

DO NOTS:

DO NOT: Suspend unit over working personnel.

DO NOT: Attempt to lift unit without the bottom of the stabilizer legs laying flush to the top surface of the manhole ring.

DO NOT: Exceed the lifting capability of 2500kgs.

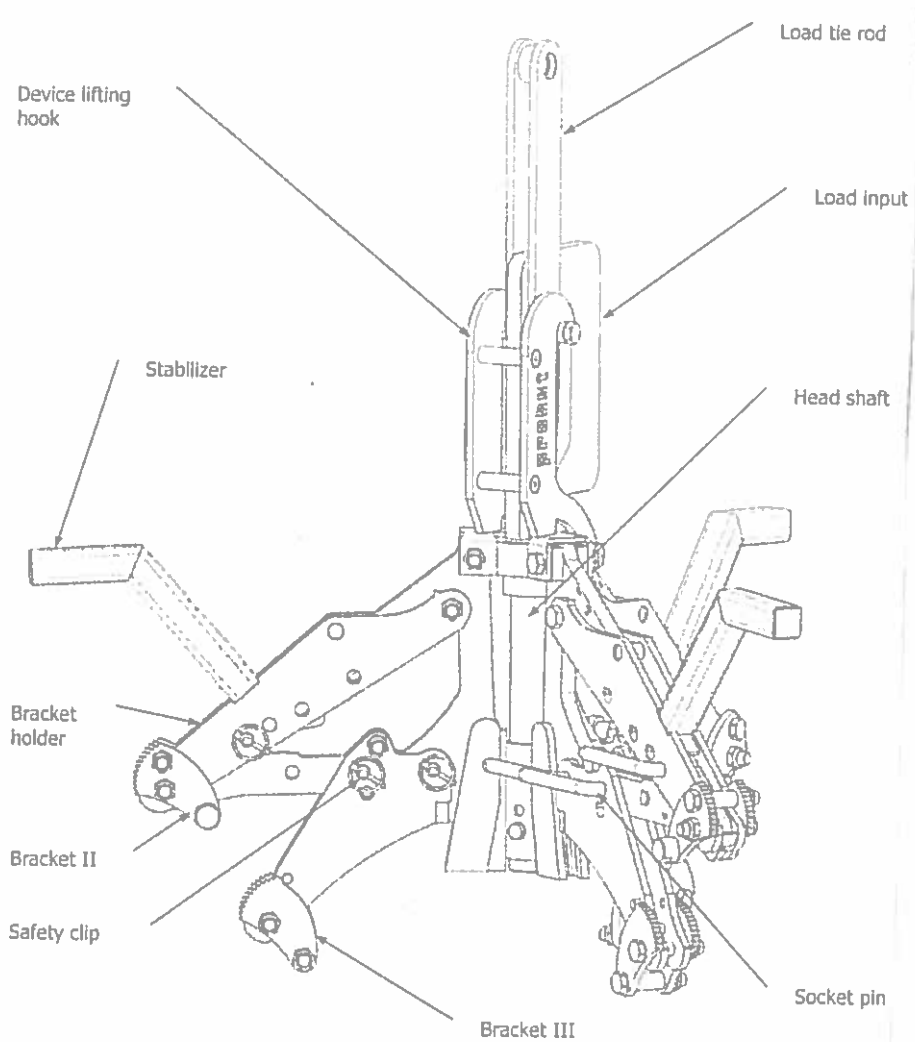
DO NOT: Use this equipment to lift anything other than items that the manufacturer intends.

DO:

DO: Keep lifting loads as low as possible to the ground surface when the prime mover is travelling.

DO: Ensure that a clean swing area is always maintained.

MANHOLE RING LIFTER LAYOUT:



THE MGF MANHOLE RING LIFTER consists of Three Main Components.

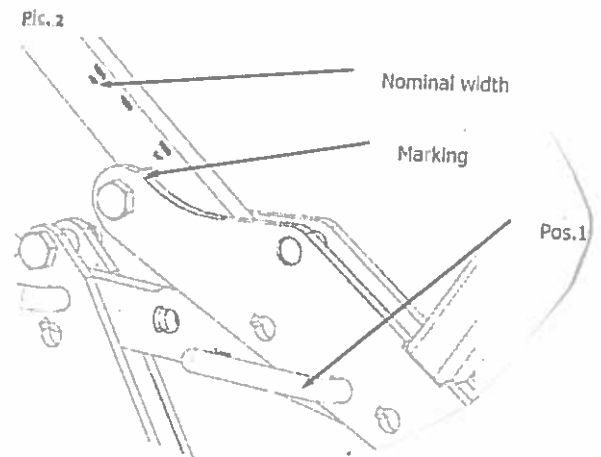
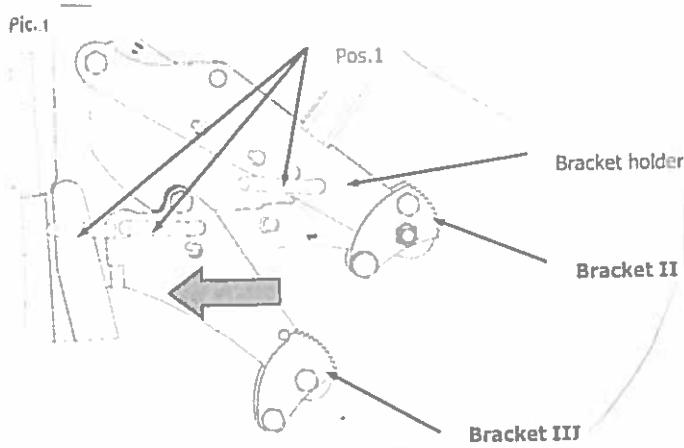
A: Main Lifting Shaft/Body Hook and chain Assembly.

