

Standard Operating Procedure

Skimmer – Rope-Mop



Equipment Description

Trailer mounted rope mop skimmers

Technical Specification (on trailer)

	OM240DP	OM260DP
Length	1720mm	1720mm
Width	830mm	830mm
Weight	400kg	450kg

Health and Safety



To safely operate this equipment 2-4 people are required.

Safe Operating Requirements

- All personnel are to be trained in the use of the Rope Mop, or under the close supervision of a trained operator
- Be aware of pinch points when assembling and using the skimmer. Personnel are not to stand in the bight of the rope mop.
- JSA to be conducted prior to work commencing.
- Ensure adequate PPE is worn – as detailed above. * Life jackets must be worn near water
- A communication plan must be decided upon to ensure clear and concise communication at all times
- All incidents, accidents and near misses must be reported as per AMOSC company policy.

Operational Instructions

Pre use checks

- Ensure that fuel and oil levels are checked on the power pack.
- Visually inspect the Ro-mop for damage or wear.
- Ensure that the clutch lever is disengaged.
- Ensure that the wringer rollers are in the “open” position.
- If used, ensure that all lifting equipment is in test date and in good working condition.

Assembly

- Lay-out a ground sheet between the unit and the water to catch any oil that drips from the returning rope mop.
- Create a bunded area around the unit.
- Position the unit on top of the ground sheet, with the wringer rollers facing the water, approximately 3 metres from the water’s edge.
- As appropriate, securely fasten the unit (and trailer if used) to a fixture so as to ensure stability (e.g. Chain/Ratchet/Ropes/Wheel chocking/Trailer braking)
- Connect the discharge hose to the offloading pump. Ensure the open end of the hose is able to be placed into the waste storage facility.
- Lay out the rope mop and use the instructions listed below to enable it to be threaded into the wringer rollers (also refer to Diagram 1 below)
- Release the pressure on the wringer rollers, moving the pressure release arm down and away from the rollers.
- Standing in front of the machine, pass the mop between the right hand pair of guide rollers and over the top upper rubber roller.
- Pass the mop between the rubber rollers, then back under the bottom rubber roller.
- Bring the mop around behind the two vertical training rollers, then forward between the rubber rollers and out between the left hand pair of guide rollers.

Note - Ensure that there is no slackness in the mop around the internal guidance system.

- Join the rope mop ends together, using a Square or a Reef knot (see Diagram 2 below).
- Assemble the guide pulley and place it into the rope mop
- Affix the anchoring to the pulley, using the anchoring diagram below (Diagram 3 below)

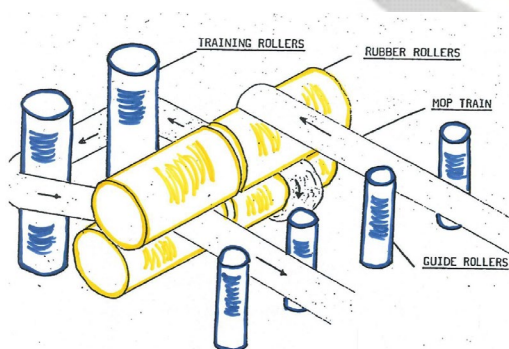


Diagram 1

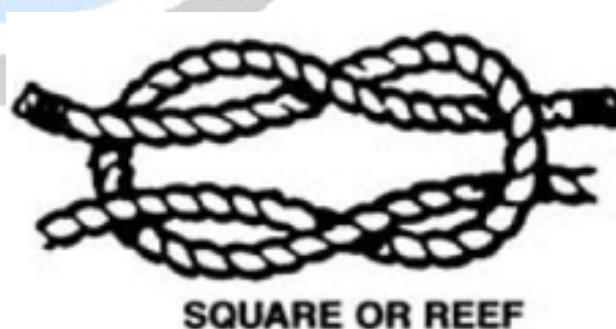


Diagram 2

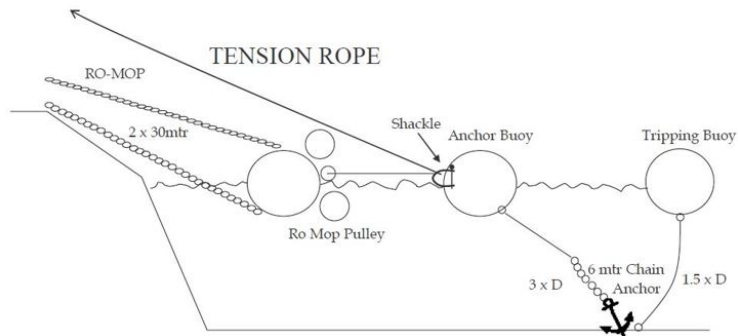


Diagram 3

Deployment

- Using the tow line, tow the mop and pulley into the water using the towing vessel.
- Tow the mop and pulleys to a suitable position and anchor in the desired configuration.

