

LIGHTWEIGHT
PROFILER

AMES 63000

The Ames Engineering Lightweight profiler is a complete all-in-one system, proven effective and accurate by independent government testing agencies. System provides accurate and repeatable comparisons to true rod and level profile. Studies have also shown excellent correlations to "California-style" Profilograph.



AMES 6300

LIGHTWEIGHT PROFILER

SPECS:

SYSTEM OVERVIEW

- * Portable system comes standard on fully-equipped ATV.
- * Data collection is powered by Ames 6.1 software, which is compatible with Microsoft Windows 7 and later operating systems.
- * GPS receiver allows the profile data to be referenced to the GPS location and the IRI profile on Google Earth.
- * Capable of collecting data at speeds between 8 and 20 mph.
- * Capable of collecting data at speeds www.amesengineering.com between 8 and 20 mph.
- * **Accurate & Repeatable**—Consistently shown to provide accurate results displaying profile and real time IRI while data is collected.
- * **Lightweight & Portable**—System comes standard on a reliable John Deere Gator, eliminating the need for a generator. Universal laser system can be shared with

high-speed profiler chassis.

- * **Instant Information**—Rugged Panasonic Toughbook mounts inside of cab, creating instant profile feedback.

SPECIFICATIONS:

- * Laser height sensor has a range of eight inches
- * Profile wavelength range: 1.8 to 1,200 feet
- * Accelerometer resolution: 0.0001g
- * Data storage: 70,000+ miles
- * Data interchange: Secure Digital (SD) PC card
- * Four-wheeled, rugged, 4x2 John Deere Gator
- * Gasoline powered 15.5 horsepower engine
- * Canopy and windshield for operator compartment
- * 360 degree LED safety light
- * Fully enclosed trailer available for system transport

COMPUTER HARDWARE:

- * Panasonic Toughbook laptop
- * Anti-reflective, anti-glare, IPS sunlight readable touchscreen display
- * Ethernet connectivity from system devices to data acquisition unit and laptop

COMPUTER SOFTWARE:

- * Microsoft Windows operating system
- * Display profile in real time while data is being collected
- * Calculates Profile Index (PI), International Roughness Index (IRI), Half-car Roughness Index (HRI), Ride Quality Index (RQI), and Ride Number (RN)
- * Plots true profile, California profilograph profile, and rolling straightedge profile
- * Equipped with variable high and low pass filter options
- * Contains automatic bump detection software

- * Identifies location of "out-of-specification" bumps and dips and areas of localized roughness
- * Equipped with the following export file options: profile elevation points, ProVal PPF, Texas PRO format, comma separated variable (CSV) format and generated report tables format (HTML), Google Earth KML

