

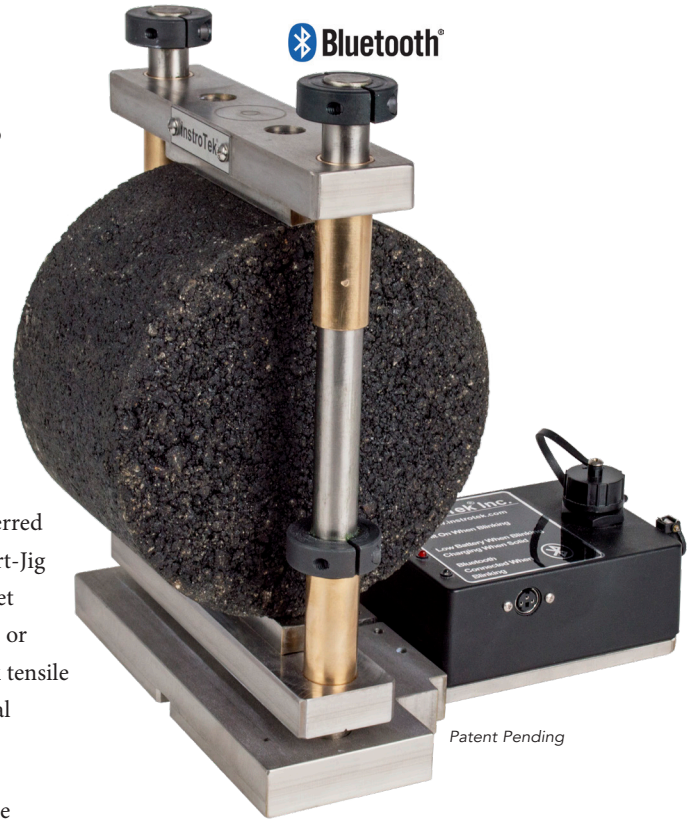
DIGITAL DATA COLLECTION FOR ASPHALT LOADING TESTS

Smart-Jig™, by InstroTek, is the first asphalt breaking head with the smarts to turn your old load frame into an advanced testing system. The Smart-Jig is designed to perform **two separate asphalt loading tests**:

- 1. TSR Tensile Strength Ratio** (AASHTO T 283, ASTM D693, & D4867)
- 2. IDEAL-CT** (ASTM WK60859)

The Smart-Jig is equipped with data acquisition electronics to collect data for the break tests performed in the lab. It's integrated high-precision load cell can collect data at a rate of 100 Hz. Graph paper, graphing pens, and printers are no longer required. Simply place the InstroTek Smart-Jig into your existing load frame, load the sample and start the test. The data is transferred to any Windows or an Android device via Bluetooth® or USB Cable. The Smart-Jig application collects, plots, prints, and stores the data directly on your PC, tablet or smartphone. The results can be easily emailed directly from the application or saved to your computer. The Smart-Jig app also displays fracture energy, peak tensile load, or strength information, eliminating the potential for errors from manual determination.

The InstroTek Smart-Jig is wireless and powered by a long lasting rechargeable Nickel-Metal Hydride battery. This ensures the Smart-Jig is always ready for testing and data analysis. Turn your old load frame into a Smart device using the InstroTek Smart-Jig.



Patent Pending

Smart-Jig™

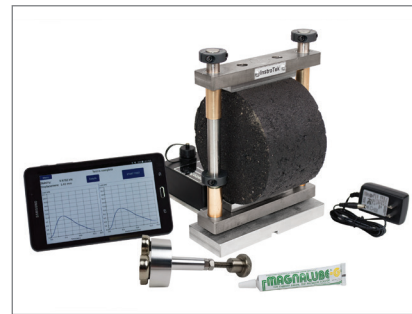
Standard TSR test configuration shown above

*LOAD FRAME MUST MEET ASTM D8225

FEATURES

Meets **AASHTO T283 (TSR Test)**, **ASTM D4867**, **EN 12697-12**, and **IDEAL-CT ASTM D8225**

- ▶ Perform two tests with one jig – TSR (standard configuration) and IDEAL-CT (add-on components sold separately)
- ▶ Bluetooth enabled
- ▶ Completely integrated load cell, LVDT, data acquisition (LVDT not required for TSR test)
- ▶ Super-fast 100 Hz data collection rate
- ▶ Upgrades your current analog load frame to an advanced digital loading frame*
- ▶ Smart-Jig app displays fracture energy, peak load and strength information to reduce the potential of operator error from manual determination
- ▶ Eliminates the need for plotters and plotter pens
- ▶ Provides a digital record for printing, storage or email



Smart-Jig accessories

Please call InstroTek for Smart-Jig compatible load frames.

SPECIFICATIONS

POWER SUPPLY	Rechargeable NiMH batteries
CHARGER	110/220V
DATA COLLECTION RATE	40 Hz (data points/second)
DATA FORMAT	PDF and CSV
BREAKING HEAD CONFIGURATIONS	150mm
CONNECTIVITY	Bluetooth or USB Cable
LOAD CELL CAPACITY	50kN (10,000 lbs)
DIMENSIONS	8.5" x 7.5" x 10"
WEIGHT	14 lbs.