



Lifting clamps for concrete material (cam type, pad type)
P.141 ▶



Lifting clamps for concrete material (manual, machine type) P.142 ▶



Lifting clamps for concrete material (adjustable clamp range type)
P.143 ▶



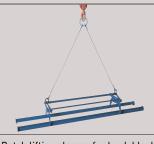
Balances P.143 ▶



Lifting clamps for concrete material (adjustable clamp range type)
P.144 ▶



Internal expanding lifting clamps for U shaped gutter
P.145 ▶



Batch lifting clamps for bank block P.147 ▶

SUPER



Cam types, pad types

Manual, machine types

Adjustable clamp range types, balances

Internal expanding lifting clamps for U shaped gutter

Batch lifting clamps for bank block

	Lifting clamps for			SKC		DI IC S			KBC
Concrete materials	concrete material	CGC	CGC-N	(SKC-M) (SKC-W)	SKC-D	BUC-N BUC-A	UGC-M	AMC-N	(KBC-WH) (KBC-WA)
U shaped gutter Single side thick U shaped gutter		0	0	0	0	0	<u> </u>	0	
Drop-lid type U shaped gutter Single side thick drop-lid type U shaped gutter		1000			0	0			
U flume		0	0	0	0			Δ	
Long U shaped gutter Single side thick long U shaped gutter					0	0			
U shaped gutter (large drainage ditch)					0	0			
Special U shaped gutter Single side thick special U shaped gutter		Δ	<u> </u>	Δ	0	0		Δ	
Flume (aqueduct)					0	0			
Retaining gutter block		Δ	<u> </u>	Δ	0			Δ	
L shaped panel		0		•	0			•	
Boundary block								0	
L shaped concrete block							0	•	
Concrete board		vertical lifting	vertical lifting	vertical lifting	vertical lifting		0	0	
Bank block									obatch lifting
U shaped ditch lid							0		
Concrete pipe for well (assembly sewage manhole)		0		0	0				
Catch basin								Δ	
Block							0	0	

Note: Even for same item name, it can be compliant or not with the concrete material depending on the item size. Always check with the operation manual.

Cam types, pad types

Manual, machine types

Adjustable

range types, balances

Internal expanding

U shaped

Batch lifting

clamps for bank block

lifting clamps for



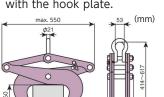


CGC

LIFTING CLAMP FOR CONCRETE MATERIAL (Cam Type)

▶ Features

- Ideal for various kinds of concrete materials like U shaped gutters, U flumes, L shaped panels, boards.
- New cam design with 4 adjustable positions, allowing outstanding durability.
- The releasing lock can be easily set and released by a single action with the hook plate.



CGC1000

Example of use Always lift a load at 2



*: dimensions with concrete material at max. thickness.

CGC250

Item No.	Rated capacity(kg)	Clamp range(mm)	N.W.(kg)	
CGC250	250	30~160	6	
CGC500	500	30~160	12	
CGC1000	1000	30~180	26	

CGC500



. 80

*: dimensions with concrete material at max. thickness.

■RELEASE & LOCK MECHANISM OPERATION

CGC-N

LIFTING CLAMP FOR CONCRETE MATERIAL (Pad Type)

▶ Features

- Ideal for various kinds of concrete materials like U shaped gutters, U flumes, L shaped panels, boards.
- The spike design of the special rubber pads allows to grip firmly the load (can also be used as non-marring type).
- The releasing lock can be easily set and released by a single action with the hook plate.

▶ Example of use

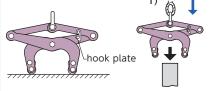
Always lift a load at 2 or more points for safety.





Item No.	Rated capacity(kg)	Clamp range (mm)	N.W. (kg)
CGC250N	250	30~140	6
CGC500N	500	30~140	12

With CGC and CGC-N clamps, when you lock the hook plate, the releasing lock mechanism allows easy set or remove of the workpiece.



Land the clamp and lock the hook plate to set the clamp in release position.



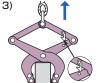
Position the opened clamp above the workpiece.



release position Lay down the clamp Unlock the hook plate

and set it on the

workpiece.

