

Constant Tension Device “Wave Follower”

Seatrax offers a constant tension device appropriately called a **Wave Follower**. The **Wave Follower** allows an operator to attach large loads in heavy seas by reducing of risk of damage to the crane, load or supply vessel. The **Wave Follower** accomplishes this goal by allowing the **hoist line** to “yo-yo” at a low back tension prior to liftoff from the **supply boat deck**.

Operation

When attempting to lift loads from a supply boat during heavy swells, rotate the console-mounted knob to the **on** position. This will activate the **button switch** on top of the **boom/slew joystick**. With the left thumb, press and hold the **joystick-mounted button**. Lower the **load hook** to the boat and attach the load.

Once the load is secured, run the engine at maximum RPM and pull back fully on the **load joystick**. The load will stay on the boat and the **load hook cable** will strip off of the **hoist drum**, under a low tension, as the boat deck falls. As the boat deck rises and the **hoist line** wants to slacken, the hoist will automatically “reel in” cable until the tension set by the low-pressure relief valve is reached. This “yo-yo” cycle will continue as long as the **button** is depressed.



At the crest of a wave (or at the operator’s discretion), release the button and the load will quickly hoist off the deck. Return the knob to the **off** position after use and continue normal operations.

Components

- Console-mounted ON / OFF switch
- Joystick-mounted actuation button (standard on variable volume hydraulic systems)

The following components are mounted in a unitized **block** that is direct mounted to the **hydraulic drive motor**:

- Two-way, normally closed, spring offset, pilot operated cartridge valve
- Adjustable low pressure relief valve