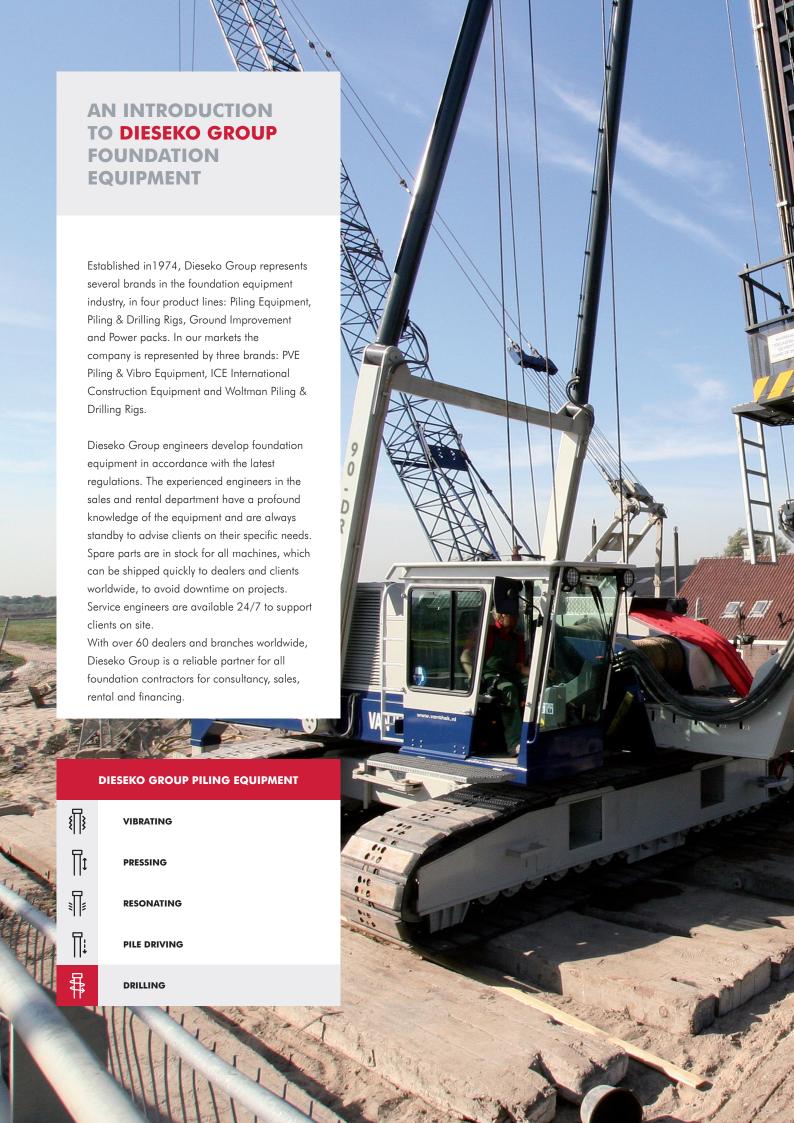


HYDRAULIC ROTARY HEADS PRODUCT RANGE







ROTARY HEADS FOR PILE DRILLING

Every project is unique and has its own foundation requirements. Several vibration free drilled pile systems are available in the market. For this reason PVE offers a wide range of rotary heads suitable for traditional drilled piling systems like Continuous Flight Auger (CFA) piles up to state of the art drilled cast-in-situ soil displacement piles.

PVE manufactures rotary heads for easy drilling applications with a torque starting at 3 kNm which can be suitable for pre-drilling activities prior to (sheet) pile driving. The PVE range of rotary heads varies up to high torque rotary heads with a torque up to 500 kNm which makes the rotary heads excellent for drilled soil displacement piles and large diameter CFA piles. The maximum pile length normally depends on the leader length of the drilling rig. With the unique PVE pile clamping system longer pile lengths are possible by leading the casing through the rotary head.



