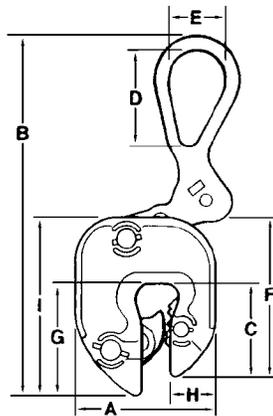


“GX” Clamps



- “GX” clamp is entirely drop forged and heat treated
- Can be used for both vertical and horizontal-to-vertical lifting
- Exclusive feature is a patented wear indicator system. When any of cam’s straight line, convex teeth are flattened between unique wear indicator grooves, it is time to change the cam
- **Note: The Pad and Cam should be replaced at the same time**
- Clamps are 100% Proof Tested and Certificate of Test supplied with each clamp

Cat. No.	UPC No. 020418	Grip Range		Clamp Weight		Working Load Limit Metric Ton
		in.	mm	lb	kg	
6423000	172199	1/16 - 5/8	1 - 16	4	2	1/2
6423920	175657	5/8 - 1 1/8	16 - 28	5	2	1/2
6423005	172205	1/16 - 3/4	1 - 19	8	4	1
6423923	175664	3/4 - 1 3/8	19 - 35	9	4	1
6423010	172229	1/16 - 1	1 - 25	17	8	3
6423925	175671	1 - 1 3/4	25 - 44	20	9	3
6423015	177583	1/2 - 2	13 - 51	40	18	5

Cat. No.	UPC No. 020418	Dimensions																	
		A in.	A mm	B in.	B mm	C in.	C mm	D in.	D mm	E in.	E mm	F in.	F mm	G in.	G mm	H in.	H mm	I in.	I mm
6423000	172199	4	102	9 1/2	241	2 3/16	56	2 3/4	67	2	51	4 1/8	105	2 7/8	73	1 3/8	35	4 7/8	124
6423920	175657	5	127	9 1/2	241	2 3/16	56	2 5/8	67	2	51	4 1/8	105	2 7/8	73	1 5/8	41	4 7/8	124
6423005	172205	4 3/4	121	11 1/4	286	3 1/16	78	3 1/16	78	2 1/16	52	5 1/4	133	3 5/8	92	1 5/8	41	5 7/8	149
6423923	175664	5 7/8	149	11 1/4	286	3 1/16	78	3 1/16	78	2 1/16	52	5 1/4	133	3 5/8	92	1 5/8	54	5 7/8	149
6423010	172229	6	152	14	356	3 9/16	90	3 13/16	97	3	76	6 3/4	171	4 7/16	113	2	51	7 5/8	194
6423925	175671	7 1/4	184	14	356	3 9/16	90	3 13/16	97	3	76	6 3/4	171	4 7/16	113	2 1/4	57	7 5/8	194
6423015	177583	8 7/8	225	20	508	4 11/16	119	5	127	3 15/16	100	8 3/4	219	5 15/16	151	3 13/16	97	9 15/16	252

Clamps

**ADVERTENCIA**

- Seleccione el tamaño de mordaza adecuado para el trabajo.
- Determine el peso de la placa a ser alzada.
- No exceda el límite de carga de trabajo (WLL) mostrado en la mordaza.
- El espesor de la placa debe estar dentro de la gama de agarre mostrada en la mordaza.

**WARNING**

- Select proper size clamp for the job.
- Determine the weight of the plate to be lifted.
- Do not exceed WLL (Working Load Limit) shown on clamp.
- Plate thickness must be within grip range shown on clamp.

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# Replacement Part Kits for "GX" Clamps

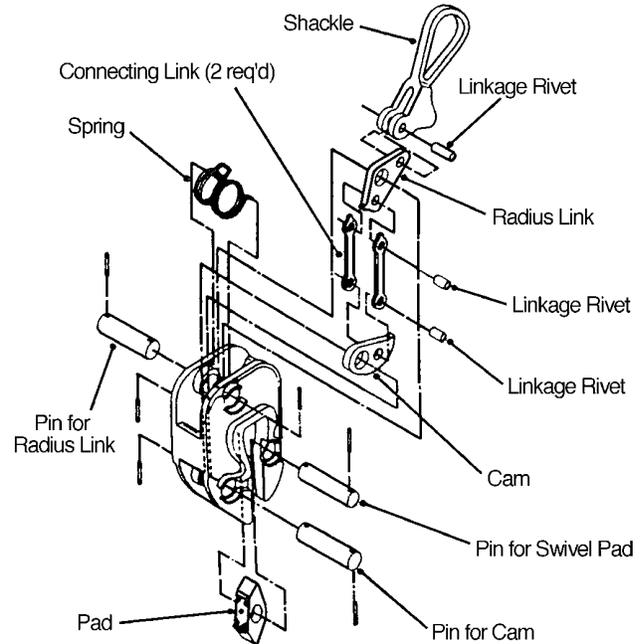


6506000 Shackle Kit Components

Note: Shackle Kit is supplied pre-assembled (as shown above), to ensure proper assembly of linkage.



