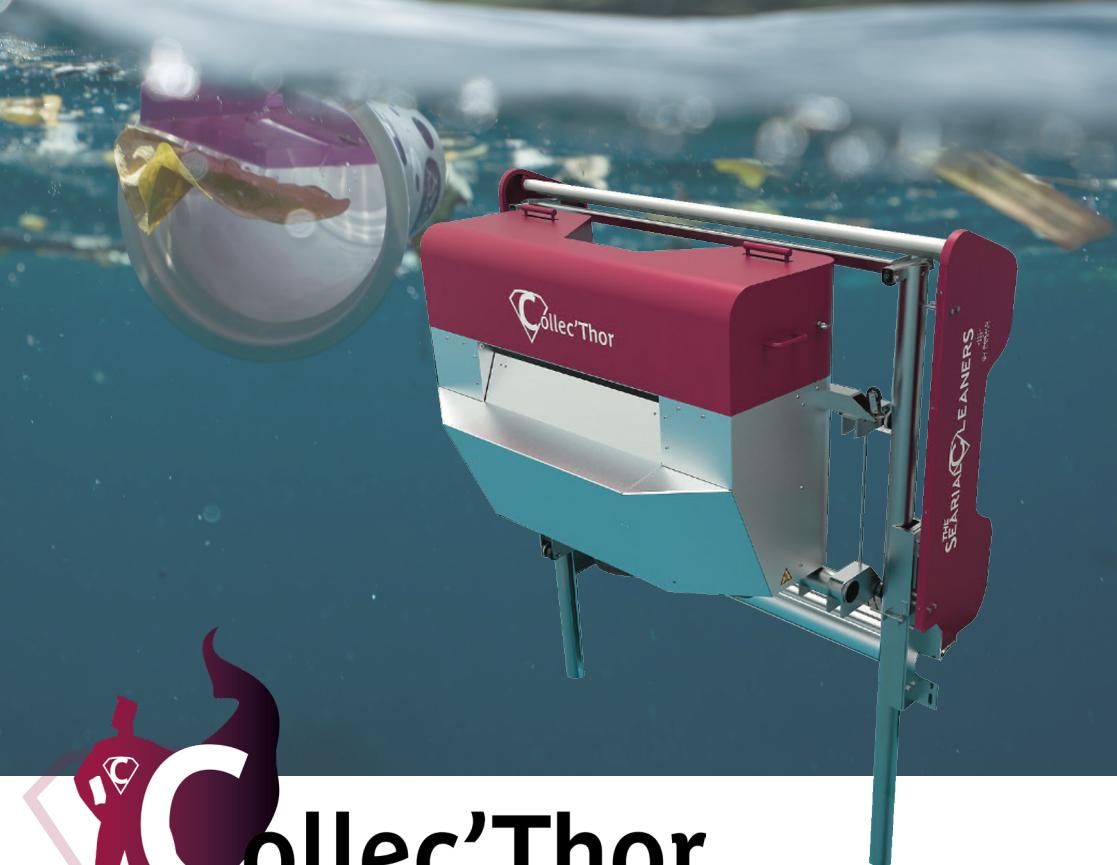


INSTALLATION MANUAL



THE
SEARIAL CLEANERS
STOP WONDERING START CLEANING



This guide will help you to familiarize yourself with your waste collector and will also take you through the steps you will need to take to install it and use it correctly.

If you have any questions, please get in touch at:
aftersales@searial-cleaners.com

SERIAL NUMBER

Version 1 - 05/2022

Collec'Thor products are manufactured and sold by ROTAX SAS: 428 652 531 R.C.S
BOURG-EN-BRESSE - A subsidiary of NOVA NAUTIC SAS: 511 219 370 R.C.S BOURG-EN-BRESSE - operating under
the name PORALU MARINE.
Address: RUE DES BOULEAUX ZONE INDUSTRIELLE, 01460 PORT, FRANCE

Website:
www.searial-cleaners.com

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ELIGIBILITY CONDITIONS

The Collec'Thor must be installed in a location that meets the **following conditions**:

- You have an area measuring **2.4 m/95 in wide and 40 cm/16 in deep** on one edge of the dock
- The edge of the dock is fully **flat** so that the **mounting plates** can be attached
- The dock measures **at least 2.5 x 6 m/100 x 236 in** and has a **reserve buoyancy of 1.8 t.**
- The **maximum current speed** does not exceed **1.5 knots**
- The **maximum wave height** does not exceed **0.3 m/12 in**
- The **minimum low tide depth** exceeds **1.5 m/60 in**
- The Collec'Thor must be installed on a **floating dock only**
- The dock **freeboard** must be between **150 mm/6 in and 760 mm/30 in**
- The dock **must be fully flat** and in the same plane as the water level. It must not be tilted in either direction.
- The maximum distance between the floating dock and an **electric power supply must not exceed 10 m/394 in.** Warning: the electrical cable must not present an obstacle to dock users
- The Collec'Thor can be supplied with **220v or 110v to suit your requirements**
- The Collec'Thor **must be regularly inspected and maintained by marina personnel.**
- The marina personnel **must be trained in operating the Collec'Thor.**
- Third parties **must not have access to the Collec'Thor's power supply.**
- Installing the Collec'Thor at the end of a dock is not recommended except on a Poralu dock. If you are unsure, contact your distributor.

LOCATION

The Collec'Thor must be strategically placed in an area in which waste accumulates.

EQUIPMENT REQUIRED FOR INSTALLATION

- Handling equipment (hand pallet truck, forklift, etc.) to transport the Collec'Thor to its installation location
- Adjustable pliers
- Spirit level
- Ring wrenches, sizes 10-13-17-19-24 mm
- Mallet
- Set of standard Allen wrenches
- Appropriate male plug for your electrical power supply.
- Appropriate fixings to attach the Collec'Thor to the dock.



NB: Fixings for attaching the Collec'Thor to the dock are not included.

→ **Maximum diameter 16 mm**

→ **Total fixings: 6**

TECHNICAL SPECIFICATIONS & DIMENSIONS

Power supply: **220v or 110v**

750 watts

Wastewater pump: **32,000 lph/140 gpm**

Aluminum fixings

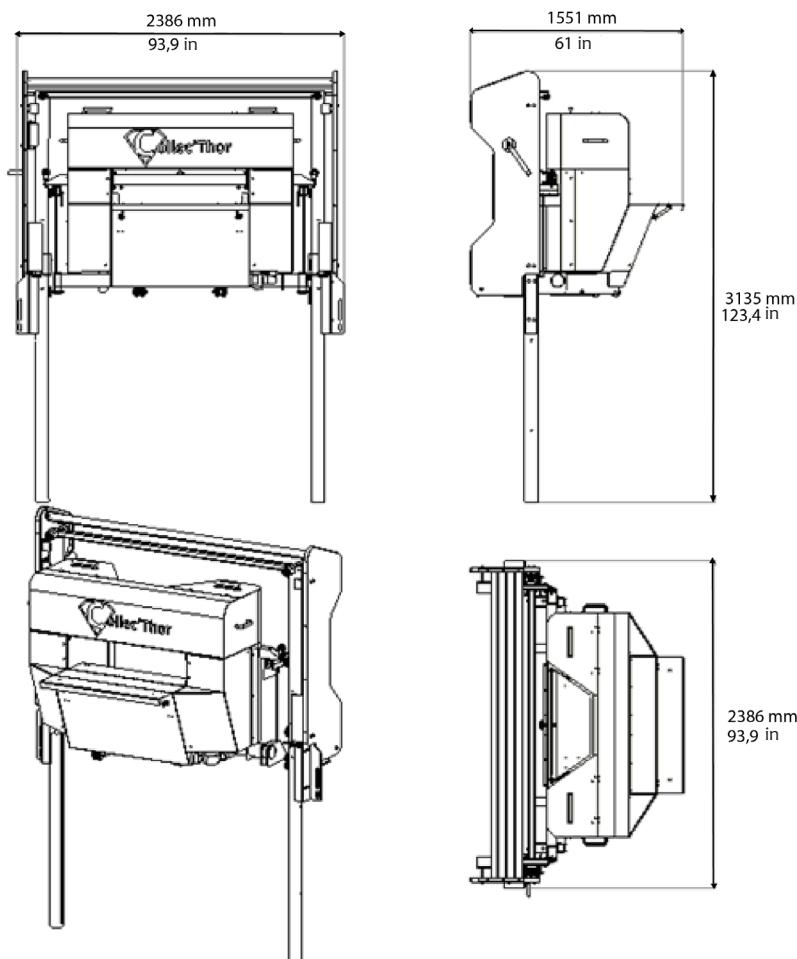
5754 marine aluminum collection tank

Points on the lower beams on which to install anodes

Capacity: **100 kg/320 l - 220 lbs/70 gal**

Electrical cable: **10 m/394 in**

Total weight: **240 kg/530 lbs**



HANDLING

The Collec'Thor is delivered in **three packages** as follows:

- A package containing the Collec'Thor, as well as small components and fixings required for assembly

Dimensions: 2030 mm x 970 mm x 1340 mm – weight: 144 kg

Dimensions: 79.9 in x 38.1 in x 52.7 in – weight: 318 lbs

- A package that contains the lifting beams

Dimensions: 2093 x 905 x 450 mm – weight: 70 kg

Dimensions: 82.4 in x 35.6 in x 17.7 in – weight: 154 lbs

- A package that contains the docking station (optional)

Dimensions: 2276 x 125 x 508 mm – weight: 28 kg

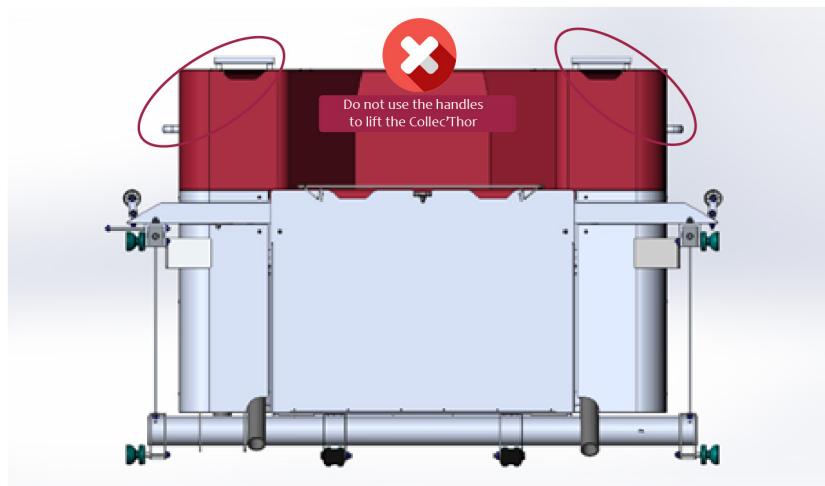
Dimensions: 89.6 in x 4.9 in x 20 in – weight: 61.7 lbs

After delivery, moving the packages requires special equipment for moving heavy loads.

The packages cannot be moved by hand.

The Collec'Thor's lifting system is designed to lift the collection container only, and must not be used for any other purpose.

The **handles** on the sides of the Collec'Thor are used **solely as grips** when **rolling** the device. They **cannot be used to lift** the Collec'Thor.



NOISE & PERSONAL PROTECTIVE EQUIPMENT

The Collec'Thor produces a noise level of less than 70dB. As such, when operating it, ear protection is not required.

When maintaining the Collec'Thor, personnel must wear **safety boots**. We strongly recommend that **personal protective equipment designed to prevent drowning** is worn when working on the Collec'Thor.

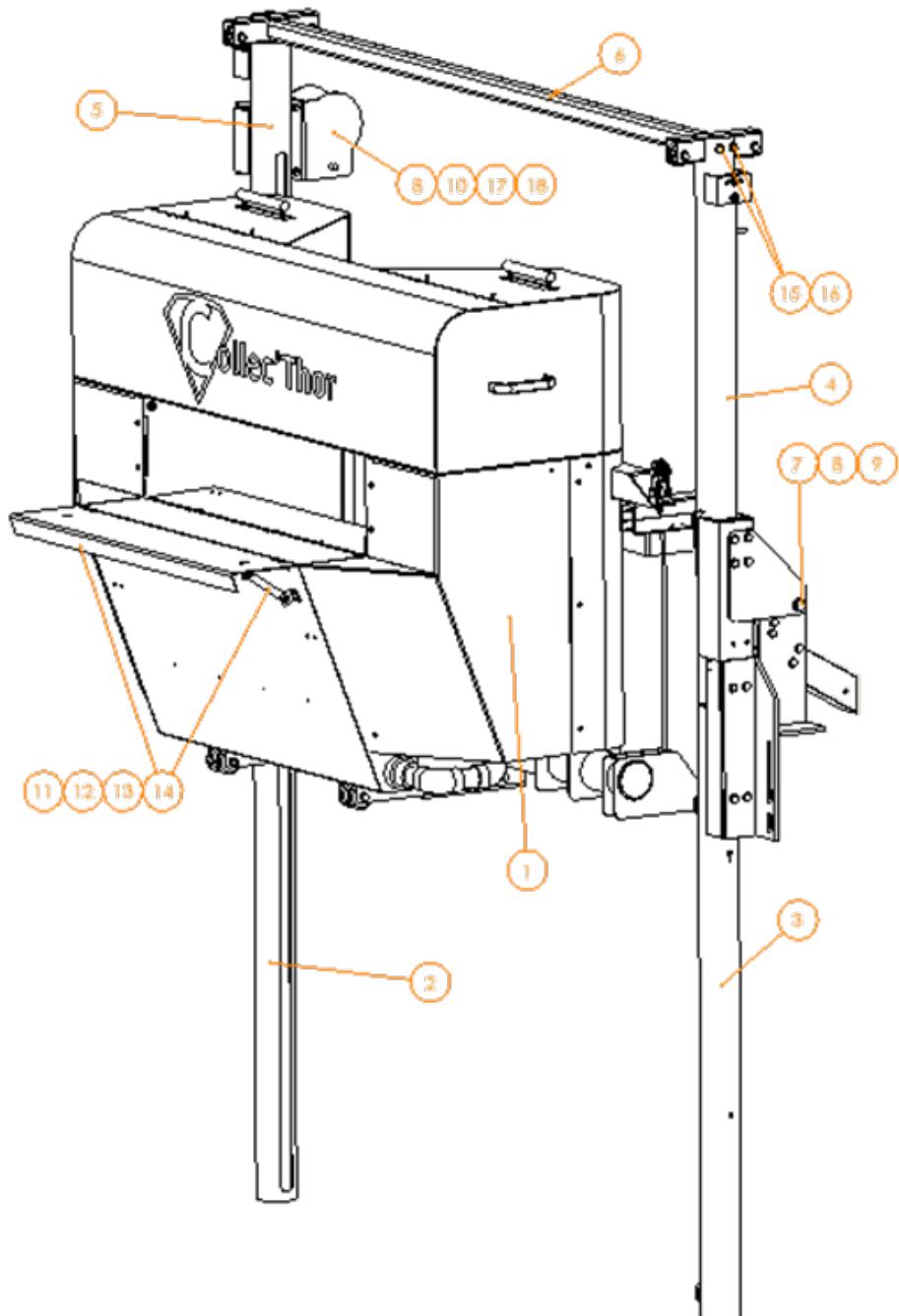
FIXINGS & COMPONENTS INCLUDED IN THE PACKAGE

