Ring Clutches

Ring clutches are a specifically designed component made of high quality steel, built for lifting concrete elements with recessed anchor points. The clutches are manually installed by rotating the curved bolt to the opened position and insert the clutch into the recess. To lock onto the anchor, rotate the curved bolt handle until the handle contacts the panel surface. The Ring Clutch is coupled to a corresponding anchor for the safe axial or angled lifting, turning or swivelling of precast concrete units.

Lifting and Combination Lifting Eyes

Instructions for use

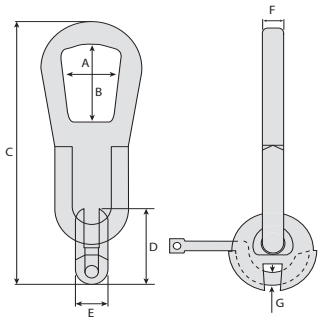
To lift the precast concrete unit, first select the correct clutch, this can be found stamped on the lifting shackle. Only the correct ring clutch will fit the anchor preventing mismatched load groups. Retract the lifting pin and place the clutch over the anchor.

To engage the clutch for lifting, the pin is locked through the anchor by moving the handle away from the direction of lift. If correctly installed the clutch should be free to move in any direction and the unit can be de-moulded or lifted safely. The clutch can be used to lift in any direction but angles must not exceed 60°. You must stay within the anchor and lifting clutches working load limit, and angle reductions factors must be considered.

face into the direct tension (Fig. 3).

Maintenance

Although, under normal conditions, there won't be much wear and tear, the lifting shackle counts as a lifting device and should be routinely examined for damage prior to each lift and inspected by a qualified person every 12 months. If their is obvious damage, the concerned lifting shackle must not be used again. The lifting shackle should be immediately discarded if any cracks appear in the sphere or coupling link. Inspect all components for any signs of significant wear or fatigue, inspect the locking pin for any signs of wear or deformation. If the locking pin has lost 3/64 inch of its original diameter it needs to be removed from service. Changes and modifications including welding are strictly prohibited. Acids, alkaline fluids and other aggressive media, that can cause corrosion, must be kept away from the lifting clutch.



Stock Code	Lifting Body Mark	Working Load Limit Tons	Dimension Inches							Weight per Piece Pounds
			A	B	C	D	E	F	G	
71LC-2TRC	2.5	6,000	2.17	2.65	10.70	3.01	1.05	0.47	0.54	3.42
71LC-4TRC	5	12,000	2.49	3.41	13.10	3.95	1.43	0.68	0.63	8.13
71LC-8TRC	10	22,000	3.93	4.40	16.50	5.58	1.91	0.98	0.88	20.50

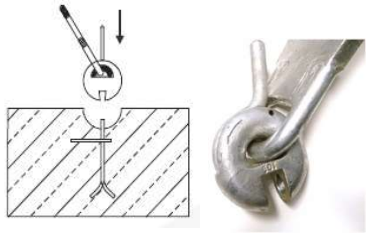
STARCON RingClutch - User manual

Art. No.	Description	Loadgroup t
99.1560009525J	STARCON RingClutch	2-3T/6000lbs
99.1560009550J	STARCON RingClutch	4-6T/12000lbs
99.15600095100J	STARCON RingClutch	8-11T/22000lbs

Use of the STARCON RingClutch

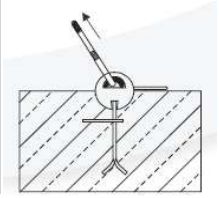
Engaging

Insert the STARCON RingClutch in the recess in the concrete and close the locking bolt manually. Push it to the limit position and ensure that the handle for the locking bolt is parallel with the concrete surface.



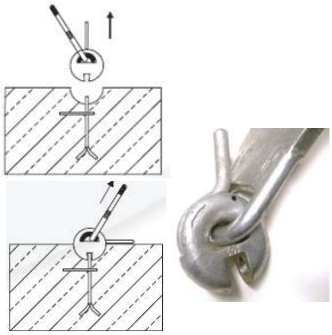
Handling

The STARCON RingClutch can be subjected to loads in any direction, but do not exceed the load limit of the anchor. It is important to follow the instructions regarding the reinforcement in the concrete.
When the RingClutch has been connected to the anchor, the coupling link can move in any direction, even under load.



Releasing

Push back the bolt manually (by hand) and release the RingClutch.



Marking

Starcon RingClutch is marked with Load group, and ID batch number. Every Starcon RingClutch has been tested with 2 x working load.
The Starcon RingClutch must be inspected every 12 months.