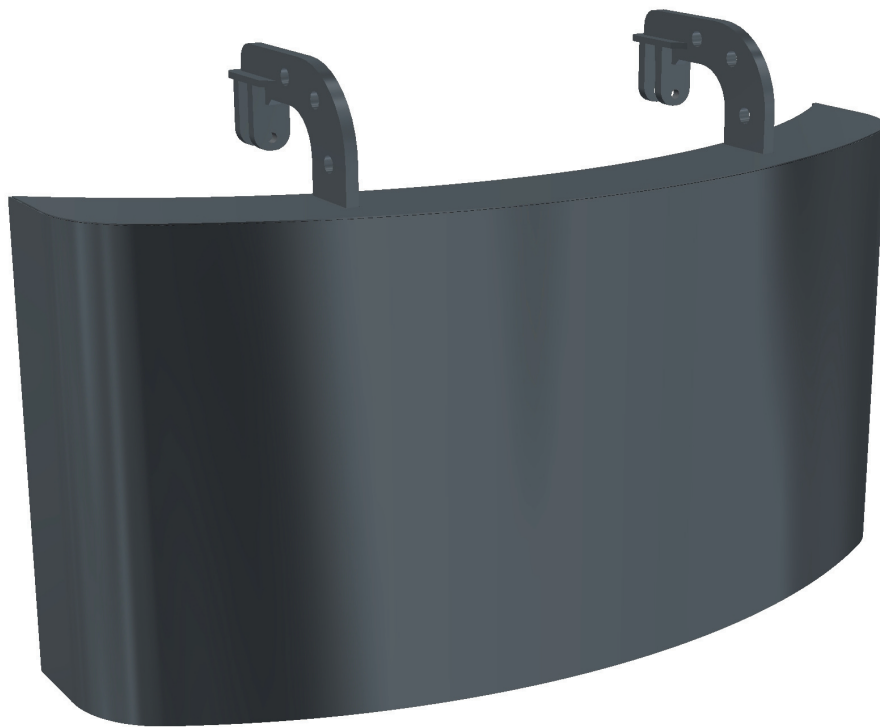


## COUNTERWEIGHT FOR EXCAVATOR



## Installation and Safety Instructions

CE

**Euroholz**  
**Maschinen Handel**  
**J. J. Kolegowicz**

Schwerter Str 26 58099 Hagen  
Mobil: +49 160 914 180 15 • Büro: +49 2331 624 46 77 • Fax: +49 2331 624 46 78  
E-mail: info@euroholz-hagen.de • [www.euroholz-hagen.de](http://www.euroholz-hagen.de)

**Fill in by seller**

**Attachment Typ:**

**Built for excavator type:**

**Year of manufacture:**

**Other details / specification:**

**Date of purchase:**

**Signature / stamp of seller:**

CE

2

# Contents:

## 1. Introduction

1.1. Safety	5
1.2. Potential Hazards	5
1.3. Forbidden Operations	6
1.4. Precautions	7

## 2. Use

2.1. Starting Safely	7
2.2. General Safe Operation Rules	7
2.3. Paying Attention to Manual	7

## 3. Preventive Operation and Maintenance

3.1. Safe Operation Procedure	8
-------------------------------	---

## 4. Installation

4.1. Pre-installation Preparations	9
4.2. Installation Procedure	10

Thank you for trusting us and choosing one of our products - the counterweight by EUROHOLZ - Maschinen Handel.

All our products have been designed and built based on the long-lasting experience of our company. Each product has been developed to work efficiently and designed to be reliable.

We have produced this manual to help our clients safely install and use the EUROHOLZ products.

You are requested to accurately read the content of the manual to make sure that you have improved your understanding of the rules which you must follow when installing and using the counterweight by EUROHOLZ.

EUROHOLZ  
MASCHINEN HANDEL

This document is protected by copyright. Without permission of the company Euroholz - Maschinen Handel, it mustn't be published neither completely nor partially in any way. It also mustn't be changed or given to a third party. Copying for your own use, e.g. usage by driver or operator, is allowed.

CE

4

# 1. Introduction

## 1.1. Safety

**1.1.1.** Your and other people's safety directly depends on the way in which you use and maintain the equipment. Read and understand the operation manual and other documents corresponding to the safe use of the machine and make sure that you have understood all the information before you start to operate the equipment. Do not ignore the above warnings since doing so may lead to body injuries and even death or damages of someone's property.

