



# PILING RIGS DRILLING RIGS PRODUCT RANGE

**DIESEKO GROUP**

 **WOLTMAN**  
PILING & DRILLING RIGS



## FOUNDATION EQUIPMENT FROM **DIESEKO GROUP**

The Dieseko Group, which was established in 1974, is a manufacturer of a wide range of products for the foundation industry. The range is divided into five product lines: vibratory hammers and impact hammers, piling and drilling rigs, soil improvement equipment, dredging equipment and hydraulic power units.

Dieseko Group is owner of the brands PVE Piling & Vibro Equipment, ICE International Construction Equipment and Woltman Piling & Drilling Rigs. Dieseko Group also supplies Bell Dredging equipment.

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**



**PRESSING**



**RESONATING**



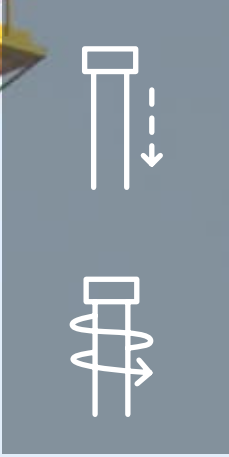
**PILE DRIVING**



**DRILLING**







# WOLTMAN SPECIALIZED FOUNDATION EQUIPMENT

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 and high standard materials and parts such as powerful engines and hydraulic systems. Woltman offers solutions for nearly every foundation and ground improvement technology.

- Piling rigs
- Piling rigs PDS type
- Drilling rigs
- Rapid Impact Compaction rigs
- Crawler mounted concrete pumps



URBAN



RURAL



HARBOR



INDUSTRIAL



OFFSHORE



# WOLTMAN PILING RIGS DRILLING RIGS

## PILING RIGS

The Woltman piling and drilling rigs are developed according to the latest demands for performing traditional piling works as well as the latest piling and ground improvement technologies. Besides the ability for excellent performance for piling and drilling operations, the rigs also meet the latest environmental requirements such as efficient use of fuel and meeting emission standards. The Woltman piling and drilling rigs are suitable for every challenge in the field of foundation technologies and ground improvement.

Advantages:

- Designed for the job
- High mobility increasing cost effectiveness
- Excellent stability ensures suitability for every jobsite
- High efficiency by reliability
- In house manufactured accessories
- Wide range of Woltman PR and PDS type range of piling rigs
- Woltman's long experience and wide product range

## DESIGNED FOR THE JOB

The Woltman rigs are especially designed for piling operations and ground improvement, which makes them unique compared to other machines available on the market. The contribution of decades of experience in the foundation market is well implemented in the in-house development and design of our rigs.

## HIGH MOBILITY INCREASING COST EFFECTIVENESS

The compact size of the of the smaller range of Woltman rigs enables the machines to work in areas with limited access. Their excellent mobility enables our clients to execute several smaller project in one day as the compact rigs are erected and lowered in only minutes. The rigs are equipped with a self-erecting leader which reduces the time of assembly considerably.



*Piling and drilling rigs available with leader system for sideways inclined piles up to 14 degrees (4:1)*



Especially when it comes to the installation of raked piles the PDS rigs prove their point. With help of the outriggers that are mounted to the rear of the boom of the crane, bigger rake positions are achieved and less working space is required compared to traditional pile driving installations. The PDS rigs can be used onshore but also offshore on a barge, pontoon or Jack up barge. Woltman offers different models of which the PDS 1000 and 1200 are still easy to transport by a low-boy trailer. The PDS 3000 is designed more specifically to work permanently from a barge or ship for offshore and harbor work.

### **EXCELLENT STABILITY ENSURES SUITABILITY FOR EVERY JOBSITE**

The Woltman rigs are designed with a wide undercarriage and low center of gravity which provides high stability and makes the piling rigs suitable for every jobsite.

### **HIGH EFFICIENCY BY RELIABILITY**

The high efficiency of Woltman piling rigs is achieved by the powerful engine and hydraulic system. Woltman only uses top quality parts for its rigs such as Caterpillar and Cummins engines and Bosch Rexroth hydraulic pumps and parts.

### **IN HOUSE MANUFACTURED ACCESSORIES**

Woltman piling and drilling rigs are multipurpose by the possibility of equipping the rigs with all kinds of in house manufactured accessories. Woltman | Dieseko Group develops and supplies its own impact hammers, vibratory hammers, ring vibrators, vibroflots, resonators, pressing machines, power packs and much more. Because all accessories are manufactured in house, the best possible and most reliable configuration is achieved for the job. Of course all Woltman rigs can also be equipped with other brands of auxiliaries.

