



HYDRAULIC ANCHOR STOWING SYSTEM

Hyd ASS
Rev. 0
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Overall view

The hydraulic anchor stowing system designed by Cariboni-Caritec, it's a smart, light and compact system to stow the anchor arm under the bow hatch just pushing a button.

The anchor stowing system is lightweight and compact idea.

Just 3 pieces to have a reliable system to move the anchor arm:

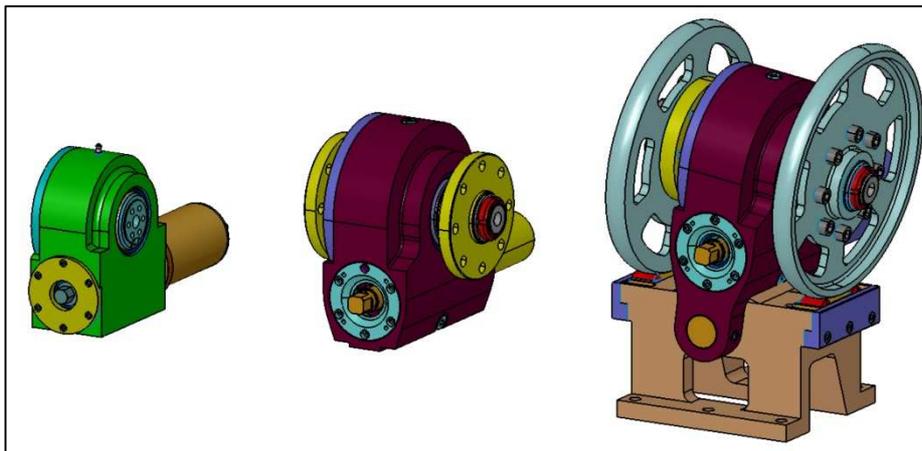
- an high efficiency hydraulic orbital engine to drive the system
- a stainless steel end-less screw
- a no-reversible high load gear

All these pieces are enclosed on a black hard-coated lightweight aluminium box to face the high-corrosion marine environment.

Each system has a manual backup in order to move by hand without efforts the anchor arm in case of hydraulic failure.

Here below a resume of the main features of each anchor stowing model:

MODEL	Dimensions [mm]	Weight [kg]	Max anchor weight	Max working torque	Working pressure [bar]	Oil flow [l/min]	Ratio
AAS_088	308x90x194	8.7	40 kg	1500 Nm	140	2	1/45
AAS_140	350x230x245	21.4	65 kg	2460 Nm	140	8	1/70
AAS_140L	407x270x450	37.7	65 kg	2460 Nm	140	8	1/70



AAS_088

AAS_140

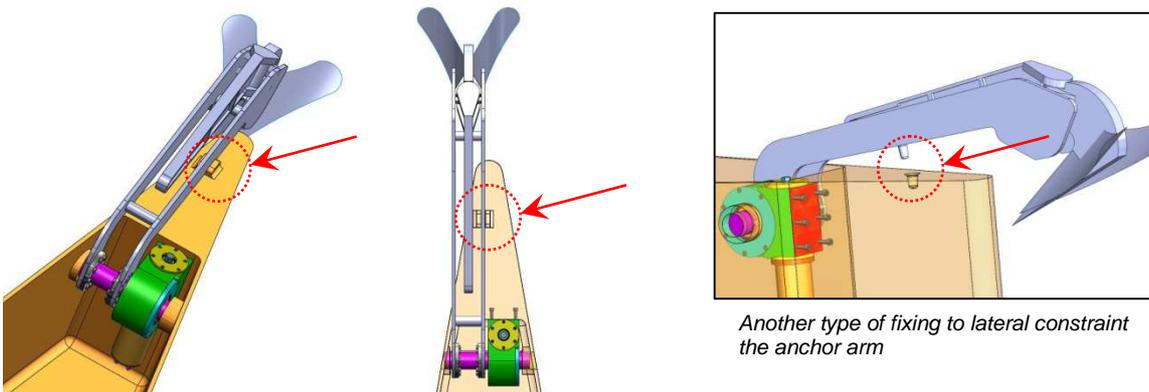
AAS_140L



Installation

Both AAS_088 and AAS_140 can be straight fixed to bow bulkhead with screws.
The AAS_088 has n.6 M8 female thread; the AAS_140 has n.8 M12 female thread. We strongly suggest to use only stainless steel screws, A4 type.