**1.1.2.** Use relevant precautions as used in case of other machines, the safe usage and maintenance of which depend on the personnel's operation. Make yourself accurately familiar with the complete content of the manual chapter devoted to keeping safety and the markings on your equipment. Maintain all safety marks (warning stickers, reflective marks etc.) well or replace them with new ones if lost or destroyed. In case of the backside counterweight, it is necessary to apply new markings on the counterweight if the original ones have been covered on the machine.

**1.1.3.** EUROHOLZ is not able to prevent all hazardous situations which constitute a threat to human life. The warnings listed in this manual and specified on the safety marks on your equipment make in no circumstances a complete list. If a procedure, method, tools or part of the machine is not duly recommended by EUROHOLZ, you must be aware of being liable for that and immediately make sure that it is safe for you and others and that the equipment will not be damaged or become hazardous as a result of that decision.

**1.1.4.** The fundamental safety behaviour rules are summarised in this manual chapter. These rules also appear further in the text of the manual and there they are directly related to all other safety and operation rules.

## 1.2. Potential Hazards

**1.2.1.** The counterweight is provided to increase the abilities of the machine to lift loads by means of a longer arm than the standard arm. However, you must avoid overloading the digger as this might lead to serious damages. The lifting capacity may change depending on whether the machine is on an even and stable ground.

**1.2.2.** Improper "lifting" may bring heavy destruction or damage to the machine. The machine should work in positions recommended for maximum stability (the tips are included in the digger manual).

## 1.3. Forbidden Operations

1.3.1. It is forbidden to stay within the working site of the machine.

1.3.2. It is forbidden to use the machine with a counterweight which not entirely fastened or improperly installed.

1.3.3. The backside counterweight is only used to balance the weight of the machine (this weight counterbalances the weight at the end of the arm) and it must not be used in any other way.

1.3.4. Never use a digger which shows any damages of the backside counterweight (loosened fastenings, cracks etc.)

## 1.4. Precautions

1.4.1. Under no circumstances modify the EUROHOLZ products unless you have been authorised by the manufacturer to do so. These products have been designed for specific works and a failure to follow the recommendations may cause human injuries, death or damages to the machine.

1.4.2. Lower the arm onto the ground every time before you want to go out of the operator's cabin.

1.4.3. Provide yourself with proper close fitting protective clothing and safety equipment required at work. All these protective measures should be used to prevent injuries every time when operating or maintaining the machine. The proper equipment should include protective goggles, tough helmet, protective footwear, gloves, ear protections etc.

## 2. Operation

### 2.1. Starting Safely

2.1.1. Carry out an accurate inspection by walking around the machine and checking all of its elements every time before starting the machine.

### 2.2. General Rule for Safe Operation

2.2.1. Whenever the operator leaves the machine equipped with the counterweight for any reason, it is necessary to lower the arm on the ground.

2.2.2. Be particularly careful to prevent the counterweight from colliding with the objects and units of equipment surrounding it, especially when it operates in reduced visibility or inside buildings. It is necessary to get familiar with the entire height and length of the machine equipped with an additional counterweight.

### 2.3. Paying Attention to Manual

2.3.1. Before starting to work with the new machine, it is suggested to make it possible for the operator to get familiar with the equipment within a large open space on a levelled ground which will be free from obstacles such as trees, buildings or other equipment, with people staying outside the space. Test the machine on stable ground and take time to make yourself familiar with the machine and its particular elements.

2.3.2. Each movable part of the machine shows unique and specific performance and requires a different level of sensitivity when being operated - each model of the machine reacts differently to the controller movements.

2.3.3. The time used to learn how to operate the machine will allow the operator to get familiar with how the machine responds to the controller movements before starting to work.

2.3.4. It is very important for the operator to be aware of the fact that the digger equipped with an additional counterweight may respond differently to the control commands (rotation, lifting) than the original machine.

# 3. Preventive Operation and Maintenance

## 3.1. Safe Operation Procedure

**3.1.1.** Inspect the machine every day. Do not work on an improperly maintained equipment or when the machine is damaged since doing so may cause the machine structure to get entirely damaged. Pay special attention to the mounting of the additional counterweight. All instances of play may damage the machine.

