CHANNEL DREDGING

Maintenance of navigation channels in rivers and ports is critical to commerce around the globe. The Versi-Dredge can open navigation channels with ease. The IMS Depth Master can maintain deeper channels from 12m to 18m depth. The dredge can be hooked up to a standard pipeline and pump the material to a dewatering site on shore or the IMS Bi-Directional Broadcaster attachment can be fitted to the discharge and the sediment can be sprayed out of the channel and back into the natural current if local authorities permit this. The Versi-Dredge and Depth Master are cost effective solutions for maintaining navigation channels at ports. Both product lines are self-propelled and highly transportable. The maximum 305mm discharge line makes the discharge manageable when dewatering space is limited. The optional GPS system allows the operator to maneuver the dredge cutter into the existing channel design and take out no more than is necessary to fulfill the maintenance contract. The cuts can be tracked against the pre-dredging survey to show the client that the contract has been completed within scope.

The IMS JetMaster technology allows the operator to turn the hydraulic pump off on the dredge and use 250 psi (17.2 bar) water jets to put silt into suspension and let the natural current take the material away also commonly known as “water injection dredging.” This feature requires no discharge line and is becoming more common in ports around the globe.

Case Studies

• The U.S. Army Corps of Engineers Dredges Marina Del Rey Harbor

• Malaysian Marina Opt for Cost-Effective Dredge Option

• Gloucester’s Canal Dredging – Great Results (UK)

• Burnt-Out Marina Channels Opened with Portable Dredge
Malaysia: A Model 7012 HP Versi-Dredge positions itself in a boating channel in Danga Bay where it is about to deepen a navigation channel for safe passage by the marina's clientele.

Trinidad: A Model 5012 LP Versi-Dredge uses the Broadcaster discharge attachment to perform navigation channel maintenance dredging at Port of Spain, Trinidad.

United Kingdom: A Model 5012 HP Versi-Dredge desilts the River Thames.

UK: A Model 5012 HP Versi-Dredge performs maintenance on Gloucester Dock's marina channels for the annual “Tall Ships Festival.”
USA: A Model 5012 LP Versi-Dredge uses the IMS Broadcaster Attachment to clear a boating channel at a marina in Illinois. Note the nearby leisure craft which is safe to pass since there are no swing wires due to IMS's patented Starwheel Drive self-propulsion system.

USA: A Model 7012 HP Versi-Dredge works on a US Army Corps of Engineers dredging project at the world famous Marina Del Rey in California.

USA: ABB Industrial performs channel maintenance dredging near the Gulf of Mexico in Hackberry, LA. The dredge was able to track the maintenance dredging progress on its GPS system which was compared to the client's survey boat in the foreground.
Videos

- USA Channel Dredging: https://www.youtube.com/watch?v=UMA9YB_tT5s
- Malaysia Channel Dredging: https://www.youtube.com/watch?v=rZHdf2BaeRM
- Philippines Channel Dredging: https://www.youtube.com/watch?v=hDiuLEEDEZk
- Canada Channel Dredging: https://www.youtube.com/watch?v=6L6dK6GnsOo