

# Flat Steel System



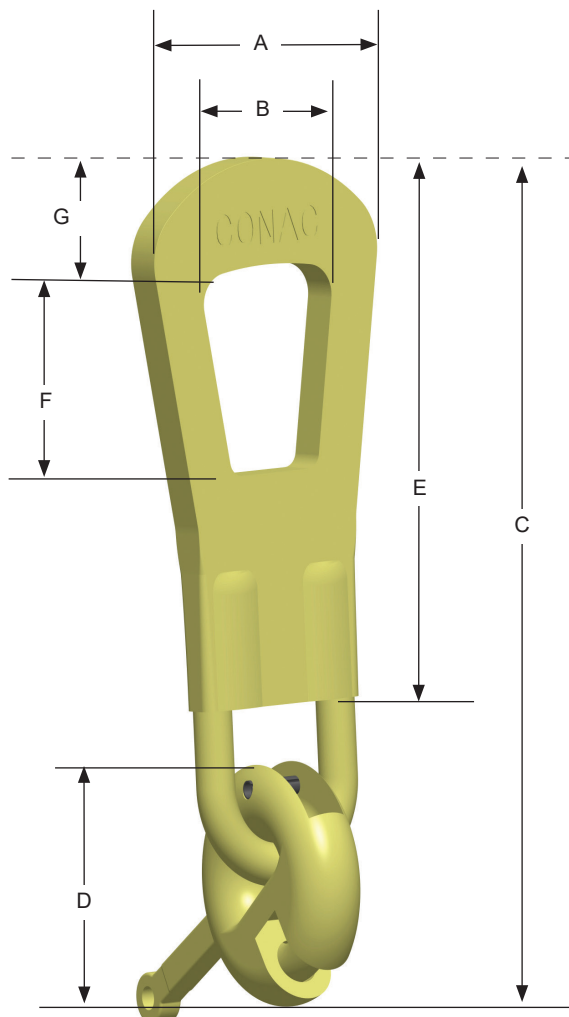
## Ring Clutch With Bail

Designed to be used specifically for flat steel lifting.  
Handle allows for safe locking of clutch into lifting position.  
Standard finish plated.

| TON   | ITEM CODE | A      | B      | C       | D      | E       | F      | G      | SYS. CODE |
|-------|-----------|--------|--------|---------|--------|---------|--------|--------|-----------|
| 2-3T  | FRC02 B   | 3-5/8" | 2-1/8" | 10-1/2" | 3"     | 7"      | 2-3/4" | 1-1/4" | 2.5T      |
| 4-6T  | FRC04 B   | 4-1/2" | 2-5/8" | 12-7/8" | 4"     | 8-1/2"  | 3-1/2" | 1-1/2" | 5T        |
| 8-10T | FRC08 B   | 5-1/2" | 3"     | 17"     | 5-7/8" | 10-3/8" | 4-1/2" | 1-3/4" | 10T       |
| 11T   | FRC11 B   | 5-1/2" | 3"     | 17"     | 5-7/8" | 10-3/8" | 4-1/2" | 1-3/4" | 10T       |
| 12T   | FRC12 B   | 5-1/2" | 3"     | 17"     | 5-7/8" | 10-3/8" | 4-1/2" | 1-3/4" | 10T       |
| 22T   | FRC22 B   | 8-3/8" | 4-1/2" | 24"     | 8"     | 15"     | 6-3/4" | 2-5/8" | 22T       |

Safe working loads based on 5:1 Safety Factor.

| TON   | ITEM CODE | H      |
|-------|-----------|--------|
| 2-3T  | FRC02B    | 0.559" |
| 4-6T  | FRC04B    | 0.728" |
| 8-10T | FRC08B    | 0.885" |
| 11T   | FRC11B    | 0.885" |
| 12T   | FRC12B    | 0.885" |
| 22T   | FRC22B    | 1.385" |



## 3. Operating Instructions

The CONAC Ring Clutch can be used for parallel/transversal shear pulls (Figure 1 & 2) and straight tension pulls (figure 2).