HDDAN



DUDA



HARBOR



INDUSTRIAL



EXPERIENCE THE ADVANTAGE OF PVE ROTARY HEADS

PVE rotary heads are designed to drill with variable speed and are assembled with A-brand components. The ingenious design enables a very close working distance to adjacent buildings. The heaviest rotary head, with a torque capacity of 500 kNm, will drill casings through dense soil layers ensuring a smooth and efficient piling

The performance of drilled soil displacement piles requires high torque rotary heads. For CFA piling rotary heads with torque values up to 250 kNm are usually sufficient. For the CFA piles application PVE developed a range of auger cleaners. The PVE auger cleaners are powered hydraulically and have been designed with the knowledge of many years of field experience. Auger cleaners remove extracted soil during drilling ensuring a safe work environment. The PVE auger cleaners can be assembled in such a way that they are able to guide the drilling auger on the right pile position.

Suitable cranes for drill & rotary head applications



operation.











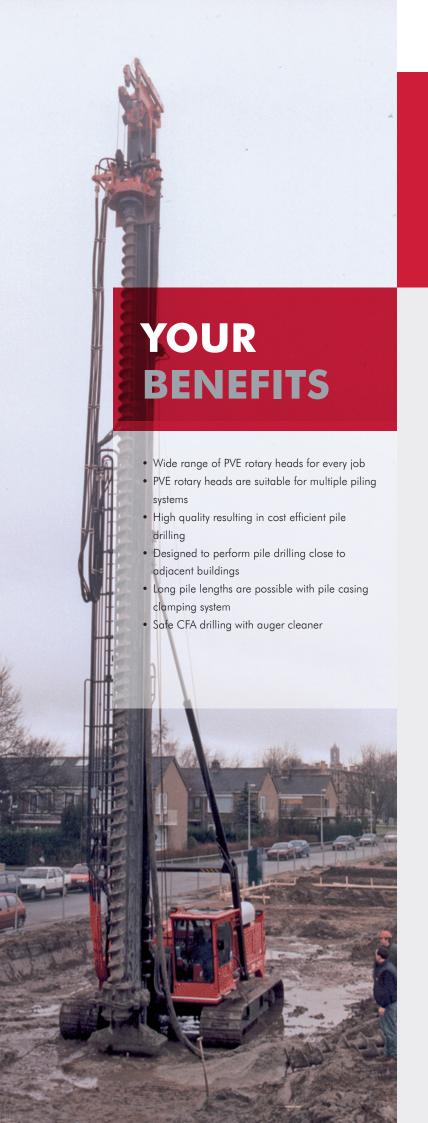


PDS rig

S rig Excavato

Boom crane

purpose



DRILLLING APPLICATIONS

CFA DRILLING

Continuous Flight Auger (CFA) piling is a fast and sound proof piling system. An auger driven by the rotary head is drilled to the required pile tip depth while transporting soil to the work surface. After the required pile depth is reached concrete is pumped through the rotary head in the hollow shaft of the auger. During concreting the auger then is extracted and the drilled shaft is filled with concrete. PVE also supplies Woltman crawler mounted concrete pumps to support your CFA piling operations.

DOUBLE ROTARY DRILLING

Double rotary drilling is actually a CFA pile where the CFA auger is separated from the soil by an outer casing. Both auger and outer caisson are driven by independent rotary heads in counter rotation. The two independent rotary drivers are coupled to each other to ensure simultaneous lowering and lifting of auger and casing. Double rotary drilling is often used for secant piling or contiguous piles for shoring purposes.

FULL DISPLACEMENT DRILLING

Drilling cast-in-situ soil displacement piles has the advantage of relatively high bearing capacities without soil coming to the surface. A drill shaft with a special pile nose pushes the soil sidewards into the surrounding layers. After reaching the required pile depth, the casing is filled with concrete and rebar. The drill shaft then is ready for extraction, leaving the drill nose behind and a smooth and strong reinforced pile is formed. The described drilling operation can also be performed while injecting grout through a nozzle in the drill shaft and pile nose.

