CAMERON
A Schlumberger Company

Caustic Mixing Unit

Streamlined adding of caustic material

APPLICATIONS

Land and offshore drilling

BENEFITS

- Reduce direct contact with caustic materials with air-tight cutting cabinet
- Mix and store caustic fluid for more than one job

FEATURES

- Fully enclosed sack cutting cabinet
- Caustic mixing tank
- Pneumatic mixing and injection pump
- Pressure-reducing valve for air supply
- Manual valves
- Closed discharge system
- Integrated acrylic glass inspection window
- Integrated heavy-duty work gloves

Caustic soda is an essential element of any drilling fluid system. It is used for a wide range of purposes, including a decontaminant agent, dispersant agent, anticorrosion agent, and a general tool for adjusting and maintaining mud pH levels.

The caustic mixing unit (CMU) streamlines the three stages—sack cutting, fluidizing, and dosing—of adding caustic material into the drilling fluids system. The CMU features an air-tight cutting cabinet with integrated heavy-duty work gloves that reduce the potential of operators coming into direct contact with caustic materials. The holding tank can store up to 79 galUS [300 L] of liquid, enabling operators to mix and store caustic fluid for more than one job. An air-powered, double-diaphragm pump provides drive for both circulation and discharge jobs.

The CMU is designed as a fully transportable unit with integrated forklift supports and manual operation to provide quick and hassle-free relocation whenever required.

Specifications	
Area classification	Safe zone
System operation	Manual
System drive	Pneumatic
System and pump capacity	0.44 to 44 galUS/min [0.1 to 10 m^3/h]
Dry weight	1,102 lbm [5,400 kg]
Tank capacity	92.5 galUS [350 L]
Maximum operating capacity	79 galUS [300 L]
Pneumatic supply requirements (gauge pressure)	102 to 116 psi [7 to 8 bar]
Injection pump type	Air-powered, double-diaphragm pump

Scope of Supply
Skid-mounted caustic mixing unit complete with
92.5-galUS [350-L] holding tank
System drive with manual ball valves
Integrated acrylic glass inspection window
Standard project documentation
Options
Volume control (tank)
Alternative holding tank size
Additional certification (CE and Hazardous Zone I and II)
NORSOK documentation