

grip-based auto-mooring

rev2



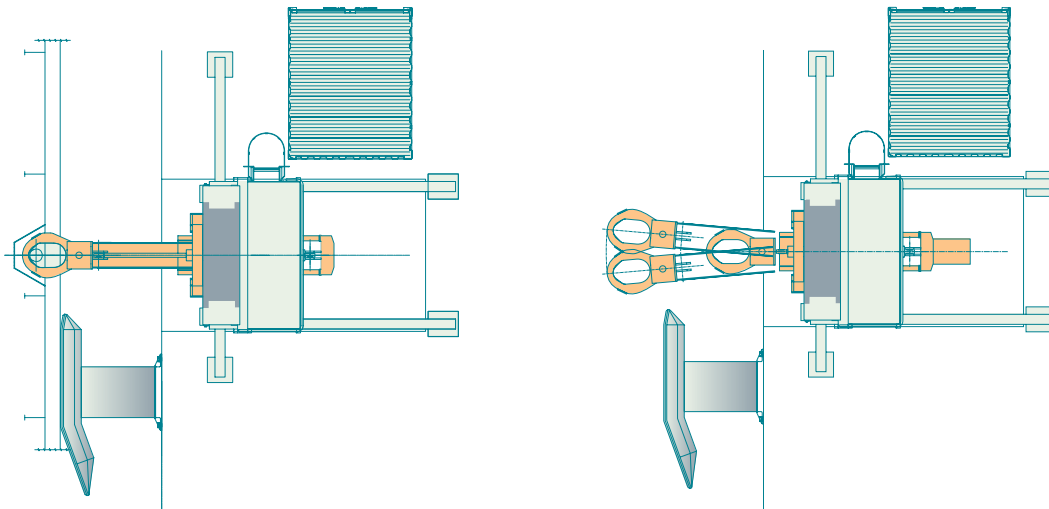
Automatic mooring systems are remotely controlled and require no quay-side personnel. The safety and efficiency of mooring procedures are improved by the system as its performance is monitored and its status reported to operations staff in real-time.

The TTS grip-based auto-mooring system consists of a vertical guiding mechanism, a wagon including an eye and hydraulic cylinders, electric

control system, hydraulic system and control panel. It can be designed with a mooring force to suit varying customer requirements (a typical example is 1000kN).

The system requires a bollard and recess to be fitted onboard the vessel. An operating panel with an alarm function is easily fitted on the bridge of the vessel as the operator will usually be onboard.

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OPERATING PROCEDURE

Once the vessel is in position, the operator activates the mooring procedure by push-button. The wagon travels to its programmed position, and the beam with the eye is pushed towards the recess on the vessel. The wagon then moves downwards over the vessel's built-in bollard, after which the beam is retracted and the mooring force is activated, thus securing the vessel. The wagon will then follow the movement of the vessel. The alarm system is activated at the time of the vessel's securing.

When the vessel is ready to depart, the operator releases the mooring by pushing a button on the control panel. The beam is pushed back towards the recess and the wagon travels upwards to release the bollard. Once the beam has returned to its retracted position, the vessel can depart and the wagon reverts to its parked position.