**3.1.2.** Lower the arm on the ground every time before you go out of the cabin. If this is impossible, you need to preventively secure the machine and the arm by using supports. To do this, do not use materials which might get crushed or bent under the impact of the load.

**3.1.3.** It is recommended to switch off the digger to prevent its damage while maintaining the equipment.

**3.1.4.** Never use the machine if it is in bad technical condition. In such case, provide the machine with a board with a warning inscription: "MACHINE OUT OF ORDER. DO NOT WORK ON THE MACHINE".

**3.1.5.** Before starting to work on the machine, make sure that all indicator lamps have been properly tagged and secured in order to prevent unauthorised persons from being able to start the machine as each operator must get familiar with all the operation principles and be aware of the machine being used by other operators if there are any.

**3.1.6.** While starting the machine, it is necessary to use the assistance of two persons - the operator supervising the system of indicators must see the person who is controlling the machine from the outside.

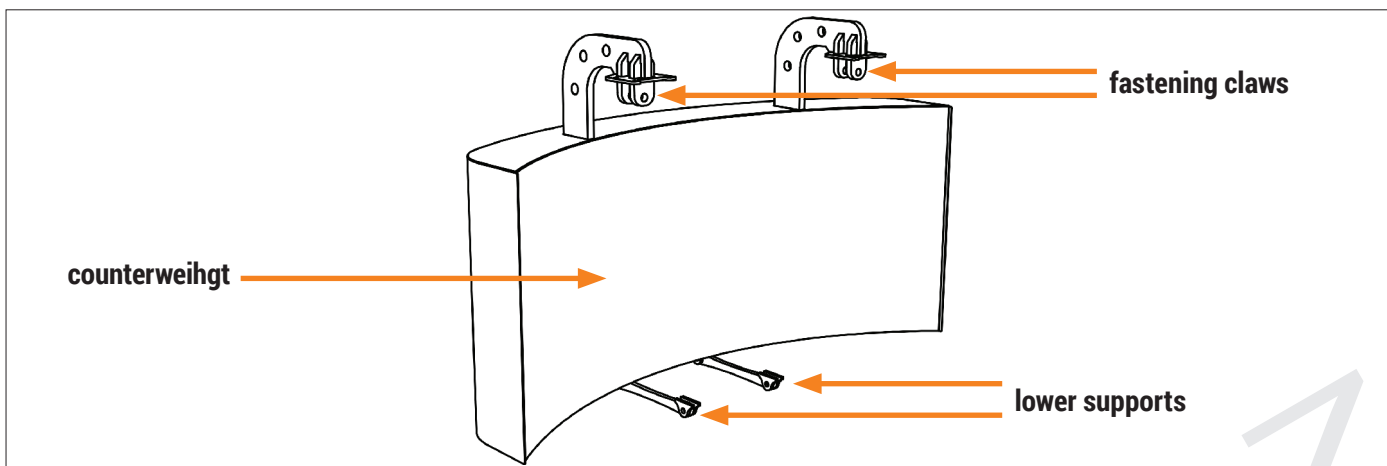
**3.1.7.** Keep your hands away from the moving parts. It is forbidden to maintain the machine while it is in operation.

**3.1.8.** Provide yourself with proper close fitting protective clothing and safety equipment required at work. All these protective measures should be used to prevent injuries every time when operating or maintaining the machine. The proper equipment should include protective goggles, tough helmet, protective footwear, gloves, ear protections etc.

**3.1.9.** Be familiar with the safe operation and maintenance procedures before starting to work. Do not start repairing a defect of the machine if you do not have full and professional relevant knowledge about it.



