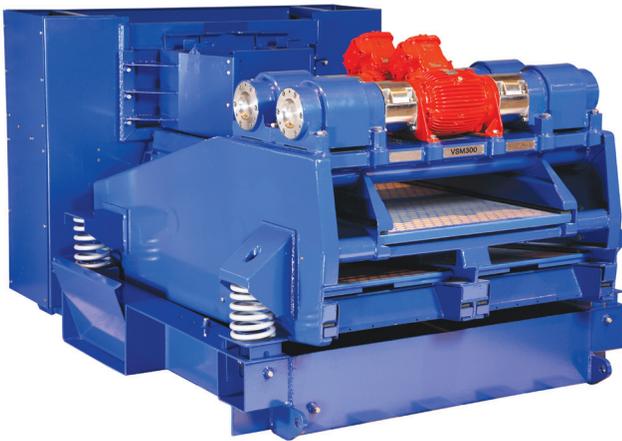


INCORPORATING PROVEN TECHNOLOGIES FOR MAXIMUM SEPARATION EFFICIENCY



VSM 300 with feed chute



VSM 300 with fume extraction hood and flange connection for distribution (spider) feed box

The VSM 300 cascade shaker delivers dramatic increases in capacity with its unique vibratory motion and screen deck design. The innovative, integrated deck design of the VSM 300 includes three scalping screens, four primary screens, and two optional drying screens. This truly unique design, coupled with balanced elliptical motion, enables the shaker to maximize solids conveyance and liquid/solid separation. The Pneumoseal screen clamping system is an element of the shaker that offers an air-operated, quick release system that allows screens to be quickly changed by a single operator.

The proven drive head assembly is available in T3 55C ambient and T4 45C configurations. Under continuous operating conditions the eight bearings in the drive assembly have an L_{10} life expectancy of over 80,000 hours or more than nine years.

The VSM 300 can also be equipped with a fume extraction hood for safe extraction of fumes out of the shaker house. The unit's modular design allows for use in stand-alone operations or provides the flexibility of connecting up to eight units with a common sump (discharge) and backbox (feed) system.

Get the most out of your VSM 300 by incorporating remote manual feed gate control and CONSTANT-G CONTROL™ (CGC). Remote manual feed gates allow for the operator to adjust the amount of fluid seen by the shaker remotely while CGC optimizes shaker performance by automatically adjusting the basket G-force during operation.

Please contact your NOV sales representative for more information.

BRANDT™ VSM 300™ Separator

FEATURES	BENEFITS
CONSTANT-G CONTROL (CGC) (optional)	Maintains an optimum G-force rating during variable liquid/solids loading conditions. Improves flow capacity, provides constant solids conveyance, and finer screening capability.
G-Force	With CONSTANT-G CONTROL <ul style="list-style-type: none"> • 5.3-7.3 G Optimal - 3 kW
Balanced elliptical motion	Provides effective removal of sticky, hydrated clays
Integrated scalping deck (3 screens)	Reduces the need for (and subsequent cost and weight of) upstream scalping shakers and/or gumbo equipment. <ul style="list-style-type: none"> • 20.5 ft² (1.9 m²) of screen area
Primary deck angled at 7° incline (4 screens)	Excellent solids conveyance and liquid/solids separation, even when reactive formations are encountered <ul style="list-style-type: none"> • Keeps the mud pool volume small, which helps increase screen life • 26.3 ft² (2.4 m²) of screen area
Integrated drying deck (2 screens; optional)	Reduces mud losses by creating a dry solids discharge <ul style="list-style-type: none"> • Provides 0.3 m² (3.0 ft²) of screen area
Pneumoseal clamping system	Screens are properly secured to the basket while still allowing quick and easy screen changes
Variable frequency drive (VFD) control	Soft starting, fingertip adjustments of motor speed and matching of G-force to operating conditions

Nominal Specifications and Dimensions

Dimensions (L x W x H)	108.4 in x 73.6 in x 59.3 in (2754 mm x 1870 mm x 1505 mm)
Weir Height	39 in (991 mm)
Max Gross Weight (Dry)*	5370 lb (2436 kg)
Basket Angle	0°
Scalping Deck Angle	0°
Primary Deck Angle	+7°
Drying Deck Angle	+7°
Total Screening Area	49.40 ft ² (4.6 m ²)
Scalping Deck Screening Area	20.5 ft ² (1.9 m ²) - (3 screens)
Primary Deck Screening Area	26.3 ft ² (2.4 m ²) - (4 screens)
Drying Deck Screening Area	3 ft ² (0.3 m ²) - (2 screens)
Screen Type	Pretensioned; Repairable
Screen-Securing System	Pneumoseal (air-operated; quick release)
Motor Type	(2) Totally enclosed non-ventilated (TENV)
Motor Power (per unit)	(2) 4 hp (3 kW)
Vibration Motion	Balanced elliptical
Electrical Requirements	380 - 460 VAC / 3 phase / 50 or 60 Hz
Air Connection/Pressure	Single-point / 85-90 psi
Compressed Air Capacity	0.014 m ³ /min (0.5 ft ³ /min) intermittent
Certifications	ATEX Zone 1, CE Ex II 2 G c IIB T4 Gb Ta -20°C to +45°C or T3 Gb Ta -20°C to +55°C
*Varies based on configuration. Please contact your NOV sales representative for specific dimension and weight information.	