

# 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 <sup>3</sup> /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