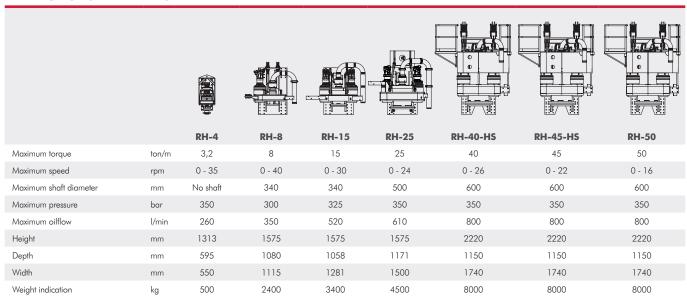




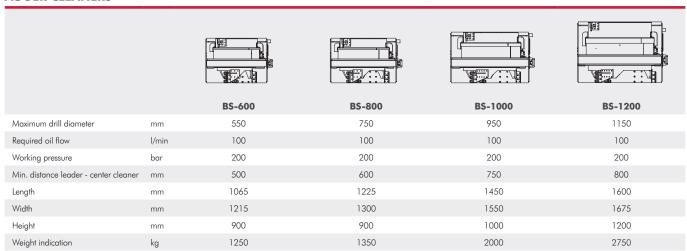
COMPLETE RANGE FOR EVERY CHALLENGE

With a complete range of rotary heads PVE offers a solution for several drilled pile systems. From small compact rotary heads suitable for pre-drilling and CFA piles up to large high torque rotary heads for large diameter CFA piles and of course drilled soil displacement piles. In case your drilling rig needs more power to perform pile drilling, PVE manufactures and supplies power packs which are very suitable to power hydraulic rotary heads, when the power and hydraulic system of the drilling rig are not sufficient.

HYDRAULIC ROTARY HEADS



AUGER CLEANERS



PROFESSIONALS IN THE FIELD





PVE rotary heads are available with a unique clamping system which is very suitable for drilling soil displacement casing piles. Long pile lengths are possible by leading the steel casings through the rotary head. After reaching the final pile tip level the clamping system releases the top of the pile casing which will be ready to be filled with rebar and concrete.



area for the piling crew on site. The auger cleaner also guides the auger in to the soil which contributes to the pile position accuracy.







Depending on the pile type PVE rotary heads are also available with a bayonet coupling solution for easy and fast connection to the pile shaft. This solution is common for drilled soil displacement piles where the temporary drill shaft is withdrawn from the soil.



Dieseko Group B.V.

(headquarters)
Lelystraat 49
3364 AH Sliedrecht, the Netherlands
Tel: (+31) 184 410 333
info@diesekogroup.com
www.diesekogroup.com

Woltman Piling & Drilling Rigs

(service & manufacturing) Ambachtsweg 16 3381 LN Giessenburg, the Netherlands Tel: (+31) 184-652044 info@woltmanrigs.com www.woltmanrigs.com

Woltman Piling & Drilling Rigs

(sales & manufacturing)
Everdenberg 17
4902 TT Oosterhout, the Netherlands
Tel: (+31) 184-430900
info@wolfmanrigs.com
www.wolfmanrigs.com

PVE Equipment USA Inc.

5011 Vernon Road Jacksonville, FL 32209, USA Tel: (+1) 904 765 66 86 info@pve-equipment.com www.pve-equipment.com

Pilequip Pty. Ltd.

..................

39 Chapman Road Vineyard NSW 2765, Australia Tel: +61 2 9838 3144 info@pilequip.com.au www.pilequip.com.au Shanghai ICE Construction Equipment Trading Company

No. B8, Building 31, ChuanSha International Industrial Garden, 6999 ChuanSha Road, PuDong District, 201202 Shanghai, P.R. China Tel: (+86) 21 3468 8990 info@icevibro.com www.icevibro.com

Dieseko Brasil

Rua Cícero Dantas, 42 - CEP 06713-230 - Cotia - SP Brasil Tel: (+55) 11 996 545 097 info@diesekogroup.com www.diesekogroup.com

Dieseko Group certified dealer:

DIESEKO GROUP

