



**INNOVATIVE TECHNOLOGY BY CRS**  
High-Quality Fluids, Little Waste, Unparalleled Service



## INDUSTRY-LEADING TECHNOLOGY DEVELOPED SPECIFICALLY FOR RUGGED OIL AND GAS APPLICATIONS

CRS developed technology to meet the demands of ever more complex oil and gas wells: extended-reach drilling, faster drilling, increased volumes, and harsh environments. Featuring a proprietary design, THE BEAR centrifuge from CRS delivers high-speed processing for outstanding solids control in oil and gas operations. THE BEAR's unique design makes it equally effective in processing both water-based muds (WBM) and oil-based muds (OBM). Whether you're drilling upper intervals or shallower, less challenging wells with WBM, or utilizing OBM drilling in the production interval or the most challenging of formations, THE BEAR is the centrifuge to put on your location.

Our equipment is backed by our experienced reprocessing personnel, on-site/off-site testing and full engineering support. We develop a custom solution designed to meet specific requirements and provide unparalleled services with a highly experienced and dedicated team of Oil & Gas services staff.

FEATURES	BENEFITS
Custom engineered rotating assembly	<ul style="list-style-type: none"> <li>Largest bowl capacity on the market yields better solid separation and allows processing of heavy mud at high volumes</li> <li>Maximizes low-gravity solids (LGS) removal, with fine particle separation down to 4 microns                             <ul style="list-style-type: none"> <li>Extends the working life of the drilling fluid, decreasing cost associated with disposal/dilution</li> <li>Increases rate of penetration</li> <li>Decreases wellbore pressure and improves circulation</li> </ul> </li> </ul>
Fully variable rotational speed control of the bowl	<ul style="list-style-type: none"> <li>Provides the ability to adjust the G-force, with no downtime, based on the incoming feed and/or operating conditions which yields barite recovery up to <b>95%</b></li> </ul>
Fully variable and automated rotational speed control of the scroll	<ul style="list-style-type: none"> <li>Provides the ability to adjust the differential RPMs between the bowl and scroll                             <ul style="list-style-type: none"> <li>Operates at the lowest possible differential producing drier letdown</li> <li>Reduces downtime due to over-torqueing (bowl pluggage)</li> </ul> </li> </ul>
Best in class low side differentials	<ul style="list-style-type: none"> <li>Reduces the amount of residual drilling fluids on the cuttings which decreases hauling and waste disposal costs by as much as <b>30%</b>, due to less liquid present and drying agent usage                             <ul style="list-style-type: none"> <li>Reduces the amount of dilution required to maintain the system</li> </ul> </li> </ul>
Minimal requirements for pit and tank cleaning	<ul style="list-style-type: none"> <li>Processes greater volume of drilling fluid, while removing more unwanted solids, leading to less material left in rig pits to be cleaned</li> </ul>
Designed for the Oil & Gas industry	<ul style="list-style-type: none"> <li>Built using heavy duty components to handle the high torque caused by solids loading due to heavy mud weight and/or high rate of penetration (ROP)</li> <li>Able to operate in the harshest environments</li> <li>Innovative skid design reduces footprint and minimizes impact to the environment</li> </ul>
<b>ADDITIONAL SERVICES:</b> <ul style="list-style-type: none"> <li>On-site retort analysis</li> <li>pH adjustment capabilities</li> </ul>	<ul style="list-style-type: none"> <li>Provides real-time data in order to make adjustments to operating parameters improving quality of returned drilling fluids</li> <li>pH adjustments while dewatering</li> </ul>

### EQUIPMENT SPECIFICATIONS

<b>BOWL:</b>		<b>GENERAL:</b>	
Diameter	21 inches	Drive Type	Variable Frequency Drive (VFD)
Length	91 inches	Torque	88,600 in-lb
Volume	70 gallons	Differential Range	0.5-42 RPM
Max Bowl Speed	2,600 RPM	Solids Output	26,000 lb/hr
		Hydraulic Capacity	500 gpm
<b>POWER:</b>			
Main Drive	100 HP		
Back Drive	30HP		