6506001 Cam / Pad Kit Components



### Clamp Kit Parts Listing for GX Series Lifting Clamps (Includes ALL GX, GX Short Leg Structural, and GX Sharp Leg Clamps)

Capacity	1/2 TON		1 TON		2 TON		3 TON		5 TON	
	Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.
<b>Shackle Kit</b>	6506000	210013	6506010	210037	6506020	210051	6506030	210075	6506050	210099
<b>Kit Includes:</b>	1 Shackle, 1 Radius Link, 1 T-Spring, 2 Connecting, Links, 1 Radius Link Pin, 3 Linkage Rivets, 2 Sel-locs									
<b>Cam / Pad Kit</b>	6506001	210020	6506011	210044	6506021	210068	6506031	210082	6506051	210105
<b>Kit Includes:</b>	1 Cam, 1 Pad, 1 Cam Pin, 1 Pad Pin, 1 T-Spring, 1 Rivet, 4 Sel-locs									

Clamps

#### ⚠ ADVERTENCIA

- Seleccione el tamaño de mordaza adecuado para el trabajo.
- Determine el peso de la placa a ser alzada.
- No exceda el límite de carga de trabajo (WLL) mostrado en la mordaza.
- El espesor de la placa debe estar dentro de la gama de agarre mostrada en la mordaza.

#### ⚠ WARNING

- Select proper size clamp for the job.
- Determine the weight of the plate to be lifted.
- Do not exceed WLL (Working Load Limit) shown on clamp.
- Plate thickness must be within grip range shown on clamp.

## Model GX

VERTICAL LIFT  
VERTICAL TURN/LIFT  
HORIZONTAL LIFT

SPRING-LOADED CAM

## APPLICATION



Figure 15

The standard GX clamp (Fig. 15) is a versatile clamp used mostly for steel warehousing and benchwork. The GX clamp can be used for vertical, vertical/turn or horizontal lifts. The GX clamp is recommended for turning a single sheet or fabricated structure. Due to its swiveling pad and **spring-loaded cam**, the clamp always stays in contact with the work face of the load, even when the load is turning through 180 degrees. The most exclusive feature of the GX clamp is its **wear indicator system**. When any of the cam's teeth are flattened, chipped or dulled between the unique wear indicator grooves (Fig. 16), it's time to change the cam. (Always replace the pad at the same time as the cam.) In addition, due to their forged components, **GX clamps have one of the lowest weight-to-Working Load Limit ratio of any clamps sold in the world**. This means they are easy to use and less tiring for the user. The GX design has also been used in several specialized applications, such as:

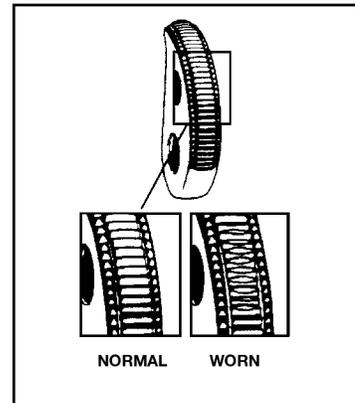


Figure 16

- **GX Structural Clamp** is a variation of the GX body shape and is designed for a secure bite on small or odd-shaped, wide flange beams.
- **GX Chain Connector Clamp** is a standard GX clamp fitted with a chain connector instead of a shackle. Using this clamp increases the flexibility of a multiple leg chain sling.
- **GX Sharp Leg Clamp** is a variation of the standard GX clamp designed to lift stacked plates from horizontal to vertical position. The long sharp leg can be driven between the top two plates to fully engage the clamp. This clamp is not equipped with a swiveling pad and it should not be used for turning a load.

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## OPERATION

### Step 1

Before using any Campbell clamp, read the Applications section at the beginning of this manual to be sure the lift is appropriate for the size and style of clamp. Know the type of material to be moved before making a lift. Some exotic steels are too hard to allow the teeth of the cam to sink in. This may be true of structural members and fabricated sections.



**WARNING!:** Do not lift a plate or member with a hardness greater than 400 Brinell (43 Rockwell C)

### Step 2

Choose a clamp with the right capacity and grip range. The model type, capacity and grip range are shown on the face of the clamp (Fig. 17).