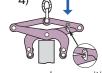


to set the clamp in lifting

position. Hoist the crane

hook to lift the workpiece.

lifting position



release position

Land the workpiece at the target place. At that time, the hook plate gets locked automatically.

Hoist again the crane to remove the clamp, in the release position, from the workpiece.

141

SUPER>



L1

L3

L2

SKC150(M) • SKC250(W) • SKC1250D

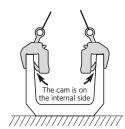
LIFTING CLAMP FOR CONCRETE MATERIAL (Manual / Machine Type)

▶ Features

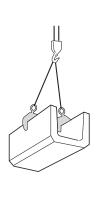
- Ideal for lifting and handling concrete materials like reinforced concrete U shaped gutters, single side thick U shaped gutters, U flumes.
- Compact, light-weight and easy to handle.
- Including a mechanism making that the clamping force increases in proportion to the load weight.
- One touch open/close mechanism for easy operation.
- **Example of use** Always lift a load at 2 or more points for safety.

■Manual type

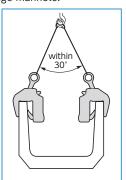






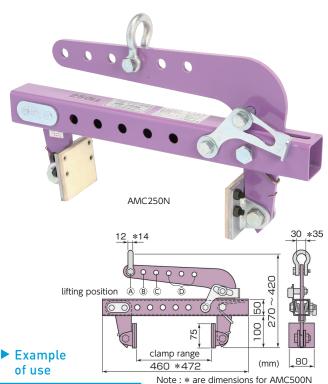


* SKC1250D (deep wide type) shows its great power especially for lifting assembly sewage manhole.



Item No.	Itom typo	Rated	Clamp						Size	(mm)							N.W.
item No.	Item type	capacity(kg)	range (mm)	L	L1	L2	L3	Н	H1	H2	Нз	D	D1	Т	T1	T2	(kg)
SKC150	Manual type	150	30~60	185	65	65	55	258~312	200	108	83	112	_	44.5	31	16	3
SKC150M	Machine type	150	30~60	185	65	65	55	274~328	200	108	83	70	50	44.5	31	10	3
SKC250	Machine type	250	50~80	190	85	66	39	278~332	205	112	85	70	50	44.5	32	10	3
SKC250W	Machine type	250	70~100	210	105	66	39	278~332	205	112	85	70	50	44.5	32	10	3.5
SKC1250D	Deep wide type	1250	73~137	355	145	125	80	477~558	385	242.5	192.5	100	70	60.5	37	18	10





AMC-N • AMB-N

UNIVERSAL LIFTING CLAMP FOR CONCRETE MATERIAL Adjustable Clamp Range Type (Pad Type)

▶ Features

- Universal Clamp for lifting all kinds of concrete materials.
- Especially ideal for pedestrian road boundary blocks and small L shaped panels.
- By changing the pad position, you can adjust the clamp range to wide workpiece.
- By adjusting the shackle above the center of gravity of the workpiece, you can keep the balance of the workpiece.
- The spike design of the special rubber pads allows to grip firmly the load (can also be used as non-marring type).
- The open lock can be locked manually for smooth remove of the lifting piece.
- With the optional parts (sold separately), you can connect two clamps.
- * Do not use with drop-lid type U shaped gutters. The rated capacity (kg) changes with the shackle position.



■Optional parts (sold separately)



* The rated capacity of the connected clamps is equal to the sum of each clamp rated capacity.

Optional parts item No.
AMB250N
AMB500N

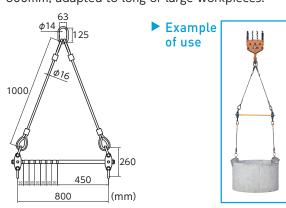
Item No.		Rated capacity (kg		Clamp range (mm)	N.W.	
item No.	A	B	©	0	Clamp range (min)	(kg)
AMC250N	140	165	200	250	10~240	5.5
AMC500N	280	330	400	500	10~240	7.5

LSB2H

BALANCE (Adjustable Span Type, with Upper Wire Rope and Ring)

▶ Features

- Ideal for safe, well balanced lifting operations.
- When lifting or holding balance of a long workpiece, this balance can be used safely with lifting clamps.
- Adjustable span type with 8 steps from 450 to 800mm, adapted to long or large workpieces.



