

BROCHURE

THW 8027 PILING RIG

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FOUNDATION RIGS AND CRAWLER CRANES

THW 8027

GENERAL INFORMATION

The THW 8027 is a hydraulic piling rig with a total weight of 80 tonnes excluding a hydraulic hammer. The machine is very suitable for heavy piling jobs with big piles up to 27 metres length. The standard configuration of the THW 8027 is made for executing piling jobs with prefab piles and/or pre-drilling jobs. The pre-drilling jobs can be performed in combination with piling jobs because the rotary head is fitted on the righthand side of the leader. A complete pre-drilling system is available as an option.

The THW 8027 can also be used for driving and extracting cast-in-situ piles and CFA piles. In order to execute these jobs the machine has to be adjusted with a bigger engine, a stronger hammer winch and a manifold which can supply oil to both hydraulic hammers and a rotary head. When these changes have been made to the rig its name changes into the THW 8027-S. All specifications below are of the standard THW 8027.

UNDERCARRIAGE

The THW 8027 is equipped with a D6C undercarriage (H-shaped construction) with BERCO trackparts. The standard 3-rib trackplates are 900 mm wide and optional the trackplates can be covered with a smooth plate. Smooth plates however increase the total weight of the rig. The undercarriage can be hydraulically extended from 3.48 metres to 5.60 metres and the hydraulic trackdrives are O & K planetary gears.

LEADER

The leader of the THW 8027 has a standard length of 30,0 metres and the main dimensions are 900 x 700 mm. In order to reach the maximum leader length of 33,0 metres a 3 metre extension piece can be delivered as an option with the machine. The 6-sheave leader head of the THW 8027 is V-shaped and the leader foot can be dismantled. For positioning the piles the machine will be equipped with a hydraulic pile clamp. Optionally the leader can be fitted with a slideway for a pre-drilling rotary head (righthand side).

DIESELENGINE AND HYDRAULIC SYSTEM

The standard dieselengine in the THW 8027 is a Caterpillar C-9 ATAAC of 350 Hp at 1800 Rpm. This engine is fitted with an original Caterpillar radiator with a cooling capacity up to 50° Celsius meets and also meets the latest environmental regulations (Stage 2/TIER 2). The hydraulic system is powered by Rexroth pumps and Rexroth valve blocks. When required the hydraulic system can be filled with biodegradable oil (optional).

WINCHES

The THW 8027 is equipped with the following hydraulic winches :

WINCH TYPE	LINE-PULL	SPEED	PARTS	DRUM	ROPE DIA.
Hammer winch	12,5 tonnes	0-40 mtr/min.	2	Woltman	22 mm
Pile winch	12,5 tonnes	0-40 mtr/min.	2	Woltman	22 mm
Service winch	6,0 tonnes	0-40 mtr/min.	1	Woltman	19 mm

Optionally it is possible to fit additional winches to the THW 8027.



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CABINS AND OTHER SPECIFICATIONS

The operator's cabin of the THW 8027 has enough room and will be arranged ergonomically. The operator's seat is of a good quality and has built-in joysticks for controlling the rig. Standard control of the rig is by means of hydraulic joysticks (electric control is optional). All instruments in the operator's cabin are easy to oversee and the standard equipment consists of :

- An Inclinator
- A MFA-system for monitoring temperatures, pressures and tank contents
- A Blaupunkt Radio/CD player
- An adjustable heating system (Airconditioning is optional)

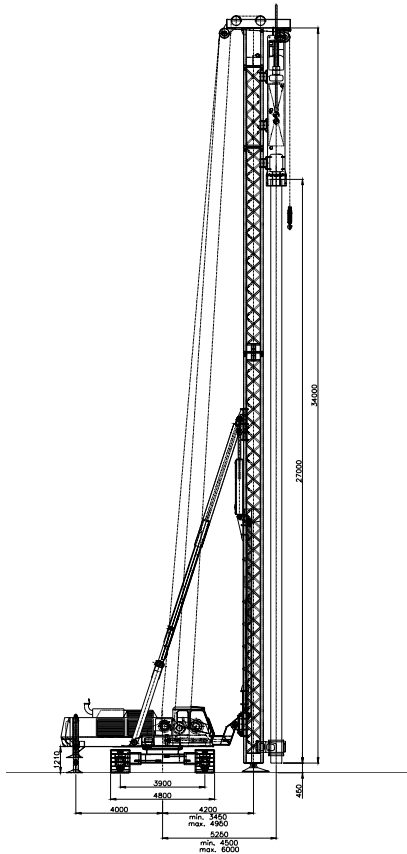
The engine compartments are easily accessible and als easy to dismount. In order to reduce the engine noise, all cabin parts will be fitted with sound isolating foam. All cabins will also be fitted with inner illumination and on the outside of the rig several working lights will be mounted. The complete rig will be painted in your company colours.

