

SAFETY INSTRUCTIONS.



This symbol is used throughout this manual to call attention to the safety instructions. These instructions are of great importance and must be read carefully and obeyed.

This machine is designed and produced to the state of art and in accordance with the accepted safety specifications. Nevertheless, it's operation may cause damage to body and life of the operator or third persons respectively prejudice to the machine and other goods of material value.

The machine must be used only when in technically unobjectionable condition, according to it's use reasonably expected, conscious of safety and possible danger, in strict notice and use of the instruction-manual/handbook! Have in particular, defects that would prejudice safety, **immediately repaired!**

The machine is destined to be used as a piling machine exclusively. Any other operation different from or exceeding the purpose of the machine, is not considered the appropriate use to which the machine is put to. SiteTec will not be liable for any damage resulting from the product mis-use. The user only, will incur the risk!



The appropriate use also means to follow the instruction-manual or handbook and to observe inspection and maintenance rules.

Organization measures:

Keep the instruction-manual/handbook permanently on hand at the machine's place of operation, for instance in the box especially provided for such purpose. This box is located at the inside of the door of the winch compartment, directly under the control-panel (see also page).

In addition to the instruction-manual, observe and instruct the general legal and other mandatory regulations in force at the job-site. Such responsibilities do often also refer to the disposal/wear of personal protection suits and other protective equipment.

Complete the instruction-manual by instructions referring to Company-individual specialities, e.g. with respect to work organization, work-flow, personnel, etc.



WARNING: Before starting the work, the personnel in charge of operating the machine must read the instruction-manual/handbook thoroughly, and in particular the chapter on safety references. New manuals can be obtained on request. Check occasionally if the personnel on the job is sufficiently conscious of safety and danger, and instruct notice and use of the instruction manual if necessary.

The personnel must not wear loose long hair, nor slack clothing nor jewellery including rings, because of danger of injury, e.g. by getting caught or entangled.



Use personal **protection suit** and other protective equipment as far as necessary or mandatory by regulations or the situation at the job-site.

Observe and follow any safety and **danger signs/decals** on the machine but also at the job-site. Keep all safety and danger signs on the machine, if any, in legible condition. Keep them clean. Replace damaged or missing signs. New signs can be supplied by SiteTec. When re-placing a machine component with a sign attached, replace the sign as well. When attaching signs, the mounting service must be clean and dry.

Do not make modifications, extensions or rebuilding to the machine, which would prejudice safety, without the approval of SiteTec! This does also include built-in and adjustment of safety devices and safety valves, as well as the welding at supporting structures.

Spare parts must correspond to the technical specification of SiteTec. Conformity is guaranteed in case of original spare parts only. Use only good workshop tools to perform repair jobs. Notify the location on the machine and use of **fire distinguishers**.



Hydraulic fluid under pressure can penetrate the skin and cause personal injury, blindness or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks; never use your bare hand. Wear safety glasses for eye protection. If any fluid is injected into the skin, contact a doctor without fail.

Externally damaged hydraulic hoses or pipes must be exchanged in time, also when safety is not directly at stake.

Any work on the machine, safety tips relating to certain work phases, be it at electric or hydraulic appliances, must be performed by personnel with particular know-how and experience only!

Safety tips relating to normal working conditions:

Refrain from any working method that would endanger/damage safety!

Before starting work, familiarize yourself with the surroundings of the work area, e.g. any possible hindrances in the reach of the machine, soil conditions (stability), traffic and/or the necessity of beaconing the job-site.

Operate the machine only if all safety devices and safety-dependent appliances, e.g. detachable safety devices, emergency shutdowns, etc. are available and operative.



Check the machine, once at least per shift, for externally perceptible damage and defects. Notify immediately any change (including any deviation from the normal performance in service of the machine). In case of malfunction, stop immediately and protect the machine! See to it that the damage is repaired.

Start the machine from the operator's place only!

Observe the on/off duty control devices according to the instruction manual/handbook.



WARNING:

Before starting/actuating the machine, make sure that nobody is endangered!

SPECIAL INSTRUCTIONS.

