



**ADJUSTABLE CLAMPING RANGE UNIVERSAL
LIFTING CLAMP for Concrete material
(Non-marring type)**

AMC 250N

AMC 500N

Operation Manual

This operation manual explain the basic usage and handling of clamps. Please do not fail to carefully read this instruction manual before use and never fail to follow each attention of usage for the proper handling of clamps.

***SUPER*TOOL**

■ Applications

Apply this clamp to the carriage, loading and unloading of concrete products.

■ Features

1. You can obtain a wide range of clamping by changing the position of the ratch according to the size of the work.
2. You can lift the work well-balancedly by setting the shackle at the central gravity point.
3. Pads continue to always press against the work due to the spring built in the unit, which is ready to lift the work.
4. Use of polyurethane rubber material for pads does not damage the work.
5. Ensure the clamping of workpiece by applying spike mechanism for pad type.
6. The clamping power increases in proportion to the weight of the work, which ensures a safety operation.

■ Specification

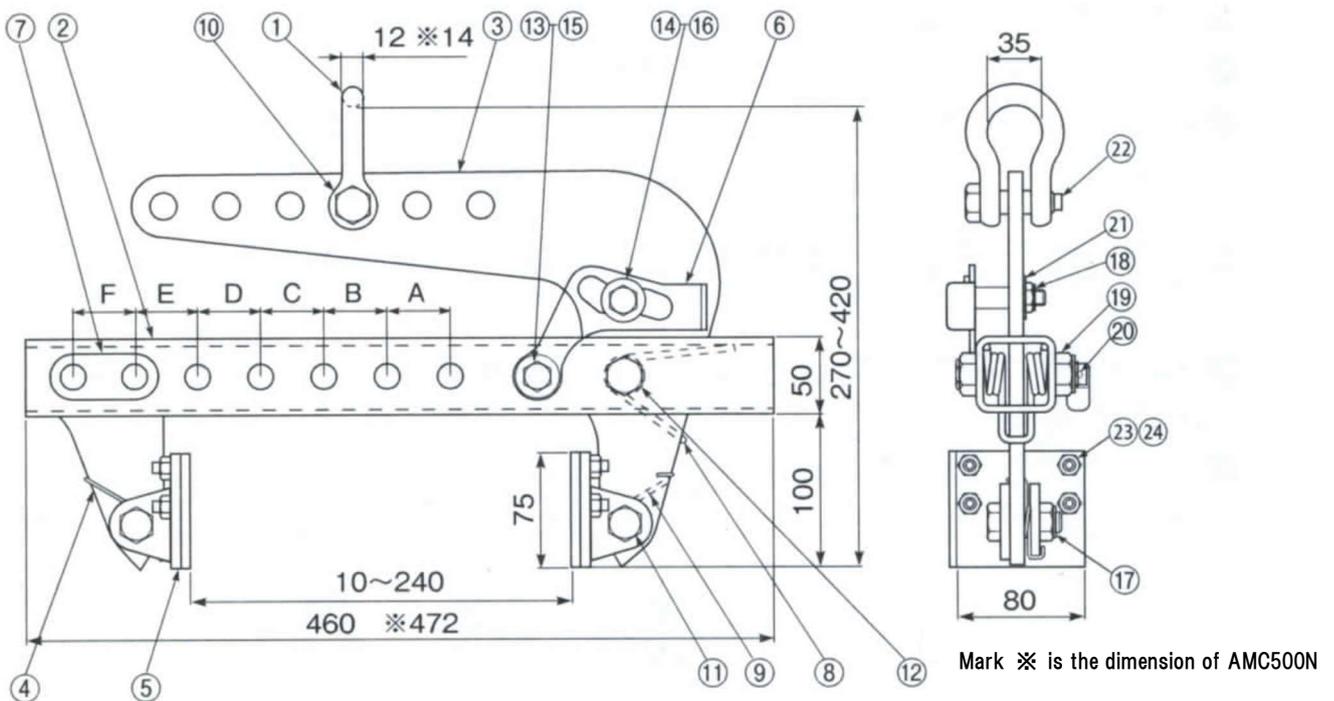
Item No.	Capacity	Clamping Ranges	N.W.
AMC 250N	250 kg	10~240mm	5.4 kg
AMC 500N	500 kg	10~240mm	7.5 kg

● Table of clamping ranges

(Unit: mm)

Position of the hole of the adjustable pins	A	B	C	D	E	F
AMC 250N	10~40	40~80	80~120	120~160	160~200	200~240
AMC 500N						

