

Building industry leading test platforms to automate sensing and improve measurements by reducing human errors.



## KRL-SST-p

# KRL Shear Stability Tester

KRL-SST-p assesses an oil's resistance to viscosity loss due to shearing, following CEC L-45-99 standards. KRL-SST-p mechanically stresses the oil at high shear rates using a taper roller bearing to evaluate shear stability that is measured from loss in kinematic viscosity. An external chiller integrated in a closed loop with the test unit provides precise and reliable temperature control of the lubricant during shearing. The high cooling capacity allows high viscosity transmission and hydraulic oils to be tested with accurate temperature control.

### Features

- Compact, tabletop instrument with low footprint
- Automated pneumatic loading with precise load stability
- High capacity recirculating chiller with heating/cooling functionality
- Integrated software with advanced temperature control algorithms based on viscosity grade
- Highly responsive temperature sensor and data acquisition interface
- Inbuilt PC with touch screen interface
- Modular and upgradable to four ball EP and WP tester complying with ASTM/DIN/ISO standards

### Standards

- CEC L-45-99
- DIN 51350-6

## KRL-SST-p

# Technical Specifications



- Load: 5000 N  $\pm$  200 N
- Speed: 1475 rpm  $\pm$  25 rpm
- Temperature: 60°C  $\pm$  1°C
- Test duration: 20 hours (Optional – 200 hours)
- Test bearing: SKF 32008X
- Test oil quantity: 40 ml
- Four ball wear and extreme pressure modules (optional)

### Includes

- Instrument
- Bearing pot with temperature sensor
- Bearing pot adapter
- Mandrel chuck
- Test bearing
- Refrigerated Circulator with connectors
- Reference CEC fluid and high viscosity oils (optional)



### Power

- 230V, Single phase, 50/60Hz 

### Weight & Dimensions

#### KRL-SST-p

- Net Dimensions: 410 x 610 x 790 mm
- Net Weight: 75 Kg

#### Refrigerated Circulator:

- Net Dimensions: 670 x 450x 680 mm
- Net Weight: 66 Kg

