



a.p. van den berg

# Hydraulic Pile Pusher

pushing precast piles without noise and vibrations



## features

- application of high quality precast concrete piles
- no nuisance from noise and vibrations
- proven technology
- data registration for correlation with cone penetration tests
- several models with pushing forces ranging from 60 to 1200 ton

creating tools that move your business

# Hydraulic Pile Pusher, pushing precast piles without noise and vibrations



## high quality foundation, no nuisance

The traditional driving of precast piles by means of a piling hammer still dominates the European market, partly supported by the high quality and reliability of both the pile as well as the installation method. However, because of regulations and environmental issues the

various cast-in-situ methods are becoming more popular as these limit noise and vibrations. Yet, these methods do not provide foundations with the high quality similar to the precast foundation pile and the methods are more costly. The Hydraulic Pile Pusher from A.P. van den Berg does produce this high-grade foundation, without the nuisances inseparable from pile driving. Already for over a decade precast piles are successfully pushed into the soil instead of driven on a large scale in Asia. Noise is kept to a minimum and the surroundings are not exposed to vibrations. The machine builder and market leader T-Works from Changsha, China, has delivered more than 1,000 machines and the design of their machines is protected by several patents. As exclusive distributor of T-Works, A.P. van den Berg now provides the European market access to these Hydraulic Pile Pushers.

## suitable for each project and each precast pile

The pushing machine can be configured to your requirements. It is available in different sizes achieving pushing capacities of 60 to 1,200 tons through a combination of the own weight of the machine and that of counter weights. The pushing mechanism consists of four hydraulic cylinders, providing the pushing force and the stroke of approximately 2 m, and a hydraulic clamp to hold the pile. This clamp can be set for several round or square pile diameters or even piles in a different shape. A generator set, that meets the European standards, drives the electric motors. A combination of long and short boats with rail constructions and trolleys allows the machine to walk from pile to pile position and to rotate 360 degrees around its axis. Especially for pushing piles at the side of the working field or close to adjacent structures, a second pushing system is available on the side of the machine. This side pusher provides 50% of the pushing force of the central pushing system.

## CE marking and data registration equipment

A.P. van den Berg adjusts the machines to conform with the European legislation, specifically concerning safety and the environment. The result is a pushing machine that meets the Machinery Directive and has the required CE-marking. A.P. van den Berg also adds intelligence by means of data registration equipment that captures the various parameters of each pile during pushing. This facilitates a comparison with cone penetration tests and delivers per pile a proof of the bearing capacity.

## ease of use and durability ahead

T-Works and A.P. van den Berg have many years of experience in machine building and the drive to stay ahead in the market. By joining forces they ensure continuous improvements. Durable materials are used and the machine is easily and quickly assembled and maintained. Depending on the size of the machine, some basic elements should be removed for transport. Then the machine and the required amount of counter weights are transported to the project location. T-Works as well as A.P. van den Berg feel strongly about aftersales and service. This is reflected by extensive training, installation assistance on site and quick support during operations.

## Specifications

Below you find the most important specifications of three models; the 60, 320 and 600 tons versions. Other specifications or models are available upon request.

Specifications per model	60 t	320 t	600 t
Pushing force (kN)	600	3200	6000
Pushing speed (m/min)	3 to 6.3	1.9 to 7.1	1.4 to 7
Machine power (kW)	22	74	111
Dimensions during operations l x w (m)	5.2 x 3.8	12.5 x 7	14 x 8.08
Total machine weight excl. ballast (ton)	32	108	167
Max. pile size (mm)	□300 / Ø300	□500 / Ø600	□550 / Ø800
Stroke length pushing clamp (m)	1.6	1.9	1.9
Turning radius (m)	9	14.2	16.5

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We reserve the right to change specifications without prior notice.