

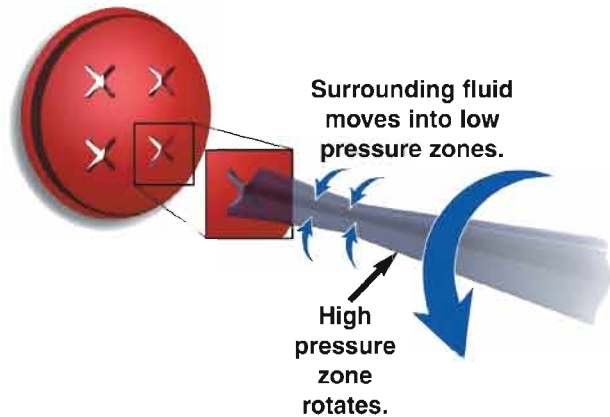


Jet Shear® II

Mixing ■ Shearing ■ Blending

The Jet Shear® II is a new mixing technology utilizing hydraulic shear to effectively and efficiently mix dry materials with liquids, as well as blend, emulsify, and stabilize liquid/liquid phases.

The Jet Shear® II utilizes a patented concept in mixing using double elliptical orifices set at opposing angles within the mixing chamber. Each nozzle produces a stream of fluid that folds in upon itself producing moving low and high pressure zones resulting in rapid mixing.



The collision of these streams with each other at a predetermined angle further enhances the mixing-blending effect. The result is a thorough blending of chemicals into the drilling fluid.

In test after test against competitive devices (mechanical shearing), the Jet Shear® II has out performed the competition on HEC and PHPA Polymers, Drispac, Gel, and other additives.



In-Line and Combination Jet Shear Models

Model #	Inlet Size	Outlet Size	Bypass Outlet Size	Eductor Nozzle Sizes	Optimum Pressure Drop Across Unit	Flow Rate
400 B/F	2" NPT	2" Victaulic	N/A	N/A	5-10 PSI	50-100 gpm
400 HE/200	2" NPT	2" Victaulic	2" Threaded Flange	3/8", 5/8", 3/4"	45-55 PSI	50-100 gpm
800 B/F	3" NPT	4" Victaulic	N/A	N/A	5-10 PSI	100-300 gpm
800 HE/300	3" NPT	4" Victaulic	3" Threaded Flange	3/4", 15/16", 1 1/8"	45-55 PSI	100-300 gpm
1000 B/F	4" NPT	6" Victaulic	N/A	N/A	5-10 PSI	300-500 gpm
1000 HE/400	4" NPT	6" Victaulic	4" Threaded Flange	1", 1 1/4", 1 1/2"	45-55 PSI	300-500 gpm
1200 B/F	6" Flange	8" Flange	N/A	N/A	5-10 PSI	500-1,100 gpm
1200 HE/600	6" Flange	8" Flange	6" Weld Flange	1 1/2", 1 7/8", 2 1/4"	45-55 PSI	500-1,100 gpm

* Inlet pressure after subtracting discharge head pressure.

Flo Trend Systems Tel - 713-699-0152
707 Lehman St. 800-762-9893
Houston, TX 77018 Fax - 713-699-8054
sales@fлотrend.com

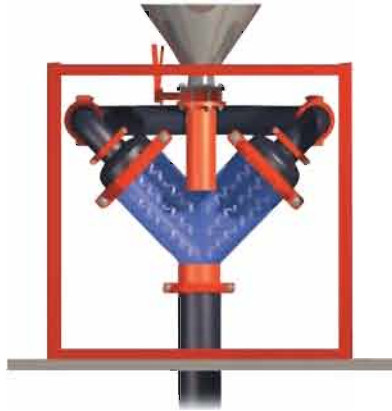


In-Line Units

Double elliptical nozzles create rotating high and low pressure zones blending the dry chemical as it falls through the mixing chamber of the Jet Shear® II.



Model 1000F



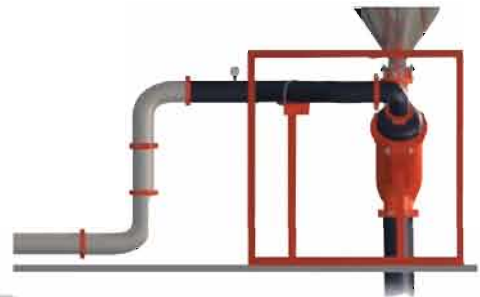
Model 800F

As a wetting and mixing device for dry chemicals, the Jet Shear® II is installed over a mud pit with a chemical hopper attached directly to the mixing chamber. Drilling mud is pumped to the Jet Shear® II where it enters the mixing chamber through the feed yoke and nozzle discs. It then mixes and falls down through the outlet, creating a downward draft through the chemical hopper. Dry chemical can be added through the hopper where it is mixed with drilling mud passing through the nozzle discs. The recirculation of the drilling mud and chemicals through the Jet Shear® II further blends the mixture.



