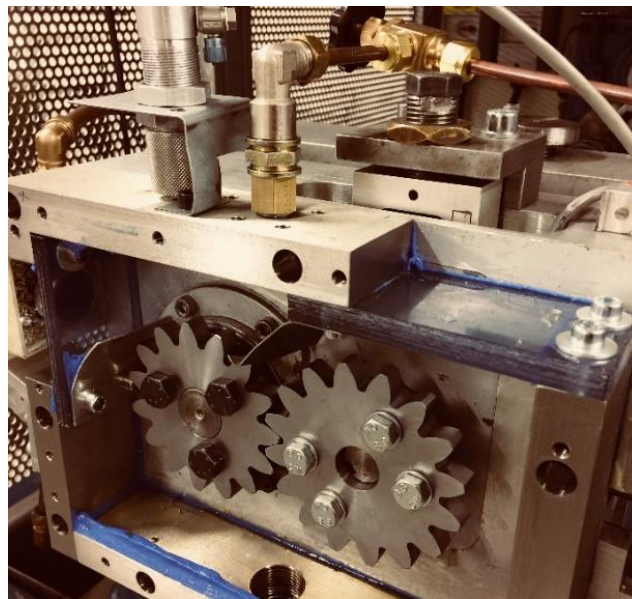


Modified FZG: The FZG apparatus can perform two tribotest configurations: Pin-on-ring and Ring-on-ring. The pin-on-ring configuration uses a stationary pin that is pushed with a constant load against a rotating disk. The loading of the pin is perpendicular to the axis of rotation. The ring-on-ring configuration uses two discs rotating against each other on their outer surfaces. The discs rotate at different sliding speeds to produce relative sliding slip at their interface. Wear (displacement), friction force, friction torque and rotational speed are measured during tests.



TEST RIG CHARACTERISTICS

Property	Modified FZG
Geometry	
Pin-on-ring	✓
Ring-on-ring (twin-disc)	✓
Gear-on-gear	✓
Torque	Max. 100 N/m
Rotational speed	Max. 1200 rpm
Slip velocity	Pin-on-disk max 7.5 m/s Disk-on-disk max 2.5 m/s
Load	20N to 750N
Oil temperature	Max. 100 °C
Wear	Max. 2.5 mm
Specimens pin-on-disk	Min. Ø 70 mm, max. Ø 120 mm Thickness: 22 mm
Specimens disk-on-disk	Min. Ø 65 mm, max. Ø 96 mm Thickness: 22 mm