● Major Dimensions

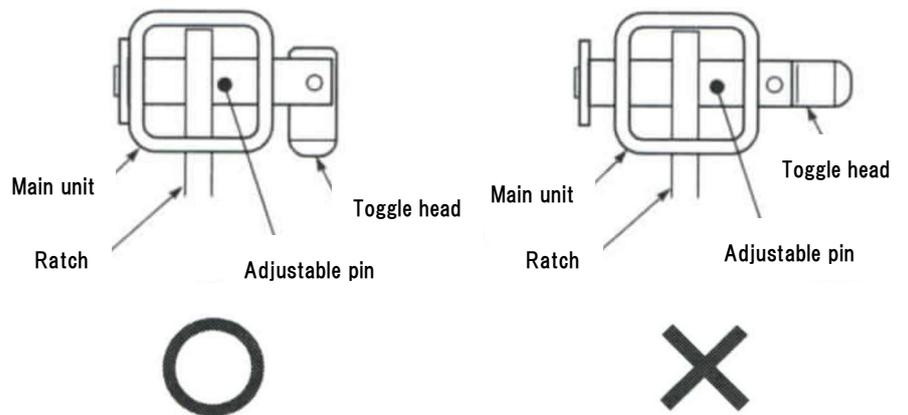


● Table of Parts

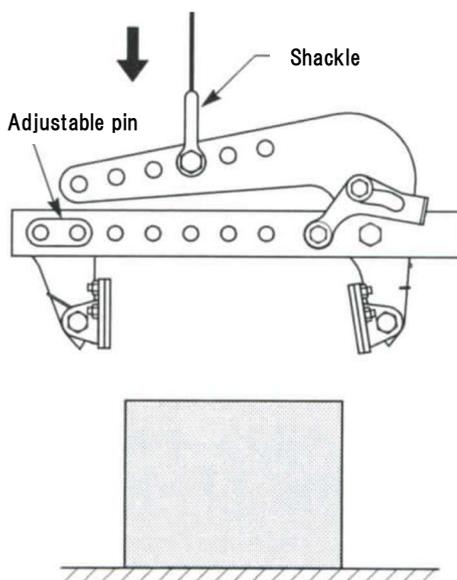
No.	Parts Name	Q'ty	No.	Parts Name	Q'ty	No.	Parts Name	Q'ty
1	Shackle	1	9	Spring for pads	2	17	U-nut	2
2	Main unit	1	10	Bolts of shackle	1	18	U-nut	2
3	Arm	1	11	Bolts for pads	2	19	U-nut	1
4	Ratch	1	12	Bolts for main unit	1	20	Spring pin	1
5	Pad	2	13	Bolts for lever (long)	1	21	Flat washer	4
6	Lever	1	14	Bolts for lever (short)	1	22	Throttle pin	1
7	Adjustable pin	1	15	Collar (long)	1	23·24	Spike · Hex nut	8
8	Spring for arm	1	16	Collar (short)	1			

■ Method of operation

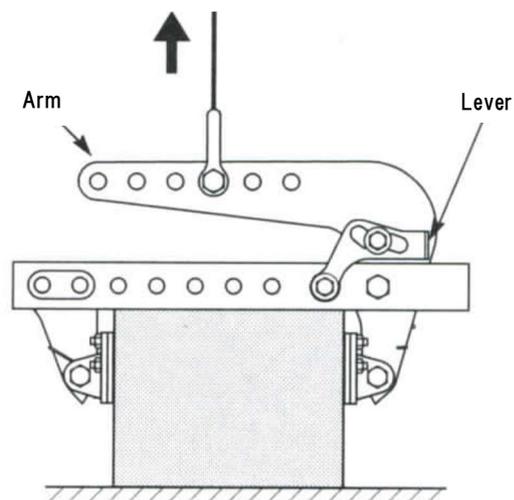
1. Adjust the position of the adjustable pin according to the sizes of the work. When shifting the position of the adjustable pin, put the pin through the main unit to the very end until the toggle head appear.



