All-in-One Breaking

The new Positorq® load-control brake from Force Control Industries is an oil-shear hydro-viscous brake designed for dynamic slip, as well as static stopping and holding for oil rig draw-works applications. According to the company, this dual-purpose brake:

- Controls stop rate, absorbs the energy from stopping and enables stop and hold in position during tripping to make the next pipe connection.
- Can slip at very low speed (0 RPM) smoothly, making it ideal for controlling WOB (the weight on the bit) without chatter, stick slip or cogging during the drilling operation.
- Is the ideal replacement for water brakes or eddy current auxiliary brakes commonly used, as well as the mechanical band or caliper brake on the winch drum.
- Is part of the Positorq® LCB system, which includes an oil shear Positorq® load control brake as well as a Force Lube Cooling Unit which can be mounted in various rig locations.
- Eliminates the sharp jerk when transitioning between dynamic slip and static lockup — thereby reducing load on other transmission components, cabling and top rig.
- Can be designed as either spring set — so that a loss of power will automatically set the brake, or pressure set so that a loss of pressure will cause the brake to release.
- Weighs much less than conventional eddy current brakes, and is smaller in

size — both of which help with rig space and weight allotment.
- Offers low speed (down to 0 RPM) for drilling bit control and high torque (up to 300,000 Lb. Ft.) for tripping stop and hold.
- Features heavy-duty, totally enclosed, sealed fluid-filled housings that eliminate sticking, grabbing or accelerated wear due to problems of corrosion, mineral buildup and rust.

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