



Dragamex S.A. de C.V.

Cutter Suction Dredger (CSD)

General dredge plant information

Introduction

The Cutter Suction Dredger (CSD) is a stationary dredger equipped with a rotating cutterhead and centrifugal pumps. The dredging process consists of cutting away the underwater soil with the cutterhead and pumping up the mixture of soil and water by pumps.

Main parts CSD

- In principle the main parts of the dredger are:
- the hull, containing the engines, pump(s), the crew quarters, the bridge with the dredge control etc.;
 - The cutter ladder, containing the cutterhead (which cuts the soil), cutter shafts, gearbox, suction pipe and underwater pump;
 - the discharge system of discharge pipes and pump(s);
 - the spud poles and spud carrier which provide the forward movement;
 - the anchors and side winches which provide the sideward movement.

Working method

To start dredging operations, the CSD will sail or be towed to the location to be excavated. The CSD will position its main spud in the soil. The side anchors are placed outside the dredging cut by means of the dredger's anchor booms, or this is done by dredging assistance workboats.

During the dredging activities, the CSD swings around the main spud with the help of its side winches. The forward movement is provided by the spud carrier. Depending on the size of the CSD, it can over a cut of about 5 to 120 m. Wide. The operation of the CSD consists of cutting the soil with the cutterhead and pumping the mixture of water and soil by means of the suction and discharge pumps.

The water soil mixture can be pumped:

- Ashore** in combination with floating and land pipelines (the most common technique).
- Into the water.** This side casting system is mostly executed in combination with floating pipelines and a spreader pontoon.
- Into barges.** The spoil is discharged via a barge loading installation into the barges next to the CSD.

CSD with anchor booms

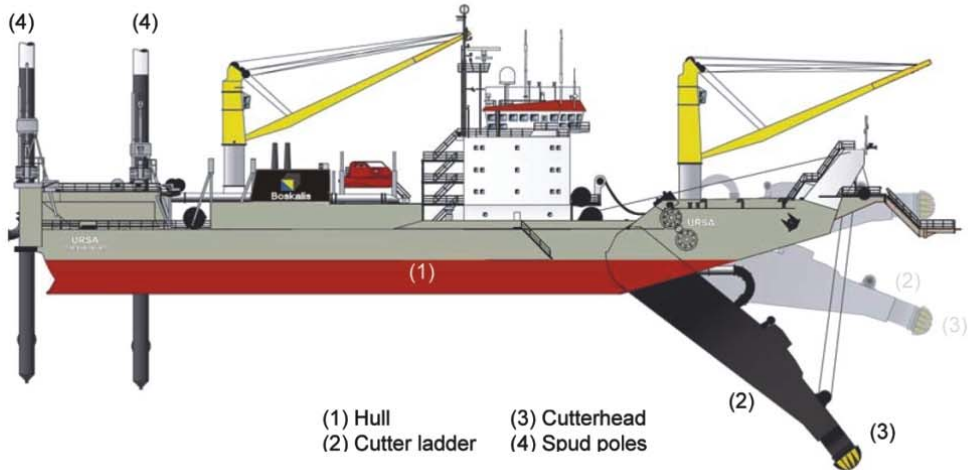


CSD with pumping ashore



Cutterhead

CDS Ursa



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