Seaweed Farming
Load Shackles

Industry: Maritime

Summary

Customer Challenge

Seaweed farming is an emerging practice of cultivating marine algae in coastal or open-water environments. Seaweed is a sustainable crop, used as a renewable resource used in food, cosmetics, biofuels, and bioplastics. A seaweed growth monitoring system is needed for seaweed farming structures.

Interface Solution

Interface's WTSSHK-B Wireless Crosby™ Bow Load Shackle can be submersible and attached to the mooring lines connected to buoys of the seaweed farming lines. As the seaweed grows, the load shackles can record the weight fluctuations of the rope. Results are transmitted wirelessly to the customer's PC through the WTS-BS-4 Wireless Base Station with supplied Log100 software.

Results

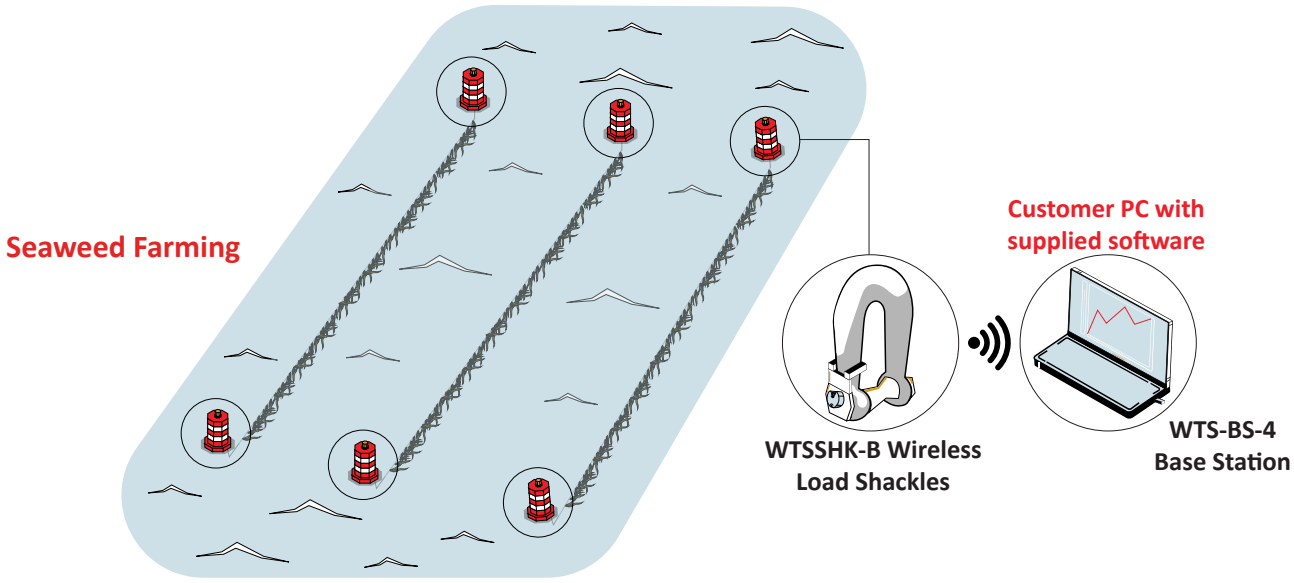
Interace's wireless load shackles with the submersible option successfully monitored the growth of the seaweed on the seaweed farming lines.

Materials

- Multiple WTSSHK-B Wireless Crosby™ Bow Load Shackle with submersible option
- WTS-BS-4 Wireless Base Station with USB Industrial Enclosure with supplied Log100 Software
- Customer PC
- Customer's seaweed farm rings

How It Works

1. WTSSHK-B Wireless Crosby™ Bow Load Shackles are installed to the buoys of the seaweed farming line systems.
2. As seaweed grows on the lines, the shackles measures the weight of it.
3. Data is wirelessly transmitted to the customer's PC through the WTS-BS-4 Wireless Base Station. The data is displayed, graphed, and logged using supplied Log100 software.



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FORCE MEASUREMENT SOLUTIONS

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