



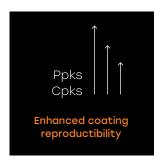
Get the accuraspray 4.0 advantage:

## 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 readjust before the process falls out of its green window and significantly improve your process C<sub>pks</sub> & P<sub>pks</sub>.

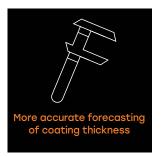






### Spray more efficiently

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.







#### 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 wire arc

Combustion flame

# Monitoranywhere, 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.





# **Technical specifications**

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| Particle temperature range                              | 1000°C and higher at 3% accuracy<br>1832°F and higher at 3% accuracy                           |
|---|--|
| Particle velocity range                                 | 5 - 1200 m/s at 2% accuracy<br>16.3 - 3900 ft/s at 2% accuracy                                 |
| Spray plume intensity and peak height                   | 2% accuracy  |
| Spray plume width & position                            | 0.1 mm accuracy<br>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 <sup>3</sup><br>0.1 in. DIA x 1 in. DOF = 0.01 in <sup>3</sup> |
| Substrate temperature pyrometer                         | From -18 to 538°C<br>From 0 to 1000°F  |
| Plant supplies  |  |
| Power requirements                                      | 120 - 240 VAC,<br>50-60 Hz 5A  |
| Air supply  | 1.35 to 2 bar (20-30 psi)<br>of clean dry compressed air                                       |
|   |  |

#### **Power module**

230 mm X 230 mm X 100 mm 9 in. X 9 in. X 3.9 in.





# Keep your process within its window of tolerance



Become expert at trending your process

# earlier insight changes everything



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#### References

Chromalloy

**General Electric** 

**GKN Aerospace** 

Mitsubishi Heavy Industries

Oerlikon Metco

**Pratt & Whitney** 

**Progressive Surface** 

Rolls-Royce

Siemens



"Thanks to the Accuraspray, we have been able to achieve process Ppks over 1.5- even for very challenging coatings, such as thick, porous TBCs sprayed using new advanced gun concepts. The Accuraspray has also proven invaluable for process parameter development, for establishing tolerance windows, for troubleshooting and, finally, as a go/no go instrument."

The Thermal Spray Team GKN Aerospace Sweden