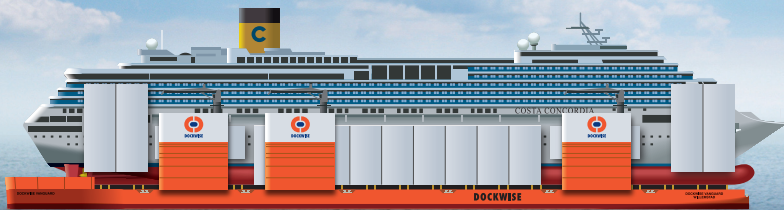


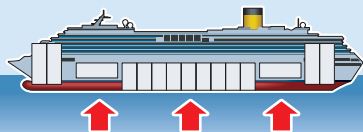
Giant salvage vessel to lift Costa Concordia

The world's largest semi-submersible ship – the Dockwise Vanguard – could be used to remove the wreck of the Costa Concordia cruise liner from the Italian island of Giglio, where it capsized in 2012



REMOVAL OPERATION

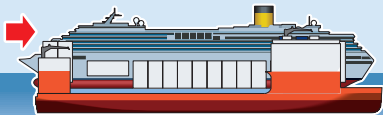
1 Wreck of Costa Concordia re-floated using air-filled caissons (metal boxes) attached to sides



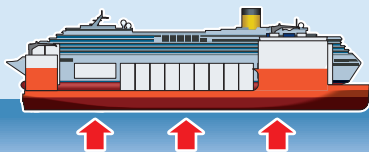
2 Dockwise Vanguard moved in line with wreck. Ballast tanks flooded to submerge deck below surface of water



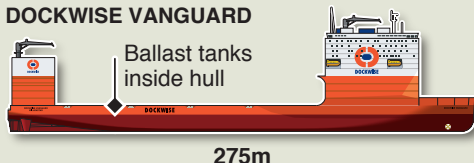
3 Tugs bring floating Concordia into position above deck of submerged salvage ship



4 Vanguard's ballast tanks emptied. Concordia lifted above water line



DOCKWISE VANGUARD



Ballast tanks inside hull

Accommodation: 40 crew



Water depth above main deck: 16m

70m

Buoyancy casings
Move to accommodate different cargo

Propulsion: Four diesel engines, twin propellers, twin azimuth thrusters.
Total power: **27MW**
Max speed: **14.5 knots**