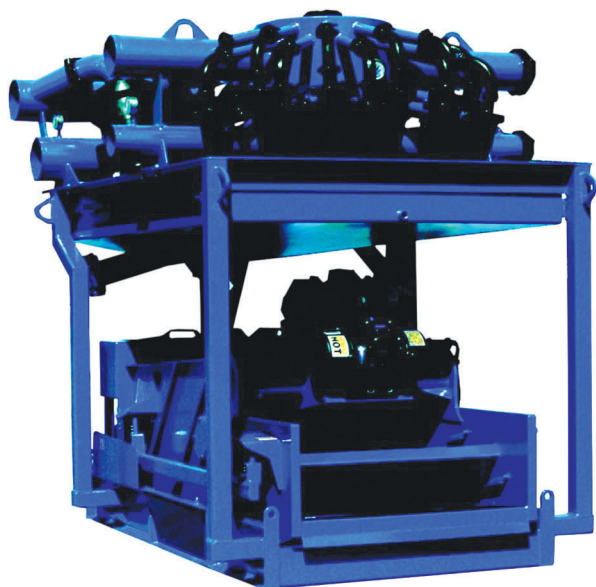


## BRANDT™ KING COBRA™ VENOM™ Mud Conditioner



### OPTIMIZED SEPARATION PERFORMANCE AND FLEXIBILITY IN SITUATIONS OF CHANGING NEEDS

Our KING COBRA VENOM Mud Conditioner optimizes separation performance by combining the KING COBRA VENOM shale shaker and Hydrocyclone cones, used to separate solids from liquid. With sizes available in 12-inch (desander) and 4-inch (desilter), the combination of cones used is dependent upon the application. The cone combinations are sized to handle 125% of the flow rate. The modular design and standardized platform of the KING COBRA VENOM Mud Conditioner allow you to customize options that best fit the needs of the application. Regardless of the original factory configuration, its modular design means you can upgrade the unit in the field, allowing flexibility in situations of changing needs.

#### Options

Vibration Motion	Linear Dual (linear and tuned elliptical)
G-Force	Fixed — Nominal (6.1) Variable — NORM (6.1) HIGH (6.7) MAX (7.3) CONSTANT-G CONTROL™ — automatically sustained setting; patented
Backtank Type	Standard (single shaker configuration) Flanged, Bolt On (multiple shaker configuration); no welding required
Backtank Material	Stainless Steel Carbon Steel
Fluid Endpoint Control (basket elevation adjustment)	Manual Automatic

#### Specifications and Dimensions

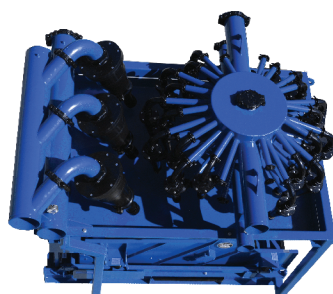
Dimensions (L x W x H)	131 in x 98 in x 117½ in (3327 mm x 2490 mm x 2985 mm)
Weir Height	34½ in (867 mm)
Weight	9500 lbs (4310 kg)
Screen Quantity	4
Deck Angle	Adjustable -2° to +2°
Basket Angle	0°, +5°, +5°, +5°
Screen Type	Pretension, repairable
G-Force	6.7 – 7.3
Deck Area	33.4 ft² (3.1 m²)
Motor Type	Vibra-Motors
Motor Power (each)	2.5 hp (1.9 kw)
Vibration Motion	Linear or Dual

## BRANDT™ KING COBRA™ VENOM™ Mud Conditioner

FEATURES	BENEFITS
Cones constructed of lightweight, durable, polymeric material	High temperature tolerance Chemical and erosion resistant Low cost replacement
Cones connected to feed tube via preferred flange connections	Tight, leak-proof operation
Involute feed entry on cones	More efficient separation of solids from liquid; conserves fluid and reduces wear at feed inlet
Wear-resistant ceramic insert molded into the underflow of the 4-inch cones	Higher abrasion resistance than standard polymeric material, longer-lasting life
Customized cone configurations specific to application	Ensures proper cone configuration
Unique, rugged shaker basket design	Improved energy transfer from basket to screen; improved solids separation
Few replacement parts needed for shaker	Smaller parts inventory, cost efficient
Linear vibration motion on shaker (all KING COBRA VENOM configurations)	Rapid separation and discharge of solids
Tuned-elliptical vibration motion on shaker (dual motion KING COBRA VENOM configurations)	Easily separates large, sticky, hydrated clays and other troublesome solids
Dual motion shaker configuration	Selection of vibration motion that best suits the drilling situation
CONSTANT-G CONTROL™	Consistent G-force setting automatically maintained, improving throughput and separation efficiency
Patented shaker drying deck	Reduces mud loss via dry solids discharge
Exclusive shaker deck angles (0°, +5°, +5°, +5°)	Keeps mud pool volume small, increases screen life
Modular shaker backtank design	Reduced tank volume, decreasing solids settling Bolt-on link sections (no welding required) for multiple-shaker configurations Adjustable, stainless steel weir gates with a bottom feed, reduces solids settling
Specially-designed shaker backtank ports that accept the NOV M/D TOTCO WELLSITE GAS WATCH™ gas detection system	Quick and easy installation of gas detection system
VNM series screens	33.4 ft <sup>2</sup> (3.1 m <sup>2</sup> ) screening area Elimination of crown rubbers Repairable screens create cost savings Elimination of screen leakage and mud bypass via individually-sealed screens
Patented pin-and-hole screen securing system on shaker	Secures screens snugly to shaker basket
Screen wedge redesign	Easy, ratchet-type wedge installation, eliminates hammer damage to screens and shaker basket sidewall
Pushbutton (pneumatic) single-point shaker deck angle adjustment mechanism	Quick and easy deck angle adjustments
Improved cable clamp design for shaker electrical wiring	Clean, quick and rigid installation of electrical wiring
Epoxy and glass flake paint system	Longer paint life, preservation of appearance and value



Side View



Top view of hydrocyclones