COLLEC'THOR SUB-ASSEMBLY KIT

ITEM no.	DESCRIPTION	QUANTITY
1	Body assembly	1
2	Lower right beam	1
3	Lower left beam	1
4	Upper left beam	1
5	Upper right beam	1
6	Pulley transfer beam	1

COLLEC'THOR FIXINGS KIT

ITEM no.	DESCRIPTION	QUANTITY
7	M16x45 hex-head fixing	2
8	Ø16mm washer	6
9	Ø16mm lock nut	2
10	Ø20mm washer	2
11	Pre-drilled metal strap	2
12	M8x20 domed head hex. socket fixing	4
13	D8 washer	8
14	M8 lock nut	4
15	M10x25 hex-head fixing	4
16	Ø10mm washer	4



COLLEC'THOR ACCESSORIES KIT

ITEM no.	DESCRIPTION	QUANTITY
17	Cable clamp (<i>taped to the winch</i>)	1
18	Winch cable	1
19	Roller/chain assembly	2
20	Oil pad	2
21	Pump instructions	1
22	Winch instructions	1
23	Pull-outs	2

OPTIONAL DOCKING STATION SUB-ASSEMBLY KIT

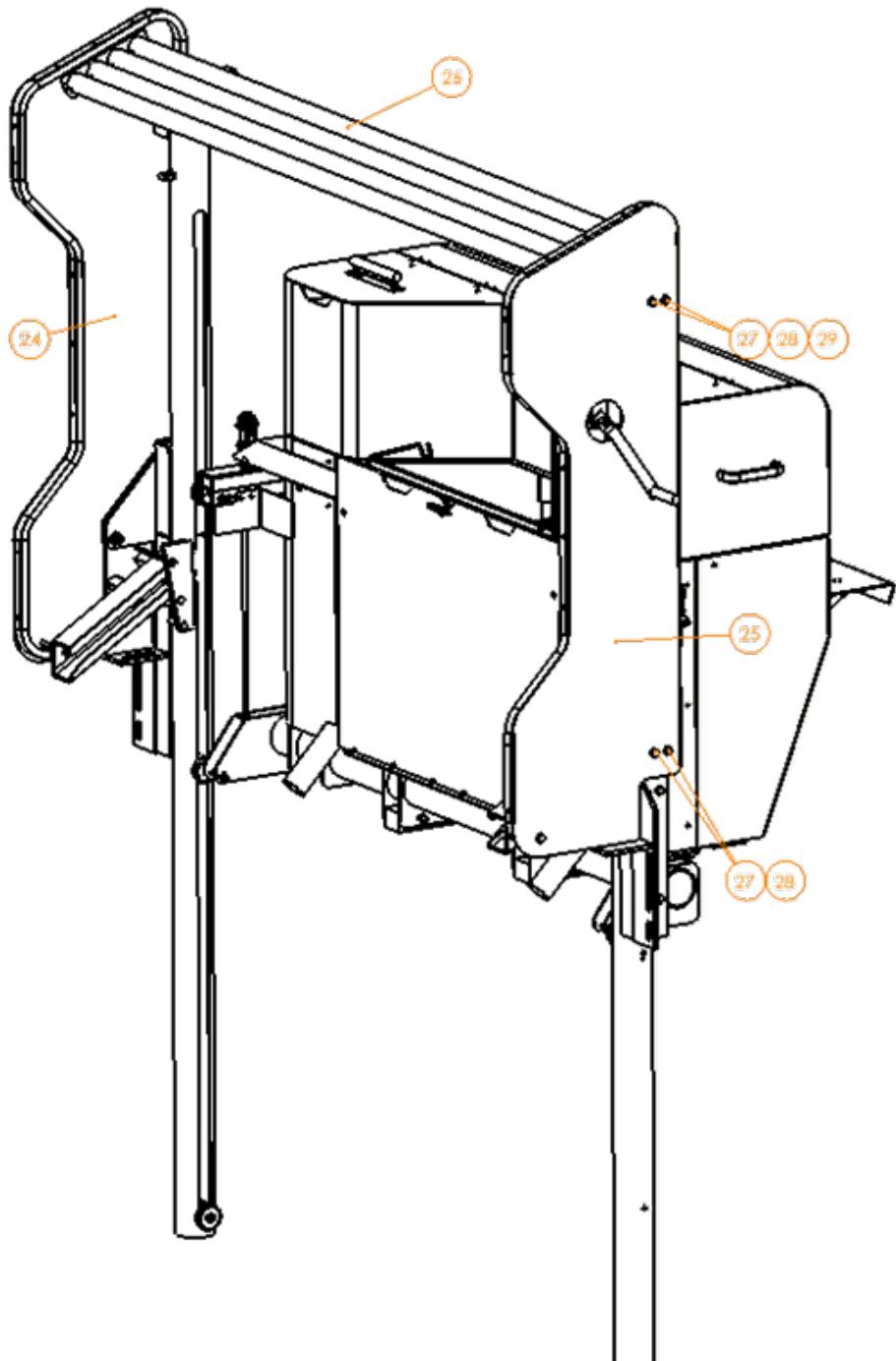
ITEM no.	DESCRIPTION	QUANTITY
24	Left-hand panel	1
25	Right-hand panel (<i>with the large hole</i>)	1
26	Round white tube assembly	1

OPTIONAL DOCKING STATION FIXINGS KIT

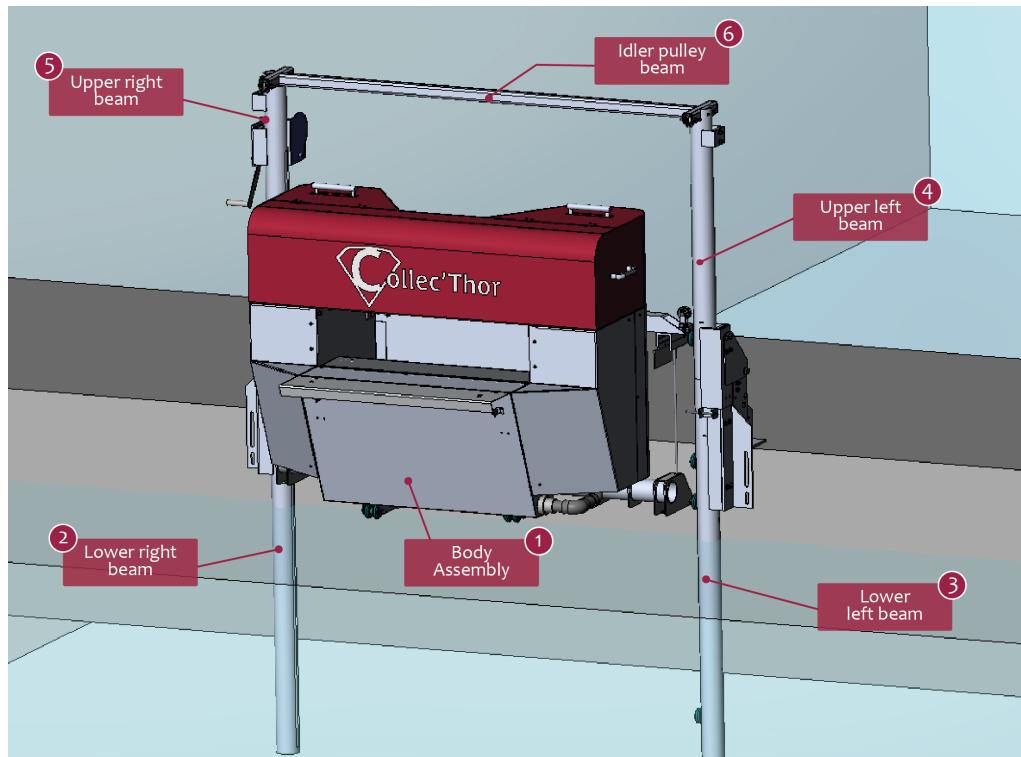
ITEM no.	DESCRIPTION	QUANTITY
27	M10x80 hex-head fixing	8
28	Ø10mm washer	8
29	Ø10 int. x45 mm spacer	4

OPTIONAL DOCKING STATION ACCESSORIES KIT

ITEM no.	DESCRIPTION	QUANTITY
30	2x30cm double sided tape	2
31	Premium plate	1

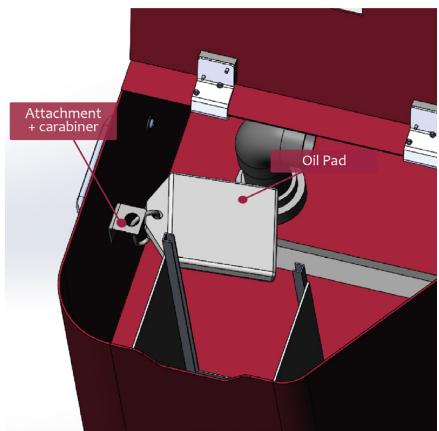
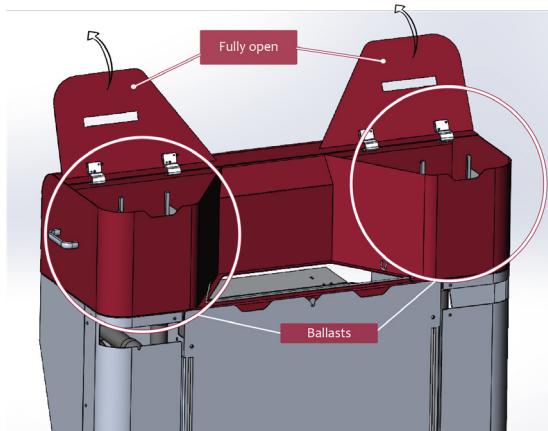


INSTALLATION



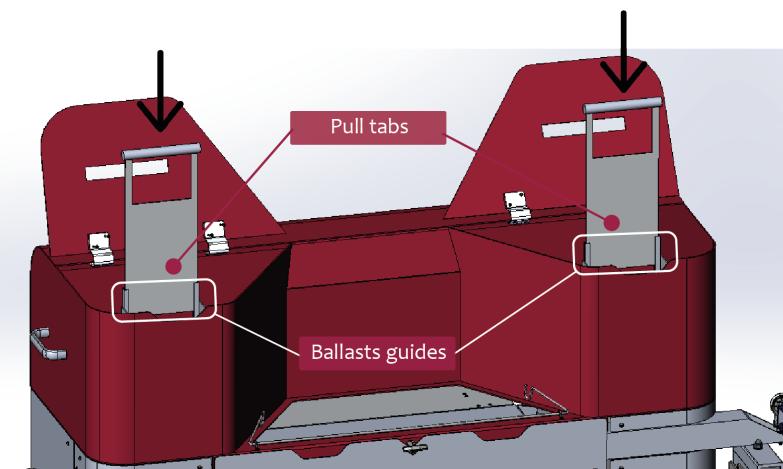
Step 1: Install the oil pads

- Open the left and right ballast tank covers at the top of the body assembly (1)
- Attach the oil pads (20) to the karabiner in the ballast tanks, **one oil pad in the left ballast tank and one in the right ballast tank**



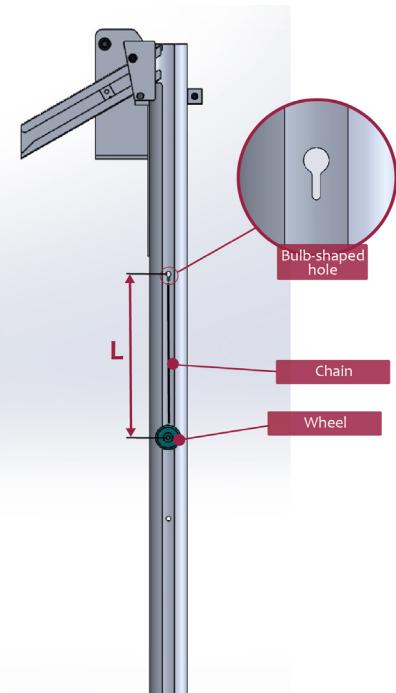
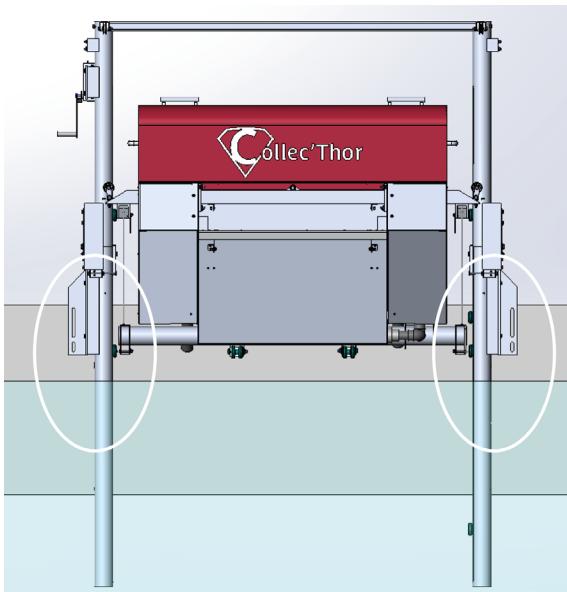
Step 2: Insert the pull-outs into the ballast tank