2. Adjust the position of the shackle according to the central gravity points.

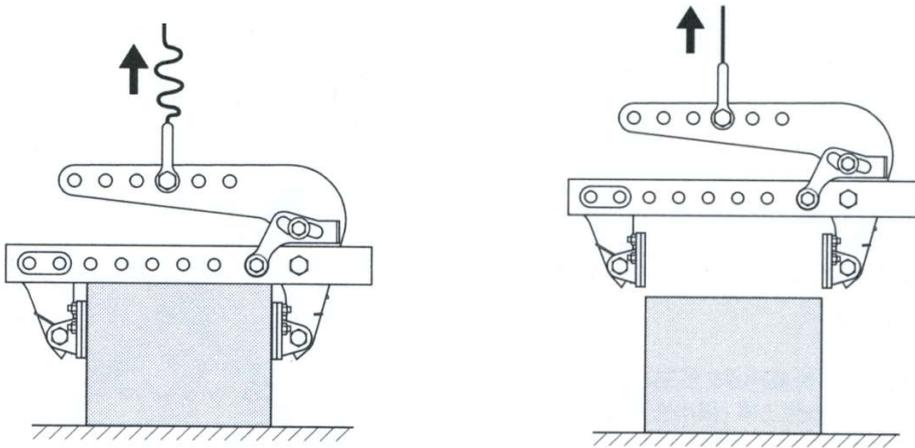


3. When the release lever is raised by pressing down the arm with your hand, you are now in a position to lift the work.



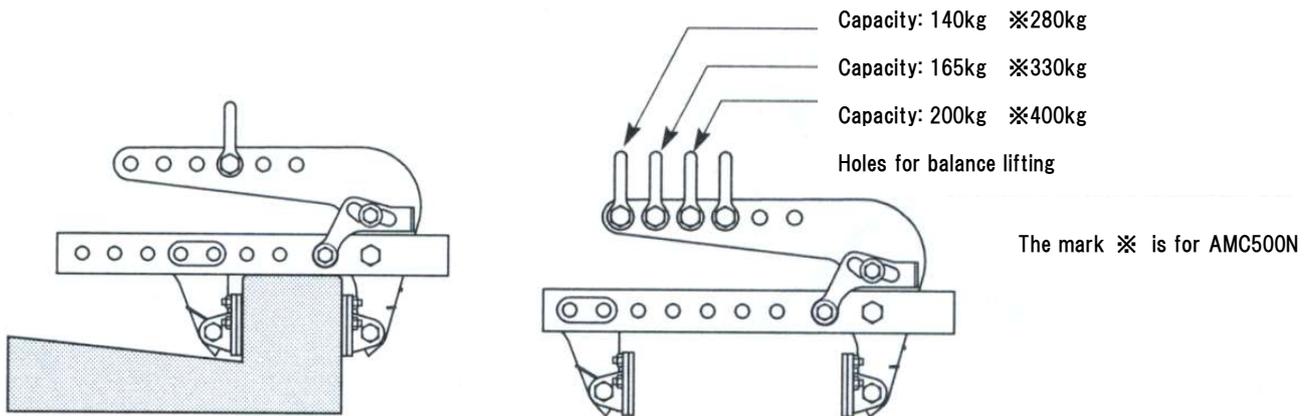
- (4) After carrying the work to the destination, lower the clamp till the wire rope is fully loosened.

(5) When you press down the arm with your hand, the release lock is set on, and in such a state of release, you can lift the clamp alone.



Attention:

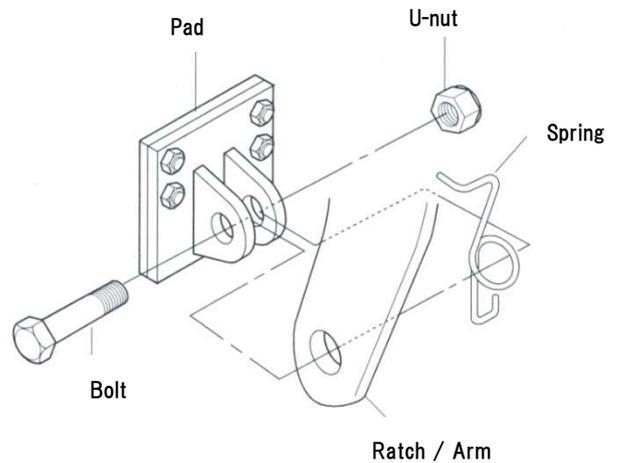
This clamp can be used to lift the eccentric work as per the below drawing well-balancedly by setting the shackle at the central gravity point. But, when lifting well-balancedly, adjust the shackle attaching position and subtract the lifting load capacity.



