



High Efficiency Jet-Shear Mud Mixing Systems

KEM-TRON
Oil & Gas

Specialists in creating value through solution-oriented packaging, integration and system customization.



Dry Additive Hopper

Robust construction with integrated venturi mixer and handling shelf to ensure ergonomic handling of bags.



Liquid Additive Injection Ports

Multiple liquid injection ports are provided to enhance mud properties.



Enhanced Mixing System

Double elliptical nozzles are set at opposing angles therefore forcing fluid streams to fold upon themselves.



Mud Bypass Line

Valve isolated mud bypass lines allows operators to bypass the low shear line with built in static in-line mixer.



Using our unique history as a provider of performance chemicals, KEM-TRON has developed a line of drilling mud jet shear systems designed to provide the greatest available efficiency in blending. Jet shear systems are designed to use hydraulic shear to efficiently mix solids with liquids. KEM-TRON's jet shear systems ensure efficient and mixing of soluble polymers and bentonite used in water-based drilling fluids, therefore eliminating "fish eyes". Drilling fluid yield and gel strength properties are instantly obtained with hydraulic shearing of bentonite or organophilic clays.



Custom Jet Shear Project

The addition of liquid additives is made easy with the incorporation of an injection port into the jet pump. This port is capable of handling liquid additives such as; lubricants, polyacrylamides, and oil-wetting emulsifiers. By incorporating an in-line mixer, the operator is given the choice of imparting low shear into the drilling mud. When the appropriate level of mixing is imparted into the drilling mud, polymers are efficiently used, therefore lowering additive costs.

Though each KEM-TRON system is fully capable of ensuring homogenous drilling mud, the greatest value is KEM-TRON's in-house engineering team with the ability to meet each customer's needs through system customization. As needed to meet specific customer needs, custom hoppers, chemical injection systems, and operator control systems can be provided. All systems are designed to be fully compliant with ISO 9001 and European CE Machinery Directive standards.

Model Number:	KT-SM-500
Mixing Capacity:	507 gpm (32 lps) - High Shear 1,014 gpm (64 lps) - Low Shear
Hopper Size:	6" (152 mm)
Centrifugal Pump Size:	100 HP 6" (152 mm) x 5" (127 mm) x 14" (356 mm)
Shear Line Size:	8" (203 mm) - High Shear 8" (203 mm) - Low Shear
Skid Dimensions:	142 in (3.6m) L x 43 in (1.1m) W x 67 in (1.7m) H
Weight:	9,500 lbs (4,309 kgs)



*Also available with stainless steel valves and components.

KT-SM-500
5" Jet Shear System

Chemically Enhanced Mechanical Separation

By combining expertise in both dewatering polymers and solid/liquid separation technologies, KEM-TRON has developed an organization capable of providing complex chemically-enhanced mechanical separation solutions. As a service oriented organization, KEM-TRON's focus is on providing timely value. This value is further enhanced when customers take advantage of KEM-TRON's integration, modularization, and customization capabilities. KEM-TRON will continue to be an industry leader in bringing mobile solutions to the industry's toughest solids management problems.