



## Product



## 118VM Plate Brake

## Application

## Offshore Drilling Rig Topdrive

### Highlights

- Hydraulic pressure-applied, single-plate brake
- 140 bar (2030 PSI) operating pressure
- 12.0 kNm (8850 lb.ft.) dynamic torque
- Fully-enclosed design
- Certified for ATEX Zone 1 CAT II, Gas B, T3

The Wichita Clutch 118VM brake is an ideal choice for topdrive braking applications on offshore drilling rigs. The brake is specifically designed to provide dynamic emergency stopping and static holding of the topdrive during drilling operations.

The 118VM brake is a hydraulic pressure-applied, single-plate unit built for high-energy dynamic stopping and parking in vertical-shaft-mounted applications. It accommodates high disengaged running speeds while providing a high torque capacity in a compact space envelope. The brake has the capacity to handle repeated dynamic stops in succession.

The 25.2" (640 mm) diameter brake is designed to be installed on the non-driving stub shaft above the topdrive motor and allows for the mounting of a speed encoder on the end of the shaft.

The brake features an operating pressure of 140 bar (2030 PSI), which generates 12.0 kNm (8850 lb.ft.) of dynamic torque. With an ambient operating range between -45°C to +55°C (-49°F to 131°F), the 118VM is built to perform in challenging offshore drilling environments.

The 118VM is one of the first dynamic plate brakes available to the topdrive market that is certified for ATEX Zone 1 CAT II, Gas B, T3. The robust design is fully enclosed when fitted with an available cover. A sealed piston holding plate protects against the ingress of dirt and moisture.

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