CANAL DREDGING

Canals are vital for drainage, navigation, irrigation, and power projects around the globe. The Versi-Dredge has been deployed around the globe to handle various canal projects in India, Thailand, Iraq, China, Trinidad, Indonesia, Malaysia, Angola, and more.

The Versi-Dredge removes sediment from canals in controlled layers that allow the canal to be restored to its original even bottom profile. The Versi-Dredge’s SolidsMaster horizontal cutterhead creates a level cut unlike basket type cutterheads which creates overlapping cuts with ridges or mechanical dredges which create an uneven moonscape on the bottom of the canal. The forward motion of the Versi-Dredge allows the sediment to be removed in parallel layers in long passes. This is a much better solution vs. basket type cutters which require a constant re-setting of anchors and swing wires due to the canals narrow design. The Versi-Dredge therefore is much more user friendly and more efficient in a canal dredging setting. The Versi-Dredge requires only one operator and does not require tender boats or additional personnel to reset anchors and swing wires therefore reducing fuel and labor costs significantly. The Veris-Dredge is also one truck transportable and does not require any spuds, side tanks, or other equipment to be put into operation. Once it is in the canal, it is ready to hook up to the discharge line and pump.

The Versi-Dredge can remove build ups of sediment in canals that block drainage and contribute to flash flooding during heavy rain events. It is also ideal for cleaning and maintaining existing navigation canals. The Versi-Dredge is recognized globally for being the best solution for irrigation canal dredging due to its ability to remove sediments and vegetation. The IMS patented WeedMaster Cutterhead can be used in place of the standard SolidsMaster to remove hyacinths and densely rooted vegetation in canals. This will help restore full water flow to the canal system and adjoining irrigation ditches.

In some cases, the Versi-Dredge can be outfitted with the IMS Bi-Directional Broadcaster in place of the standard discharge pipeline. The Broadcaster allows the pumped slurry to be sprayed in a
controlled arc to the shoreline. The sediment stays on the canal bank and the water flows back into the canal. This method has proven to be beneficial to wetlands in the United States for projects with the US Army Corp of Engineers and US Parks and Wildlife.

The Versi-Dredge’s SolidsMaster Cutterhead achieves up to 25% solids consistently when dredging in canals. Swing dredges will cut up to 20% during the initial swing, but on the return swing will pump much lower solids. The Versi-Dredge is therefore using less water to remove sediments from the canal.

In some cases a canal might have a cement bottom liner. This is not a problem. The Versi-Dredge’s horizontal cutterhead can be easily outfitted with adjustable gauge wheels to prevent the cutterhead from ever touching the liner. In addition the Starwheels can be operated on the top surface in Paddle Wheel mode or on the bottom surface if the wheel tips are fitted with rubber boots to protect the concrete liner. Lined or unlined IMS has the solution.

Case Studies

- Angola – WACU KUNGO
- Cape Coral Dredging About to Begin
- BPUB Announces Resaca Restoration Update (USA)
- Gloucester’s Canal Dredging – Great Results (UK)
- US National Park Touts Success of IMS Versi-Dredge® in Restoring Canoe Trail
- IMS 7012 HP Versi-Dredge® De-Silts Buckingham Canal In India
Angola: A Model 5012 LP Versi-Dredge removes decades of silt and vegetation from irrigation canals. The dredge improved water flow so much that roads which had been flooded for decades were now driveable.

India: A contractor uses an IMS Model 7012 HP Versi-Dredge to de-silt the South Buckingham Canal in Chennai, India.

Indonesia: The largest shrimp producer in Indonesia uses two IMS Versi-Dredge systems to de-silt shrimp farm canals. The self-propelled Versi-Dredges replaced several older basket cutter dredges with swing wires that were difficult to operate in the

Iraq: A contractor uses a Model 5012 LP Versi-Dredge to de-silt an irrigation canal in Iraq.
canals due to constant anchor re-setting and manual re-positioning.

Norway: A Model 7012 HP Versi-Dredge owned by SeaBed Services creates a new canal for a bird sanctuary construction project.

Panama: A Model 5012 LP Versi-Dredge de-silts an irrigation canal in Panama.

USA: A Model 5012 HP Versi-Dredge de-silts a canal at a US Steel Plant.

USA: Mitchell Marine uses their Model 5012 HP Versi-Dredge to remove silt and vegetation from canoe paths at a US National Park in Louisiana.
Videos

- USA Canal Dredging: https://www.youtube.com/watch?v=8y-gCavuaeQ
- Trinidad Canal Dredging: https://www.youtube.com/watch?v=G6u_Fp-8elg
- Trinidad Canal Dredging (Part 2): https://www.youtube.com/watch?v=xkccwoIEwwA
- USA Canal Dredging: https://www.youtube.com/watch?v=b9WhTmkvfY4
- USA Canal Dredging: https://www.youtube.com/watch?v=tjiEb_t8Xuo