Special work in connection with the operation of the machine, it's maintenance and clearing of malfunction during work:

The following points must be observed:

* Observe any activity specified in the instruction manual as to adjustment, maintenance and inspection times, as well as any indications as to the replacement of parts and partial equipment experts only shall execute such work and nominate a supervising person.

* In any work relating to the operation, adaption to manufacture, conversion or adjustment of the machine and it's safety equipment as well as to inspection, maintenance and repair, check your instruction manual/handbook first!

* Secure extensively, as far as necessary, enough working-space around your machine when maintenance work is necessary.

* In case the machine is completely switched-off during maintenance and repair works, it must be secured against unexpected switching-on:

- remove the key from the starting equipment and/or:
- affix a hazard pictorial at the main switch.



* Perform maintenance and repair work only if the machine is positioned on an even and well bearing soil, and secure against rolling or collapsing.

* During replacement individual parts and larger structural components, these must be attached to lifting gear and secured in order to avoid a possible source of danger.

Only use appropriate and technically perfect lifting gear with sufficient carrying capacity.



Do not stay or work underneath suspended load!

* Charge skilled personnel only with the use of lifting gear. The supervising person must keep in visual distance to the operator or be in voice connection with him.

* For any work above body height, use appropriate or safe-proof stairs and working platforms. Do not use machine parts as ascending equipment!

* See to it that handles and steps or planks remain clean from oil, fuel, grease, snow, etc., in order to avoid maintenance personnel to slip.

* Clean the machine prior to repair or maintenance work. Use environment-friendly cleansers only. Use fibre-free cleaning rags.

* Before cleaning the machine with water or by steam-jet (high-pressure cleaner), cover/ glue-up all openings into which for safety and/or functional reasons, water/steam/cleanser must not penetrate, particularly exposed electrical equipment such as switch/control boxes.

* Do not forget to remove again the covers after cleaning.

* After cleaning, check fuel-, motor oil-, hydraulic oil-hoses and linings for leakages, loose screwings, shears and damage! Repair failures stated immediately.

Reference to particular danger:



Electricity:

Use original fuses only with specified current intensity.

See to it that the machine remains well away from high-current, above the earth located cables.

The leader of the machine may never come in the vicinity of such a cable! Very dangerous!

It goes without saying that also underground cables are very dangerous! Check it's location before you start the piling job!

The electric equipment of the machine must be inspected/ checked on a regular basis. Defects like loose connections resp. scorched cables must be repaired immediately. If repair is necessary, uncouple the cables of the battery/generator or other supplier of electricity.

WARNING:



Never do any welding on the machine or pile-casing if the source of current is not disconnected! One has to switch-off the leader switch in order to realize same. Same holds for the control-circuit when the machine is electrically driven. **Disengage the emergency switch!**



Gas, dust, exhaust fumes, etc.:

When the power source of the machine is a diesel engine and must work in an enclosed area, be sure that the area is sufficiently aerated. One has to be pre-informed about the working conditions and the prevailing safety regulations at the job-site.

Welding, burning and grinding on the machine or pile-casing may only be performed when this is explicitly consented. This because there may exist danger for explosion or fire, etc..

Hydraulics:

Persons with special knowledge and experience in hydraulics only, must work at the hydraulic system. Check in regular intervals all conduits, hoses and screwings, valves, etc. for leakages and externally perceptible defects. Immediate repair is necessary as spurting oil may cause injuries and fire.



WARNING:

Prior to repair work, depressurize the system(s). This implies that hydraulic pump(s) must be idle (electric or diesel engine not running).

When hydraulic components have to be renewed, use original parts only, in order to be sure that the quality of the system is maintained e.g. with regard to the existing pressures.

Sound:

When the machine is at work, one must make use of sound protectors for the ears. As wearing of a helmet is obligatory, it is advised to make use of a two-in-one combination.

Oil, grease and other chemicals:

When using oil, grease or other chemical materials, observe the product-related safety references!

Transportation and towing; re-operation:

Have the machine towed, loaded/shipped and transported only in accordance with the instruction manual/handbook.

Use appropriate transportation means and lifting equipment with sufficient capacity only!

Perform re-operation of the machine only in accordance with the instruction manual/handbook.