### **WIDE RANGE OF WOLTMAN PR AND PDS TYPE PILING RIGS**

The Woltman PR-range covers compact designed rigs up to large piling rigs with leader lengths exceeding 164 ft. Besides large piling rigs with fixed leader Woltman also supplies piling rigs with suspended leader, the unique and patented range of PDS type rigs. The PDS type rigs provide the perfect solution for projects where pile driving and heavy lifting are combined. This makes the machines very suitable for offshore operations.

The PDS type rigs are versatile in use, because they can operate with or without suspended leader. Equipped with suspended leader the PDS type piling rigs are equipped with special designed outriggers, supporting the suspended leader, which makes the piling rig suitable for high inclination raked piles. The PDS type piling rigs are suitable for onshore and offshore piling operations where they can operate from pontoon, barge and jack-up barge.





# YOUR BENEFITS

**Woltman offers a complete range of piling and drilling rigs suitable for nearly every foundation or ground improvement job. With Woltman you can be assured of the following benefits:**

- The right machine for the job
- Efficient operations
- Multi-purpose machines for foundation and ground improvement
- Fast 24/7 service in case of emergencies
- Large spare part inventory
- Worldwide dealer network
- Rental fleet of piling rigs and auxiliaries
- In house manufactured auxiliaries such as impact hammers, rotary heads and vibratory hammers
- Technical support department for support in foundation technologies and drive-ability studies
- In-house research, development and engineering department for custom made configurations.

The Woltman drilling rigs are designed and manufactured for the performance of a large range of drilled piles. The Woltman drilling rigs are equipped with a powerful engine combined with a special designed hydraulic system to power the rotary head directly saving the need for a separate power pack. The Woltman drilling rigs have a very high mobility and can be mobilized and erected in a very short time. The rigs are excellent for use in urban areas and job sites with difficult access. The Woltman drilling rigs can be equipped with rotary heads from 80 kNm up to several high torque rotary heads providing a maximum torque of 500 kNm (50 ton/meter) Another feature on our drilling rigs is the specially designed pull down system that automatically adapts to drill resistance. This makes the drilling operations easier to control.

As the Woltman drilling rigs are equipped with powerful high performance engines and high torque resistant leaders they are perfect to use as multi-purpose rigs. Besides the configuration as drilling rig they can be equipped to perform several foundation and ground improvement applications.

For foundation technologies the rigs can be equipped for pile driving with impact hammers. For cast-in-situ piles a ring vibrator can be added to withdraw the temporary casings from the soil. The multi-purpose rigs are also suitable to install sheet piles with a vibratory hammer, resonator or even a hydraulic pressing machine. For ground improvement operations the rigs are able to perform vibroflotation or rigid inclusions. The Woltman multi-purpose rigs are suitable for the following applications. Which reduces the time of assembly considerably.

## **APPLICATIONS PILING RIGS**

- Timber piles
- Steel caisson piles and beams
- Steel sheet piles
- Prefabricated concrete piles
- Cast-in-situ concrete piles
- Vibro replacement
- Vibro compaction

## PRODUCT RANGE PILING RIGS



- Suitable for nearly every piling project with leader lengths from 17,5 meters up to 51 meters
- Woltman rigs are equipped with self-erecting leaders which contribute to high mobility
- High efficiency by using only A-brand quality parts and excellent quality control procedures
- In house manufactured auxiliaries like impact hammers, vibratory hammers and power packs increase the efficiency and progress of piling operations

### PILING RIGS



		30 PR	40 PR	50 PR-FF	90 PR	160 PR
Standard leader length	mtr	17,5	21,8	24,8	30	46
Max. leader length	mtr	19,5	24,8	27,8	36	51
Max. weight for hammer + pile	ton	10	13	18,5	30	60
Max. pile length	mtr	17	20	21(24)	30	42,5
Hammer winch	ton	8	10	12(14)	25	30
Pile winch	ton	6	7	12(10)	25	30
Capacity of aux. winch	ton	3	3	4	6	10
Diesel engine		CAT	CAT	CAT	CAT	CAT
Engine output	kW/HP	183/250	183/250	183/250	350/475	257/350
Operational width	mm	3.600	4.100	4.400	4.800	5.300
Transport width	mm	3.000	3.300	3.450	3.500	3.750
Operational weight incl. hammer	ton	36	48	62	108	200
Recommended impact hammer	PVE	3/4NL(-S)	4/5NL	5/6/7NL	9NL/12NL	14/16NL