## 4. Installation



### 4.1. Pre-installation Preparations

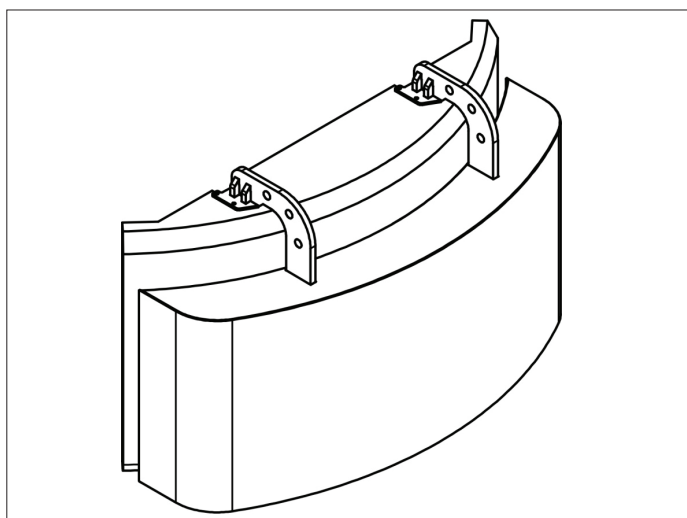
4.1.1. It is recommended to visually inspect the backside counterweight every time before the installation as well as to improve it. You need to do this as a preventive action to check if any element has been damaged during transport or when unloading the equipment.

4.1.2. Do not remove the original counterweight to install the backside counterweight.

4.1.3. Before starting to install the backside counterweight, it is necessary to position the machine on an even and stable ground.

### 4.2. Installation Procedure

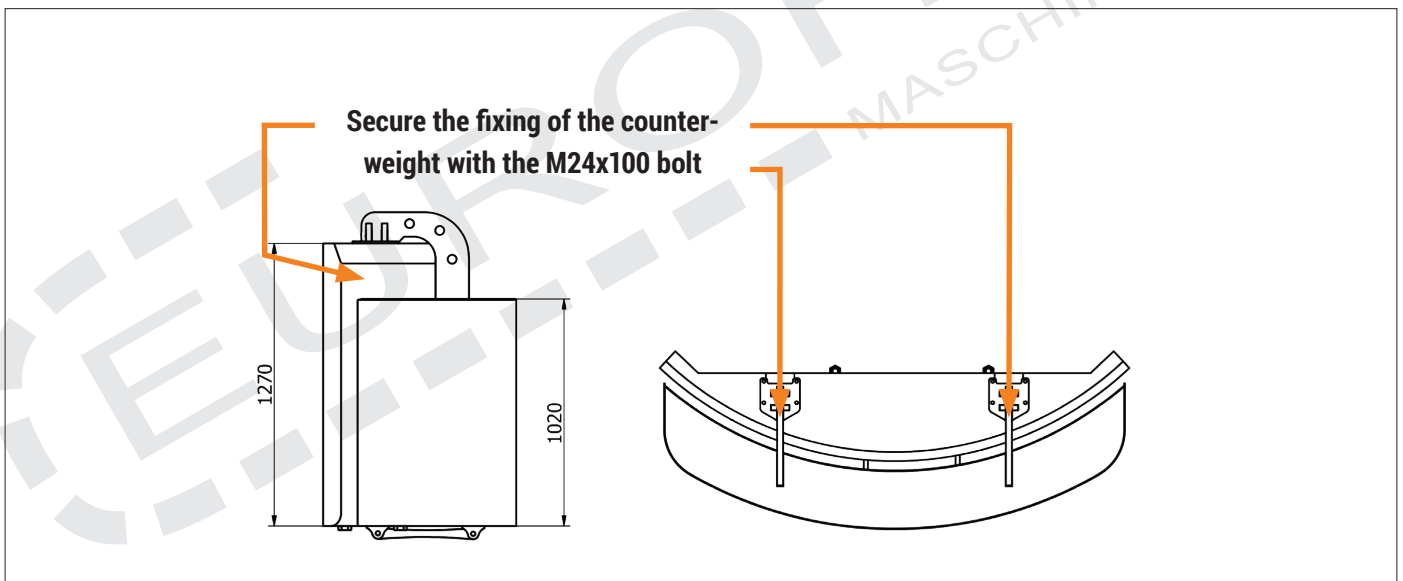
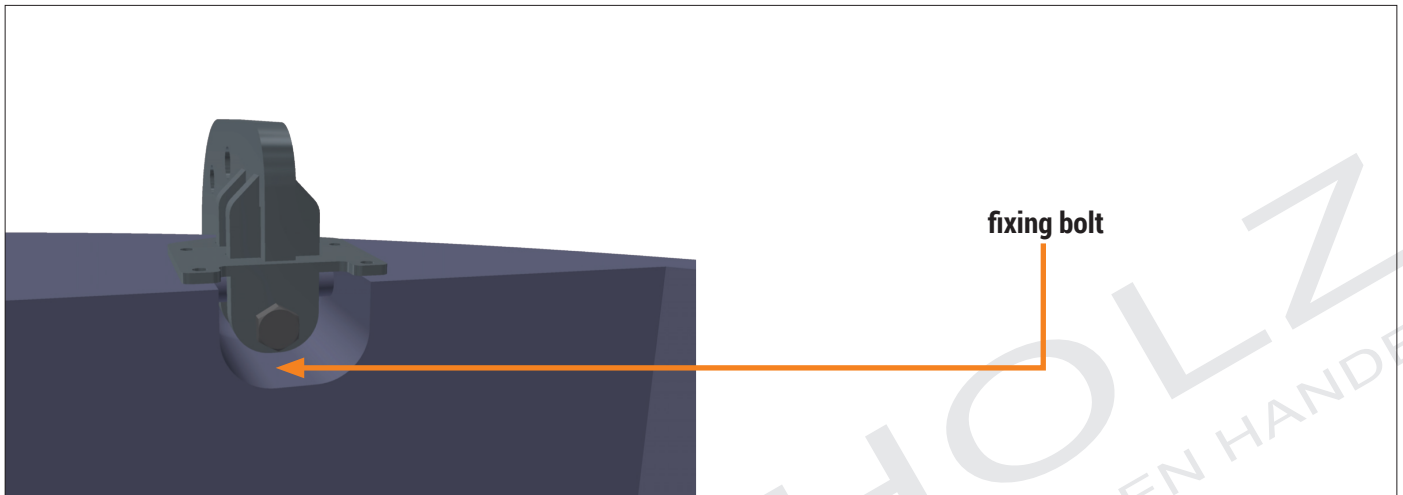
4.2.1. Carefully lift the backside counterweight by means of a travelling overhead crane towards the machine. Install and position it so as to make sure that the fixing claws go into the holes on the original counterweight.