- Slide the two pull-outs (23) into the ballast tank rails



Step 3: Set the low end stops

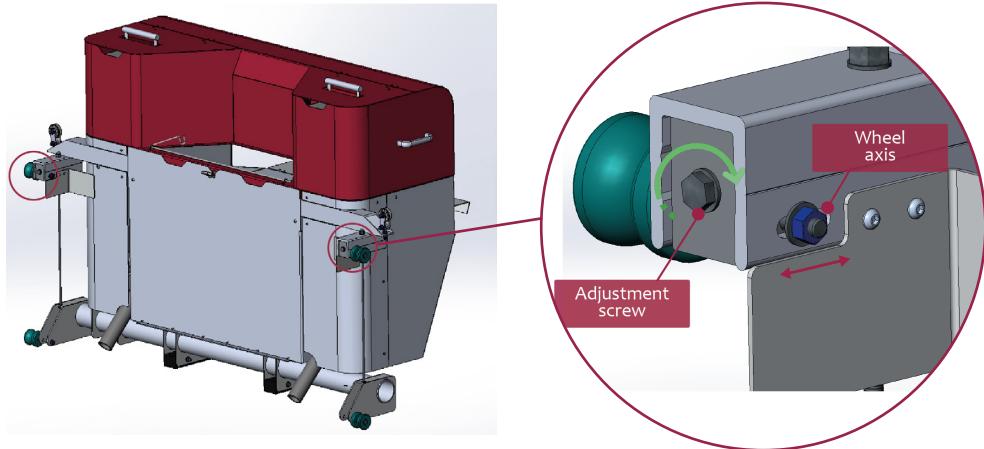
- Use the roller/chain assemblies (19) included in the fixings bag
- Slide a roller into the groove of one of the lower tubes (2). Repeat for the other side (3). The fixing that protrudes from the roller must be in the tube
- Run the chain through the light bulb-shaped hole in the beam
- Measure the freeboard of the dock on which the Collec'Thor will be installed
- Add 45 cm/17.7 in to this value to give you the length L
- The length L is the required length for the chain in the tube
- Use the light bulb-shaped hole and the M8x20 fixing + nut to hold the chain in place at the correct length



Step 4: Set the forward/rear tilt

The weight of the Collec'Thor can cause your dock to list during operation.

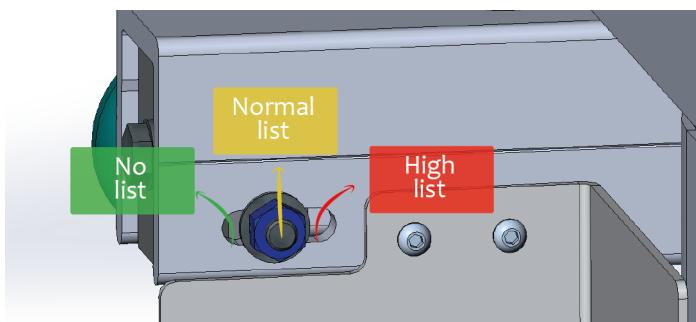
The Collec'Thor is fitted with a system that adjusts its forward/rear tilt in order to compensate for this list.



- Turn the adjustment fixing to move the roller axle. The greater the dock tilt, the more to the front the roller axle needs to be
- We generally recommend that the roller axle is positioned in the middle of the tilt adjustment groove. A higher tilt setting may be required if the dock was already listing prior to the Collec'Thor being installed



Note that the same setting must be used on the left and right of the Collec'Thor



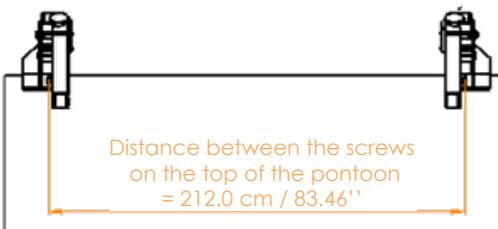
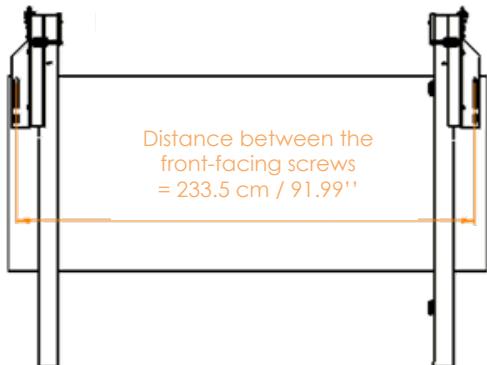
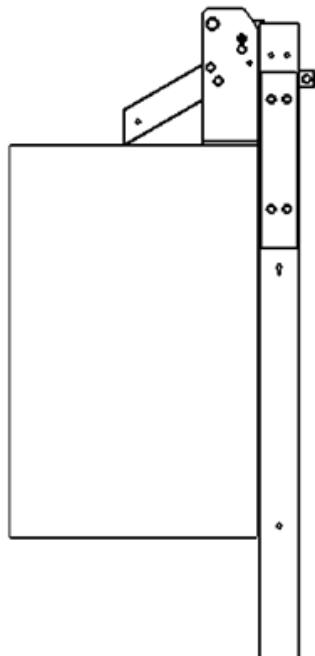
Step 5: Attach the lower beams

Attach the lower beams (2) and (3) onto the dock, following the recommended spacing and using the appropriate fixings for the dock (not included). **Using a spirit level, make sure that the beams are vertical.**

On each beam:

2 front-facing screws,

1 screw on the top of the pontoon

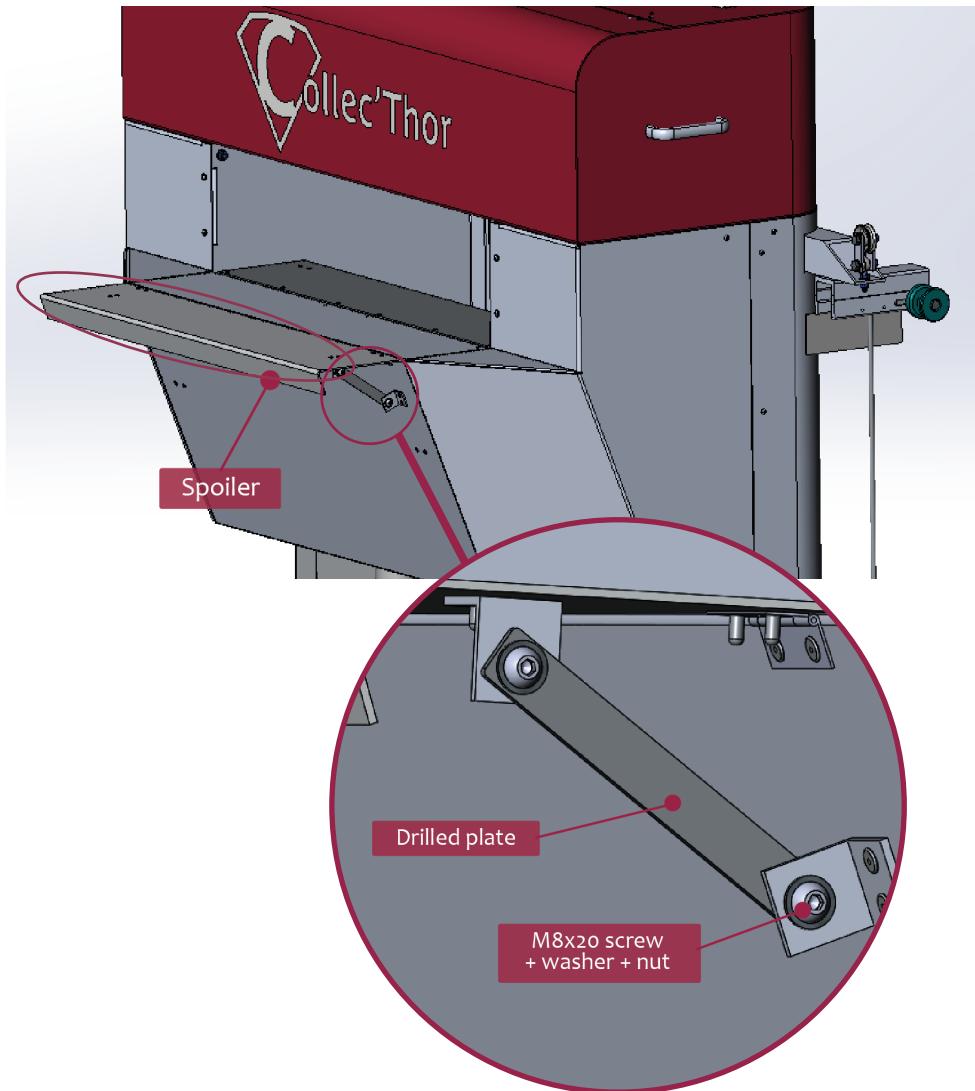


Remember that the **minimum distance between the square tubes must be 191.7 cm/75.47 in** and the **minimum distance between the mounting plates must be 205.9 cm/81.06 in.**

Step 6: Attach the body assembly fin

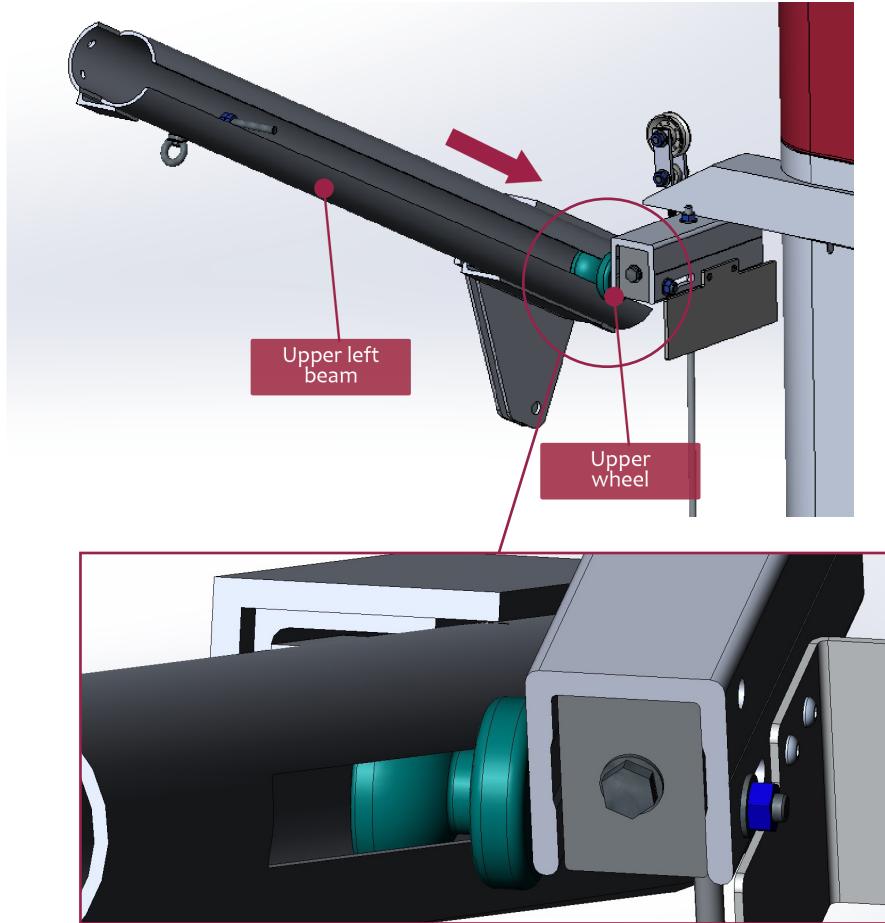
- Lift the fin to horizontal
- Use the pre-drilled metal strap (11) and the M8x20 fixings (12, 13 and 14) to fix the fin in position
- Insert all the fixings, then tighten until contact is made

Repeat on the left and right sides



Step 7: Position the upper beams

- Align the body assembly (1) in front of the lower beams (2) and (3), with the ground rollers opposite the tubes. **The large “Collec’Thor” sticker must be facing the water**
- Slide the upper left roller into the upper left beam (4)
- Repeat with the upper right beam (5), which is fitted with the winch
- Place the upper beams (4) and (5) on the ground