Please note that the screws are design to keep the load of the anchor and its arm but it is not design to keep lateral loads (when anchor is gripped and the boat is moving lateral)! So, you need to keep in position the anchor arm with lateral constraints (see below).



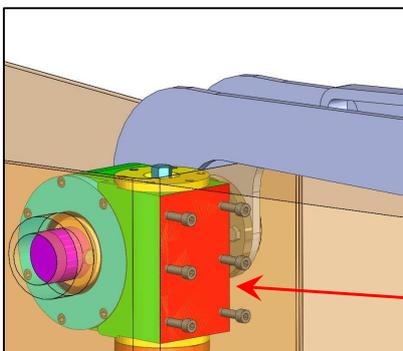
The anchor arm can be place side of anchor stowing system or in the middle as you prefer (see the photo on the right).

Standard 50mm hole with 14mm wide and 28.8mm height key is designed to insert the rotation shaft: custom arrangements are available on request.

In order to protect the aluminium box from galvanic corrosion, if the system is placed on a carbon fiber bulkhead, place a glass sheet between bulkhead and anchor stowing system.



AAS_088 placed in the middle of the anchor arm



Place the glass sheet between bulkhead and red face



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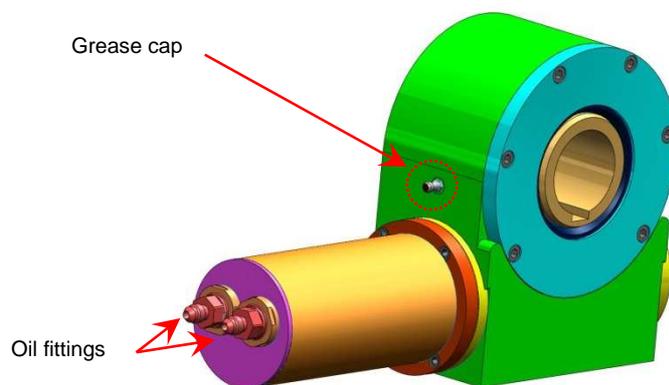
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The hydraulic engine has n.2 oil fittings, 7/16" JIC 37° UNF size. As the system is reversible, you can plug the as you want without problem. We suggest to place some grease on thread fitting in order to easily screw up the fitting and avoid any future seized.

When you screw or unscrew the hoses, hold tight the oil fitting with another wrench: do not remove the oil fittings from the anchor stowin system! OR damages can happen.

The hydraulic engine has no drain line.

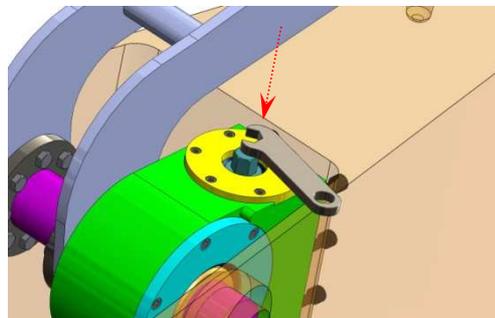
The mechanical gears are lubricated by grease: the system is full charged with grease in the firm. If the system is open, you have to re-fill it with grease by the outdoor cap.



This system can be driven by a standard CETOP valve, size 6, with J hydraulic scheme (A, B and T line are linked together when valve is off) or H scheme. You have to use these kind of spool type in order to not damage the hydraulic orbital engine when you run the manual back-up system.

No overcenter valve is needed to control the movement of the system.

Even if there's a failure on hydraulic system, you can move the anchor arm simply by a 17mm wrench and turn CW or CCW to get in or out the arm. Please note to remove the wrench from the manual backup before run the system by hydraulic.



Use 17mm wrench to manual get in/out the anchor arm

In order to avoid any damage to the system and to the boat, we strongly suggest to put electric or mechanical switches to cut off the system when the anchor is full out or full in.