

REAL-TIME  
PROFILER

# AMES RTP

Laser enabled  
smoothness  
measurement system  
monitors profile and  
calculates smoothness  
indices directly behind  
the paver.



# AMES RTP

## REAL-TIME PROFILER

### SPECS:

#### SYSTEM OVERVIEW

- \* Calculates and displays profile as concrete is placed
- \* Laptop can be mounted anywhere on the machine
- \* Instantly calculates and displays Profile Index (PI) and International Roughness Index (IRI)
- \* Locates areas of localized roughness and must grind locations
- \* **Quality Control** – In-process profiling locates problem areas and informs fast and appropriate responses.
- \* **Easy to Use** – Mounts directly onto the back of your slipform paver.
- \* **Instant Information** – Rugged Panasonic Toughbook mounts to paver, creating a realtime scoreboard for monitoring smoothness values.
- \* **Accountability** – Brings quality control awareness to everyone involved in the paving process.

#### COMPUTER HARDWARE:

- \* Rugged Panasonic CF-31 Toughbook laptop Computer
- \* Color anti-reflective, outdoor readable tough screen display
- \* Electronic components housed in water resistant and dust tight case
- \* Field replacement of any components does not require recalibration of the system
- \* Up to four sensors can be installed at various locations behind the paver and additional sensors can be field installed

#### COMPUTER SOFTWARE:

- \* Displays profile and updates smoothness indices with real time data collection
- \* Equipped with variable high and low pass filter options
- \* Contains automatic bump detection feature
- \* Capable of displaying "true profile," rolling straightedge, and

- \* California-type profilograph profile on screen
- \* Identifies location of "out-of-specification" bumps
- \* "Google Earth" .kml data output file option

#### SYSTEM:

- \* Collects measurements at speeds between 0 and 80 ft/min
- \* Laser height sensor with a range of five in. and a resolution of .001 in.
- \* Horizontal distance measured with an optical encoder
- \* Pavement elevation sample storage: 3 inches
- \* Profile wavelength range: 1.8 to 300 feet
- \* Vertical distance sensor resolution: .002 inch
- \* GPS Equipped



**"Our Ames RTP system provides an opportunity for all workers around the paver to see how their role in the process can affect smoothness. More incentive for people to do a better job and take pride in their work"**

**–Jeff Borden, Quality Control Manager Cold Spring Construction - NY**

