

Sailability Sunshine Coast Queensland (SSCQ) Crane P&P 2024

Authorisation for use

The crane is a Fassi Micro M30AFM.13, and is owned and maintained by Paddy Marine and we operate under an approval from them to use it.

Crane Security

The crane controls shall be secured when an authorised operator is not in attendance.

Training

- SSCQ will train and certify operators for the use of the crane.
- Only certified operators are permitted to operate the crane.
- Prior to the first lift of the day the operator will test the crane in accordance with the Required Inspection list.

Required Inspection

- Inspect work area for slip/trip hazards and rectify
- Inspect crane for broken /loose/missing nuts or bolts and retaining pins
- Inspect the control box and hydraulic lines harness for damage
- Inspect hook for damage cracks
- Check operation of crane functions:
 - Arm Up
 - Arm Down
 - Slew Left
 - Slew Right
 - Arm Retract
 - Arm Extend
 - Emergency Stop
- Report any faults before doing lift, and assess in consultation with the OOD whether it is safe to continue. In the event of a major fault we have contingency plans that still allow us to operate, although Sailability One is unlikely to be useable.

Lift Procedures in detail

- **At all times**
 - The load must be directly below the hook.
 - Ensure non-essential people remain clear of the crane and load while in operation.
 - Ensure at least one other person familiar with the crane operation is available to assist with guidance when load cannot be sighted from the operating position.
 - Never extend the load further out than required to clear the pontoon, doing so may overload the crane in some configurations.
 - All crane operations to remain clear of the pontoon access ramp.
 - Preferred launch / lift position is to the south of the crane, with the crane arm square to the pontoon edge. Depending on weather / tide conditions the western side may be used. This will require a competent observer on the pontoon or crane deck who can observe the load, as the crane operator will not be able to sight the lift . Hand signals may need to be used to guide the operator.

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○ Sailability One - Launching

- Use the long steel cables at the rear of the spreader bar. Ensure other attachment points are secured so they do not catch on anything.
- Attach the hooks at front and rear of the boat
- Before lifting ensure the bung is in, the venturi baler secured in the up position and the motor clear ready to operate
- Take up the slack on the load, ensuring that the rear hooks and shackles are straight and not fouled. Ensure that the weight is directly below the hook.
- Lift the boat clear of the dolly.
- Remove dolly clear of the lifting area
- Swing the boat out over the water and lower it down to alongside the pontoon.
- Once the boat is secured to the pontoon lower the spreader bar onto the roof of the boat while the lift points are released.
- When all released raise the spreader bar and return it to the crane deck, clear of all personnel.

○ Sailability One - Recovery

- Use the long steel cables at the rear of the spreader bar. Ensure other attachment points are secured so they do not catch on anything.
- Check pennant is removed from the socket.
- Position the spreader bar over the boat and once aligned correctly lower the bar onto the roof of the boat.
- Have the lifting hooks secured to the lift points front and rear
- Take up the slack on the cables and slings, ensuring that the rear hooks and shackles are straight and not fouled. Ensure that the weight is directly below the hook and that the outboard motor is tilted up.
- Ensure all non-essential people are clear of the lift point.
- Lift the boat straight up when everyone is clear
- Swing the boat over to the crane deck.
- Wash out the motor and drain
- Tilt the motor up and lower the boat onto its dolly
- Release the lifting hooks as required.
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○ Sailability Two - Launching

- Use the shorter red ropes at the rear of the spreader bar. Ensure the steel cables and the keel lift hook are secured so they do not catch on anything.
- Attach the hooks at front and rear of the boat
- Before lifting ensure the bung is in, and the motor clear ready to operate
- Take up the weight, ensuring that the hooks are straight and not fouled. Ensure that the weight is directly below the hook.
- Lift the boat clear ground, remove bow trolley and fold beach wheels on transom.
- Swing the boat out over the water and lower it down to alongside the pontoon.
- Once the boat is secured to the pontoon lower the spreader bar while the lift points are released.
- When all released raise the spreader bar and return it to the crane deck, clear of all personnel.

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○ Sailability Two - Recovery

- Use the shorter red ropes at the rear of the spreader bar. Ensure the steel cables and the keel lift hook are secured so they do not catch on anything.
- Position the spreader bar over the boat and once aligned correctly lower the bar onto the boat.
- Have the lifting hooks secured to the lift points front and on the transom at the rear
- Take up the weight, ensuring that the hooks are straight and not fouled. Ensure that the weight is directly below the hook.
- Ensure all non-essential people are clear of the lift point.
- Lift the boat straight up when everyone is clear
- Swing the boat over to the crane deck.
- Tilt the motor up and lower the boat to just above the deck to allow the rear wheels to be lowered and bow trolley to be attached.
- Release the lifting hooks as required.

○ Hansa 303 dinghies - Launching

- This is usually done via the boat ramp, no crane involvement.

○ Hansa 303 dinghies - Recovery

- Use the shorter red ropes at the rear of the spreader bar and check the keel lift hook is in position. Ensure the steel cables are secured so they do not catch on anything.
- Position the spreader bar over the boat and lower the bar so the hooks can be connected
- Have the pontoon volunteers attach the bow hook first to the ring that the painter is attached to, then the keel lift hook, placed to the aft end of the keel. Once the keel hook is in position take up the weight, ensuring keel is free.
- Have the stern hooks attached to the saddles on the stern of the dinghy.
- Once everyone is clear of the dinghy lift up, then swing over the crane deck
- Lower the dinghy onto the dolly and when positioned correctly and there is no weight on the chain disconnect the lifting hooks.

After Use

- Park crane with arm pointing SOUTH
- Return arm to the fully retracted position
- Lower the arm to folded position – not quite touching the concrete deck.
- Turn off master switch, and press isolate switch in
- Replace aluminium cover, insert locking bar and lock with padlock.

Battery operation

The crane is powered by batteries on permanent charge. These can run down with use but does recover fairly quickly.

- Turn off the hydraulic pump with main power switch **every time crane is NOT required to move** to conserve battery life. Note the emergency isolator does NOT switch off the pump.
- In the event the crane slows down due to power loss turn crane off completely and rest it. 15 minutes or so charging should allow one more lift/recovery.