

## *APPENDIX: GYRO FOR INTERNAL DEAD FISH HANDLING*

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### 1. BACKGROUND

For dead fish handling, a gyro made of super duplex steel with a PE «diamond» with an attached dead fish pipe is installed for collecting dead fish at the bottom of the net.



Figure 1: Illustration of gyro with dead fish diamond.

## **2. DESCRIPTION OF EQUIPMENT**

The gyro with internal dead fish handling consists of a gyro made of super duplex steel with a "diamond" in PE (polyethylene) with an upward-facing pipe stub and nipple for air, as shown in Figure 1.

For better dead fish collection, it is beneficial to have PVC tarpaulin in the net within approximately 1.5 meters around the gyro. The gyro is also designed to be able to deliver dead fish down through a hole in the center. If a top-mounted dead fish system is used, the hole at the bottom of the gyro is permanently closed with a plate.

## **3. RISK ASSESSMENT**

The gyro with dead fish diamond is an additional component mounted at the bottom of the net. During mounting, transportation, and installation, there is a risk that the air nipple and top rod may snag on the net and cause holes. To avoid this, the air nipple and top rod are padded during installation. Padding remains in place until the gyro with diamond is fully installed and connected to the flex hose and compressed air in the pen at site.

## **4. INSTALLATION AND USE**

The gyro is sewn into the pointed end of the net during the assembly of the net. To prevent snagging of the net on the air nipple and rod, the nipple and top rod are padded before being installed in the net. The padding remains until the net is installed in the sea.

The net is mounted into the floating collar according to the user manual.

After the net is mounted, but before it is lowered:

1. Remove the padding around the nipple and rod.
2. Connect the flex hose with couplings to the pipe stub, with clamps facing downward to reduce the risk of snagging.
3. Connect the air hose to the nipple.
4. Pad/tape the hose couplings, for example with vulcanizing tape.
5. Ensure all hoses are securely fastened. Anchor the hoses to the gyro.
6. Lower the net.

If the net is lowered before the flex hose and air are connected, the flex hose and compressed air must be installed underwater by a diver. In this case, follow the procedure above up to step 4.

During operation, dead fish are drawn up through the flex hose using compressed air. Monitor the camera during dead fish handling. The system should be usable in all weather conditions.

## **5. INSPECTION/MAINTENANCE**

The diamond and gyro are inspected during net cleaning in sea. Check that all components are securely fastened and appear intact.

During net service, the flex hose and gyro with diamond at the bottom must be disconnected from the net before the service. The flex hose and gyro with diamond are then disinfected inside and outside before dry storage on land. The gyro must be spliced back into the bottom of the net after service, before the net is returned to the site.

Remember to pad the top rod and nipple.

When using disinfectants and other chemicals, it must be ensured that the substances do not damage components of the dead fish system.