

FBT-3

Four Ball Tester

ASTM D2266, ASTM D2596, ASTM D2783,
ASTM D4172, ASTM D5183, DIN 51350-2, DIN 51350-3
DIN 51350-4, DIN 51350-5, IP 239, ISO 20623:2017

The four-ball test is a fast, repeatable and an accurate way to test lubricants for their wear preventive, extreme pressure and frictional properties. With high levels of automation, the FBT-3 makes this test easy to run. Its simple interface hides powerful features and technologies.

A patented friction measurement system, automated scar prediction system and other features make four-ball testing more accurate and convenient than ever.

Features

- Robust, tabletop instrument
- Extreme Pressure (EP) Tests
- Wear Preventive (WP) Tests
- Coefficient of Friction (COF) Tests
- Automatic Loading
- Built-In Touch Screen Interface
- Preset international test standards
- Custom test program mode
- Proven compliance with test standards

TOUCHSCREEN INTERFACE AND DATA ACQUISITION

An inbuilt touch screen interface with an IP65 rating, coupled with state-of-the-art data acquisition hardware and electronics, the FBT-3 can effortlessly handle the most demanding testing applications.

Designed for full touch compatibility, pre-configured test protocols allow users with minimal training to set up ASTM and other standard tests easily. Custom test protocols can be set when your needs exceed the scope of standard test procedures.



DIGITAL IMAGE ACQUISITION SYSTEM (IAS)

The inconvenience of removing each ball from the ball pot, followed by trial – error method to focus and measure the ball wear scar is made obsolete. The Image Acquisition System can house the entire ball pot after EP and WP tests. It comes complete with integrated camera, optics, lighting, and software. The integrated smart scar measurement technology (available on select systems) can assist users in wear scar area calculation, greatly improving quality of measurements.

Automatic Scar Prediction

THE POWER OF ARTIFICIAL INTELLIGENCE (A.I.)

Every FBT-3 test is concluded by measuring the wear scar on the test specimens. It is the most manual aspect of any four ball testing and is prone to user errors and interpretation. Difficulty in visual observation of scars further increases the test variability.

With our proprietary automatic scar prediction software, you can now harness the power of Artificial Intelligence (A.I.) to automatically make consistent and precise wear scar measurements, overcoming the human error and greatly reducing the test variability.