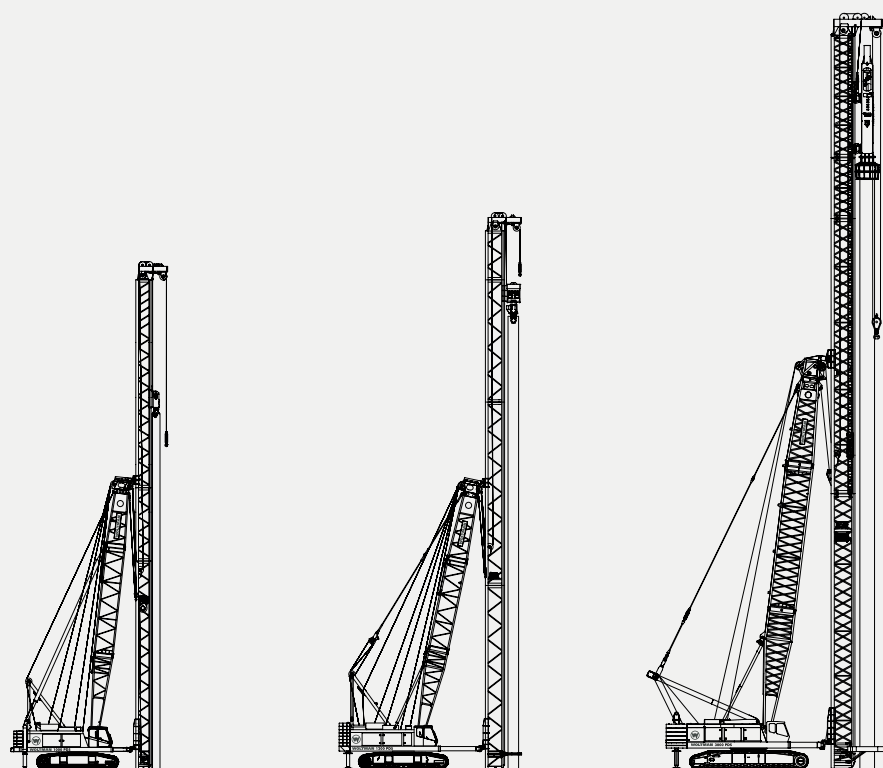
## PRODUCT RANGE PDS PILING RIGS



## WOLTMAN PDS PILING RIGS

- Excellent machines for heavy piling operations with long pile lengths and large diameters
- Very suitable for offshore piling operations, with or without leader, and heavy lifting operations
- Smart configurations like a combination with vibratory hammer followed by pile driving with an impact hammer is common practice with the PDS piling rigs
- The PDS piling rigs are very suitable for driving raked piles with large inclinations

### PDS-TYPE PILING RIGS



**PDS 1000**

**PDS 1200**

**PDS 3000**

Max. pile & hammer weight	ton	37	48	65
Max. lifting capacity at 4,2 m	ton	100	120	300
Capacity hammer winch	ton	15,0	15,0	20,0
Capacity auxiliary winch	ton	6,0	7,5	10,0
Standard diesel engine		CAT	CAT	CAT
Output diesel engine	HP	475	475	475
Transport width	mm	3500	3980	upon request*
Transport length	mm	20100	15900	upon request*
Transport height	mm	4120	3550	upon request*
Transport weight	ton	80	66 ton*	upon request*

\* this machine can be transported in different configurations, detailed packing lists are available.



## PRODUCT RANGE DRILLING RIGS



## WOLTMAN DRILLING RIGS

- Suitable for every drilling project with leader lengths from 17,5 meters up to 51 meters
- Woltman drilling rigs are equipped with self-erecting leaders which ensures high mobility
- High efficiency by using only top quality parts and excellent quality control
- Woltman drilling rigs are designed for many drilled pile types like CFA piles and full soil displacement piles and therefore equipped with high torque resistant leaders
- In house fabricated rotary heads increase the efficiency of your piling operations
- Rotary heads are powered by the Woltman drilling rig engines which contribute to the excellent mobility on the job site
- Woltman drilling rigs are multipurpose and can be equipped in almost any configuration when it comes to pile driving, pile drilling or ground improvement