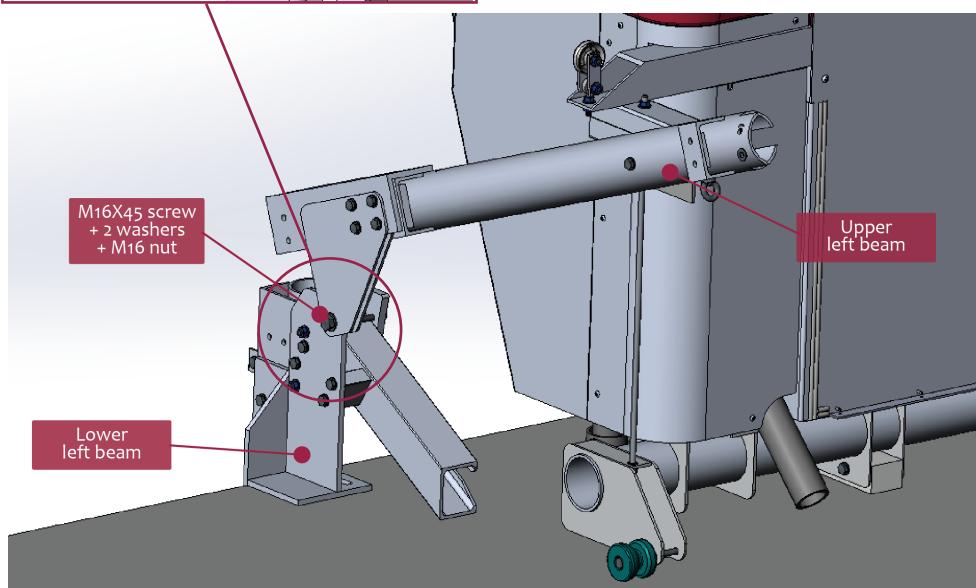
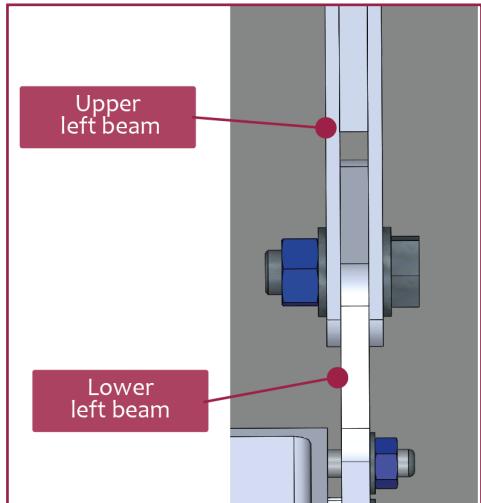


Step 8: Attach the upper beams

Attach the upper left beam (4) to the lower left beam (3)

 **Important: do not tighten the bolt fully**

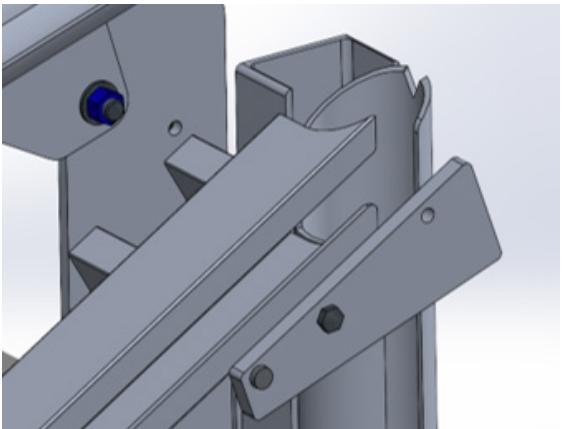
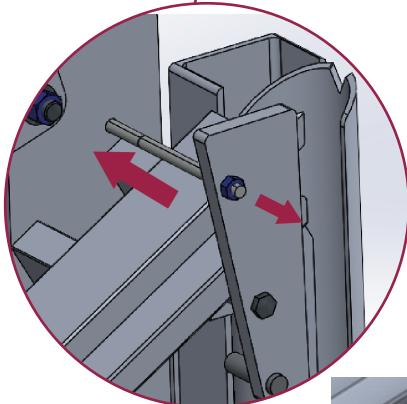
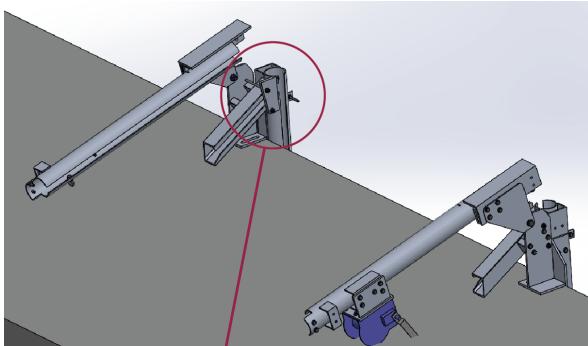
Repeat with the right-hand side.



Step 9: Lower the guide rail

- Remove the threaded rod that keeps the guide rail in place
- Place the guide rail in the down position

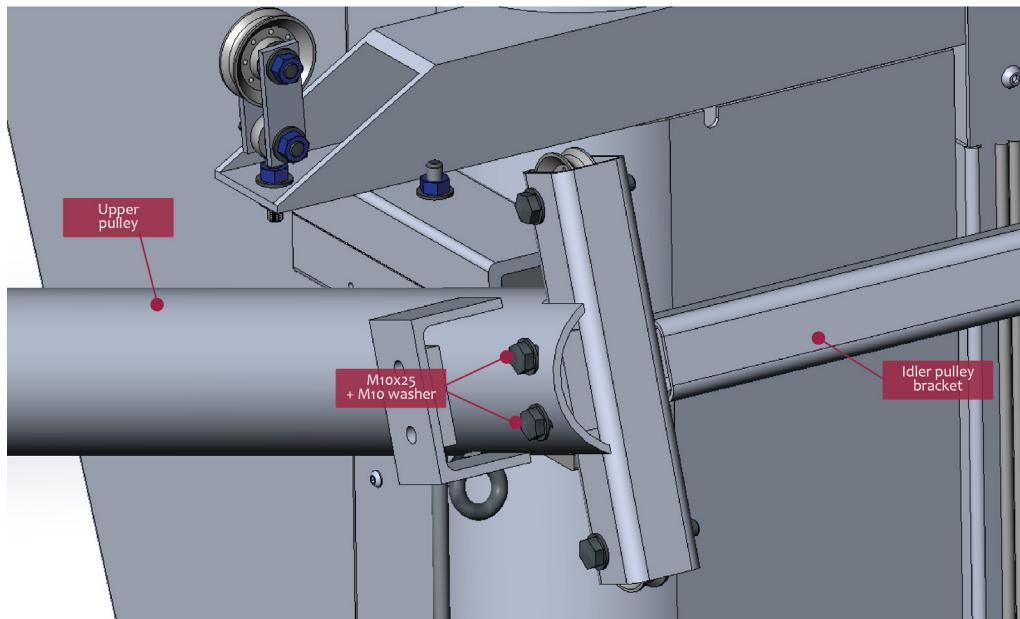
Repeat on the right and left sides



Step 10: Attach the pulley transfer beam

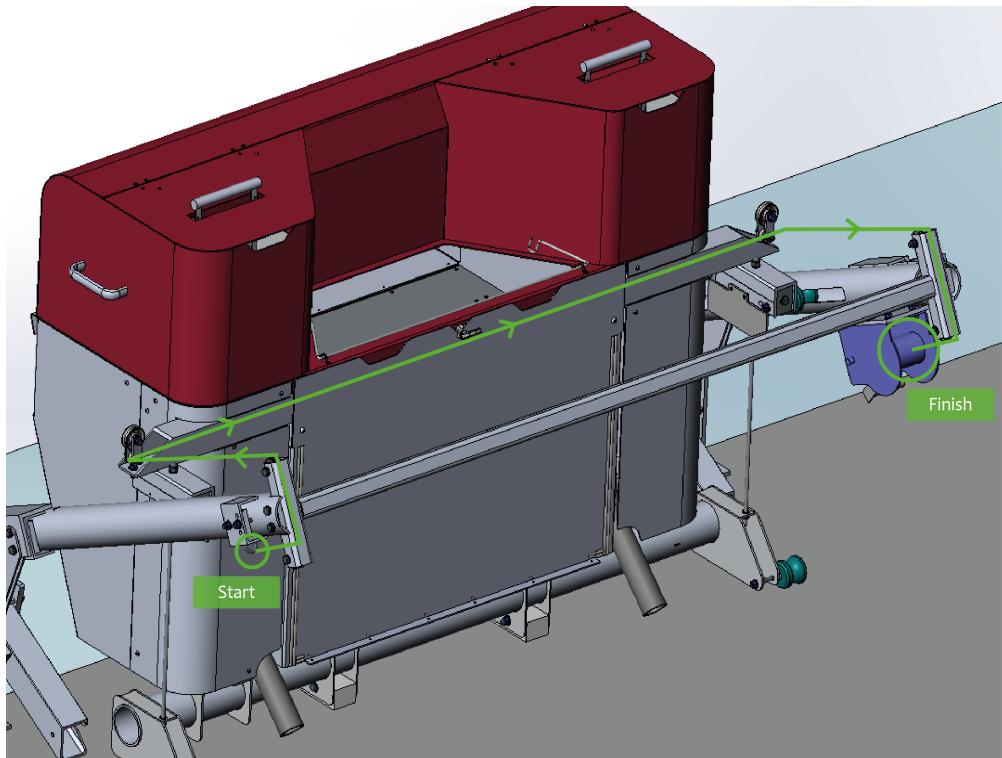
- Attach the pulley transfer beam (6) to the upper beams (4) and (5)
- Pre-position all of the fixings, then tighten until contact is made

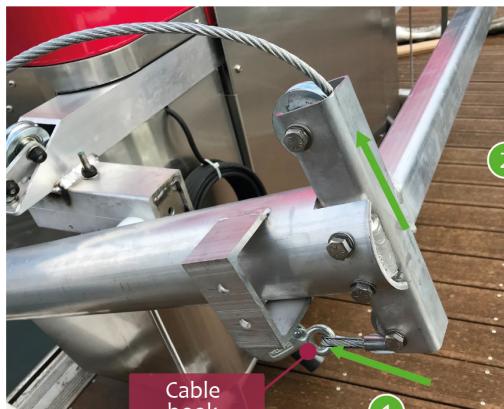
Repeat on the left and right sides



Step 11: Install the winch cable

- Attach the winch cable hook (16) to the stainless steel ring on the upper left beam (4)
- Run the cable as shown below
- Follow the included winch instructions to attach the cable to the winch using the cable clamp taped to the winch



