

# Clamp directions no. 24042023

for installing the prefab concrete elements of Bosch Beton Verkoopmaatschappij B.V.

By hiring a clamp from Bosch Beton Verkoopmaatschappij B.V. (trade register no. 09069727 also trading under the name of Bosch Beton) you have opted for an optimal method for installing Bosch Beton prefab concrete elements. For the sake of your own safety, it is important that you read through the following clamp directions thoroughly before use and observe them. Bosch Beton assumes that hoisting work will be performed by persons who are in possession of a valid hoisting certificate.

## CERTIFICATION

If required, a valid test certificate can be supplied with the clamp. The clamp meets the CE standards. The clamp has a II-a declaration in accordance with EC Machinery Directive 2006/42/EC

## TECHNICAL DATA

### Clamp B MKK3000

Maximum bearing load:	3000 kg
Clamp dimensions:	610x440x210 mm
Unladen weight of the clamp:	36 kg
Thickness of new rubber:	5mm
Range:	60-100/100-140 mm

### Clamp BLR MKK3100

Maximum bearing load:	3100 kg
Clamp dimensions:	620x430x210 mm
Unladen weight of the clamp:	38 kg
Thickness of new rubber:	15mm
Range:	70-110/110-150 mm

### Clamp C BSV 3500

Maximum bearing load:	3500 kg
Clamp dimensions:	1800x330x900 mm
Unladen weight of the clamp:	210 kg
Thickness of new rubber:	30mm
Range:	80-140 mm

### Clamp F MKK5000

Maximum bearing load:	5000 kg
Clamp dimensions:	600x250x910 mm
Unladen weight of the clamp:	93 kg
Thickness of new rubber:	15mm
Range:	60-140 mm

### Clamp H MKK8100 LV

Maximum bearing load:	8100 kg
Clamp dimensions:	745x250x1058 mm
Unladen weight of the clamp:	220 kg
Thickness of new rubber:	15mm
Range:	80-200 mm

### Clamp P 5310.0347

Maximum bearing load:	6000 kg
Clamp dimensions:	1370x870x450 mm
Unladen weight of the clamp:	160 kg
Thickness of new rubber:	120mm
Range:	50-300 mm

To avoid possible freezing of the clamp and/or load, hoisting work may only be performed at an outside temperature of 5°C or higher.

## WORKING METHOD

### Step 1: Inspection

Before putting the clamp to use, you should check the following issues yourself; in the event of doubt, always consult a (hoisting) expert:

- Ensure that all the controls are accessible and not concealed under soiling.
- Ensure that the structure is not bent, cracked or damaged.
- Ensure that the hoisting eye and accompanying pin are not worn to more than 10% of the cross section.
- Ensure that the clamp is attached to the hoisting machinery in the correct way.
- Ensure that the hoisting machinery is suited to the load to be hoisted.
- Ensure that the grip rubbers on all the clamps are sufficiently thick (minimum 80%) and do not show any wear, damage or soiling.
- Ensure that the bolts and nuts are properly tightened.
- Ensure that the switching mechanism is working properly.
- Ensure that hinged parts are free of sand or soiling.
- Ensure that all securing pins are well secured.
- Ensure that the safety chain (supplied by yourself) is not damaged or worn; replace where necessary.
- Ensure that the correct clamp opening has been set and secured.
- Ensure that the load to be hoisted is in fact suited to this clamp.

### Whenever components of the clamp show faults, they must immediately be returned to Bosch Beton for inspection and/or repair!

- Make a note of the date that the clamp is taken out of use.
- Attempt to ascertain the cause of the defect, for example:
  - Overloading.
  - Inappropriate use (the clamp is not designed for dragging or hauling materials).
  - Irresponsible use.
  - Rough and/or careless use.

### Step 2: Adjustment

The clamp opening can be adjusted on the underside of the clamp by inserting the pin of the lowest turning point into a different hole. The hoisting point can be adjusted by inserting the hoisting point pin into the required slotted hole, so that the hoisting load can be hoisted straight.

### Step 3: Commencing Use

**3.1** Insert the crane hook into the hoisting eye of the clamp. If the crane hook is too large for the hoisting eye, use a certified extension. Only one retaining wall may be hoisted at a time. Before lowering the clamp over the retaining wall to be hoisted, the clamp must be (locked) in the open position.