The In-Line Unit is installed parallel to the rig hopper. Chemicals are added through the rig hopper, then circulated through the In-Line Jet Shear®.

As a continuous static mixing unit, the Jet Shear® II is installed downstream from a mud pump and drilling mud is circulated through the Jet Shear®. (Chemicals are added to the mud through conventional means.)



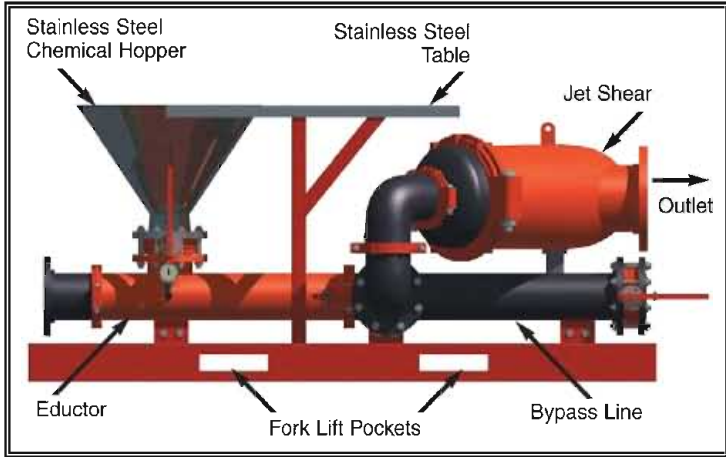
In this rig-up, the In-Line Unit is installed directly over the receiving tank. Dry chemicals can be added through a hopper installed on the Jet Shear's® Mixing chamber.

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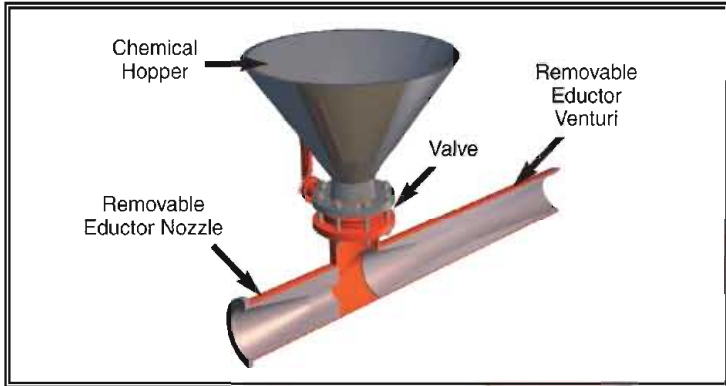
Combination Units

The Jet Shear® II, combined with the FTS Eductor and chemical hopper on one skid can be installed practically anywhere on the rig (depending on the capability of the rig pump.) This unit is typically rigged up parallel to the rig hopper and fed off the same pump. However, the Jet Shear® can be used in place of the rig hopper particularly in new installations. The efficiency of Flo Trend's® Eductor produces a velocity recovery that prevents the hopper from "backing up" with increasing discharge back pressure.



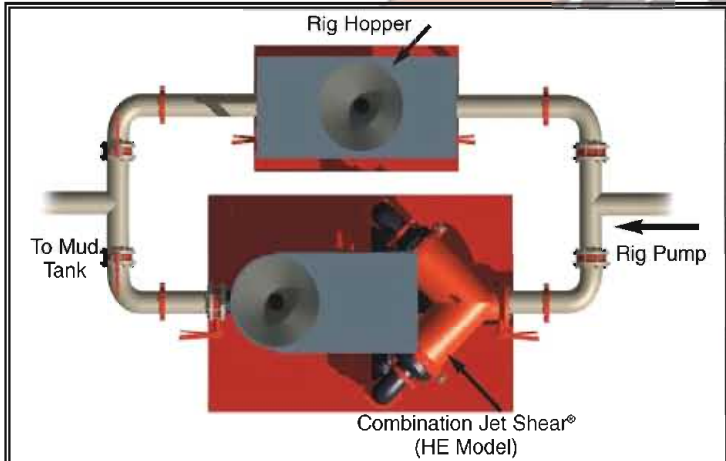
Model 800HE/200

This model combines the Jet Shear® with a chemical hopper and eductor (venturi).



Model 1000HE/400

Flo Trend® Systems' Eductor mounts upstream of the Jet Shear®.



