

CCB-110 EXCAVATION SYSTEM



- Powerful
- Reliable
- Adaptable

SEA BED SYSTEMS LTD



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CCB-110 EXCAVATOR

The unique CCB 110 Dredge is capable of excavating in multiple soil types.

CCB employs a non-contact form of excavation known as "Mass Flow Excavation".

Either a single or multiple propeller(s) create an extremely large volume of high velocity relatively low pressure water that is projected toward the sea bed which rapidly fluidises the targeted area.

Deployment is via Boom (crane) for very shallow excavation areas demanding precise control. Deeper water worksites can be serviced by utilising a standard clump weight system.

The excavator consists of a propeller body capable of housing single or multiple propeller configurations with variable flow and pressure output via means of motive power adjustments, tool stand off and uniquely a vectoring nozzle.

Employing the unique nozzle manipulation system allows for a complete range of velocities and flows with varying exit patterns being available to suit most soil conditions and tasks at the touch of a button.



High flow open nozzle mode allows for excavating granular free flowing soils.

High speed restricted nozzle mode enables a higher water speed and the excavation of more consolidated soil types.

Excavating Non-Cohesive Soils,

In the blowing mode a high flow of water (7 m³/s) with a velocity of 7 m/s can be generated.

(Depending on propeller configuration)

Production rates between 500 to 1000 m³/hour can be achieved.

Excavating Combined Soils

As both propeller speed and nozzle shape and size are adjustable an optimum output can be established at the work site for excavating combined soils.

The adjustments can be made real time as required.

Excavating Cohesive Soils

The production rate in soft clay is between 200 to 1000 m³/hour.



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Application

- .Seabed Levelling
- .Artefact/Ordinance recovery
- .Structure Cleaning
- .Structure De-burial / Burial
- .Scour Protection Removal
- .Rock Dump Removal
- .Scour Backfill
- .Harbour and Dockyard works

Weights & Dimensions

Weight 1,500 kg
1,700 wide x 1,400 deep x 1,820 high

Survey equipment options

- Profiling Sonar
- Pitch and Roll Gyro
- Depth and heading indicator
- Obstacle avoidance sonar
- Low light colour camera
- Low light camera
- 500 W of variable lighting

Surface Equipment

Comprising

- Operator control/feedback units
- Hydraulic power-pack.
- Electro-hydraulic interface umbilical
- Survey and data acquisition/recording systems.
- Video, Video Cd or DVD Recording.

Optional Equipment

- Inspection ROV System utilising common Crew (Excluding Supervisor) and operating area.
- 10' or 15' control cabin.
- Umbilical spooling and storage system.

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