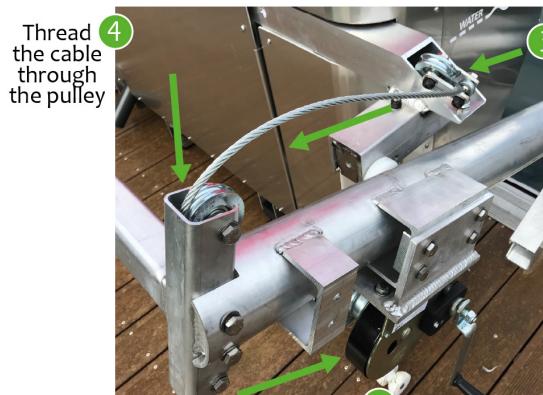


1 Hook the cable

2 Thread the cable through the pulley

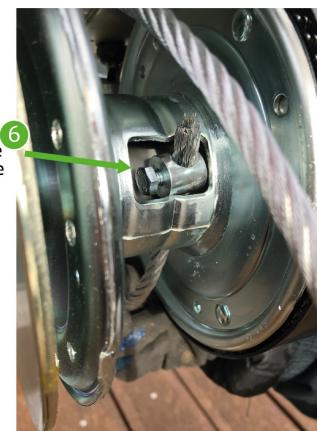


3 Thread the cable through the pulley



4 Thread the cable through the pulley
5 Thread the cable through the winch

3 Thread the cable through the pulley

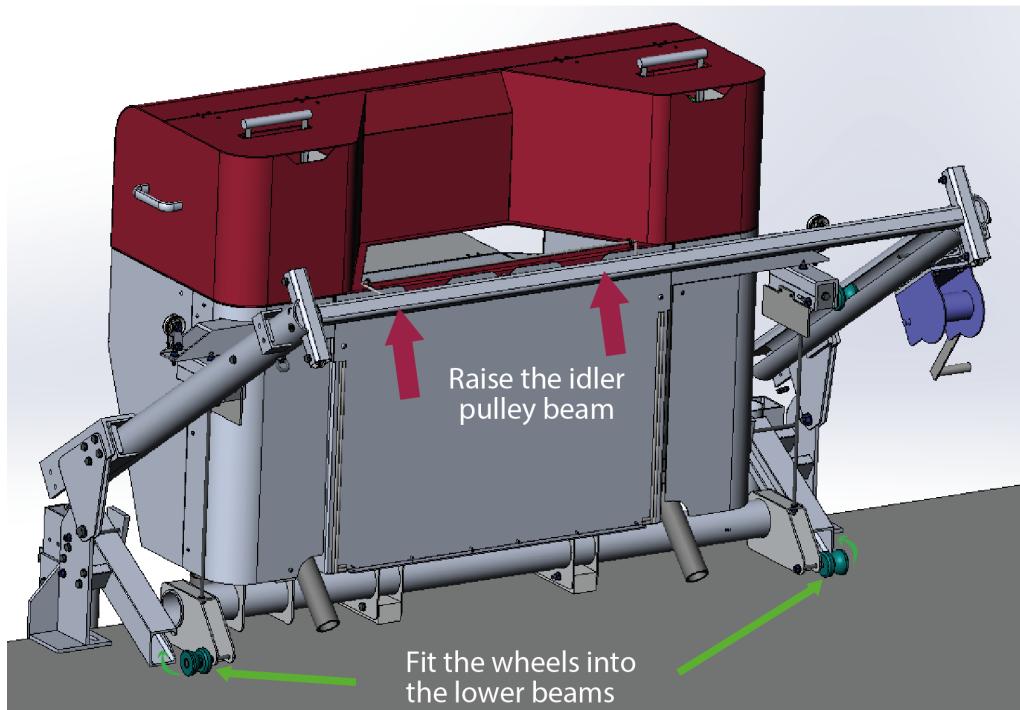


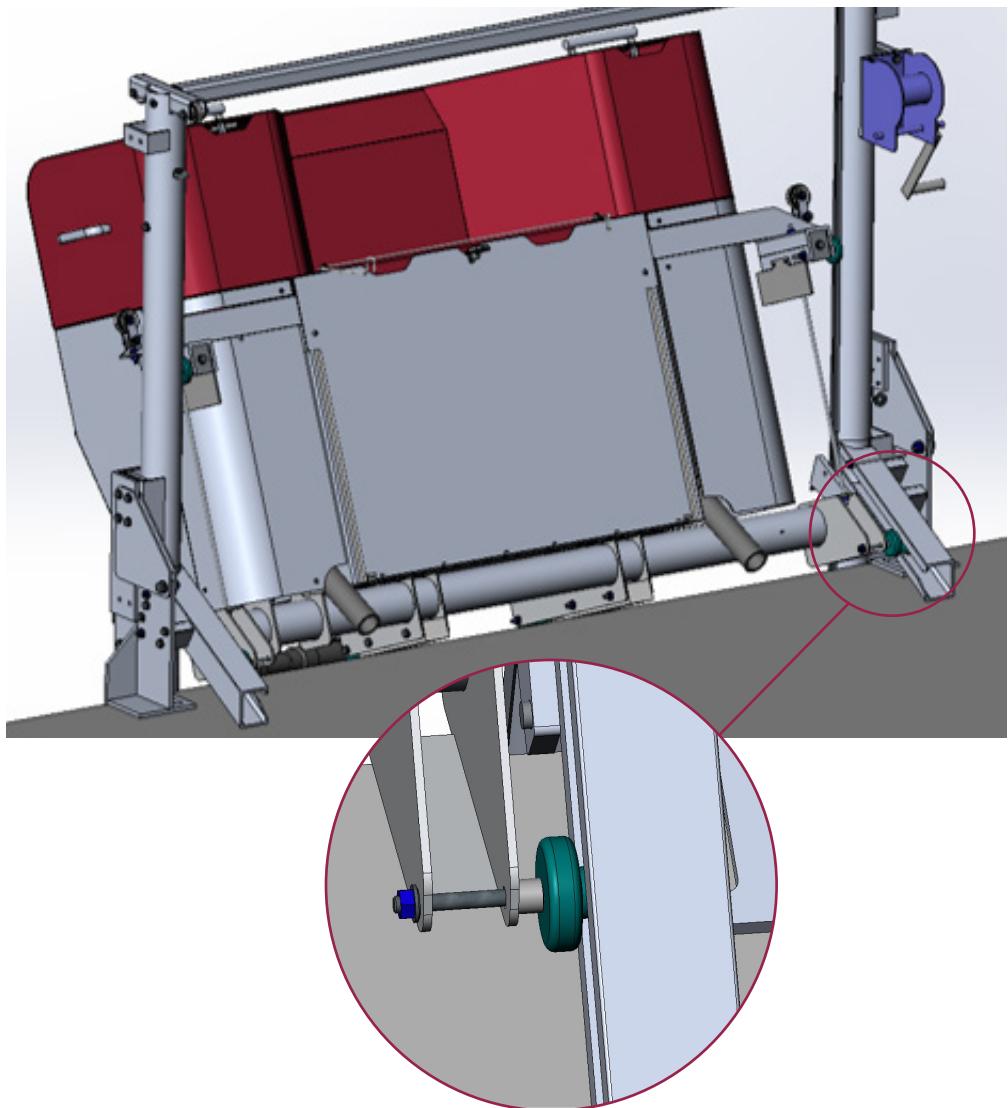
6 Secure the cable inside the winch

Step 12: Position the body assembly onto the upper beams

 At least 2 people required for this operation

- Ensure that the cable is not taut. If it is, release the tension
- Lift the pulley transfer beam (6) and insert the rollers on the bottom into the tubes of the lower beams (2) and (3)
- Lift the assembly using the pulley transfer beam (6)

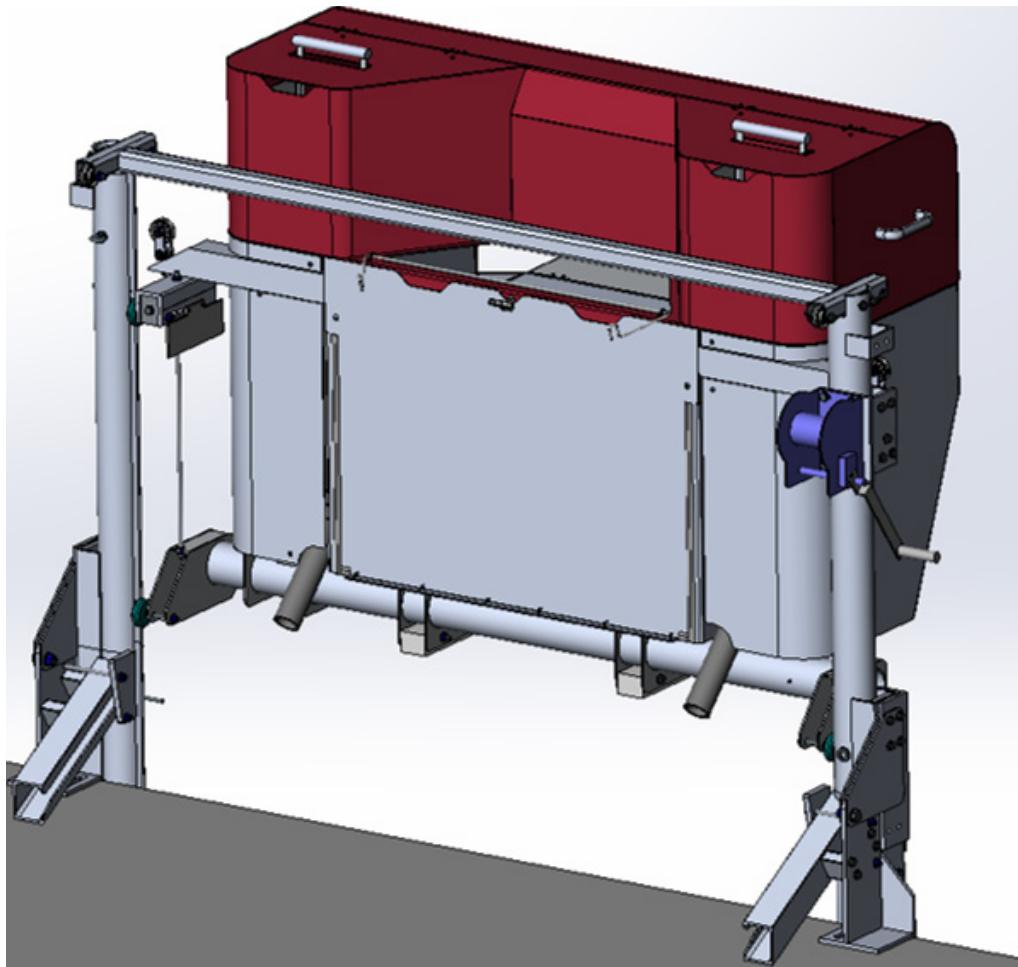




If the docking station option has been chosen, refer to the chapter entitled “Docking station installation” before moving to step 13

Step 13: Position the body assembly onto the lower beams

- Tighten both M16 nut + bolt assemblies on each lifting side until contact is made.
 - Lift the body.
- ⚠️ IMPORTANT: As the cable tightens, ensure that it is properly positioned in all pulleys.**
- Lift up the body to the end stops
 - Reinstall the left and right guide rails and tighten until contact is made (see step 4)

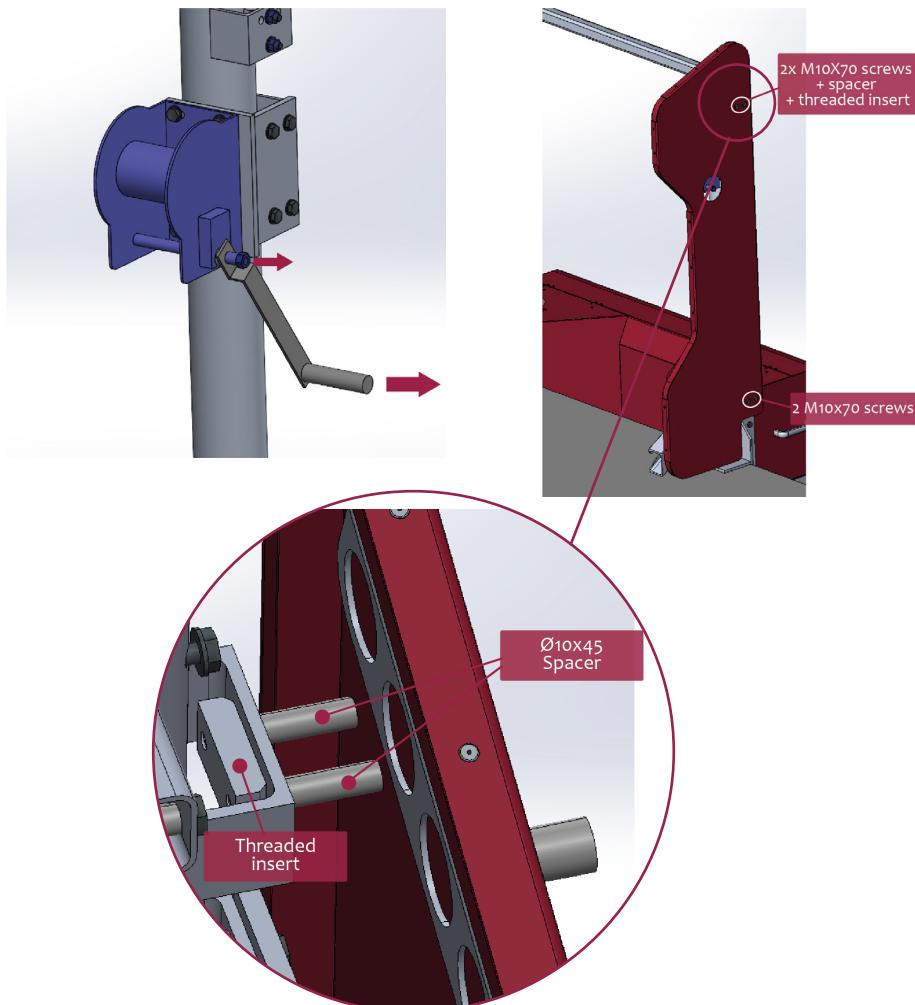


INSTALLING THE DOCKING STATION

 At least 2 people required for this operation

Step 1: Attach the right-hand panel

- Remove the winch handle with adjustable pliers and a 19 mm wrench
- Remove the nut then unscrew the handle from its axle
- Install the right-hand panel (which includes a hole)

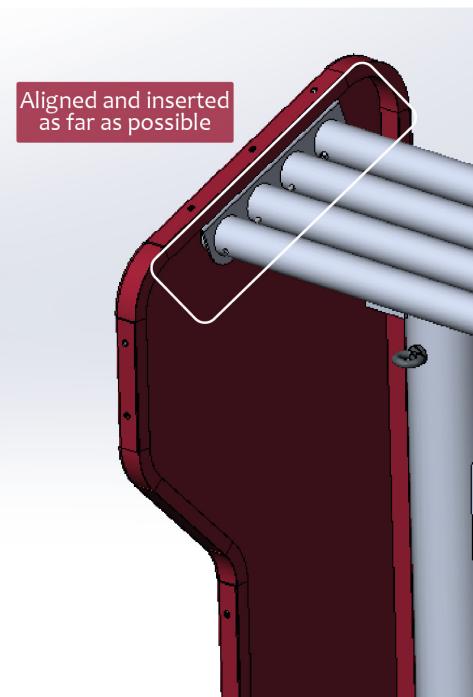
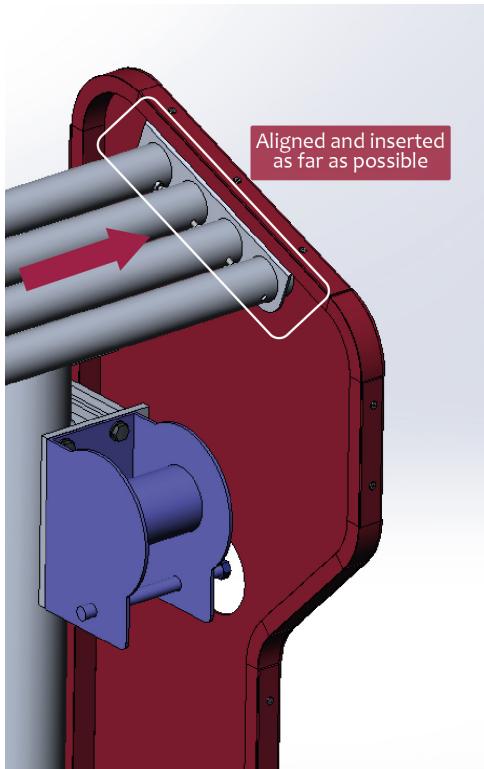