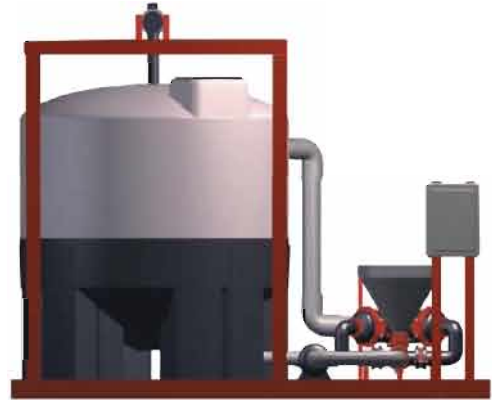
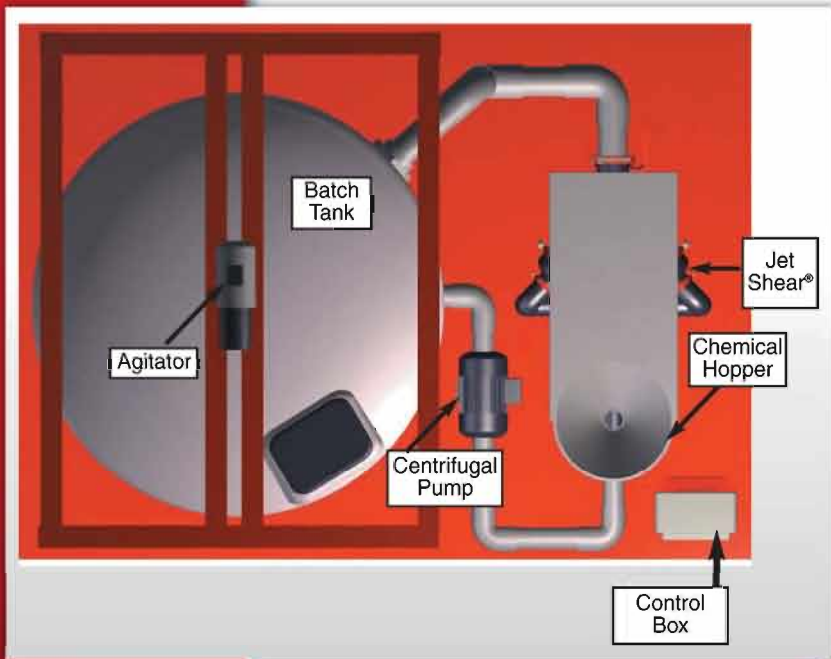
Model 1200HE/600

Parallel Rig-Up

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Batch Systems

Flo Trend's® Batch Systems are ideal for mixing a batch of fluid to a certain viscosity, percentage, or by weight or other desired property. There are various options available with the Batch Systems including: Batch tanks from 500 to 4,200 gallons, pumps from 50 to 2,000 gpm, and Jet Shears® to match circulation flow rate



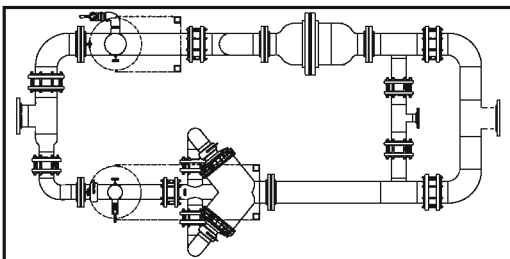
**Model 400HE/200
Jet Shear® with
Single 1,000 gallon
agitated batch tank**



**Model 800HE/400
Jet Shear® with
Single 1,000 gallon
agitated batch tank**

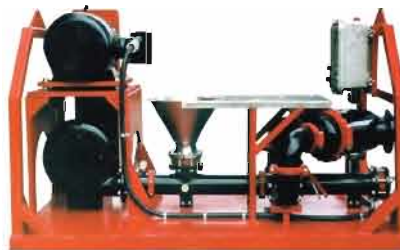
Custom Packages

**High Flow-Low Shear/Low Flow-High Shear
Jet Shear® system**



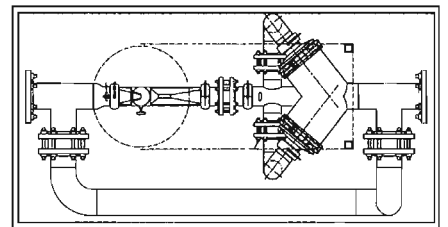
Model 100HEM/400-HE/600-MM-1200

**Centrifugal Pump and Jet Shear®
Combination Package**



**Model 1200HE/600
with 8"x6" Magnum Pump
100 H.P. Motor**

**Jet Shear® with Reverse Flow
Clean Out**



Model HEM1000/400

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