

CHIPCHECK APPLICATION

COMMERCIAL AVIATION

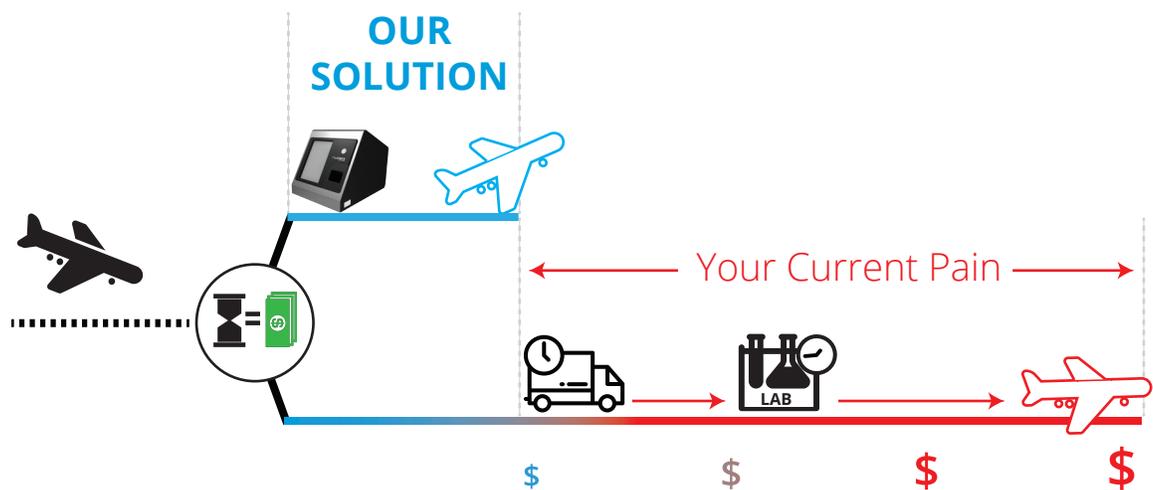
Immediate "GO/NO GO" decision support - make the right call on-site
Qualitative visual assessment is replaced with reliable quantitative, repeatable measurement resulting in the right decisions made more quickly, no more guesswork.

Application

ChipCHECK was designed for a very specific purpose: to solve a long outstanding issue in the aerospace industry. The current in-service practice to assess the health of engines is to visually inspect chip detectors/collectors, and, if bearing material is suspected to be present, the debris is sent off to a laboratory for analysis. However, the laboratories are often off-site which makes the turnaround time results take hours or days.

ChipCHECK brings the laboratory capabilities to the flight line, empowering line maintenance crews with the ability to run the analysis themselves and obtain decision grade information within minutes – ChipCHECK provides the data you need, where you need it and when you need it.

Your Problem - Our Solution



LONG LIVE EQUIPMENT



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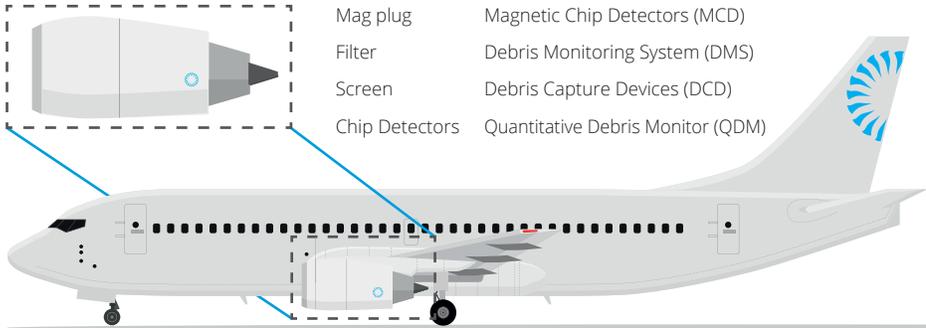
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COMMERCIAL AVIATION

Debris Extraction Sources



4 Step User Process

Step 1:



Step 2:



Step 3:



Step 4:



Business Case

Remote Diversions (4 days)	Estimated Costs
Taxi penalty - to hanger	\$5,000
Hanger space	\$25,000/day
Ground time costs	\$100,000/day
Passenger compensation	\$100,000
Replacement AC dispatch	\$100,000
Replacement engine dispatch	\$1,000,000 (Antonov)
Remote location engine swap	\$5,000
Total	~\$2,000,000
~20 ChipCHECK Units!	

Base AoG (2 days)	Estimated Costs
Taxi penalty - to hanger	\$5,000
Hanger space	\$ -
Ground time costs	\$100,000/day
Passenger compensation	\$100,000
Replacement AC dispatch	\$ -
Replacement engine dispatch	\$ -
Remote location engine swap	\$ -
Total	~\$300,000
~3 ChipCHECK Units!	

*Above approximations are based on typical in-service data for a B777 aircraft. The values above may differ depending on the application and/or operation.

COMPLIANCE

- 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

ACCESSORIES

1. Sample Patches
2. Standardization Patch
3. Calibration Patch
4. Sample Tray
5. USB to Ethernet Adapter
6. User Information Manual
7. Transport Case
8. Optional Patch Preparation Kit
9. Optional Keyboard & Mouse

ChipCHECK
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