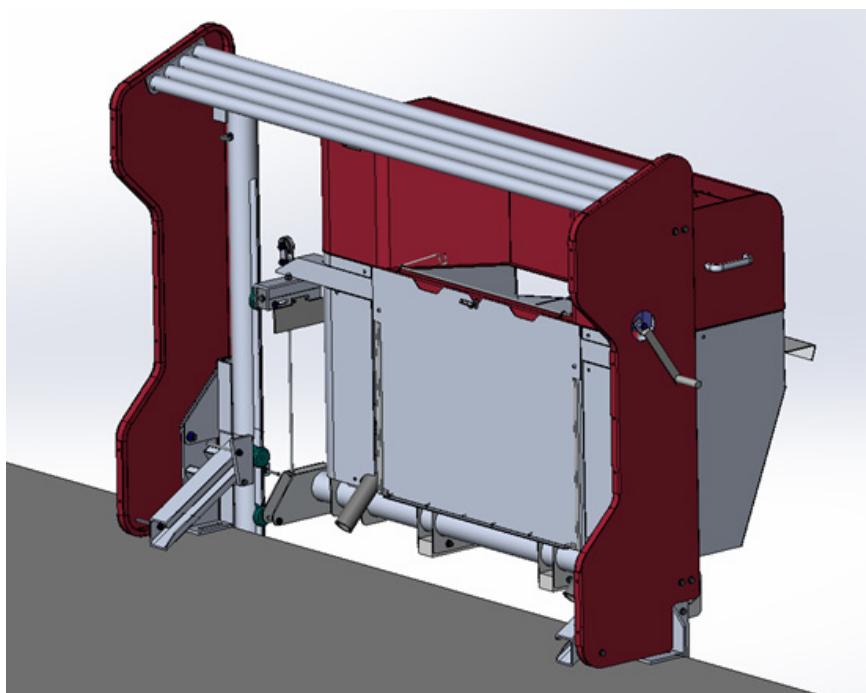
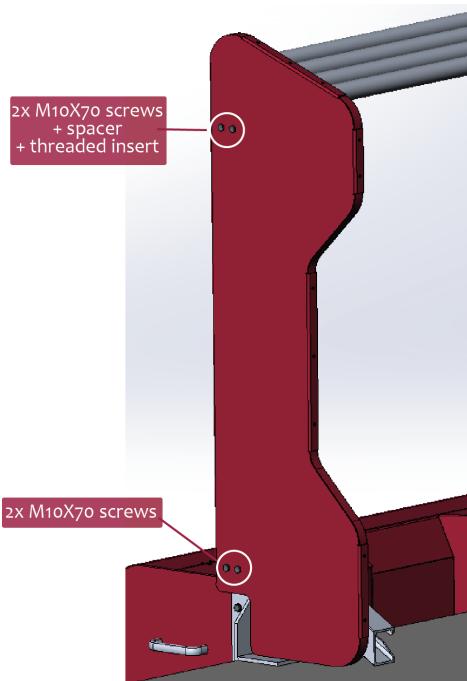
Step 2: Reinstall the handle

- Place 2 M16 washers followed by 2 M20 washers onto the winch axle
- Replace the handle onto the winch axle
- Tighten the M12 nut until it reaches the threadlock.

Step 3: Install the tubes and attach the left-hand panel

- Align the tubes and press them as far as possible into the holes in the right-hand panel
- While one person holds the tubes, press them into the left-hand panel and attach the left-hand panel in the same way as the right.





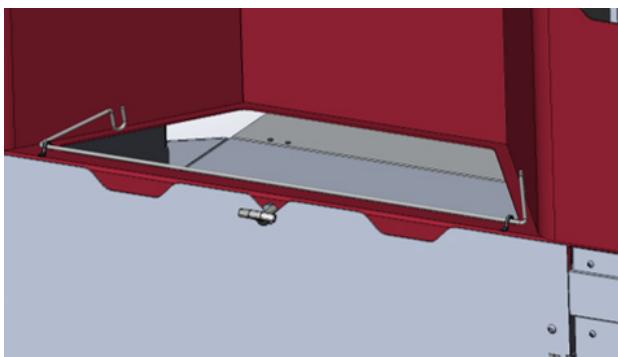
STARTING THE UNIT

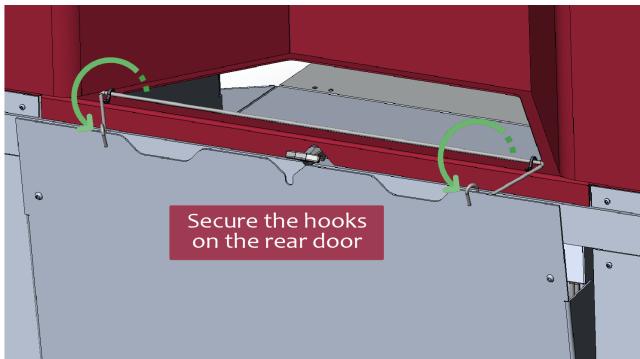
Before each use

- Check the anodes carefully. They must be replaced immediately whenever necessary
- Check that the winch cable is properly installed in each pulley
- Check that the cable is not damaged
- Check that the rear door closes properly
- Check that both beams are free of any obstacles (marine flora or waste)

Step 1: Immersion and filling the body

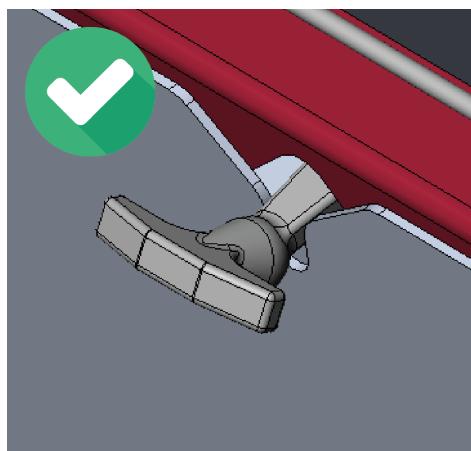
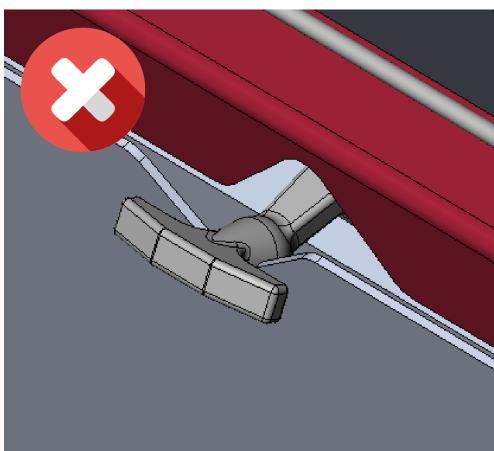
- Place the hooks over the rear door
- Lower the body into the water
- Lower it until it reaches the low end stops as the body fills with water. ***Take care not to lower the body too quickly once in the water***
- Ensure that the water level corresponds to the water level indicator stickers on the sides of the Collec'Thor.





Step 2: Starting the unit

- Remove the door hooks and close the door with the elastic latch
- Insert the plug into a 220V/110V socket.



Step 3: Verification

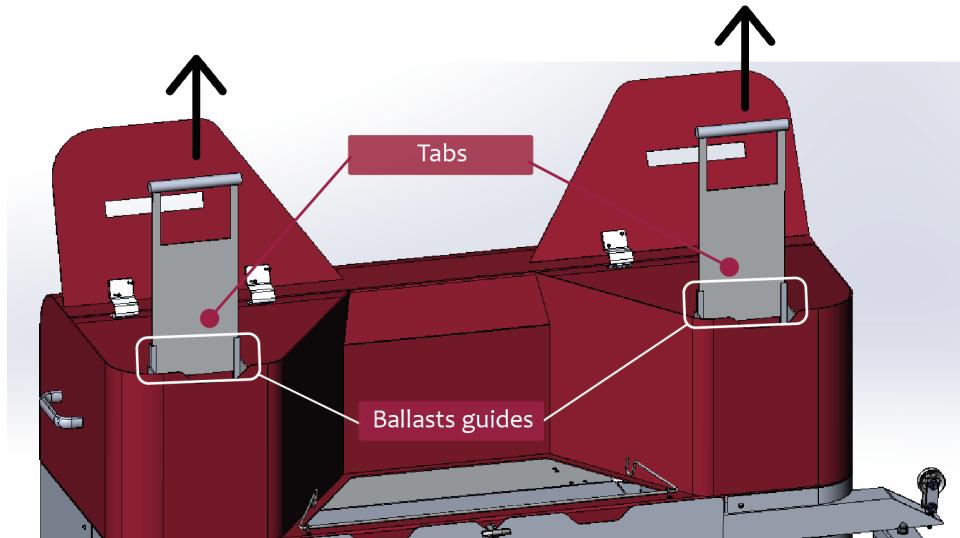
Check that water falls into the body. If this is not the case, set the low end stops again. (Cf. installation step 3)

EMPTYING WASTE

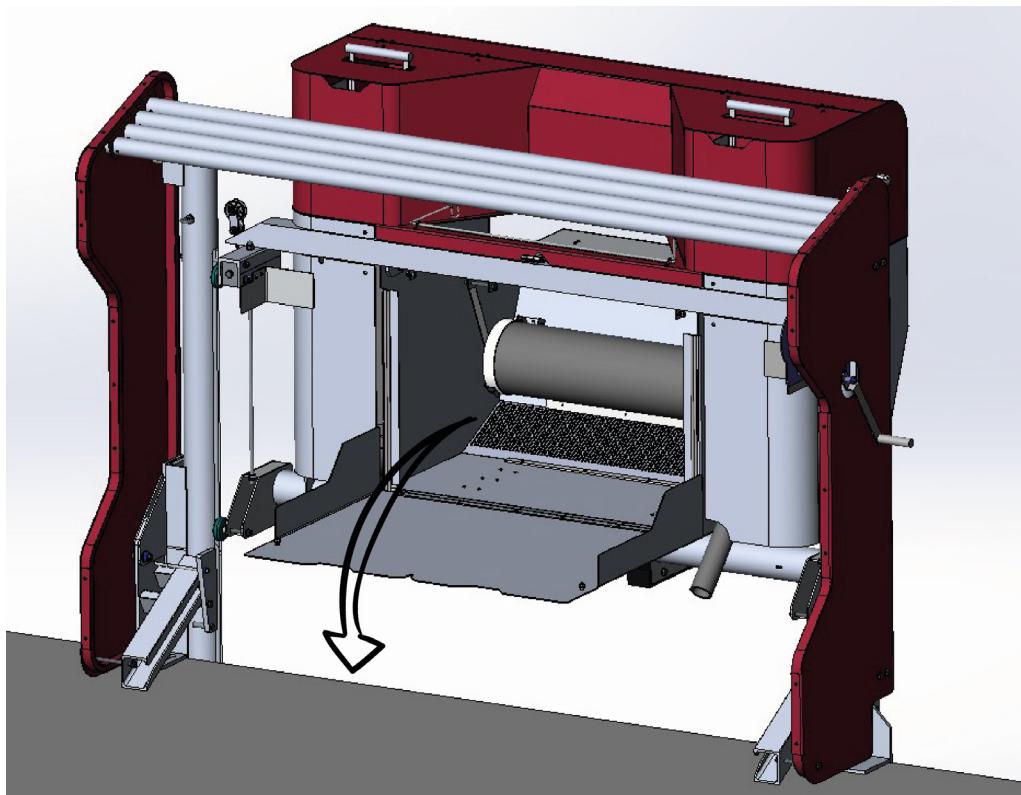


Every time the Collec'Thor is lifted from the water, the operator must visually check the Collec'Thor's lifting elements, including the winch, winch cable, pulleys, ball joints, and dock mountings to ensure that there is no risk of any parts breaking during the lifting process.

1. When taking the trash out, make sure to pull out both tabs from the Collec'Thor, referring to the drawing.
2. Make sure to gently wait for the tank to empty of water:
 - a - turn off the pump : noise change will indicate when to turn it off
 - b - proceed to using the winch to lift the Collec'Thor
3. **Warning: Do not let the pump run for too long when the tank is empty of water**



4. Position the body at the desired height for emptying and open the rear door
5. Empty out the waste and clean the filtration grid and container
6. Re-insert the pull-outs into the ballast tank
7. Restart the Collec'Thor (see "Starting the unit")



POSITIONING FOR MAINTENANCE

Before carrying out maintenance, the unit must first be emptied.

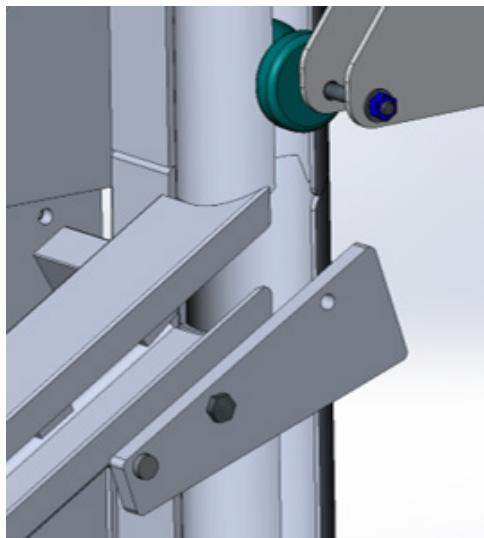
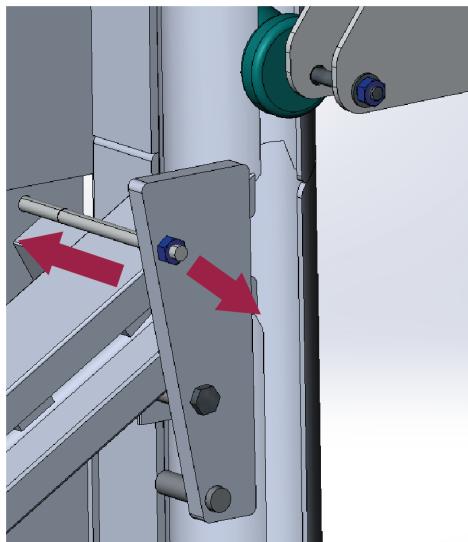
Basic maintenance procedures can be carried out when the body is in the raised position for waste removal. Major maintenance procedures such as a full cleaning are easier to carry out when the body is in the maintenance position (on the dock).

