



Get the Accuraspray 4.0 advantages:

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_{pks} & P_{pks}.

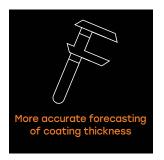






Spray more efficiently

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.

Wire-Arc Spray

Flame Spray

Air Plasma Spray (APS)

High Velocity Oxy-Fuel Spray (HVOF)

High Velocity Air-Fuel Spray (HVAF)

Suspension Plasma Spray (SPS)

Vacuum Plasma Spray (VPS)

Low-Pressure Plasma Spray (LPPS)

Plasma Transferred Wire-Arc (PTWA)

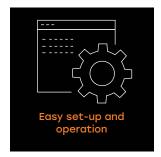
Monitoranywhere, any time

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

Measurements

Particle temperature range	≥1000°C (≥1832°F) at 3% accuracy
Particle velocity range	5-1200 m/s (15-4000 ft/s)
	at 2% accuracy
Plume intensity	5% accuracy
Plume width and position	±0.6 mm (±0.02 in.) accuracy
Plume angle	0.2 degree accuracy
Substrate temperature pyrometer	0-500°C (32-932°F)
Process stability	Automatic instability detection

Measurement area information

Working distance	200 mm (7.87 in.)
Temperature and velocity measurement area with cylindrical lens (default)	3.4 mm x 25 mm = 85 mm ² (0.13 in. x 1 in. = 0.13 in. ²)
Temperature and velocity measurement area without cylindrical lens	Ø3.4 mm = 9 mm ² (Ø0.13 in. = 0.05 in. ²)
CMOS camera field of view	400 mm (15.75 in.)

Plant supplies

Electrical requirements	120-230 VAC, Auto-Switch 50/60Hz 1.5/1.5A
Air supply	1.35 to 2 bar (20 to 30 psi) of clean dry compressed air
Positioning bracket	Refer to mechanical drawing in manual

Dimensions

Sensor head	190 mm X 110 mm X 62 mm
	(7.5 in. x 4.3 in. x 2.5 in.)
Controller	230 mm X 230 mm X 102 mm
	(9 in. x 9 in. x 3.9 in.)
Total weight	12 kg (26.5 lb)



Engineering user interface



Keep your process within its window of tolerance

Simplify the operator's daily tasks by offering a straightforward indication of the spray condition.

This is achieved through a colour-coded system:

- Spray conditions nominal
- Preventive maintenance required
- Spray conditions out of range

earlier insight changes everything



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Learn more about the Accuraspray 4.0

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