

# MERGING HYDROCYCLONE DURABILITY WITH RUGGED, DEPENDABLE SHAKER PERFORMANCE



VSM 300™ shaker featuring a mud conditioner header



KING COBRA™ HYBRID™ shaker featuring a mud conditioner header

Mud conditioner headers are available to mount on most BRANDT shale shakers. With a new modular design and standardized platform of cone offerings, adding a mud conditioner header allows customers to customize their solids control system to better fit their needs. The modular design also allows a header to be added to an existing shaker unit in the field, which allows for flexibility as needs change.

The header assembly, complete with discharge trough, mud manifolds, and cones, is mounted above the shaker. The drilling fluid (mud) is fed through the hydrocyclones, where the discharge cascades down over the shaker screens or is directed to the cuttings ditch. A shaker equipped with fine screens can reduce the amount of mud attached to the discharged cuttings ensuring maximum mud retention. Please contact your NOV sales representative for more information.

FEATURES	BENEFITS
Multiple cone configurations	Ensures proper configuration for desired flowrate
Cones are constructed of lightweight, durable, polymeric material	Provides thousands of operating hours while minimizing maintenance required
Skid-mounted installation with lifting eye welded to frame	Safe and easy handling
Modular design	Assists with installation
Mounts over existing shakers	Requires no additional footprint in shaker house

## Nominal Specifications and Dimensions\*

GENERAL	12-Inch Desander Cone	10-inch Desander Cone	4-inch Desilter Cone
Nominal Inner Diameter	12 in (305 mm)	10 in (254 mm)	4 in (102 mm)
Material	Cast Urethane	Cast Urethane	Cast Urethane
Capacity per Cone	500 gal/min (1893 L/min) to 600 gal/min (2271 L/min)	400 gal/min (1514 L/min) to 500 gal/min (1893 L/min)	50 gal/min (189 L/min) to 65 gal/min (246 L/min)
D50 Cut Point in Water	60-80 µm	50-70 µm	15-20 µm
D50 Cut Point in Drilling Fluid	≥ 200 µm	90-120 µm	35-70 µm

\*All hydrocyclones require 75 feet of head; D50 is dependent on the feed particle size.

\*\*Head room requirement varies with mud conditioner configuration and shaker dimensions.

\*\*\*Certifications Available: ATEX Zone 1, CE Ex II 2 G IIB T4 Gb; Ta -20°C to +60°C. Please contact your NOV representative for more information.