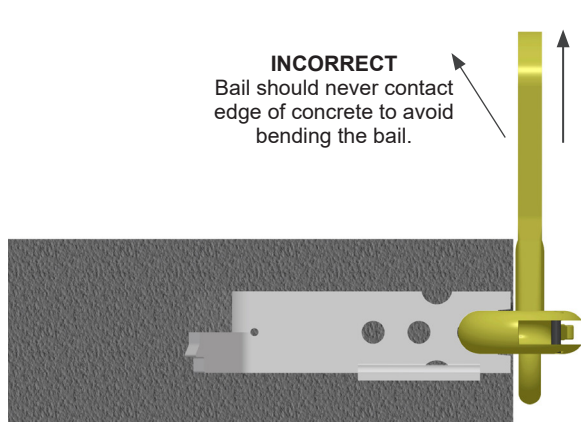


Figure 1

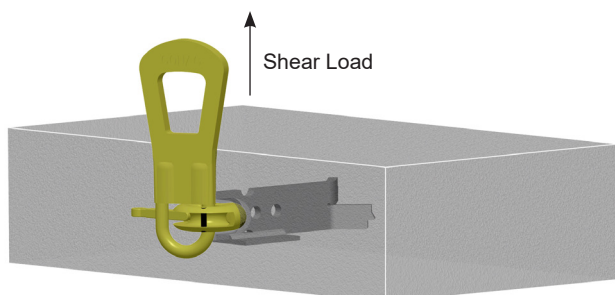


Figure 2

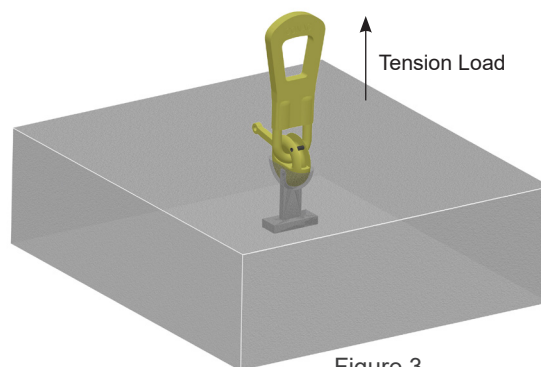


Figure 3

## 1. General

The CONAC Ring Clutch is a load lifting device. It engages the head of a Flat Steel anchor inside of the recess created by the CONAC Recess Former. The bail is made from robust, hardened and tempered cast steel. The CONAC Ring Clutch meets the requirements of the "Safety regulations for lifting precast concrete units". Important references include but are not limited to: OSHA Part 1926 and ANSI 10.9.

## 2. Identification

The identification meets the "Safety regulations for lifting precast concrete units" as follows:

|                  |             |
|------------------|-------------|
| Manufacturer     | CONAC       |
| Type             | Ring Clutch |
| Size             | e.g. 4T     |
| Manufacture Year | e.g. 20     |
| Batch Number     | e.g.1234    |

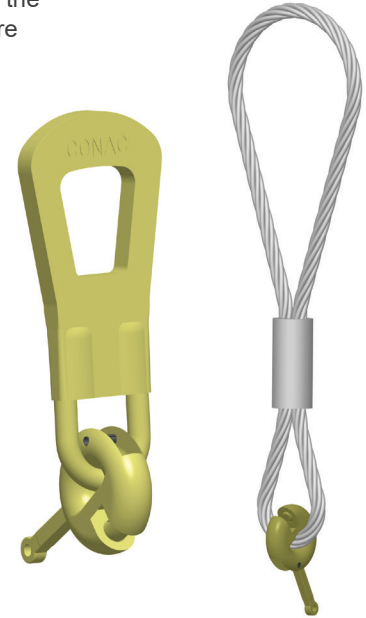
## 3. Care, Inspection and Maintenance of Ring Clutches (For Both Steel Bail and Cable)

CONAC Flat Steel System Ring Clutches may become worn after extended use or may be damaged through misuse, overloading, or a number of other factors, any one of which may affect the Safe Working Load of the Ring Clutch.

Users must establish a system of periodic inspections which should include the following:

1. Inspect for general condition and wear.
2. Assure that the bail is free to rotate in all directions.
3. If the bail is bent or twisted, the clutch must be destroyed.
4. Check the curved bolt for wear, cracking or bending.
5. Check the clutch body for wear, cracking or deformation.
6. If it appears that the Ring Clutch has been heated in any way, the clutch must be destroyed.
7. Check the engagement slot, if the gap is larger than dimension H, the clutch must be destroyed.

Destroy any unit that is worn, damaged, bent or twisted by cutting off the bail. No repair or welding is permitted.



