

# Safe Mooring Equipment

## HAZARD

Mooring operations may serve for serious and fatal accidents if a mooring is parting under the load or if equipment fails due to neglected or inadequate inspection and maintenance.

## FACTS

Forward and aft mooring stations are equipped with winches, rollers, bollards, controllers, guards and platforms, anti-slip surfaces, lights and mooring lines. All of this equipment must be in good design and condition to enable safe mooring operations. Keep in mind the hierarchy of measures: priority is to eliminate hazards at their source. Correct communication, good seamanship, PPE and appropriate skills of all those involved are essential - without proper equipment, however, they cannot guarantee safe mooring operations.



Quelle: BG Verkehr

## CREW

**Care for mooring equipment and lines and support measures to protect those being on scene and those who will follow after signing off.**

**Operate & maintain mooring equipment and lines in accordance with the**

- original design concept & capacity
- instructions of the shipowner (e.g. SMS)

**Report defects on**

- mooring lines & stoppers
- winches, winch brake & their controller
- rollers & other equipment, report oil residues
- illumination & surfaces including anti-skid paint

**Report if stress occurred during operation to**

- mooring lines & stoppers
- winches and their brakes

**Record and share**

- reports above
- maintenance measures & inspection results

**Do not**

- hide information on defects, incidents & impacts
- operate damaged equipment or lines

**Take the opportunity to**

- discuss hazards, incidents & protection measures in the course of the safety committee meeting

## SHIPOWNER:

**Consider the recommendations and guidance for maintenance and inspections of mooring equipment provided by the IMO MSC.1/Circ.1620.**

**Safe use of mooring equipment and fittings**

- procedures for mooring operations, inspection and maintenance of mooring equipment & lines

**Control of mooring lines**

- mooring lines are controlled & identified to facilitate inspection, maintenance, incident reports - link the lines to the relevant records and manufacturer's certificates

**Inspection and maintenance of mooring lines**

- periodical inspection is subject to the maintenance plan and refers to maker's instructions & visual inspection
- replacement of in-service mooring lines & rotation of the lines are addressed
- criteria for condemning worn-out mooring lines are available and based on maker's & industrial guidelines

**Equipment and fittings**

- properly inspected, maintained & marked as per maintenance plan, manufacturer's recommendations, available guidelines

**Selection of replacement mooring lines**

- measures described to ensure compatibility

**Updating of ship documents and record-keeping**

- inspection & maintenance, controlled certificates