Item No.	Rated capacity(kg)	Adjustable span steps (mm)	N.W. (kg)
LSB2H	2000	450-500-550-600-650-700-750-800	20

Cam types,

Manual, machine

Adjustable clamp range types balances

Internal expanding fting clamps for U shaped gutter

Batch lifting clamps for bank block

UGC-M

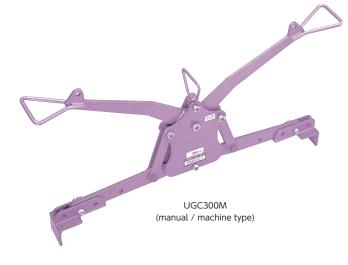
UNIVERSAL LIFTING CLAMP FOR **CONCRETE MATERIAL** (Adjustable Clamp Range Type)

▶ Features

- Ideal for handling and laying U shaped gutters, lids, edge stones, blocks.
- With clamp claw thickness of 9mm, the clearance between the materials can be easily set.
- By changing the toggle pins locations, the clamp range can be easily adjusted.
- The clamp claw teeth provide a firm grip that prevents
- The design of the clamp claws has been improved to prevent material corner from getting nicked during lifting.

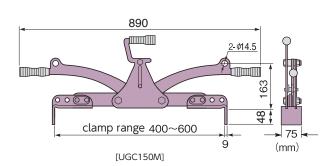


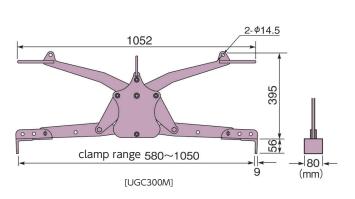




UGC150M

(manual / machine type)



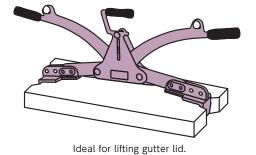




U shaped gutters can be clamped at both ends for easy handling and laying.



As the U shaped gutter is clamped from inside, the clamp doesn't interfere with the alignment levelling strings.



Item No.	Rated capacity(kg)	Clamp range(mm)	N.W.(kg)
UGC150M	150	400~ 600	9
UGC300M	300	580~1050	17

Cam types,

pad types

Manual, machine

Adjustable

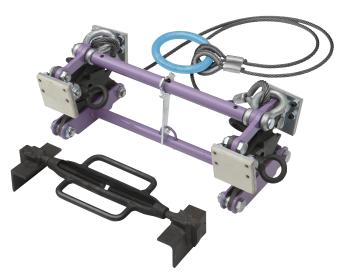
range types, balances

Batch lifting

clamps for bank block

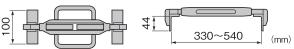
types





138 $\phi 100$ (mm) master ring wire rope φ8×1200 $1515 \sim 1615$ 80 stoppei pad 198 538 at min. clamp range 205

■ Cracking prevention holder



Example of use

⚠ For long gutters, always use a balance and lift at 2 or more points for safety.

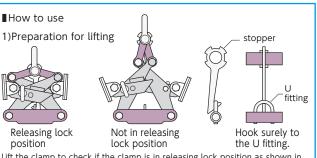


BUC240N

INTERNAL EXPANDING LIFTING CLAMP FOR U SHAPED GUTTER (Pad Type with Wire Rope and Ring)

▶ Features

- For JIS reinforced concrete U shaped gutters and JIS drop-lid type U shaped gutters (only 250 / 300A).
- Dedicated for lifting concrete U shaped underground cable box (adjustable clamp range type).
- Including a holder for preventing the cracking of U shaped
- The inside clamping avoids touching the alignment levelling strings, and makes unnecessary to leave a clearance space outside the workpiece.
- The spike design of the special rubber pads allows to grip firmly the load (can also be used as non-marring type).
- Applicable type of workpieces: JIS U shaped gutter 240, 300A/B/C and JIS drop-lid type 250, 300A, up to 2m length.