**3.2** Manoeuvre the clamp above the retaining wall to be hoisted. Carefully lower the clamp over the load in the centre. Always use the full depth of the clamp;

**3.3** Now hoist the clamp slowly; this unlocks the switching mechanism and the retaining wall is clamped. When hoisting, avoid shocks or sudden turning movements by the crane so as to prevent swinging and loss of the retaining wall.

**3.4** Manoeuvre the clamp above the place where the load is to be released.

**3.5** Position the retaining wall on a firm and stable surface. The load may be released only once it is supported on the ground.

**3.6** Open the clamp and lock the clamp by turning the pin in the hoisting point a ¼ turn (90 degrees) and slowly raise the clamp. Repeat the actions above to correct the position of the retaining wall as required.

**NB! Where hoisting takes place at 1.5 metres or higher above ground level, or over an obstacle, the safety chain must always be used! This chain must be supplied by the hirer themselves and installed on the hook of the hoisting vehicle. Take the load to be hoisted into account here!**

## SAFETY INSTRUCTIONS

- It is always prohibited for persons to be under the hoisting load.
- Never hoist more than the maximum permitted hoisting load.
- Never allow body parts to be under the load or between the clamp jaws.
- The clamping force is reduced when clamping soiled and/or frozen elements. Clamp rubbers and load must for this reason always be clean.
- The load may only be hoisted and not dragged over the ground.
- The clamp may never be used for tilting and/or turning the load.
- The hoisting equipment to which the clamp with load is attached must have adequate load-bearing capacity.
- Treat the clamp with care, with a view to the safety of yourself, your colleagues and the surroundings.
- If you know or suspect that the clamp has been overloaded, it is important for safety reasons for the clamp to be immediately checked thoroughly by an expert.
- No alterations may be made to the clamp.
- Failure to comply with the safety instructions will automatically result in the voiding of all warranty and/or liability for any cases of damage.

The following instructions are shown on the clamp:



Read the directions for use before use



Do not pass under the clamp – hazard from falling objects

#### TERMS & CONDITIONS

The order for hiring a clamp must be communicated to our sales department and will be confirmed to you by order confirmation. If the clamp is to be collected by you from the Bosch Beton premises, you should inform our Planning Department by phone beforehand. You may report to the reception desk for this. The period and costs for hiring the clamp can be agreed with a Bosch Beton sales consultant. When returning the clamp, please report to the reception desk.

If the clamp has to be collected by Bosch Beton for return, return costs will be charged, and the clamp must be placed ready on a paved surface for it to be loaded using a pallet truck.

Different terms/conditions are possible only after explicit agreement between the hirer and the Sales Department, and must be recorded in writing beforehand.

The clamp is and remains the property of Bosch Beton Verkoopmaatschappij B.V.

Where damage or wear occurs to the hoisting clamp as a result of rough and/or careless use, all costs for repairs etc to the hoisting clamp will be charged to you. In the event the clamp is lost (after 14 days), the full rental and the new replacement value for the clamp will be charged.

#### GENERAL

**Being in possession of and the use of hoisting clamps and/or other materials from Bosch Beton is at your own risk.**

Bosch Beton Verkoopmaatschappij B.V. can never be held liable for damage resulting from poor performance of the work and/or failing to comply with the clamp directions. Moreover, all claim under warranty is ruled out if the clamp directions are not complied with. Nothing contained in these directions may be copied and/or made public by means of print, photocopy, microfilm or in any other way, without permission in writing from Bosch Beton Verkoopmaatschappij B.V.

Where damage or wear occurs to the hoisting clamp as a result of rough and/or careless use, all costs for repairs etc to the hoisting clamp will be charged to the hirer. In the event the clamp is lost (after 10 days), the full rental and the new replacement value for the clamp will be charged to the hirer.

Nothing contained in these directions may be copied and/or made public by means of print, photocopy, microfilm or in any other way, without permission in writing from Bosch Beton Verkoopmaatschappij B.V. The general conditions of supply and directions for users of Bosch Beton Verkoopmaatschappij B.V. shall apply to all our quotations, transactions, work and services, to the exclusion of any general conditions of supply of the customer. These directions/terms can be viewed at all times on [www.boschbeton.com](http://www.boschbeton.com) and will be sent to you on request.