

● S-4 VFD Centrifuge

The Scomi Oiltools S-4 Variable Frequency Drive (VFD) Centrifuge provides the oil & gas industry with one of the most advanced designs of high volume decanting centrifuges. This design is the result of over fifty one years of experience gained in the drilling, mining and chemical industries.

FEATURES

- High Volume Processing – The S-4 VFD centrifuge is able to process up to 1200 LPM.
- Flexibility – Can be tailored to operate in weighted and unweighted applications from 1200 RPM to 2200 RPM with feed rates up to 1200 LPM.
- ‘Soft Start’ Variable Speed Drive – enables low amperage start-ups and smoother RPM changes to minimise amp drain in the motor.
- Precision Balanced Bowls and Conveyors – Bowls and Conveyors are factory balanced to provide smoother vibration-free operation and longer in-service life. Balanced to ISO 1940 G 6.3.
- Weather Resistant Control Panel – Control panel is enclosed in a sturdy weather resistant steel box. Control panels include touch screen with Start-Stop, dials to set RPM and digital gauges to display rpm and amps.

The S-4 VFD Centrifuge is specifically designed for the use in drilling applications of the oil & gas industry for solids control. The S-4 VFD Centrifuge provides high processing capacity with the simplest operation for greater flexibility in drilled solids removal, barite recovery and system dewatering. In a drilling environment the S-4 VFD Centrifuge can be used on both unweighted and weighted drilling fluid systems to achieve optimum removal of undesired solids while retaining the valuable liquids and / or solids. In a weighted drilling fluid application, it can be used to great effect to control both viscosity and to salvage weight material.

CONCEPT

The S-4 VFD Centrifuge incorporates several new concepts which help to improve performance. The VFD consists of a Motor control panel. The panel contains the VFD systems for the bowl, scroll and feed pump motors. The state of the art Touch Screen Technology allows the independent drives infinite and instantly variable control of the bowl, scroll and feed of the S-4 VFD Centrifuge.

These features, together with a continuous program of research and development to improve on existing designs and develop new ideas, make the S-4 VFD Centrifuge one of the most advanced available to the drilling industry today.

APPLICATION

The Scomi Oiltools S-4 VFD Centrifuge can be used in many different applications to process drilling fluid:

- Drilled Solids removal
- Process fluid from the underflow of cuttings drying equipment
- Low speed barite recovery
- Dewatering
- Control drilling fluid rheological properties



SPECIFICATIONS

General

Bowl Length	1828 mm (70 in)
Bowl Diameter	635 mm (20 in)

Dimensions

Length	2972 mm (117 in)
Width	1778 mm (70 in)
Height	1499 mm (59 in)
Height (Lid Open)	2210 mm (87 in)
Weight	4763 kg (10,500 lb)

Electrical Requirements

Main Drive

Voltage	460 V
Phase	3 Phase
Frequency	60 Hz
Power Required	44 kW (60 HP)

Back Drive

Voltage	460 V
Phase	3 Phase
Frequency	60 Hz
Power Required	15 kW (20 HP)

Pump Drive

Voltage	460 V
Phase	3 Phases
Frequency	60 Hz
Power Required	15 kW (20 HP)

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