

# semi automatic bollard

A38453 | rev1



In order to reduce the number of personnel needed on shore during the mooring operation, the SAB has been designed to operate as a vertical telescopic moving bollard that can be tilted against the ship's hull.

The Semi Automatic Bollard system consists of the following components erected on a rigid steel frame:

- Hydraulically operated vertical telescopic arm including a tilting cylinder and tiltable bollard

- Electric control system
- Hydraulic system
- Control panel.

The bollard is operated by radio control from the winch deck or from the bridge (departure only).



# semi automatic bollard



Bollard tilted towards the ship side for connection of wire loop



Bollard returned to vertical position and winch is tightened. The vessel is now secured



Wire tension is released



Bollard is tilted and wire loop is free to be pulled back on deck. Vessel departs

## Operating procedure

Once the vessel is in position, the bow ramp is lowered and the operator activates the SAB using push-buttons on the radio remote control. The bollard is then tilted towards the ship's hull and the wire loop is hooked on to the bollard. The bollard frame is then tilted automatically back to vertical position. The mooring cable is tightened from the deck winch, which completes the mooring. The

system automatically sustains the cable tension.

To release the mooring, the operator releases the brake on the deck winch, and activates a button on the radio control to tilt the upper bollard which releases the wire loop.

The vessel is now ready for departure.

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