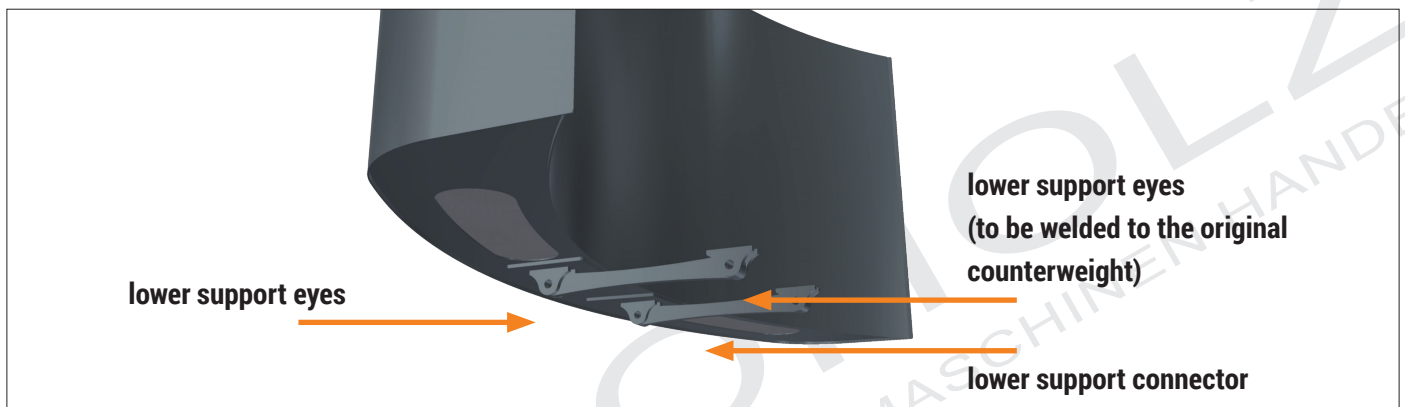
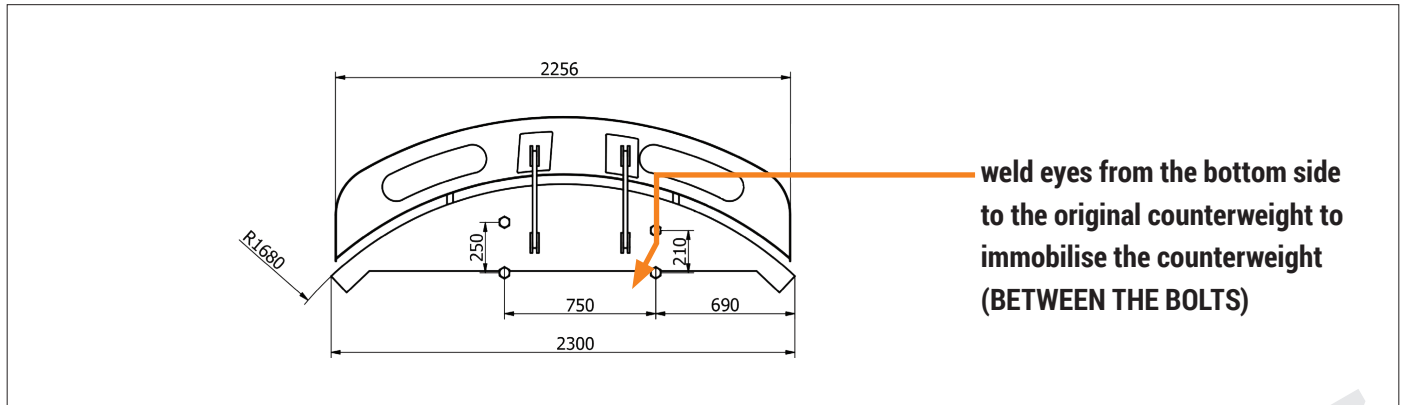
**SAFETY WARNINGS:**

