

# Drilling Mud Zero Discharge Treatment



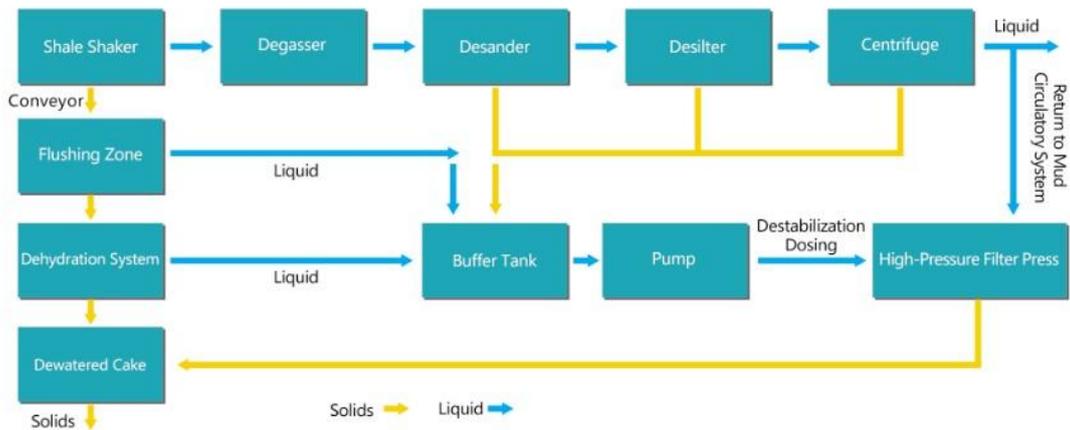
Drilling mud from different stages goes through solid-liquid separation, stable solidification and liquid recycle through chemical and physical methods. The system is highly integrated with skids units which could be modularized and composited for different needs.

## Introduction

Drilling mud is produced in reservoir exploration and development. The waste mud consists of a large quantity of hydrocarbons, heavy metals, minerals and macromolecule organic compounds, which are a potential damage to the surrounding soil. Currently, two methods are commonly used in mud treatment, but none of them are perfect. The solidification and landfill cannot treat the mud completely and such method may take up arable land. The other way of construction of treatment plants may give rise to much cost in transportation and secondary pollution. Alternatively, Haimo ESG has developed a new mud control technique and treat equipment, resulting no contact between soil and waste mud, which has been applied to most of the major fields in China.



## Process



The large grains from Shale Shaker produces solids and liquid mud after flushing and dehydration. This liquid in addition with other liquid from the Desander, Desilter and the Centrifuge undergo Destabilization dosing, and separate through the filter press. The resultant liquid returns to the Mud Circulatory System, where the solids are treated safely together.

## Specifications

Treated liquid:	
pH	7.0-8.5
Mud Density	$\leq 1.08\text{g/cm}^3$
Sand Concentration	$\leq 0.15\%$
Funnel Viscosity	$\leq 25\text{s}$
Treated Solids(Extract)	
pH	6~9
CODcr	$\leq 100$
Heavy Metal	Qualified
Hydrocarbon	$\leq 10$

## Features

- Treatment is conducted while drilling. Ensures no damage to the surrounding soil



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- Flexible treatment methods. Different unit combinations can be applied according to specific well site, drilling stage and mud system.
  - Good treatment results. Stable solidified products can be used for site substructure and roadbed construction, whereas the liquid could be used to prepare drilling mud.
  - Skid mounted. Standard size, easy transportation and fast installation.

### Drilling Mud Zero Discharge Treatment

<http://www.haimotech.com/Products-and-Services/Environmental-Protection/Drilling-Mud-Zero-Discharge-Treatment.html>

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