The THW 8027 has a sliding brace with a stroke of 1500 mm for spotting on the pile position. The counterweight is fixed and in the counterweight two outriggers have been mounted. With the help of these outriggers and the leader the machine can be lifted off the ground and the undercarriage can be freely rotated. This makes the loading of the THW 8027 on a low loader a lot easier.



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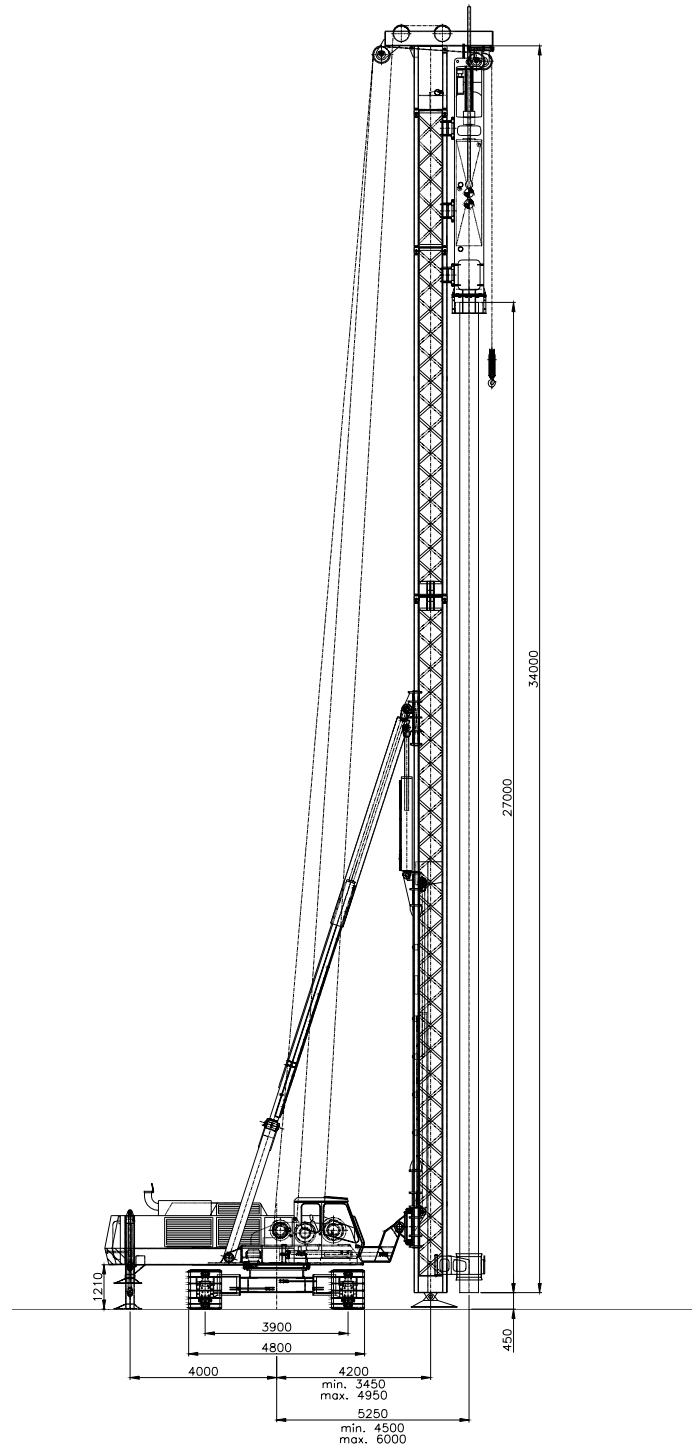
TECHNICAL SPECIFICATIONS THW 8027 PILING RIG



Maximum capacity (pile + hammer)	: 30,0 tonnes
Standard leader length	: 30,0 metres
Maximum leader length	: 33,0 metres
Main dimensions of leader	: 900 x 700 mm
Stroke of leader	: 4.500 mm
Stroke of spotting device	: 1.500 mm
Capacity of hammer winch	: 12,5 tonnes
Speed of hammer winch	: 0-60 mtr/min.
Capacity of pile winch	: 12,5 tonnes
Speed of pile winch	: 0-60 mtr/min.
Capacity of service winch	: 6,0 tonnes
Speed of service winch	: 0-40 mtr/min.
Dieselengine	: CATERPILLAR
Engine power	: 350 Hp at 1800 rpm
Hydraulic pumps	: Rexroth plunger
Valve blocks	: Rexroth
Elektric system	: 24 Vdc
Trackparts	: BERCO
Type of undercarriage	: D6C
Transport length (standard length)	: 22.500 mm
Transport height (without hammer)	: 3.500 mm
Transport width	: 3.480 mm
Operating width	: 4.800 mm
Length of undercarriage	: 5.650 mm
Standard trackplate width	: 900 mm
Counterweight	: 12,0 tonnes
Machineweight without hammer	: 80 tonnes



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