■ Replacing method for parts

(1) Replacing method for pads

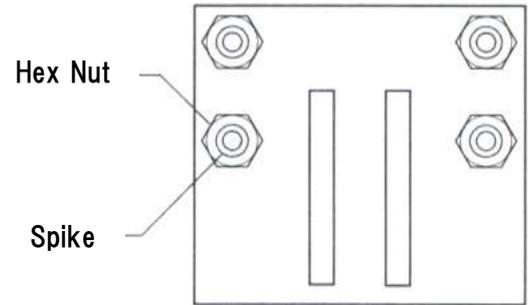
- ① Loosen the bolt and U-nut and detach the pad and spring.
- ② Attach the new pad and spring to the ratch.
- ③ Tighten the bolt and U-nut.



(2) Adjusting and replacing method of spikes

When using pad as non-marring pad or spike is worn, the spikes need to be adjusted and repaired.

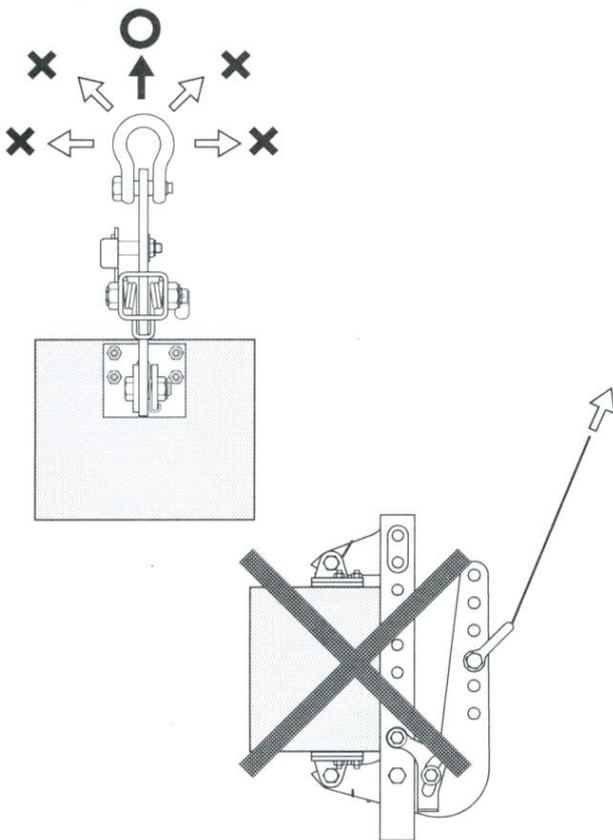
- ① Loosen the hex nut, and adjust and replace by turning the spikes by hex wrench or flat-head screw driver
- ② Tighten the hex nut.



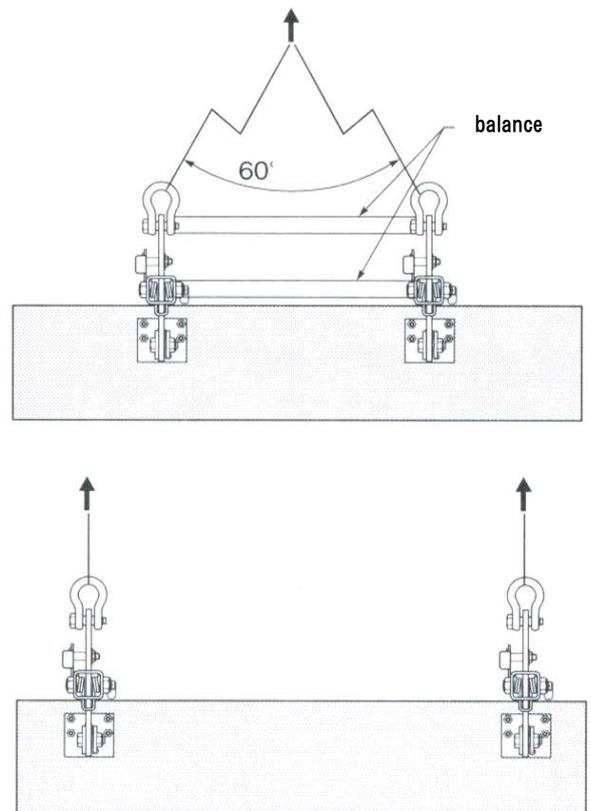
Cautions

■ Cautions in operation

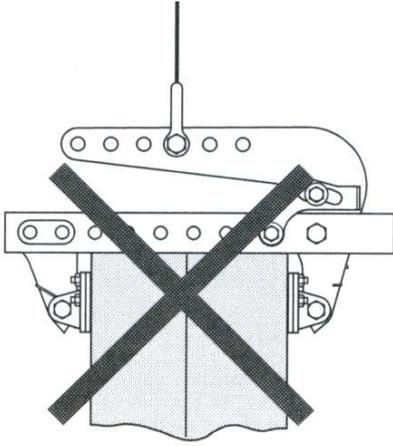
2. Lifting must be in principle vertical lifting. Pulling the clamp sideways deprives the clamping strength from the pads. Never execute a horizontal pulling