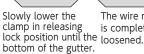


Lift the clamp to check if the clamp is in releasing lock position as shown in the drawing above.

If not, hook the stopper to the main body U fitting and lift again so that the clamp gets in releasing lock position.

2)Setting to the U shaped gutter







The wire rope is completely



Set the cracking prevention holder.

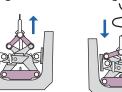
4)Moving and landing 5)Clamp removing



Remove the stopper from the U fitting.

Position the clamp in releasing lock position above the U shaped gutter and land it to the bottom of the gutter until the wire is completely loosened. Next, set the cracking prevention holder just beside the clamp. Here, rotate the knob of the holder to make the arm firmly hold the U shaped gutter. Next, remove the stopper from the U fitting, and then the load can be lifted.

3)Lifting



When the load is lifted, the clamp gets automatically into tightening position. When you hoist the crane, the U shaped gutter is firmly gripped and lifted.



After moving the U shaped gutter to the target place and confirming that it is stable, hoist down until the wire rope is completely loosened.



Hook the stopper to the U fitting and lift again to set the clamp in releasing lock position and then you can move the clamp alone to the next load to be operated.

Item No.	Rated capacity(kg)	Clamp range(mm)	N.W.(kg)
BUC240N	500	Level 1 220~240 Level 2 260~290	12

 $731 \sim 873$

BUC1000A • BUM1000A • BUF1000A

AUTOMATIC INTERNAL EXPANDING LIFTING CLAMP FOR U SHAPED GUTTER (Pad Type with Wire Rope and Ring)

▶ Features

- Dedicated for lifting all kinds of concrete U shaped gutters (automatic setting and removing type).
- Including a holder for preventing the cracking of U shaped gutter (always use together with the main body).
- With the fully automated setting / removing mechanism, the repeated handling operations gets faster and easier, bringing higher productivity.
- The spike design of the special rubber pads allows to grip firmly the load (can also be used as non-marring type).
- The inside clamping avoids touching the alignment levelling strings, and makes unnecessary to leave a clearance space outside the workpiece.

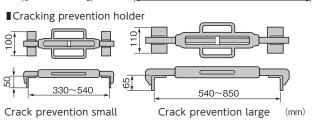


⚠ For long gutters, always use a balance and lift at 2 or more points for safety.





Item No.	Rated capacity(kg)	Clamp range(mm)	U shaped gutter size name	N.W. (kg)
BUC1000A		①210~250	240.250	
	1000	2250~290	300	26
		3290~330	_	



Automatic setting / ren	noving mechanism	cracking prevention holder Always set the holder before lifting.		†
1)Land slowly the clamp in releasing lock position until the bottom of the gutter.	2)Hoist down until the wire rope is completely loosened.	3)When the load is lifted, the clamp gets automatically into tightening position.	4)Hoist down until the wire rope is completely loosened.	5)When the clamp is lifted again, it gets automatically into releasing lock position and the clamp alone is lifted.

80

(mm)

506

■BUM1000A middle parts set (sold separately) (middle plate with pad, crack prevention large holder)

■BUF1000A full parts set (sold separately)

(middle plate with pad, long plate with pad, crack prevention large holder, joint bar)



	Midd	lle plate		Lon	g plate		
Item No.	Clamp range(mm)	U shaped gutter size name	N.W. (kg)	Clamp range (mm)	U shaped gutter size name	N.W. (kg)	
	①320~360	360 350·360 —	_				
BUM1000A	2360~400	400		_	_		
BOMTOOOA	3400~440	450		_	_	_	
	4440~480	500	28	_	_		
	①320~360	350.360	20	①480~520	500		
BUF1000A	②360~400	400		2520~560	600	31	
BOFTOUCA	3400~440	450		3560~600	_		
	4440~480	500		_	_	_	

^{*} The clamp range 1)~4 can be changed by adjusting the position of the adjustment plate holes.