# Flat Steel System

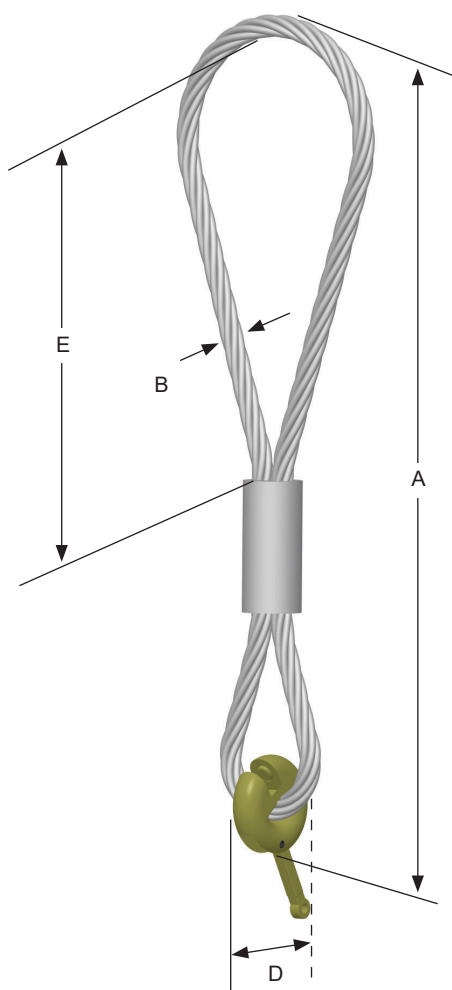


## Ring Clutch W/Cable

Designed to be used specifically for flat steel lifting. Cable is more flexible than bail allowing some latitude in the direction of lift. Handle allows for a more safe locking of clutch into lifting position.

| TON   | ITEM CODE | A       | B     | D      | E   | SYSTEM CODE |
|-------|-----------|---------|-------|--------|-----|-------------|
| 2-3T  | FRC02     | 23-1/2" | 14 mm | 3"     | 12" | 2.5T        |
| 4-6T  | FRC04     | 25-1/2" | 18 mm | 4"     | 12" | 5.0T        |
| 8-10T | FRC08     | 31"     | 22 mm | 5-7/8" | 12" | 10.0T       |
| 11T   | FRC11     | 31"     | 22 mm | 5-7/8" | 12" | 10.0T       |

Safe working loads based on 5:1 Safety Factor.



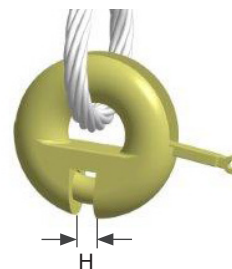
### CARE, INSPECTION AND MAINTENANCE OF RING CLUTCHES (FOR BOTH STEEL BAIL AND CABLE BAIL)

CONAC Flat Steel System Ring Clutches may become worn after extended use or may be damaged through misuse, overloading, or a number of other factors, any one of which may affect the Safe Working Load of the Ring Clutch.

Responsible users will establish a system of periodic inspections which should include the following:

1. Inspect for general condition and wear.
2. Assure that the bail is free to rotate in all directions.
3. If the bail is bent or twisted, the clutch must be destroyed.
4. Check the curved bolt for wear, cracking or bending.
5. Check the clutch body for wear, cracking or deformation.
6. If it appears that the Ring Clutch has been heated in any way, the clutch must be destroyed.
7. Check the engagement slot, if the gap is larger than dimension H, the clutch must be destroyed.

| TON   | ITEM CODE | H (MAX) |
|-------|-----------|---------|
| 2-3T  | FRC02     | 0.619"  |
| 4-6T  | FRC04     | 0.787"  |
| 8-10T | FRC08     | 0.944"  |
| 11T   | FRC11     | 0.944"  |
| 12T   | FRC12B    | 0.944"  |



### ADDITIONAL INSPECTION OF CABLE BAIL

1. Inspect cable for general condition and wear.
2. Check cable for nicks, kinks, crushing or bends.
3. Check for frayed or loose outer strands.
4. Check for cable swelling.

If the cable is damaged, the Ring Clutch must be destroyed as above. Destroy any unit that is worn, damaged, bent or twisted by cutting off the bail. No repair or welding is permitted.