

Vertical Cell Feeder

Accurate dosing of bulk powder

APPLICATIONS

Land and offshore drilling

ADVANTAGES

- Designed with highly effective and precise four-chamber carbon steel dosing tool
- Available with horizontal or vertical motor and gear configuration
- Capable of remote operation from the operator station and mud control system (MCS) and of being installed in new and existing bulk systems
- Compliant with all relevant NORSOK and offshore requirements
- Facilitates automatic mixing in density mode

The vertical cell feeder, located at the surge tank discharge point, doses bulk powder to the mud mixing hopper. Driven by a variable speed drive (VSD)-controlled motor, the cell feeder incorporates an auto-density mode for drilling fluids to enable weight material to be dosed accurately while circulating mud in the mixing line.

Technical Specifications

Area classification	Safe zone
Control and monitoring	Remote via MCS
Operating volume	18 L per revolution (four 4.5-L chambers)
Capacity	989 ft ³ /h [14 m ³ /h]
Dry weight	419 lbm [190 kg]
Flange size (top and bottom)	12-in ASME
Design temperature	-4 to 176 degF [-20 to 45 degC]

Standard Scope of Supply

12-in cell feeder complete with the following

- VSD motor
- Interface to MCS
- Standard documentation package

Options

- Additional certification (CE and Zone II, I)
- NORSOK documentation
- Auto-density package

