



Dragamex S.A. de C.V.

# Trailing Suction Hopper Dredger (TSHD)

General dredge plant information

## Introduction

A trailing Suction Hopper Dredger (TSHD) is a sea going self-propelled vessel with one or two suction pipes, designed to trail along the side of the vessel. At the lower end of the suction pipe a draghead is fixed. Suction is provided by a pump, which discharges the mixture of soil and water in the hopper. Discharge takes place either by dumping or pumping out.

## Main parts TSHD

In principle the main parts of the TSHD are: the hull, containing the engines, propulsion, pump(s), the crew quarters, the bridge with the navigation & dredge control, etc.;

The hopper in which the mixture of soil and water is pumped, the soil settles and from which the water is discharged through an overflow system;

- the suction pipe through which the mixture is transported to the pump;
- the draghead, connected at the end of the suction pipe, which disintegrates the soil usually with the aid of a water jet system.

## Working method

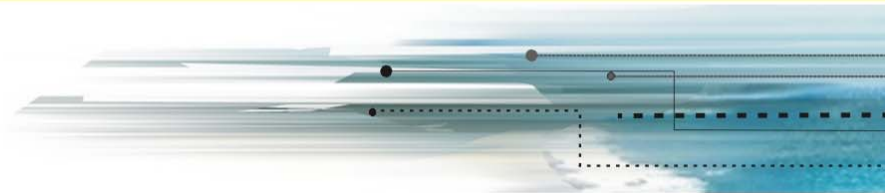
To start the dredging operations, the TSHD sails to the trench or area to be excavated. Once at location, the TSHD lowers the draghead to the bottom and dredging can commence.

The dredge pump, installed inside the dredge and/or on the suction pipe, takes up a mixture of water and soil through the draghead and suction pipe and pumps the mixture into the hopper.

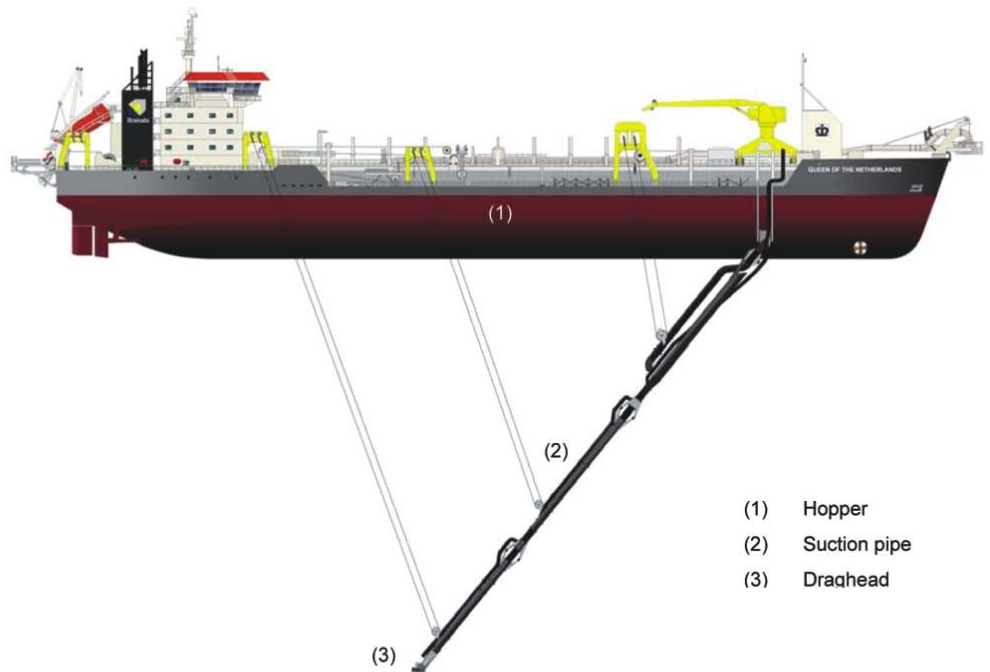
TSHD Aerial view Freeway



Rainbowing



TSHD Queen of the Netherlands



- (1) Hopper
- (2) Suction pipe
- (3) Draghead

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