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The Thermal Spray Team
GKN Aerospace Sweden

References
Chromalloy
General Electric
GKN Aerospace
Metalworking Industries
Oerlikon Metco
Pratt & Whitney
Progressive Surface
Rolls-Royce
Siemens

Tecnar 4.0
Great coatings every run

earlier insight changes everything

Keep your process within its window of tolerance

Become expert at trending your process

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Keep your process within its window of tolerance

Become expert at trending your process
Get ready for thermal spray 4.0!

Get the accuraspray 4.0 advantage:

Be consistent every run
Ensure consistent coatings by continuously monitoring the properties of the sprayed material, either in manual or automatic mode. Now your operators can react and react fast before the process falls out of its green window and significantly improve your process Cpk & Ppk.

Spray more efficiently
With the accuraspray 4.0 you can control your deposit efficiency (DE), minimize the test coupons, replace spray hardware (electrodes, nozzles) on a needs-only basis and qualify new lots of feedstock.

Monitor—anywhere, any time
The Tecnar accuraspray 4.0 features a modern, web-based user interface and full SQL query capabilities. Advanced reporting features make it easy to monitor spray booth productivity and consistency from anywhere at any time.

Install and set-up yourself
We deliver the unit with detailed documentation for installation and set-up, plus a free remote training session. When it arrives, you’ll be fully capable of installing and using the equipment.

Go for the universal solution
Our NIST traceable accuraspray 4.0 sensor head can characterize all thermal spray processes, including suspensions:
- Plasma
- Suspensions (plasma and HVOF)
- HVOF/HVAF (gas and liquid fuel)
- Electric arc
- Combustion flame

Sensor head
110 mm x 110 mm x 62 mm
7.5 in. x 4.3 in. x 2.5 in.

Power module
310 mm x 230 mm x 100 mm
12.2 in. x 9.1 in. x 3.9 in.
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Tecnar is dedicated to helping you achieve quality, consistent coatings with every run. For this to happen, spray conditions must be optimal at all times. And you need a sensor that’s precise, reliable, simple to use, affordable, easy to install, able to monitor all spray processes and has built-in industrial intelligence. That’s why we developed the accuraspray 4.0.

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- **Sensor head:** 110 mm x 110 mm x 62 mm
  - 4.3 in. x 4.3 in. x 2.4 in.
- **Power module:** 230 mm x 230 mm x 100 mm
  - 9 in. x 9 in. x 3.9 in.

**Technical specifications**

- **Measurement ranges:**
  - Plasma temperature range: 1000°C and higher at 3% accuracy
  - 1832°F and higher at 3% accuracy
- **Spray plume intensity and peak height:**
  - 2% accuracy
- **Spray plume width & position:**
  - 0.1 mm accuracy
  - 0.004 in. accuracy
- **Measurement volume information:**
  - CCD camera field of view: 400 mm (15.7 in.)
  - Accuraspray measurement volume: 3.2 mm DIA x 25 mm DOF = 200 mm
  - 0.12 in. DIA x 1 in. DOF = 0.01 in.
  - Substrate temperature pyrometer:
    - From -18 to 538°C
    - From 0 to 1000°F
- **Plant supplies:**
  - Power requirements: 120 - 240 VAC, 50-60 Hz 5A
  - Air supply: 1.35 to 2 bar (20-30 psi) of clean dry compressed air

Work with the leader in the field

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- Quicker spray parameter development
- Extended lifetime of consumables
- Enhanced coating reproducibility
- Web-based interface
- More accurate forecasting of coating thickness
- Less coupons required
- Greater deposit efficiency
- More accurate forecasting of coating thickness

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