Step 1: Lift up the body to the upper end stops

Step 2:

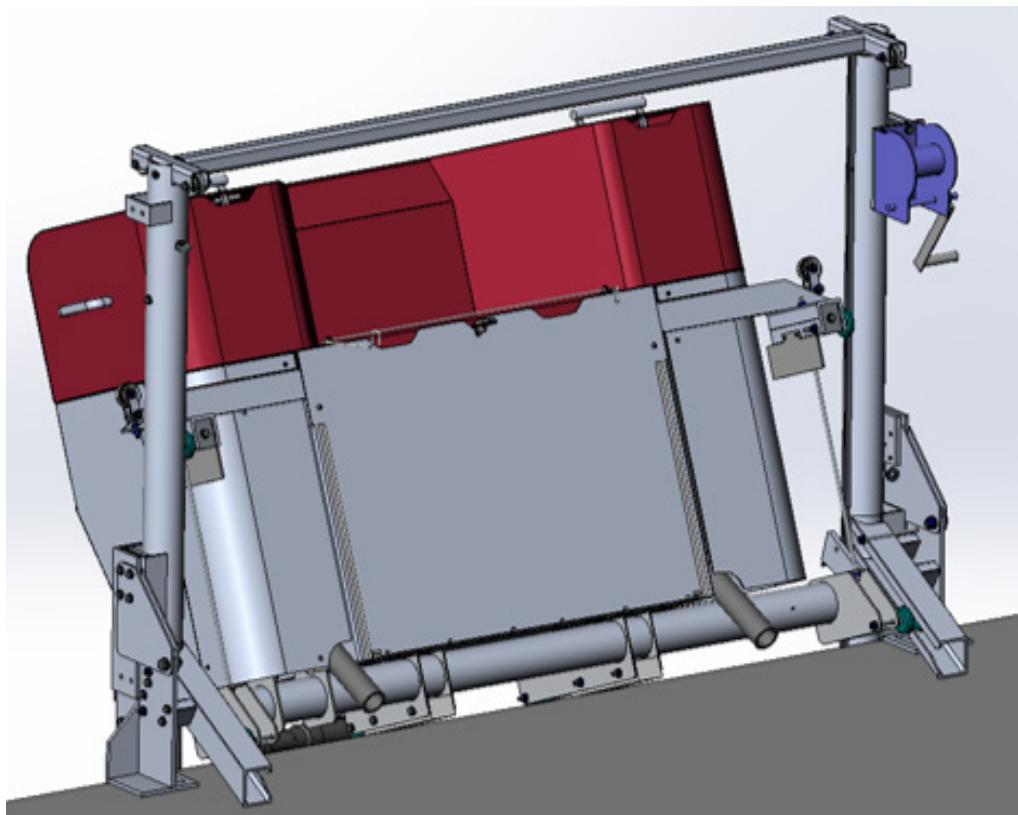
- Remove the threaded rod that keeps the guide rail in place
- Place the guide rail in the down position

Repeat on the right and left sides



Step 3:

- Lower the body until it contacts the dock
- Slightly loosen the M16 nut + bolt assemblies on each lifting side until the nut no longer makes contact.



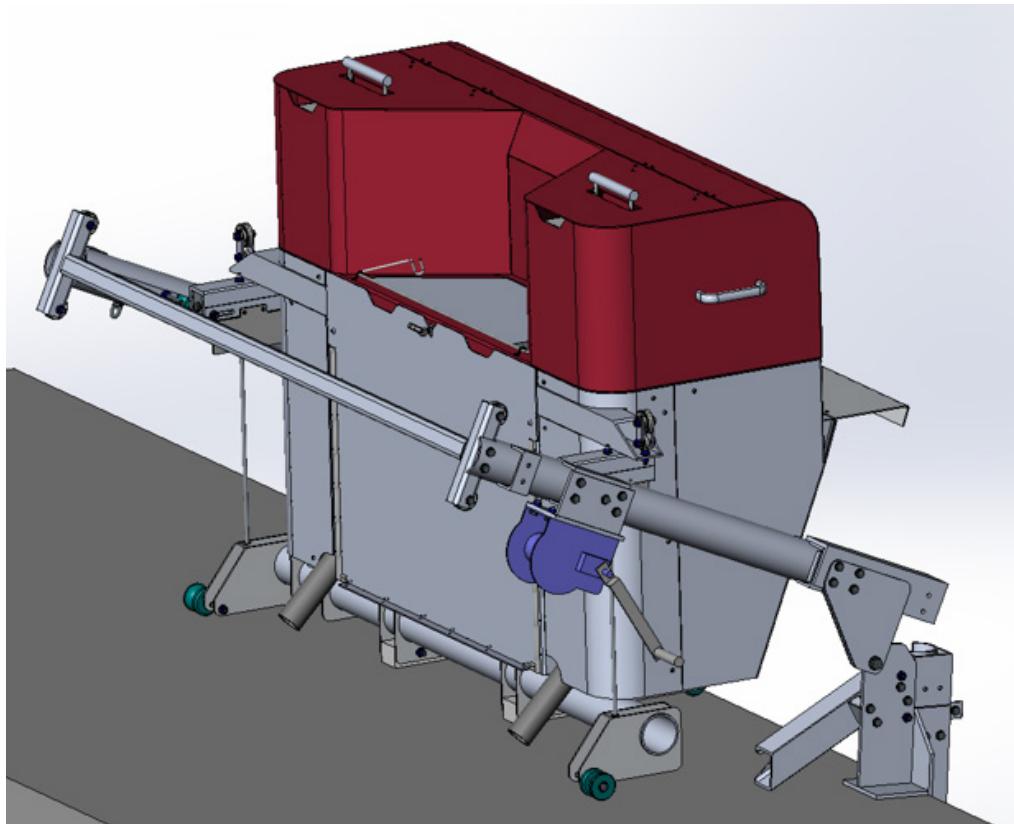
If the docking station option has been chosen, remove both panels as well as the round white tube assembly from the docking station before moving to step 4.

Step 4: Position the body assembly on the dock



At least 2 people required for this operation

Pull the pulley transfer beam (6) towards the dock to tip the upper beams (4) and (5) towards the dock and tip the body (1) onto the dock.



Step 5: Maintenance

Carry out all required maintenance, verification and cleaning procedures.

Step 6: Restart the unit

See Step 7: Installing the Collec'Thor

MAINTENANCE GUIDE

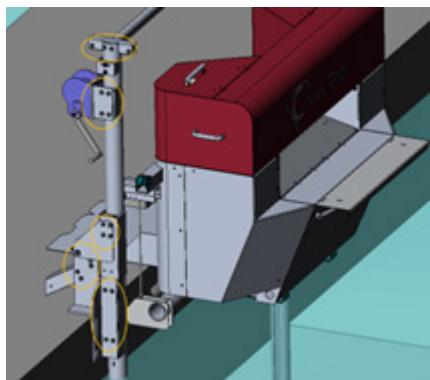
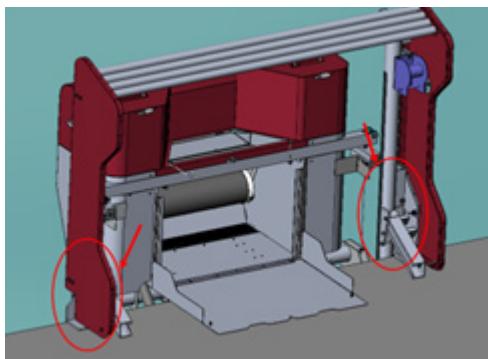
1. Recommended maintenance

Carefully clean the Collec'Thor with a pressure washer every 2 to 3 weeks. Clean both the interior and exterior surfaces.

Make sure to include the outside of the pump as shown in the diagram.

Ensure that all nuts are tightened on both sides of the structure.

Check the pulleys.



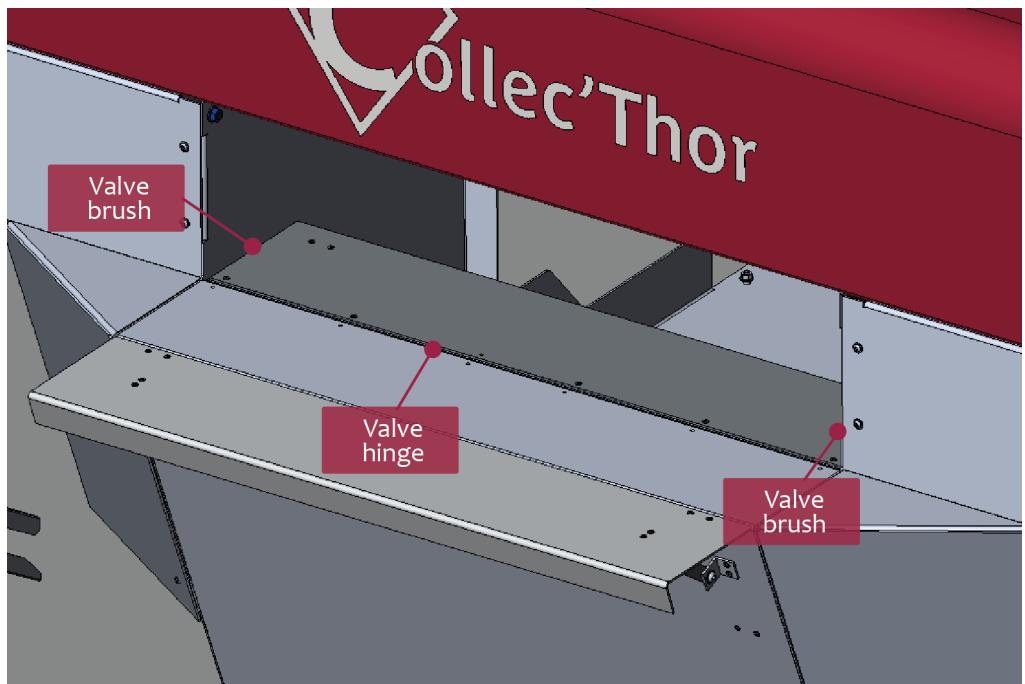
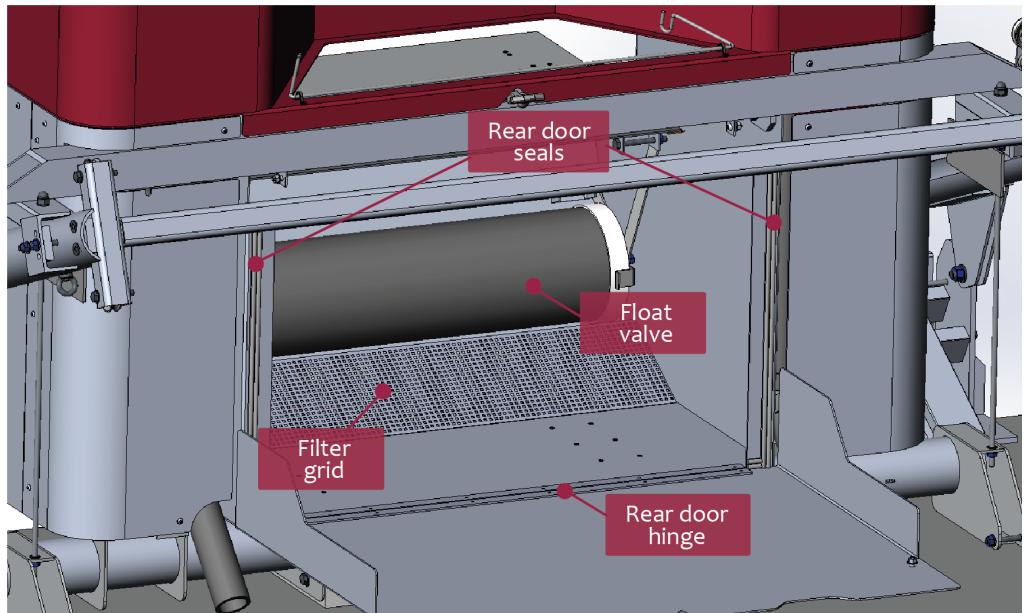
2. Complete inspection of the Collec'Thor

The lifting elements must be visually inspected and the tightness of the fixings must be checked.