**WARNING!:** Never lift a weight greater than the Working Load Limit shown on the clamp.

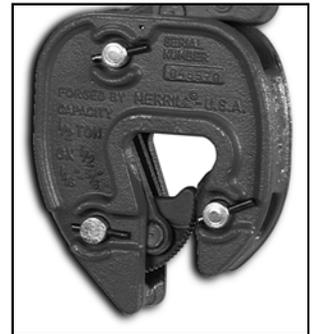


Figure 17

### Step 3

Inspect the clamp before each lift (Fig. 18).

- A. Inspect the cam and pad for wear and defects. Gripping surfaces must be free off foreign matter. If either the cam or pad are worn or defective, replace both cam and pad at the same time.
- B. Inspect the shackle and visible linkage for elongation, distortion, wear or damage.
- C. Inspect the clamp body for wear, damage or distortion.
- D. Do not use any clamp that needs repair.



Figure 18

If in doubt, refer to the Maintenance and Inspection section of this manual for detailed instructions.

## Step 4

Determine if more than one sling is required to balance the load (Fig. 19). When the size or shape of a plate or fabricated section is too large for one clamp to properly balance the load, the use of a multiple sling or spreader bar is required.

- A. All clamps used in a multiple sling or spreader bar assembly must be rated at the same capacity.
- B. The lifting angle (Fig. 19) between the sling legs on opposite sides of the load should be less or equal to 60 degrees. The lifting angle (Fig. 20) between the sling legs on same side of the load should be less or equal to 20 degrees.
- C. The Working Load Limit of any multiple sling assembly or spreader bar assembly must not be more than the combined Working Load Limit of two clamps, no matter how many clamps are in the assembly.

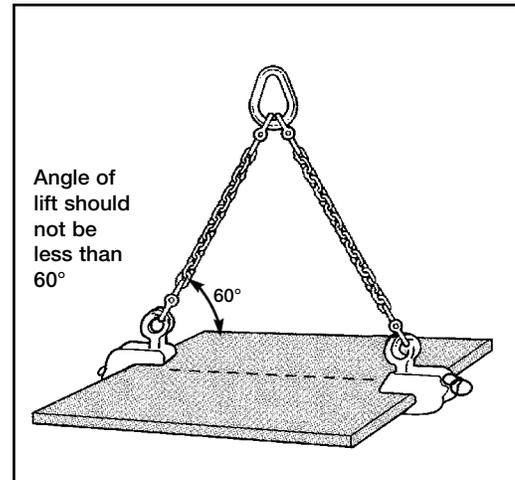


Figure 19

## Step 5

Position the clamp(s) to balance the load. Position the clamp(s) so the lifting force of the crane is directly in line with each clamp's lifting shackle, and the load is evenly distributed (Fig. 20).

**⚠ WARNING!: Never attach a clamp directly to the crane hook. Use a sling between the crane hook and clamp to minimize interference in the clamp operation.**

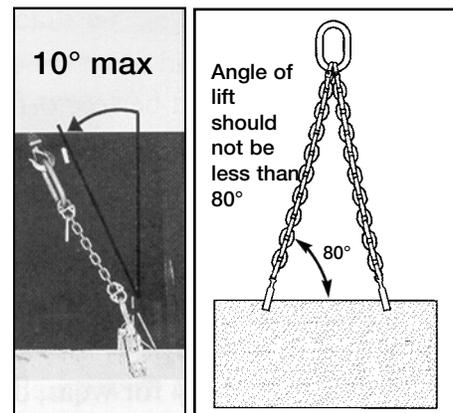


Figure 20

**⚠ WARNING!: Do not side load. Never exceed an angle of 10° from vertical.**

## Step 6

Engaging the clamp:

- A. Press down on the lifting shackle until the cam retracts. Occasionally, a cam may jam against a pad. To release, either tap the heel of the shackle, or grasp clamp by the shackle and tap bottom of clamp sharply against floor or other solid surface.
- B. Install the clamp over the plate to the full depth of the throat opening.
- C. Release the shackle so the cam engages the plate.

## Step 7

Lift slowly and smoothly. The operator should stand clear of the load and never lift over people or machinery.



**WARNING!:** Do not begin to lift until all personnel are clear of the lift area. Never stand under or near a member being lifted.



**WARNING!:** Do not jerk or bump load while lifting.

## Step 8

After the plate is in place and at rest, the GX clamp can be removed by retracting the cam away from the plate. To do this, press down on the lifting shackle while at the same time lifting the clamp from the plate. If the cam is difficult to retract, a slight tap on the heel of the shackle or the clamp's body should release it.

## Step 9

Campbell® recommends inspection of each lifting clamp before and after each lift. Refer to the Maintenance and Inspection section of this manual for detailed instructions.



**WARNING!:** Do not use a clamp that needs repair.