Note – Additional anchors/pulleys may be required to configure the Ro-mop into the desired configuration.

- Tension the mop appropriately.

Start up

- Ensure that the clutch lever is disengaged and that the wringer rollers are released.
- Ensure that the fuel tap is on and that the battery isolating switch is on (if applicable).
- Start the engine by engaging the decompression lever.
- Insert the crank handle and commence rotating it. (Use a key start if applicable)
- Once the engine has started, place the crank handle into its holder.

Operating

- Set the engine RPM to a fast idle.
- Set the wringer roller lever and engage the clutch via the clutch lever.
- Adjust the engine RPM to achieve the desired skimming rate.
- Engage the offloading pump drive as required to remove oil from the collection tank.

Note: If mop tensioning or debris clearance is required, disengage the clutch and stop the engine prior to doing so.

Shut down

- Disengage the offloading pump drive.
- Release the wringer roller levers and disengage the clutch via the clutch lever.
- Bring the engine RPM to a slow idle and shut the engine down. Turn off the fuel tap and the battery isolating switch (if fitted).

Emergency shutdown

In the event that an emergency shutdown is required, the following measures should be taken:

- Shut down power pack immediately where safe to do so, by returning the throttle to the “stop” position.
- Place the clutch lever into the neutral position.
- Release the wringer rollers.
- Communicate according to the designated communications plan.

Retrieval of Mop

- Separate the rope mop ends and pull the rope mop through the wringer rollers.
- Place the mop in a suitable container.
- Weight the anchor using the tagline.
- Once anchors and pulleys are retrieved, the vessel crew proceed towards the shore/marine infrastructure. Once in close proximity, pass the anchors and pulleys to responders on shore/marine infrastructure.

Caution

- If the mop has been contaminated with oil, care must be exercised when retrieving the mop to avoid causing secondary contamination. Ground sheet/sorbent mop/bunded area should be used to mitigate this. If the mop is contaminated with oil, roll it onto a ground sheet and take it to a bunded cleaning station to be washed.

Post operation

- Remove the equipment to a cleaning area. If the equipment is contaminated, a bunded cleaning station will be required.
- Mop out the skimmer's oil receiving tank.
- Clean all the equipment, with the exception of the rope mop (see below for "Post Operation – Contaminated Mop/Non-Contaminated Mop details), with warm soapy water.

Note – If the offloading pump hose has been used to discharge oil it will necessary to clean the inside of the hose.

Note - Maintenance of the mop is to be performed as listed below.

Post operation – Contaminated mop

- Establish a bunded cleaning station.
- Place the mop in the bunded cleaning station and wash with kerosene (mop may be required to be disposed of - if so, use an authorised waste disposal company)

Note – The rope mop should not be cleaned with detergents as these may affect the oleophilic properties of the mop

- Mop is to be dry prior to maintenance inspection, re-stowage and storage

Note - Maintenance of the mop is to be performed as listed below.

Post operation – Uncontaminated mop

- The mop should be laid out and washed with fresh water.
- Mop is to be dry prior to maintenance inspection, re-stowage and storage

Note - Maintenance of the mop is to be performed as listed below.

Additional Information

Maintenance

- All maintenance and repairs are to be completed in accordance with either the manufacturer or AMOSC procedures.
- All equipment must be left in an operational condition when not in use.
- All defects must be repaired immediately or the equipment be "tagged out" for maintenance and repair.

Related Documents:

AMOSC HSSE Plan
PN08 - HSSE Policy
AMOSC JSA Template
AMOSC Deployment Guide – Operations (IMO 1) J-sweep and Rope Mop Deployment
PN 11 AMOSC Vehicle Use Policy (AMOSC Vehicle Checklist / AMOSC Load Assessment Checklist)
SOP 1002 Ops; Loading and Securing of Cargo
SOP 1003 Ops; Transporting Equipment to/from Warehouse
SOP 1004 Ops; Engine Refuelling

