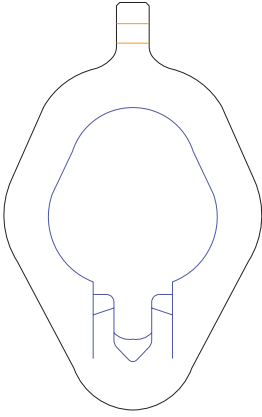
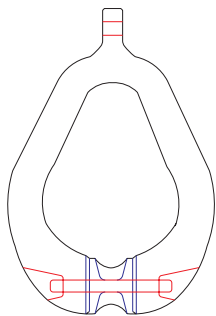


## Chaser



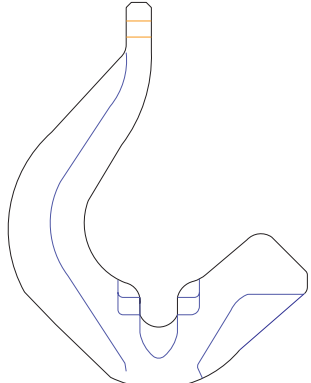
**The Permanent Chain-Lock Chaser**

Increased rig dimensions and anchor forces lead to higher requirements for the breaking-out force. Whilst the greater force may be available with the large ahv's, the need was seen for a chaser which could break-out an anchor without having to contend with the force in the mooring which opposes breaking-out. The Chain-Lock Chaser currently under development and field trials, fulfils this requirement. By locking on the chain ahead of the anchor shackle, the mooring tension can be completely relaxed and the ahv has to deal only with the weight of the anchor and its resistance to break-out.



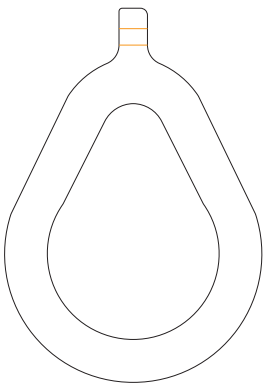
**The Permanent Wire Chaser**

The Permanent Wire Chaser was introduced when the rigs moved to yet deeper waters, and composite wire/chain mooring systems became necessary. The chaser incorporates a 'rocker' which is centrally mounted on a hinge bolt. The rocker has two opposing wire grooves and when the chaser is engaged with the mooring cable, the wire slides through one of these grooves irrespective of the angle which the chaser makes with the mooring. The radius at the base of the wire groove assists in reducing wear of the rocker and avoids severe 'opening' of the lay of the wire if loop of wire. This means that wear is taken by the rocker without damage to the wire and, because the rocker is easily removable, replacement is relatively inexpensive. The permanent wire chaser is easily detachable by withdrawal and re-assembly of the hinge bolt and rocker. Some designs of wire chaser incorporate fully rotating rollers over which the mooring wire passes. To be effective such rollers need to be of large diameter and require more power at the ahv to penetrate the sea bed and reach the anchor.



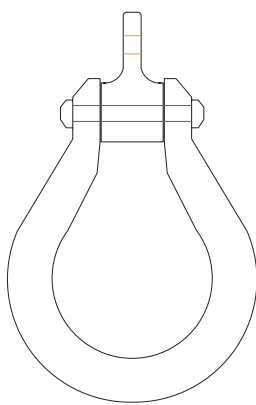
**The J-Lock Chaser**

The J-lock Chaser is based on the same principle as the Permanent Lock Chaser. However, the J-shape permits catching the anchor chain after the anchor has been installed. This means that this chaser can be used to assist in unforeseen circumstances. The well-balanced and 'guiding' design of the chaser enables catching the chain when the chaser approaches a mooring at the point where the catenary angle is as high as 45 degrees.



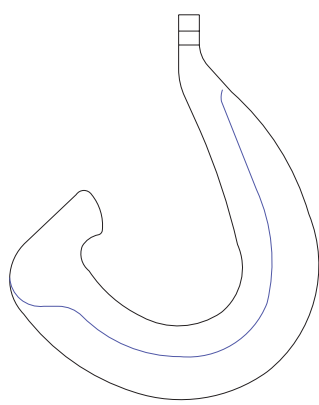
**The Permanent Chain Chaser**

As a practical alternative to the buoy and pennant, permanent chain chasers were introduced. Originally, simple shackles were used; these were followed by special cast oval rings which were attached to a pennant a "bright" of chain and shackle. Very soon afterwards the pear-shaped chaser with shackle eye was introduced. The design of these chasers offered superior sliding and penetration properties.



**The Detachable Chain Chaser**

For rigs in service, it is sometimes preferred to equip the mooring with a chaser which does not require the anchor chain to be broken and re-made. The Detachable Chain Chaser was introduced to satisfy this need. The withdrawal and replacement of the single hinge bolt permits easy assembly of the chaser on the mooring cable.



**The J-Chaser**

The J-Chain chaser is developed over the stern roller of ahv at approximately 1/3 of the water depth. The chaser is towed across the mooring catenary until it catches the chain. It is then towed into contact with the anchor shank/fluke for the anchor break-out and retrieval.