

earlier
insight
changes
everything

shotmeter 4.0

Diagnostic
intelligence
and control
for shot peening

tecnar

1021, Marie-Victorin Street
Saint-Bruno-de-Montarville Qc
Canada J3V 0M7
T +1 450 461 1221
sales@tecnar.com
spraysensors.tecnar.com



“Progressive has delivered Shotmeter to many different customers who use it for research, process characterization and development. Many customers will use the Shotmeter to perform periodic machine health checks or calibrations. This data is used to set nozzle and hose change intervals as well as to verify that air pressure controllers and their closed-loop media flow controllers are still working correctly.”

Jim Whalen, President
Progressive Surface



Learn more
about the
Shotmeter 4.0

tecnar

Our insight. Your productivity.

Production-friendly shot peening sensor

Our goal is to help you achieve high-quality, consistent shot peening with every job. To ensure this, peening conditions must remain optimal at all times. That's exactly why we developed the Shotmeter 4.0 – a precise, reliable, easy-to-use, and affordable sensor.



Work with the industry leader

Tecnar is a global leader in delivering cutting-edge diagnostic solutions to the shop floor. With over 1,000 sensor heads in operation daily across more than 25 countries, we are committed to driving innovation in the industry. From the start, we have invested heavily in R&D and in understanding our clients' needs. This dedication ensures our spray sensors consistently deliver the best performance for our customers.

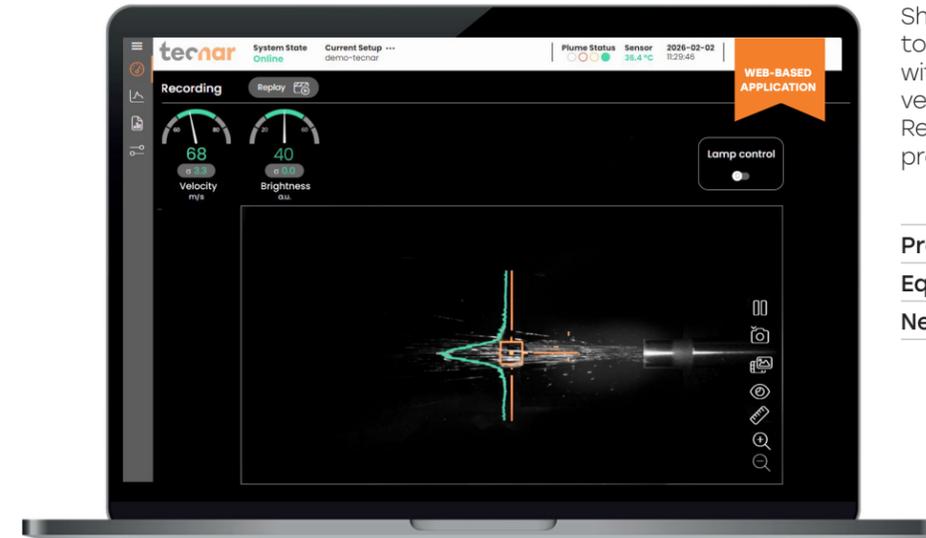
Why use our shot peening sensor?

- _____ Faster parameter development
- _____ Parameter replication
- _____ Parameter transfer
- _____ Better traceability & data logging
- _____ Less operator dependency
- _____ Reduced Almen testing
- _____ Reduced media waste
- _____ Lower operating costs
- _____ Optimized nozzle maintenance
- _____ Expedited troubleshooting



AMS2432E recognizes velocity sensors

The October 2022 Revision E of SAE International's AMS2432 standard confirms that media velocity sensors are an approved alternative to Almen strips for production shot peening.



Easily achieve targeted intensity

Shot peening performance is highly sensitive to intensity, which is directly correlated with media velocity. Maintaining repeatable velocity is essential for consistent results. Real-time in-flight monitoring enables production managers to achieve faster:

- _____ Process replication
- _____ Equipment calibration
- _____ New process development and validation

Technical specifications

Measurements

Media velocity range 10-1500 m/s (33-4900 ft/s) at 2% accuracy

Measurement area information

Velocity measurement area $\varnothing 2.2 \text{ mm} = 3.8 \text{ mm}^2$ ($\varnothing 0.087 \text{ in.} = 0.0059 \text{ in.}^2$)

Working distance 125 mm (4.92 in.)

Plant supplies

Power requirements 100-120 or 200-230 VAC, 50-60 Hz Auto-Switch

Air supply 1.7-2.7 bar (25-39 psi)

Dimensions

Sensor head 196 mm x 83 mm x 212 mm (7.7 in. x 3.3 in. x 8.3 in.) 3.3 kg (7.3 lb)

Controller 230 mm x 132 mm x 240 mm (9.1 in. x 5.2 in. x 9.4 in.) 6.6 kg (14.6 lb)

Build your intellectual property on what really matters



Shot velocity



Shot stream visualization

NEW - OPTION

Tecnar HUB – Centralized process intelligence

The Tecnar HUB connects multiple data feeds from your spray operations into a smart, unified platform.

- _____ Automatic process window definition
- _____ Centralize and compare booth data
- _____ Optimize maintenance and testing