

A Docking Aid System (DAS) is a tool for use by jetty operators and Marine Pilots during vessel docking.

Harbour Marine's SmartDock® DAS provides real time data of the vessel's distance and speed of approach relative to the jetty, in the critical 0 to 300 meters zone. With this data, the Pilot and vessel's Master can better direct tug and shipboard personnel in safely maneuvering the vessel towards the jetty and therefore minimize any potential for damage to the berth or ship.

SmartDock® uses laser sensors to measure distance, as these are the most reliable technology available for vessel docking. They operate effectively in poor visibility and heavy rain and are eye-safe to FDA Class 1, the safest standard.

The basic SmartDock® system comprises:

- Two jetty mounted laser sensors
- Jetty Controller/Interface Unit
- Computer workstation to monitor, display and record information at the control room

Typical display options include:

- Handheld monitors
- Large jetty mounted display board, visible from the vessel's bridge to display speed of approach, distance from jetty and optional angle



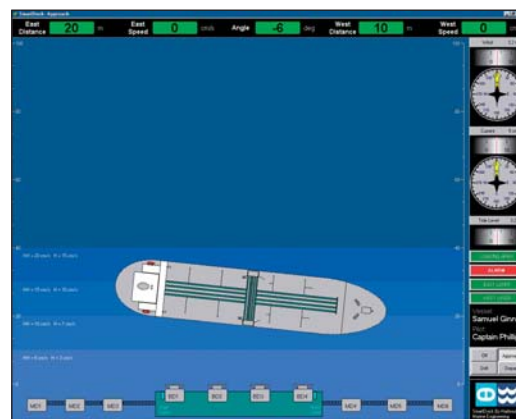
Laser sensor

Other display options include:

- Speed of approach warning indication lights as alternative to large display board
- Jetty remote indicator for display of docking information locally on the dock

Vessel drift-warning monitoring

Following mooring of the vessel, the docking system can be switched to drift-warning mode. Should the vessel drift from the fenders over a pre-set distance, appropriate alarms will be raised to notify both jetty and vessel based personnel. On oil/gas berths this offers added protection of loading arms.



SmartDock® DAS Screen

SmartDock® DAS Screen

Docking speed, distance and angle is captured and may be displayed to the jetty operator on a central PC screen in the control room. The data may also be displayed to the Pilot or vessel's Master over telemetry on handheld monitors or a carry-on board laptop PC. Docking information is continuously recorded allowing 'hard docking' events to be analysed should jetty, fenders or the vessel sustain damage.

Request a copy of the SmartDock® DAS CD for more information.