B: Three Stabilizer Legs (Top).

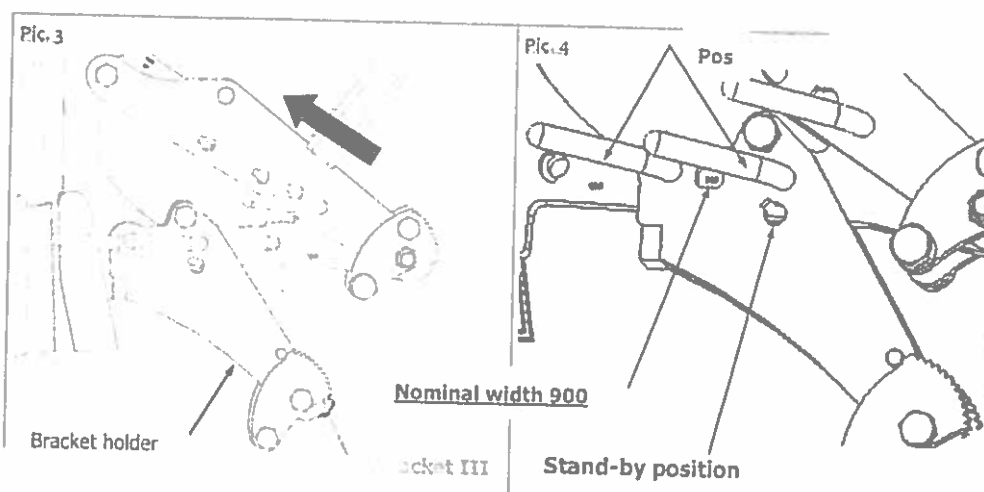
C: Three Gripper Legs (Bottom).

This unit can be adjusted to various ring widths to suit customer's requirements.

STAGE 1 (Adjustment) Stabilizer Legs.



The ring diameter should be checked and noted. By removing the lynch pin from the inner side of the L shaped adjustment bar the pin can be removed. This will allow the 'Stabilizer' legs to slide in/out to suit ring width. This will allow the 'Marking' arrow to align to the suited nominal width, indicated on the support arm. Once in line replace 'L' pins and lynch pins into the correct position.



Stage 2 (Adjustment) Gripper Legs.

The 'Gripper' legs may also require adjustment. By removing the lynch pin from the inside of the 'L' shaped adjustment bar, the pin can be removed from its seating allowing the 'Gripper' bottom legs to be adjusted. By looking into the small oblong window (cut into the arm between adjustment bar positions) a setting can be chosen to suit the appropriate ring width. Replace all 'L' shaped adjustment bars and lynch pins.

Stage 3 Lifting.

Once the desired width is set the ring lifter can now be attached to a mechanical lifting device such as a crane/excavator via the lift chain and oval link on the main load tie rod.

Stage 4 Operator use - Lifting.

It is recommended that the equipment operator practices the lifting sequence before commencing installation operations.

With a minimum amount of practice, the operator will notice that when the lift chain is laying slightly loose the 'Device lifting hook' on the main body will traverse sideways and upwards when lifted through a slotted by pass channel. At the top of its reach it will engage in a hook assembly situated on the main body. Once engaged the whole unit will lift without activating the top 'Stabilizer' or bottom 'Gripper' leg assemblies.

Stage 5 Operator use – Lowering.

By lowering the unit into a suitably sized manhole ring, the operator will find that once the base of the 'Stabilizer' legs sit flush on the top of the manhole ring the unit will support itself in position. Continual lowering of the lift chain will result in the 'Device lifting hook' detaching itself and sliding down the bypass channel to the base where with a slight movement of the machines boom the 'Device lifting hook' can be repositioned across into the vertical lifting channel. Lifting the boom with the 'Device lifting hook' engaged in the vertical channel, will result in the 'Gripper Legs' being activated outwards resulting in the grippers firmly contacting the inside of the ring. Before lifting- 'A small sharp boom movement' from the operator will ensure the unit is gripping the ring correctly.

Stage 5 Operator use – Disconnection.

When positioned correctly the Manhole Lifter can be disconnect from the ring by repeating the operation as detailed in Stage 4.