- a) Use only the chains or cables / harnesses which can carry the counterweight.
- b) Attach the chains or cables / harnesses to the installation brackets provided on the top part of the counterweight.
- c) Never allow anyone to stay directly under the counterweight when it is being raised.

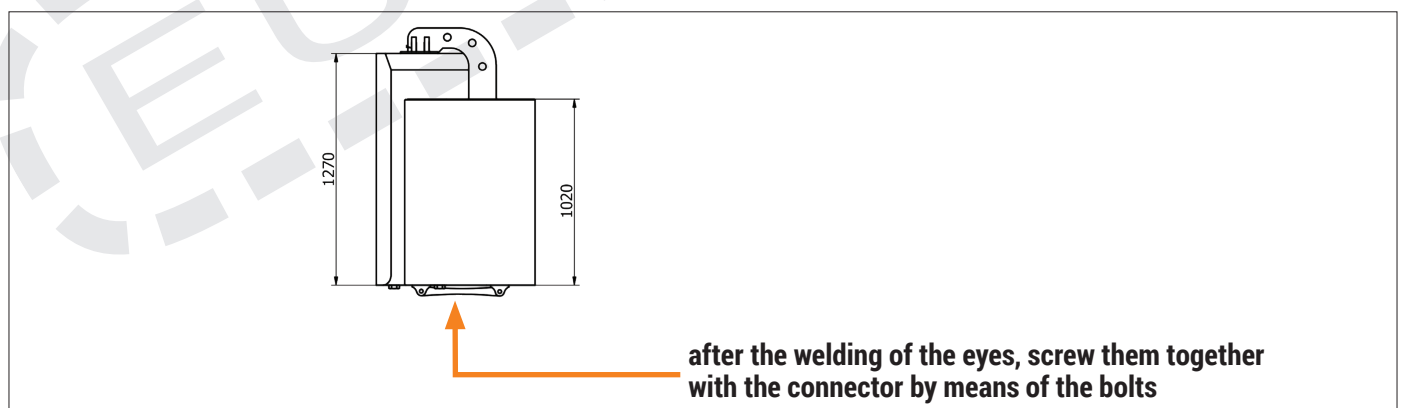
4.2.2. After positioning the counterweight, secure its fixing with the M24x100 bolts.



4.2.3. After fixing the claws, weld the lower support elements (eyes) in the lower part of the original counterweight.



4.2.4. After the welding of the eyes, screw the connectors by means of the supplied bolts.



4.2.5. After the installation, paint the spots destroyed while welding the eyes with the genuine paint.

4.2.6. Remove the safety cables (chains, slings). After this operation, the machine is ready for operation.