

# submerged tank linkspan



The submerged tank linkspan was invented in 1968 and, since then, over 50 have been installed. The submerged tank itself acts as a counterweight to support the weight of the outer end of the bridge that spans from vehicle ferry to quay. But unlike a conventional counterweight system it requires no supporting civil works and has no wires or mechanism to maintain.

The outer end of the linkspan must be attached to the ferry which is usually done by resting it on a ledge at the vessel's vehicle deck threshold at either bow or stern. This type of linkspan is mainly used for ferries on fixed routes such as inter-island and railway routes and those across estuaries and fjords. The linkspan follows the movements of the vessel caused by waves, swell or the transit of vehicles, making this type ideal for small vessels, exposed berths and train ferries.

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Submerged tank linkspans can be designed either with upper decks or in a skewed configuration. These linkspan types are used in conjunction with a pinned or climbing support, thus rendering a safe solution for all types of ferry.

