

# FLUID SYSTEMS, INC.

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Fluid System, Inc began operations in early 1979 doing development and engineering work on solids control equipment and mud handling systems used on drilling rigs. FSI's Corporate Charter was issued on June 16, 1981.

The company has been involved in furthering solids control technology for the oil and mining industries since its inception. The first equipment introduced by the company was a line of mud cleaners (hydrocyclones mounted over vibratory screening equipment) which incorporated the use of linear motion in their design.

Another area in which the company has done a substantial amount of pioneering work is in "Zero Discharge" projects in environmentally sensitive areas. The developmental work accomplished in this area has led to improved systems as well as cost reductions in the "Closed Loop" drilling environment.

FSI's product line covers an extensive list of applications from simple to sophisticated processes. The basic equipment produced serves standard applications, which are serviced by many of our competitors.

Equipment innovations include side-mounted vibrators, Wedgelok™ fasteners and pre-tensioned screen panels - all of which are being incorporated by the competitors today. Single, Dual, Triple, Quad and Five Panel units are available for varying process applications.

## Introducing the FIRST Dynamic Control Shaker

This patent-pending technology has been developed to increase solids control performance in drilling mud, waste management and fine screening systems. Two variable-speed motors in a new configuration creates Linear or Balanced Elliptical motion at all points on the shaker basket maximising the solids conveying, liquid throughput and reducing the fluid retention on cuttings the solids or screened material.

### Other Shale Shaker's model

- Series 500 B
- Series 5000 B
- Series 5000 B CD (Cutting Dryer)
- Series 5000 B BSBS

### Other Shale Shaker's model

- Series 500 B (Balanced Linear Motion)
- Series 5000 BLE
- Series 5000 B (Low Profile)
- Series 50 B

## Shale Shakers

		
Prodigy NextGen	Series 500B	Series BLE

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## Mud Cleaners



Series gMAX™ The Eliminator

The gMAX™ Super Cyclone is an entirely new Krebs Cyclone-re-engineered from apex to vortex finder. The gMAX™ Super Cyclone has the capability to produce finer and sharper particle separations, using large, high capacity cyclones. This performance level was formerly only achievable using many small diameter cyclones, at a much higher capital cost.

gMAX™ Super Cyclone design includes new modern apex and cone design that feature performance enhancing benefits as well as one inch thick elastomer for increased wear life. The cyclone inlet and cylindrical sections have been modified to minimise turbulence and wear, but still have the capability to operate at much higher capacities than our competitor's cyclones.



Series 5000 B DHC

**Mud Cleaner Unit:** The "3 in 1" mud cleaner consists of a Balanced Linear Motion Series 5000B4X with 34.0 sq.ft. of screening area, desander unit and desilter unit.

**Desander Unit:** The FSI DSR unit has been designed to remove all drill solids larger than 45 microns from the drilling mud. Each hydrocyclone will process mud at a rate of 500 GPM per cone, regardless of mud weight. The DSR unit is able to process this high volume regardless of mud weight, therefore, it is not necessary to reduce the volume handling capacity the unit as the volume increases. The 10" desander cyclone is a low cost, lightweight, moulded urethane providing excellent wear life with maximum economy and ease of handling.

**Desilter Unit:** Each cone has 100 GPM [378.5 lpm] @ 40 PSI [2.8 kg/cm.sq.] capacities. Up to 20 cones per header depending on the required capacity.



UltraVak Degasser  
500, 1000 & 1200 GPM

FSI degassers are rugged vacuum unit designed to safely and efficiently remove 99.9% of entrained air and gasses such as methane, H<sub>2</sub>S and CO<sub>2</sub> from drilling fluids. Designed for the rigours of field use, the unit features a 7.5HP, 50 or 60Hz industrial-grade TEXP motor rated for continuous operation, which powers an Ingersoll-Rand vacuum pump. A push-button starter gives operators fingertip control. This self-contained, skid mounted supplies up to 29" Hg of vacuum to efficiently handle high-viscosity fluids.



Atmospheric Degasser

### FSI Atmospheric Degasser

The FSI Atmospheric Degasser is a compact, cost effective solution for removing entrained gasses from drilling fluid. Mud (drilling fluid) is pumped from the bottom of the pit by the unit's powerful 10 HP TEXP motor and piped to an elevated separation tank. A baffle plate in the tank sprays a sheet of high-pressure drilling fluid against the tank wall. This sheeting action and impact allow entrained gasses to escape to a vent pipe for disposal while degassed fluid flows downstream through a discharge. The unit processes fluid to within 16 PPG at up to 600 GPM.

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## Hydroclones

	
<p>Stand-Alone 10" Desander Unit</p>	<p>10" High Capacity Desander Cone</p>
	
<p>Stand-Alone 4" Desilter Unit</p>	<p>4" High Capacity Desilter Unit</p>



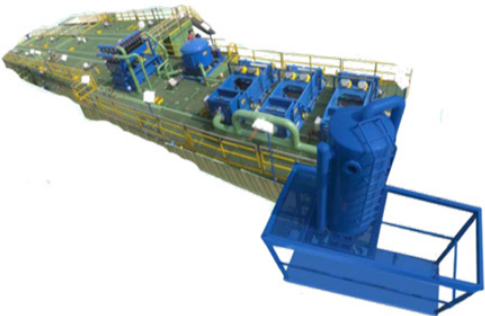
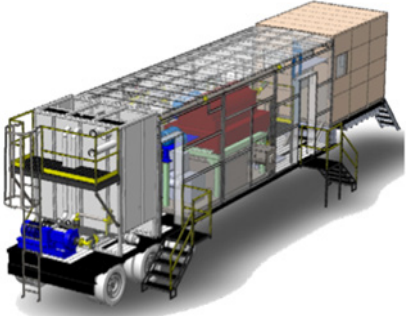
## Agitators


<p>5HP to 30HP Vertical &amp; Horizontal Mixing Agitators</p>

## Centrifuges


<p>14", 18" &amp; 21" Decanting Centrifuges</p>

## Centrifugal Pumps

	
<p>4 x 3, 5 x 4, 6 x 5 &amp; 8 x 6 Horizontal &amp; Overhead</p>	<p>Mixing Equipment Round Venturi Style Mud Hopper</p>
	
<p>State of the Art Mud System (SAM Systems)</p>	<p>Self Contained Portable Dewatering System</p>