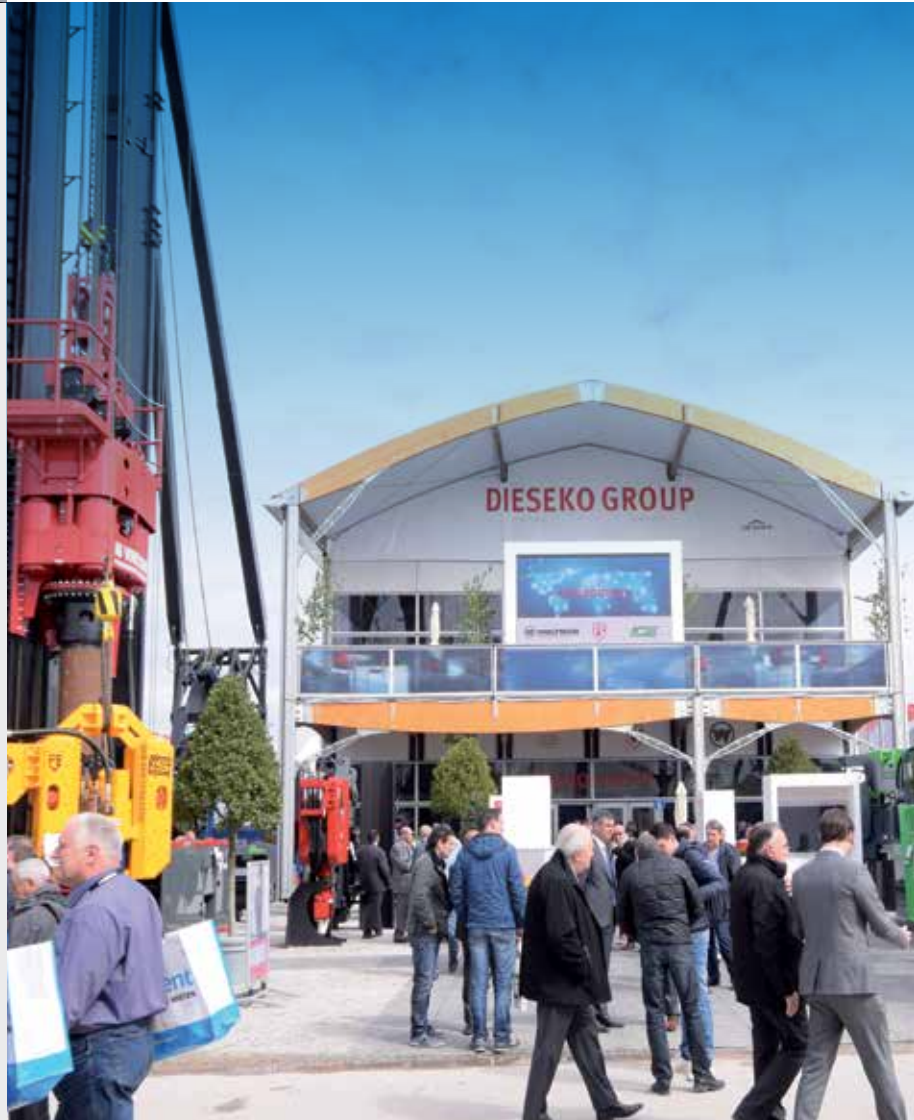
Innovation is the heart of PVE Piling & Vibro Equipment. PVE works in close collaboration with customers and the R&D department works overtime to come up with new solutions. The variable moment vibratory hammers and the patented time saving upending solutions are famous all over the world. PVE offers also a wide range of offshore vibratory hammers, pressing machines, rotary heads and impact hammers. A game changing innovation is the Resonator, a revolutionary pile driver driving without any vibrations.
www.pve-holland.com



Woltman Piling & Drilling Rigs is a specialist when it comes to foundation and ground improvement equipment. The state of the art Woltman Piling & Drilling rigs are sophisticated and developed according to the latest technologies. The rigs are designed in such a way that they can be easily operated in an efficient and safe way. The high efficiency of Woltman Piling & Drilling rigs is achieved by its reliability achieved by high standard materials, parts such as powerful engines and hydraulic systems. Woltman offers solutions for every foundation and ground improvement technology.
www.woltmanrigs.com



Bell Dredging Pumps is highly specialized in engineering and manufacturing dredging equipment for the international market. Bell is the all-round solution provider as it not only manufactures dredging equipment but also supports all its customers with project management and operators on the project job site. With specialized dredging equipment, amphibious excavators, dredgers and extensive experience, Bell is the right supplier for all dredging related companies.
www.belldredgingpumps.com



DIESEKO GROUP INNOVATIVE FOUNDATION EQUIPMENT

PVE	ICE	WOLTMAN	BELL
VIBRATORY HAMMERS	VIBRATORY HAMMERS	PILING RIGS	DREDGING PUMPS
RESONATORS	VIBROFLOTS	DRILLING RIGS	AMPHIBIOUS EXCAVATORS
RING VIBRATORS	POWER PACKS	PDS RIGS	CUTTER DREDGERS
PRESSING MACHINES		VIBRATORY RIGS	BOOSTER STATIONS
ROTARY HEADS		PRESSING RIGS	WATER JET PUMPS
IMPACT HAMMERS		RIC RIGS	POWER PACKS
POWER PACKS		CONCRETE PUMPS	WEED HARVESTERS

CONNECTING POWER

With four renowned brands, Dieseko Group represents powerful high-tech equipment for the global foundation industry. As part of the Dutch manufacturing industry, we are proud of our people, our brands and our customers who use our solutions in many applications. Since 1974, Dieseko Group has contributed to developing foundation technology. We want to share that technology with others around the world in order to ensure that our clients get the best equipment available. That is our connecting power.

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