

## SCM-CF2564 VFD DECANTER CENTRIFUGE



Scomi Equipment Inc offers a comprehensive range of Solids Control equipment for oilfield applications. The Scomi Equipment Inc line of high performance centrifuges are specifically designed and engineered to efficiently and reliably separate solids from drilling mud.

The SCM-CF2564 VFD is precision engineered to create high G forces to separate fine solids from oilfield drilling muds and industrial fluids handling applications.

### PERFORMANCE

The SCM-CF2564 VFD bowl and conveyor speed is infinitely adjustable up to 3000 rpm generating 3195 g's Force providing improved solids removal and reduced drilling fluids costs.

### PRECISION ENGINEERING

The advanced design and precision balancing of the bowl and conveyor allow for smooth operation for extended periods of time which increases the solids removal performance of the centrifuge. Carbon steel bowl and conveyor with tungsten carbide scroll tiles and hardened steel solids discharge ports increase wear protection providing long service life and low maintenance costs.

### FEATURES & BENEFITS

- Carbon steel rotating assembly
- Hard surfaced solids discharge ports and replaceable plows to increase service life
- Tungsten carbide scroll inserts for reduced maintenance costs and improved solids conveyance
- Rugged construction and oilfield skid for the toughest environments
- Vibration limit switches for increased safety
- Adjustable effluent ports for increased solids removal performance
- Variable frequency bowl and conveyor drives designed for infinite speed configurations
- Runs efficiently at high speeds for long periods of time creating efficient solids separation
- Ideal for processing un-weighted or weighted drilling fluids
- Effective for high speed low gravity solids separation or for low speed high gravity solids recovery
- Torque overload protection shuts down feed pump to reduce packing off

**FEATURES**

Hand wheel assist to open rotating assembly cover which eliminates heavy lifts and stops rotating assembly cover from falling.



K-100 Planetary gearbox with a 76:1 ratio providing 100,000 in lbs torque. 40 hp back drive motor

Six adjustable effluent discharge ports capable of changing pool depth setting 0" to 4"



**CONTROL PANEL**

Class 1, Div 1 pressurized control panel with PLC controlled VFD bowl, back and feed pump drive. A graphic HMI to control and display centrifuge status, bowl rpm, conveyor differential RPM, conveyor and bowl torque loading, feed rate and alarm status.



**SPECIFICATIONS**

General	
Centrifuge Model	SCM-CF2564 VFD
Maximum Speed	3000 rpm
Maximum G force	3195 g's
Maximum Flow	550 gpm @ 9.8 ppg
Bowl Diameter	25"
Bowl Length	64"
Bowl Material	Carbon Steel
Conveyor Differential	10 – 70 rpm
Conveyor	Axial or radial flights
Conveyor Lead & Pitch	Double 8"
Gear Box Type	K-100 (Planetary)
Gear Box Torque	100,000 in lbs
Gear Box Ratio	76:1
Pool Depth Setting	0" – 4"
Controls	Variable Frequency Drive
Dimensions	
Length	190" (4,826 mm)
Width	83.5" (2,121 mm)
Height	53.5" (1,359 mm)
Weight	
Net	16,390 lbs (7,434 kg)
Control Panel	2,680 lbs (1,216 kg)
Utility Requirements	
Power	150 hp (111.9 kW) Main Drive 40 hp (29.8 kW) Back Drive 20 hp (14.9 kW) Pump Drive
Voltage	380 / 460 V
Frequency	50 / 60 Hz
Phase	3 Phase