The winch, winch fixings, winch cable, pulleys, ball joints, PE rollers, and dock mountings must all be checked. **This complete check must take place at least every 6 months.**

The critical components of the Collec'Thor itself must also be inspected:

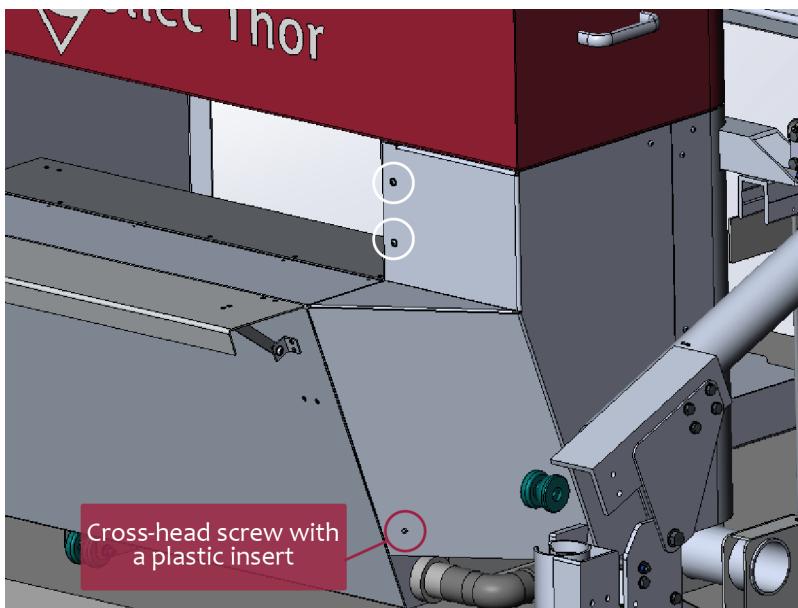
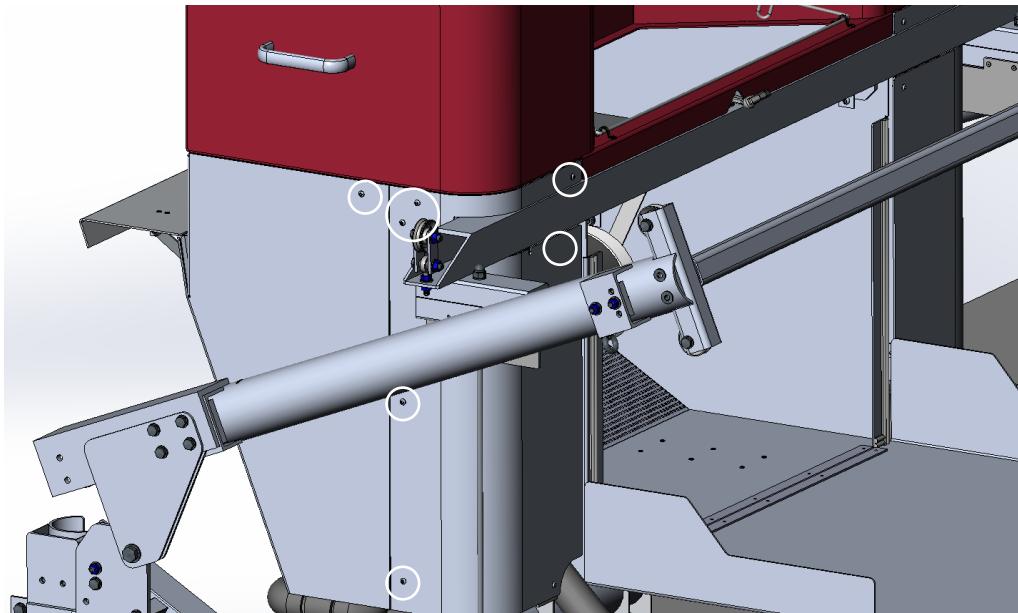
- Visually inspect the flap and rear door hinges: are they worn? Torn?
- Inspect the flap brushes
- Inspect the rear door seals.
- Inspect the flap float: is it damaged? Pierced? Is it filled with water?
- Inspect the filtration grid: is it in good condition? Twisted? Pierced?



3. Accessing, cleaning and changing the pump and anodes

Accessing the pump and anodes:

→ Remove all fixings from the left-hand cover using an Allen wrench and a Phillips screwdriver in order to completely remove the cover.



Pump maintenance

Every 2-3 weeks:

Unscrew the PVC connector below the pump, following the diagram below. Lubricate the pump with a WD40-type lubricant or a special marine lubricant. Clean the interior and exterior components of the pump with clean water.

Once a year:

Change the oil. Refer to the instructions in the pump manual provided with the Collec'Thor

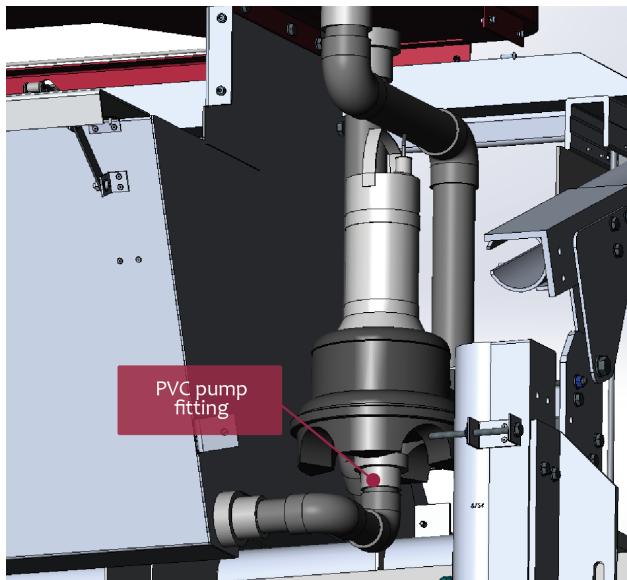
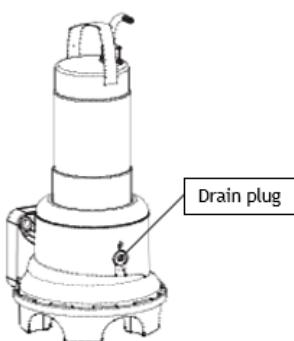
Accessing the anodes:

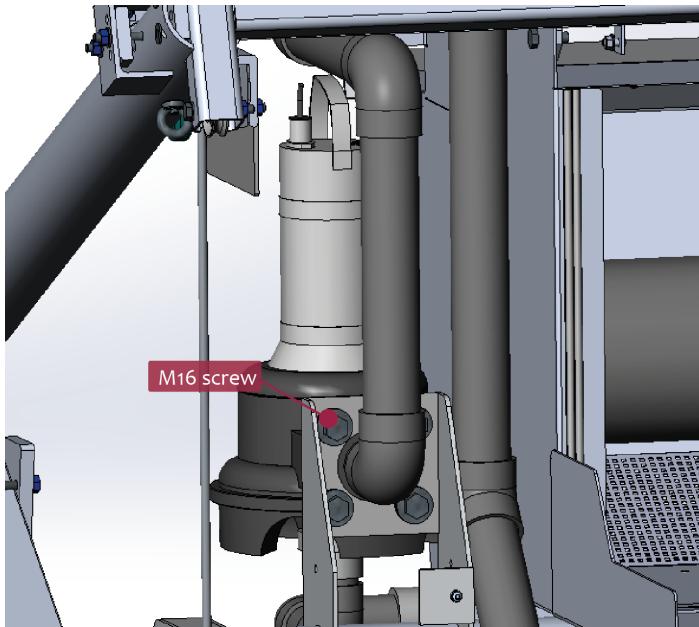
The anodes are attached to the pump mount. Change them if necessary.

Disassembling the pump:

The pump may stop working after many years of service or in the event of extreme conditions of use (extreme salinity, extreme temperatures, etc.) It may therefore need to be changed:

- Completely unscrew the PVC connector just below the pump
- Remove the four M16 fixings holding the pump, taking care as the pump weighs 15 kg/33 lb
- Install the new pump using the four M16 fixings, then reattach the pipework by screwing the connector onto the bottom of the pump.



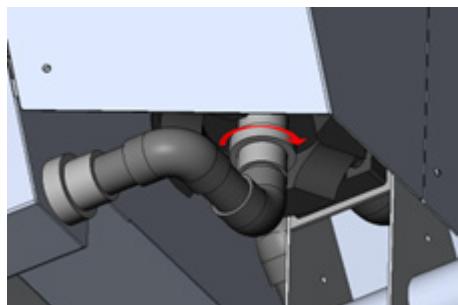
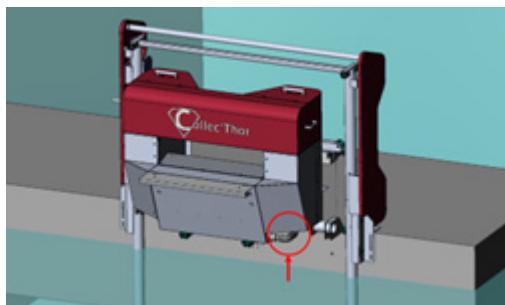


In the event of prolonged shutdown (over a week):

Keep the Collec'Thor **out of the water**

Clean the pump in accordance with the procedure described above.

Lubricate the pump with a WD40-type lubricant or a special marine lubricant.



MAINTENANCE CHECKLIST

WARRANTIES

1. CONTRACTUAL WARRANTY TERMS AND CONDITIONS

1.1. SCOPE

ROTAX provides a contractual warranty for a period of **ONE (1) YEAR** from the delivery date indicated on the delivery note for all manufactured products.

ROTAX guarantees the Customer against any material defects, manufacturing defects, operational defects and installation defects in its own products, whether these defects are hidden or apparent. In the event of an apparent defect, the Customer shall inform ROTAX within 30 days of the date of delivery. Work carried out under the warranty will not result in an extension to the period of this warranty; the warranty expiry date will remain the same.

Under this warranty, ROTAX's sole obligation is to provide at its discretion a replacement free of charge or to repair the product or element identified as faulty by its teams except where so doing is impossible or disproportionate. In any case, liability under this warranty is limited to the price of the product in question and does not extend to immaterial damages.

To benefit from the warranty, all products must first be submitted to ROTAX's after-sales team or one of its approved representatives, whose agreement is required for any replacement to take place following verification of elements including eligibility conditions, installation conditions, site conditions, use conditions and maintenance conditions.

The end customer is responsible for providing to ROTAX a record of maintenance operations carried out on the installation under warranty. The absence of these detailed records or the performance of any modifications or maintenance not approved by ROTAX will void the installation warranty and preclude the customer from making a claim to any kind of compensation.

1.2. EXCLUSIONS

The warranty does not apply in the event of defects that are apparent upon receipt or acceptance and are not reported to ROTAX.

Any damage caused by improper use on the part of the customer and/or actions contrary to ROTAX's recommendations is excluded from the warranty.

Defects and deterioration caused by an external accident or by any modification to the product that was neither foreseen nor specified and/or not authorized by ROTAX are excluded from the warranty.

Delivery costs are borne by the customer.

ROTAX shall cover the cost of spare parts for Level 1 parts, a list of which can be made available to the customer on request.

ROTAX shall cover the cost of spare parts and labor for Level 2 parts, a list of which can be made available to the customer on request.

The warranty does not apply if the customer has defaulted on payment for their order.

ROTAX is released from its warranty obligations set out in these terms for any damage caused by a fortuitous event or by force majeure.

The customer is not entitled to claim compensation of any kind in the event of the product being out of service as a result of the application of the warranty.

The customer is the sole party responsible for its final choice of products.

This warranty covers the equipment invoiced to the original purchaser only, and cannot be transferred, even to any subsequent purchasers of the equipment.

ROTAX is entitled to require the customer to give it access to the harbormaster's official documents and registers prior to the handling of any request under the warranty.

In no case will ROTAX be held liable for damages or incidents, whether direct or indirect, that follow a defect covered by the warranty.

In no case will this warranty be invoked for any defect in installation, sizing or anchoring and its consequences for products where these services were not performed under the responsibility of ROTAX.

2. SPECIFIC WARRANTY CONDITIONS

The performance conditions of this warranty are in accordance with the Warranty Terms and Conditions set out above, unless otherwise stated below.

2.1. SCOPE

ROTAX guarantees COLLECTHOR against any manufacturing defects impacting the product's mechanical properties under normal conditions of use for a period of **ONE (1) YEAR**. The warranty start date is determined in accordance with the Warranty Terms and Conditions.

The reference mechanical properties are:

- The movement of the flap
- The aspiration of nearby waste
- The operation of the mounting system

2.2. EXCLUSIONS

This warranty does not cover COLLECTHOR products that have been subjected to negligence, misuse, modifications to the body, the effects of storms or moving ice, improper installation or support, faulty electrical installation, or an unstable electrical grid.

The ROTAX warranty does not apply to deterioration linked to failure to comply with the recommended uses and eligibility conditions, or to the use of products containing aggressive agents during maintenance and servicing.

Similarly, corrosion linked to failure to comply with the recommended uses or to the use of products containing aggressive agents during maintenance or servicing is not covered by the warranty.

ROTAX is in no way responsible for any deterioration caused by the use of a faulty dock mounting system.

Any deterioration caused by the use of spare parts not supplied by ROTAX and/or the use of fixings other than those of grade A4 – AISI 316L is excluded from the warranty.

ROTAX's warranty does not cover uniform discoloration due to the effects of natural elements or any discoloration due to improper use of the product.

CE CERTIFICATION



EC DECLARATION OF CONFORMITY DECLARATION DE CONFORMITE CE

Manufacturer / Fabricant:

SAS ROTAX : 428 652 531 R.C.S. BOURG-EN-BRESSE

Subsidiary of SAS NOVA NAUTIC

Filiale de la SAS NOVA NAUTIC

511 219 370 R.C.S. Bourg-en-Bresse ,

Rue des Bouleaux, Zone Industrielle, 01460 Port, France

Known under the brand PORALU MARINE

Connue sous le nom PORALU MARINE

Hereby declare that / déclare ci-après que:

The equipment named below has been designed to comply with the relevant sections of the CE directive (2006/42/CE).

La machine décrite en dessous s'accorde avec les normes de la directive des machines CE (2006/42/CE).

Machine description /Description de la machine:

Floating trash collector, composed of an aluminum trash collecting tank, a 220V/110V pump & an aluminum lifting system equipped with a manual winch. The lifting system supports the machine and allows it to be fixed to a pontoon via two brackets. The machine needs to be powered by an electrical supply point.

Collecteur de déchets flottants, composé d'un bac de récupération en aluminium, d'une pompe 220V/110V et d'un système de levage en aluminium équipé d'un treuil manuel. Un système de levage soutient l'ensemble et lui permet d'être fixé sur un ponton via deux brackets. La machine doit être alimentée via une borne électrique.

Machine type /Type de la machine: Collect'Thor V1

Project/Projet : Floating pontoon Collect'Thor - Collect'Thor ponton flottant

EC directive/ Directive CE: CE 2006/42/CE

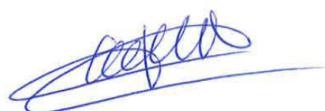
Date:

Fait à PORT (01) le,

09/05/2022

Manufacturer/Fabricant:

Signature:





AFTER-SALES CONTACT

Email: aftersales@searial-cleaners.com

Address:

ROTAX MARINE - ZI LE MARAIS
Rue de l'industrie - 01460 PORT, FRANCE



www.searial-cleaners.com