## DRILLING RIGS



		35 DR	45 DR	55 DR	90 DR	160 DR
Standard leader length	mtr	17,5	21,8	24,8	30	46
Max. leader length	mtr	19,5	24,8	27,8	36	51
Max. weight for rotary + auger	ton	5,9	7,4	12	30	60
Max. torque	kNm	80	150	250	500	500
Max. drill depth	mtr	17	22	26	33	48
Max. pull up	ton	32	40	50	100	120
Max. pull down	ton	6	10	20	30	30
Capacity of aux. winch	ton	3	3	4	6	30
Diesel engine		CAT	CAT	CAT	CAT	CAT
Engine output	kW/HP	183/250	294/400	350/475	563/765	257/350
Operational width	mm	3.600	4.100	4.400	4.800	5.300
Transport width	mm	3.000	3.300	3.450	3.500	3.750
Operational weight incl. rotary	ton	35	53	64	102	185
Recommended rotary head	PVE	RH-8	RH-15	RH-25	RH-45HS	RH-45HS



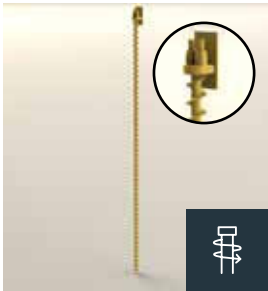







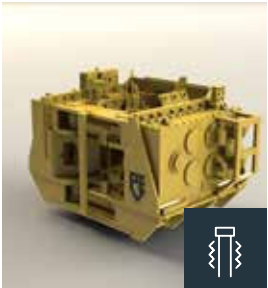



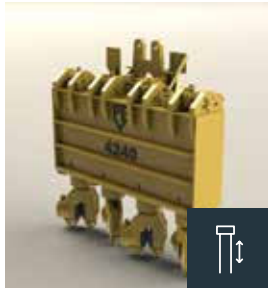



## MULTIPURPOSE RIG



## A FLEXIBLE DRIVING MACHINE

All of our drilling rigs are available as multi-purpose rigs. We have a great variety auxiliaries that can be attached to a multi-purpose rig, which makes this a flexible machine for numerous foundation applications.

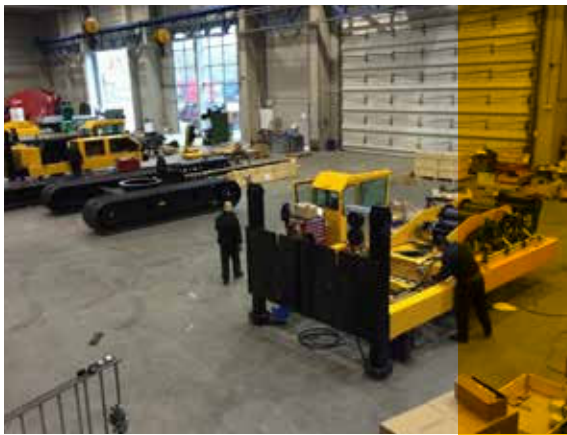
### DRILLING RIGS

IMPACT HAMMER	DOUBLE ROTARY DRILLING	CFA DRILLING	FULL DISPLACEMENT DRILLING	VIBRATORY HAMMER
				
				
RING VIBRATOR	LINEAR VIBRATORY HAMMER	RESONATOR	VIBROFLOT	PRESSING MACHINE
				
				





# PROFESSIONALS IN THE FIELD



High standard production facility – Woltman piling and drilling rigs are assembled in two modern production facilities in The Netherlands. Only A-brand components are being used and before delivery to the customer, high standard quality control procedures and a certified independent testing is carried out to guarantee the excellent quality of the Woltman rigs. The high capacity of the production facilities ensure a short delivery time and in many occasions, the rigs are available from stock.

The high stability of Woltman piling and drilling rigs ensures they can perform well on every jobsite. Soil conditions sometimes can be challenging due to soil type, excavation or weather conditions. Woltman machines can perform efficient and safe even in the most difficult situations.



Woltman understands that piling operations need to be carried out cost efficient. For this reason we designed our piling and drilling rigs with high mobility features. Self-erecting leaders, transport possibilities without removing hammer or rotary head ensures that our piling operations are performed with high efficiency and smooth transport from one job site to the other.



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**Dieseko Group certified dealer:**

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