CLAIMS

1. A mooring line tension monitoring system comprising:

a winch drum, around which a mooring line is wound;

a band brake including a brake drum that rotates together with the winch drum;

a winding layer number detector that detects the number of winding layers of the mooring line on the winch drum;

a load cell that is incorporated in the band brake and that measures band tension;

control circuitry that calculates tension applied to the mooring line based on the number of winding layers of the mooring line detected by the winding layer number detector and the band tension measured by the load cell; and

a calibrator to check, when a ship is not moored, a relationship between band tension of the band brake and virtual tension of the mooring line at a rated number of winding layers of the mooring line, wherein

the control circuitry:

calculates the tension applied to the mooring line by using a tension calculation formula including a calibration coefficient; and

sets the calibration coefficient based on a result of checking by the calibrator.

2. The mooring line tension monitoring system according to claim 1, wherein

the control circuitry outputs the calculated tension to a display.