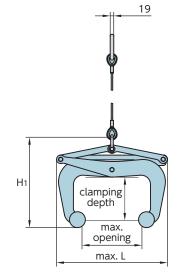
BATCH LIFTING CLAMP FOR BANK **BLOCK** (with Wire Rope and Ring)

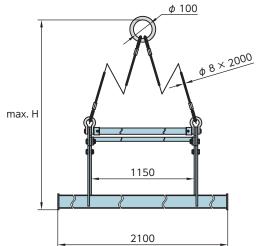
▶ Features

- Dedicated for lifting bank blocks with necks.
- Can lift together in one batch up to 7 bank blocks. Ideal for handling, loading and unloading operations.
- The automatic opening mechanism allows easy clamp removing operation.

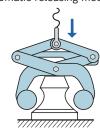
Example of use



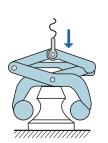




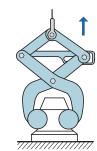
■ Automatic releasing mechanism



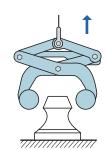
1)Set the stopper in release position, lower the clamp so that the legs of the tongs properly fit into the bank block neck.



3)Move the load to the target place and land it until the wire rope is completely loosened.



2)When the legs are fully set, remove the stopper and lift the clamp so that the legs close and the bank block gets lifted.



4)The stopper gets locked automatically into the release position and then you can lift the clamp alone.

Item No.	Rated	Clamp range (mm)	Size (mm)					
item No.	capacity(kg)		(max. opening)	(clamping depth)	L(MAX)	H(MAX)	H1	(kg)
KBC500WH	500	60~270	300	230	600	2780	484~760	48

147

Cam types, pad types

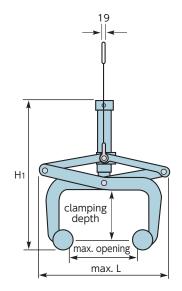
> Manual, machine types

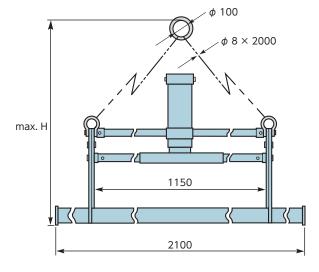
Adjustable clamp range types, balances

expanding lifting clamps for U shaped gutter

clamps for bank block





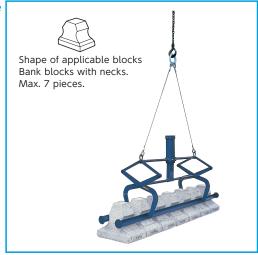


KBC500WA

AUTOMATIC BATCH LIFTING CLAMP FOR BANK BLOCK (with Wire Rope and Ring)

▶ Features

- Dedicated for lifting bank blocks with necks.
- Can lift together in one batch up to 7 bank blocks. Ideal for handling, loading and unloading operations.
- The automatic setting / removing mechanism allows operations with one operator. The workability is greatly improved compared to conventional manual clamp types.
- Example of use



■Automatic setting / removing mechanism



1)As a preparation before lifting, lift the clamp in release position.



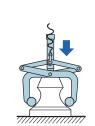
4)When the load is lifted, the clamp gets locked automatically into tightening position and grips firmly the bank block.



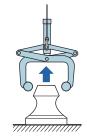
2)Lower the clamp slowly so that it stay aligned with the center of the block until the clamp main body and the guide pipes touch the block and keep lowering until the wire rope is



5)Move the load to the target place and land it until the wire rope is completely loosened.



3)Stabilize the clamp horizontally on the block.



6)When the clamp is lifted, it gets locked automatically into release position so that you can move the clamp alone and switch smoothly to the next operation.

By repeating procedures 1)~5), transportation of bank blocks batches can be quickly operated just by moving laterally and hoisting up and down the crane.

Item No.	Rated capacity(kg)	Clamp range(mm)	Size (mm)					
			(max. opening)	(clamping depth)	L(MAX)	H(MAX)	H1	(kg)
KBC500WA	500	60~270	300	230	600	2810	700~1010	56