

Double-deck screening machine GEO II

T24 - 4098



Description

The GEO II is a mobile, powerful double-decker vibration screening machine designed especially for dewatering of drilling fluids and for separating solids from liquids in horizontal and vertical drilling operations.

The innovative screening technology combined with a high acceleration force of the vibration screening system creates a recycling concept which also achieves separation of the critical fines and at the same time ensures constant drilling water properties.

With a total weight of 2300kg, the lightweight but still powerful GEO II is suitable for continuous separation of particle fractions of down to 45µm and therefore guarantees a minimum sand content of less than 1 percent. The modular design of the GEO II enables the extension by additional components (e.g. with a hydrocyclone stage).

The practical hammer wedge attachment system permits fast replacement of the panel screens. Depending on the particle size and drilling water properties at the drilling site, the screening machine can be quickly and flexibly equipped with various screens with mesh widths of 0.045 to 5 mm. This

ensures an optimum separation and dewatering performance at all times, so that the treated water can be either returned to the drilling process or drained

Characteristics

- The dimensions and the low weight allow a practical handling of the machine at the drilling site and the installation on conventional skips.
- The double-deck vibration screening machine can be easily and flexibly equipped with standard panel and hook-strip screens depending on the drilling fluid and the slurry properties. The screens are available with mesh sizes from 5mm down to 45µm.
- The angle of the screening machine can be adapted to the drilling fluid conditions and the solids concentrations, and even adjusted during operation.
- The wear protected feed box guarantees durability and a smooth feeding of the screen deck with drilling fluid.

Technical specification

Flow rate (max.) ¹ :	80m ³ /h
Vibration motors	
➤ Number of vibration motors:	2 pcs
➤ Installed power:	2 x 2.5 kW
➤ Voltage:	400 V / 50 Hz
Hook strip screen (upper deck)	
➤ Number of screens:	1 pc
➤ Screen area:	1.45m ²
Panel screens (lower deck)	
➤ Number of screens:	3 pcs
➤ Screen area (total):	2.4m ²
Adjustable deck angle:	-4° to +4°
Acceleration force (max.):	approx. 5.9 G
Total screening area:	3.85m ²
Transport dimensions	
Length:	2660mm
Width:	1790mm
Height:	1750mm
Weight:	2287kg

¹ The capacity of the GEO II is subject to the viscosity and density of slurry, solids loading, grain size distribution, screen selection, and properties along with operating conditions, and might be actually lower than specified.