gastops

PRODUCT OVERVIEW

BRING THE LAB INTO YOUR HANGAR

ChipCHECK
ONLY BY GASTOPS

No hassle. No delay. Confident decisions in minutes.

ChipCHECK – Automated Chip Analysis on Site
• Specific alloy classification
• Particle size and shape
• Particle count
• Material library compatible with commercial aviation engines from CFMI, IAE, P&W, GE and Rolls-Royce.

Airworthiness Questions Answered
• Which components are shedding chips?
• Has damage progressed to a state that requires action?
• Is the equipment safe for operation?

Lab-quality Conclusive Chip Analysis in Minutes

ChipCHECK by Gastops offers the fastest way of making on-site equipment maintenance decisions. It is field-deployable and automated, providing conclusive lab-quality chip analysis in minutes.
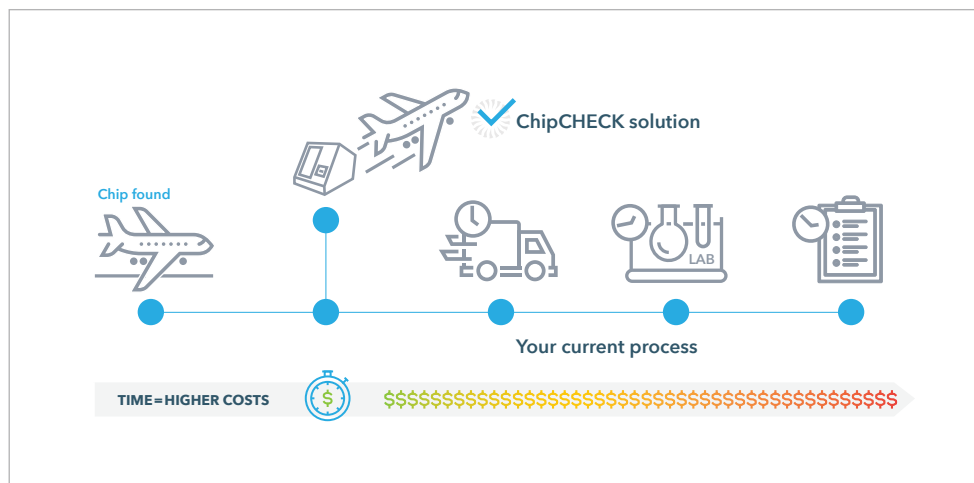
Using innovative laser spectroscopy technology, ChipCHECK provides aircraft maintainers with quick, reliable, and conclusive information, including the size, shape, and specific alloy classification for each individual particle in the sample.

Aircraft Disposition in Under an Hour

ChipCHECK enables aircraft maintenance operators to make key decisions, save on laboratory testing costs, simplify logistics, and return an aircraft to service in under an hour.

When Aircraft Maintenance Technicians (AMTs) find metal chips during aircraft inspection, they must determine if the debris is benign or indicative of serious damage. Traditionally, chip analysis was available only from specialized laboratories and took between 1 and 5 days to complete.

ChipCHECK eliminates the delays and costs that result from sending chips to a laboratory. AMTs can quickly produce a lab-quality chip analysis report right in the hangar.

ChipCHECK solution

Chip found

Your current process

TIME=HIGHER COSTS

$$

ChipCHECK is the fastest chip analysis tool in the industry, giving fixed wing and rotary fleet operators a competitive and mission advantage.

Costs to Wait

Industry-standard laboratory analysis results in:

- Logistical stress
- Additional AMT tasking for extra inspections
- Laboratory testing costs
- Delays
- Aircraft grounded unnecessarily

Negative impacts are compounded when the aircraft is deployed on mission or away from its maintenance hub.

Pays to Know

The ChipCHECK advantage:

- Aircraft disposition within minutes
- Definitive chip analysis
- No delays
- No lab testing costs
- Portable
- Easy to use by AMTs with less than two hours of training
- Record keeping per asset serial number for compliance purposes

About Gastops

Gastops is the world's leading provider of intelligent condition monitoring solutions used in Aerospace, Defence, Energy, and Industrial applications to optimize the availability, performance, and safety of critical assets. We offer peace of mind to our customers with innovative online monitoring sensors, at-line analysis, complex modeling and simulation, world-class laboratory testing, engineering, design, and MRO services that predict performance to enable proactive operating decisions. Gastops has been providing powerful insights into the condition of critical equipment since 1979.

CC122 PORTABLE DEBRIS ANALYZER

Performance

Particle Analysis	Quantity, size, alloy
Minimum Detectable Particle Size	4,000µm² (min dimension: 71µm)
Sample Patch Size	1.5" x 1.25" with 0.5" x 0.5" clear window
	3.81 cm x 3.18 cm width
	1.27 cm x 1.27 cm clear window

Environment

Ambient Operating Temperature	50°F to 95°F	10°C to 35°C
Operational Humidity	80% non-condensing
Vibration	Shock & vibration isolated

Input

Power Supply	100-240VAC, 50-60Hz, 3A Max

Physical

Weight	40 lbs	18 kg
Dimensions	Length 18.5" x width 14" x height 14"
	Length 47cm x width 35.5 cm x height 35.5 cm

User Interface

Display	10.1" integrated screen
Data Entry	Touchscreen
Data Storage	Local to unit
Data Transfer	CSV database export & PDF report exports
External Connection Types	2x USB, 1x serial & 1x Ethernet

Compliance

ASTM D8182-18

CE

CSA Special Inspection (CAN & US)

EN/IEC 60825-1 2007

Complies with US FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

Class 1 Laser Product

Ingress Protection IP41

FCC Part 15

Included Accessories

Sample Patches and Cases

Standardization Standard

Calibration Standard

Sample Tray

User Information Manual

Transport Case

Optional Accessories

Patch Preparation Kit

Keyboard & Mouse

Additional Sample Patches

14"
35.5 cm

14"
35.5 cm

18.5"
47 cm

1x Serial Port
1x Ethernet Port

2x USB Ports