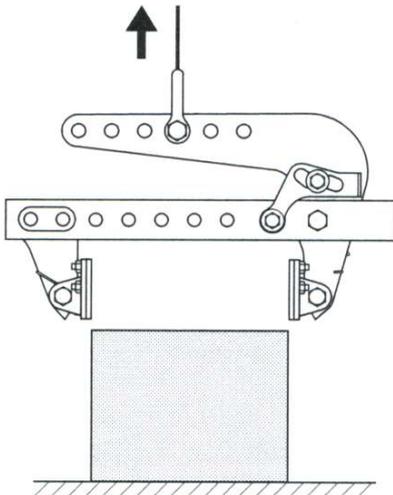
1. When you lift the work at two points, use the simple balance so that the work is vertically lifted at two points.



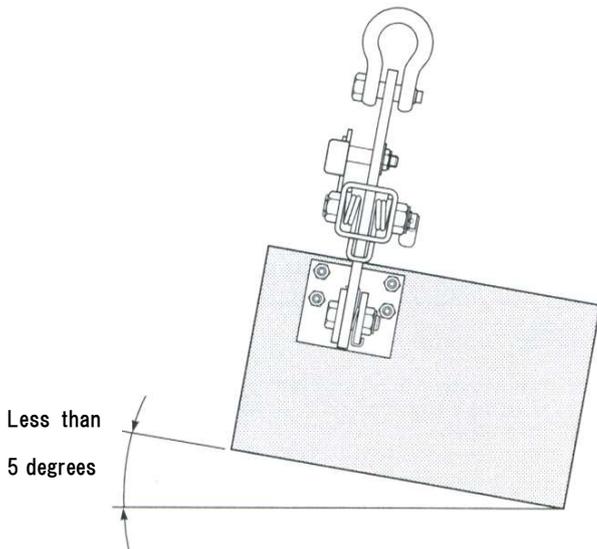
3. You are not allowed to lift a pile of U-shaped gutters, concrete boards at one time.



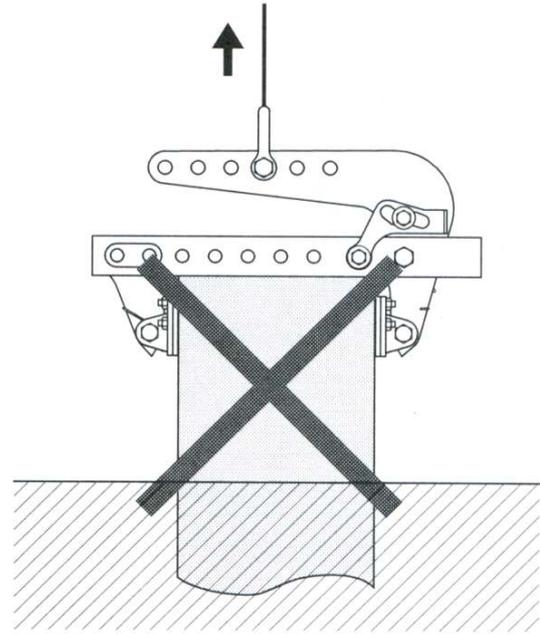
4. Ensure that the pads have securely clamped the work before the lifting operation.



5. If you lift the work away from its central gravity point, the gripping position of the clamp threatens to slide, which may cause an incident. So, never do that.



6. Never apply this clamp to the extracting buried concrete products.



■ **Cautions for safety**

1. Do not use this unit beyond the allowable load and outside the clamping ranges.
2. Do not apply this unit to any other products than concrete ones.
3. Do not apply this unit to concrete products under curing.
4. Do not enter the area where the lifted work may drop.
5. Do not give any impact to the work or the lifting clamp.
6. Avoid any abrupt movement or stop of the work.

■ **Cautions for management**

1. Never fail to check before use for detachment and the level of abrasion of the polyurethane rubber pads and abnormalities with any other parts.
2. Periodically fill in oil to moving parts.
3. Do not remodel the unit. Addition of heat and any processing will substantially degrade the quality (strength) of the unit.
4. When water, oil, sands, ice, or snow is on the surface of the concrete products to lift, there threatens to be a slipping accident. Never fail to remove any of them from the concrete products.