BRANDT™ HS-2000M Centrifuge

FUSING HIGH EFFICIENCY AND COMPACT DESIGN FOR MAXIMUM PERFORMANCE AND EFFORTLESS OPERATION

Centrifuges are used to process unweighted and weighted, water-based and oil-based drilling fluids (muds). The HS-2000M centrifuge uses high G-forces to separate fine solids from liquids.

The HS-2000M centrifuge is fed from the solids end of the conveyor. With all HS-2000M models, mud is introduced into the feed chamber through a feed tube and, with the aid of a concave accelerator, exits through twelve (12) nozzles into the bowl. The HS-2000M is able to exert up to 2,617 G's. The HS-2000M model is equipped with variable frequency drive (VFD) control, which provides a controlled application of motor drive power to the centrifuge components (bowl, conveyor and feed pump).

Customized hardware and software packages can be designed to meet specific installation and operational

requirements. With a processing capacity of up to 250 gal/min (946 L/min), the HS-2000M centrifuge is ideal for utilization in a variety of drilling applications and conditions. Contact your NOV sales representative for more information.

FEATURES	BENEFITS
250 gal/min (946 L/min) maximum processing capacity (water)	High processing capacity for utilization in high-flow drilling applications and conditions
59:1 ratio cycloidal gearbox	Provides for a reduced motor size
Fluid fed from solids end	Provides a short feed tube with less vibration
Variable frequency drive (VFD) control	Permits easy adjustment of bowl, conveyor and feed pump speeds for varying process conditions and provides torque overload protection
Bowl and heads forged of stainless steel	Provides corrosion resistance for long life, smooth operation and low maintenance
Stainless steel case	Offers high strength and corrosion resistance
Entire scroll fitted with sintered tungsten carbide tiles	Offers abrasion resistance for maximum operational life and low maintenance
Flush connections	Aids in cleaning excess material from inside the case
Case gaskets	Contains process materials within the case
Vibration switch shut-off mechanism	Automatically disables operation in situations of high vibration
Case baffle gaskets	Keeps separated streams apart
Torque overload mechanism	Provides torque overload protection • Shuts down both the centrifuge and feed pump in overload situations
Stainless steel rotating assembly	Provides corrosion resistance for long life, smooth operation and low maintenance
Split-case cover	Facilitates easy access for inspection and maintenance
Spherical roller and cylindrical roller main bearings	Offers long life and low maintenance
Modular frame	Allows the unit to fit into areas where weight and footprint restrictions exist

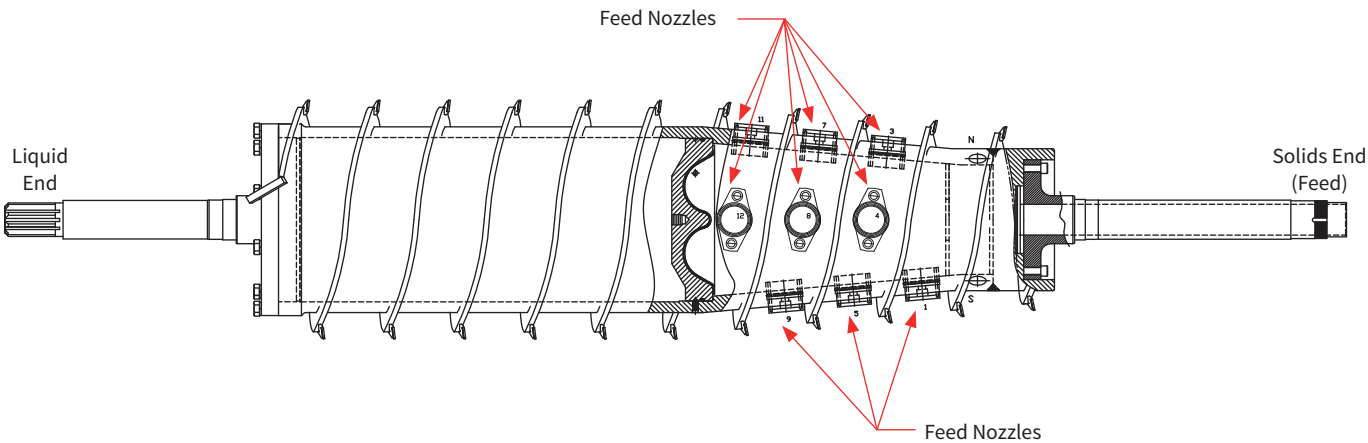
NOV Wellbore Technologies

4310 N Sam Houston Pkwy East
Houston, Texas 77032, USA
Phone: 713 482 0500 • Fax: 713 482 0699

brandt@nov.com

nov.com/wellsite

BRANDT™ HS-2000M Centrifuge



Conveyor Subassembly

Nominal Specifications and Dimensions

GENERAL	HS-2000M
Length	171.5 in (4356 mm)
Width (at bowl drive end)	40.25 in (1022 mm)
Width (at conveyor drive end)	40.25 in (1022 mm)
Height (lid closed)	46.6 in (1185 mm)
Height (lid open)	69.4 in (1762 mm)
Weight "Dry"	9,000 lb (4082 kg)
Bowl Diameter	18 in (457 mm)
Bowl Length	60 in (1524 mm)
Maximum Bowl Speed	3200 RPM
Typical Bowl Speed	2600 RPM
Maximum Processing Capacity (water)	250 gal/min (946 L/min)
Drive Type	Variable Frequency Drive (VFD)
Maximum G-force	2617
ROTATING ASSEMBLY	
Conveyor Pitch	5 in (127 mm)
Conveyor Type	Single
Feed Chamber Discharge Type	12 Nozzles
Gearbox Type	Single-Stage, Cycloidal
Gearbox Ratio	59:1
POWER REQUIREMENTS	
Bowl Drive Motor	75 hp (56 kW)
Conveyor Drive Motor	30 hp (22 kW)
Voltage	460 VAC
** Optional 380, 480, and 575 VAC also available*	

NOV Wellbore Technologies

4310 N Sam Houston Pkwy East
Houston, Texas 77032, USA
Phone: 713 482 0500 • Fax: 713 482 0699

brandt@nov.com nov.com/wellsite