

Frac Fluid Blender for Oil and Gas Extraction

The blender provides top-ranking performance, controllability, and stability. It successfully mixes frac fluid of different viscosity, ratio and density according to the fracturing technology to a very uniform level.



ADDITIONAL IMAGES



Overview

High-Performance Frac Fluid Blending

This industrial blender delivers top-ranking performance, controllability, and stability for oil and gas extraction operations. It is designed to mix fracturing fluids of varying viscosity, ratio, and density into a highly uniform mixture, supporting applications in sand prevention, fracturing, acidizing, and shale gas extraction. The unit features an advanced control system with real-time monitoring to ensure safety and reliability during large-scale field operations.

Performance Metrics

Max Displacement Range

10 m³/min
Min Displacement

38 m³/min
Max Displacement

Max Working Pressure

0.7 MPa

Mixing Tank Volume Range

1.4 m³ - 1.8 m³

Technical Capabilities

FEATURES & SUPERIORITY

- Fully hydraulic driven blender, combined with closed and open type system, with high level transmission efficiency, few heat production, stable work performance.
- Mechanical driven blender, it can achieve high level sand ratio, large displacement of frac fluid. It also has high level transmission efficiency with superior performance.
- The blender can mix the fluid at a fixed ratio and supply the fracturing pumper with variable fluid accordingly. It is applied to large, medium fracturing operation and acidizing operation.
- The blender adopts advanced control system which has manual / auto, local / remote switch, real time monitoring, and operation parameters regulating to ensure the operation safety and reliability.

Detailed overview of the hydraulic and mechanical drive system advantages for fracturing and acidizing operations.

Drive System Options

- Fully hydraulic driven (closed and open type systems)
- Mechanical driven (high sand ratio and large displacement)

Applications

Fracturing, Acidizing, Sand Prevention, Shale Gas Extraction, Coal-bed Methane Extraction

Control & Safety

Control System Features

- Manual/Auto switching
- Local/Remote switch
- Real-time monitoring
- Operational parameter regulation
- Full-automatic mixing control

Model Specifications

Model	KT10	KT12	KT16	KT19	KT20	KT38
Capacity (bbl)	60	75	100	120	130	240
Auger Proppant Vol (m ³ /min)	3	4.5	6	7	8	12
Weight (kg)	23765	29000	31000	33000	32000	50000
Dimensions (mm)	10800x2500x4120	12000x2500x4000	12500x2500x4200	12380x2500x4200	13000x2500x4200	14500x3000x4200

Comprehensive technical parameters and component configurations for the KTHS series blenders.

Model Capacity & Dimensions

Model	Capacity (bbl)	Auger Proppant Vol (m ³ /min)	Weight (kg)	Dimensions (mm)
KT10	60 bbl	3	23765	10800x2500x4120
KT12	75 bbl	4.5	29000	12000x2500x4000
KT16	100 bbl	6	31000	12500x2500x4200
KT19	120 bbl	7	33000	12380x2500x4200
KT20	130 bbl	8	32000	13000x2500x4200
KT38	240 bbl	12	50000	14500x3000x4200

Configuration

Core Components

- Chassis: MAN / BENZ / Semi-trailer options
- Deck Engine: MTU / CAT / Cummins
- Transfer Case: STIEBEL / DURST / TWIN DISC
- Hydraulic System: Rexroth / Parker / Sauer
- Manifold: Double suction & Double discharge

Mounting Structures

Trailer Mounted • Skid Mounted • Truck Mounted