



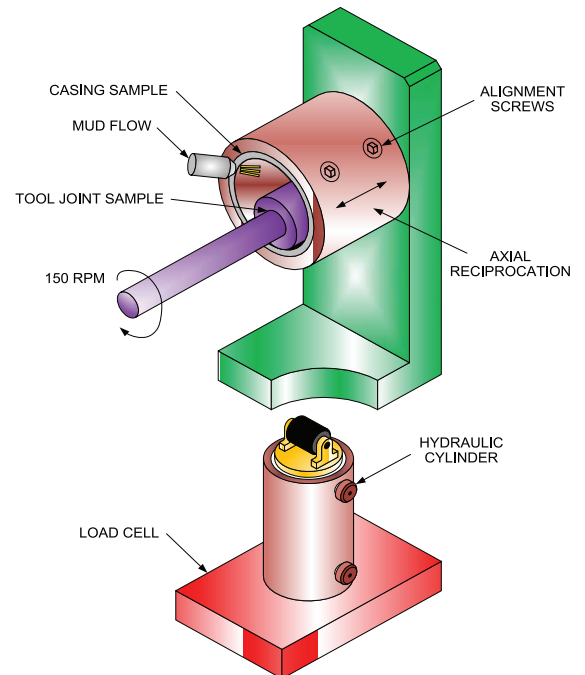
## Drill String Friction and Casing / Riser Wear Testing

While in either water or oil based drilling fluid, a lateral load is applied to a rotating tool joint at the sliding surface between the tool joint and the casing/riser. The casing is reciprocated to simulate axial movement of the drill string. Lateral load, torque, and wear are monitored during the tests to evaluate the severity of the wear, contact pressure threshold and the friction factor between the tool joint and casing / riser specimen.



### Specifications:

<b>Casing</b>	8 1/2 in. to 10 3/4 in. (plus coupons of larger casing / riser sizes)
<b>Lateral Load</b>	10,000 lb <sub>f</sub> /ft.
<b>Rotary Speed</b>	155 RPM
<b>Tool Joint Material</b>	Steel / Hard Metal / Composites
<b>Tool Joint Length</b>	3.75 in.
<b>Tool Joint Diameter</b>	5 in. to 8 1/2 in.
<b>Drilling Fluid</b>	Water / Synthetic Based Mud / Brine
<b>Test Duration</b>	8 Hours or Until 100% Worn
<b>Reciprocation Rate</b>	22 ft./hr. (approx.)



### Applications:

- Tool Joint Hard Metals
- Casing / Riser Materials
- Tubular Composites
- Rotary Torque Studies
- Axial Drag Studies
- Casing Wear Issues
- Riser Coatings
- Heat Checking Studies
- Fluid Lubricity Studies