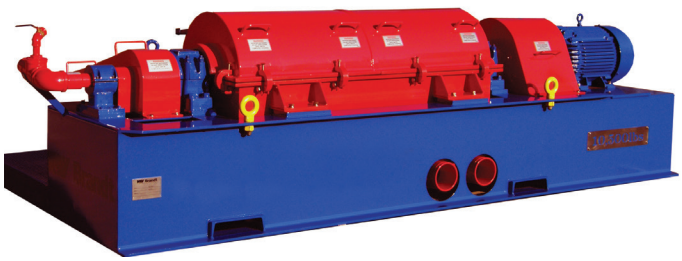
BRANDT™ HS-1960 Centrifuge

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

The HS-1960 centrifuge uses high G-forces to separate fine solids from liquid. Drilling fluid (mud) is introduced into the feed chamber of the HS-1960 through a feed tube and, with the assistance of built-in “S” shaped accelerators, exits into the bowl through two (2) elongated windows. The HS-1960 centrifuge is able to exert up to 2,480 G’s on the mud.

The HS-1960 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 (water) of up to 350 gal/min (1325 L/min), the HS-1960 centrifuge is able to quickly process high volumes of mud while allowing prescribed mud weights and separation efficiencies to be maintained. This enables the HS-1960 centrifuge to produce fine cut points at higher flow rates, making it ideal for high-flow applications and critical-conditions solids control. Contact your NOV sales representative for more information.



FEATURES	BENEFITS
350 gal/min (1325 L/min) maximum processing capacity (water)	High processing capacity for utilization in high-flow drilling applications and conditions
75:1 ratio planetary gearbox	Provides for a reduced motor size
Feed 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 also provide 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
Conveyor flights hard-surfaced with tungsten carbide	Offers abrasion resistance for maximum operational life and low maintenance
Tungsten carbide tiles on tapered solids end of conveyor	Provides increased abrasion resistance at the solids end
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
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
Sturdy WF-beam skid	Supplies a solid foundation for smooth operation and long bearing life
Eight (8) tungsten carbide solids discharge nozzles	Offers an abrasion-resistant exit of solids from the bowl to discharge
Six (6) epicentric orifices	Conveys the liquid effluent to the discharge and enable easy adjustment of the pond depth
Dual 6 in (152 mm) effluent discharge pipes	Allows for high-capacity processing

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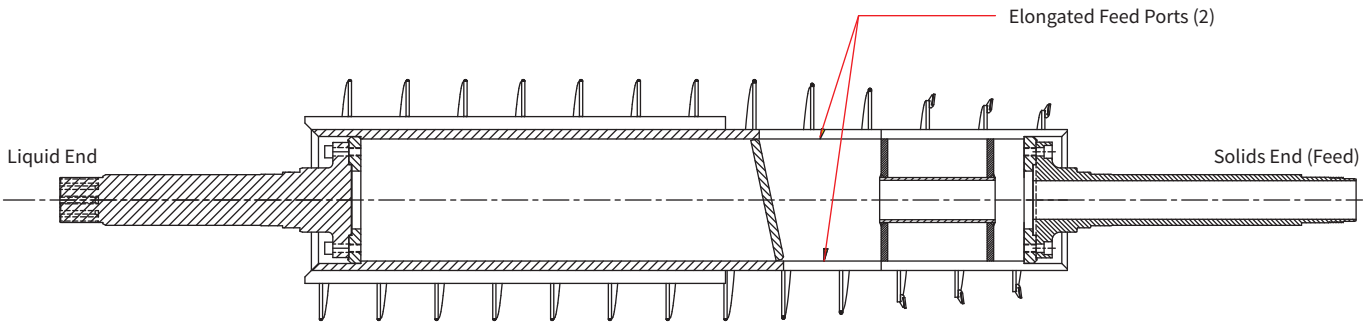

HS-1960 Conveyor Subassembly

Nominal Specifications and Dimensions

GENERAL	HS-1960
Length	160 in (4064 mm)
Width (at bowl drive end)	83 in (2108 mm)
Width (at conveyor drive end)	44.3 in (1124 mm)
Height (lid closed)	44.1 in (1121 mm)
Height (lid open)	64.3 in (1634 mm)
Weight "Dry"	11,600 lb (5262 kg)
Bowl Diameter	19 in (483 mm)
Bowl Length	60 in (1524 mm)
Maximum Bowl Speed	3000 RPM
Typical Bowl Speed	2700 RPM
Maximum Processing Capacity (water)	350 gal/min (1325 L/min)
Drive Type	Variable Frequency Drive (VFD)
Maximum G-force	2480
ROTATING ASSEMBLY	
Conveyor Pitch	4.5 in (114 mm)
Conveyor Type	Single
Feed Chamber Discharge Type	2-port
Gearbox Type	Planetary
Gearbox Ratio	75:1
POWER REQUIREMENTS	
Bowl Drive Motor	125 hp (93 kW)
Conveyor Drive Motor	40 hp (30 kW)
Voltage*	460 VAC
**Optional 380, 480, and 575 VAC also available*	

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