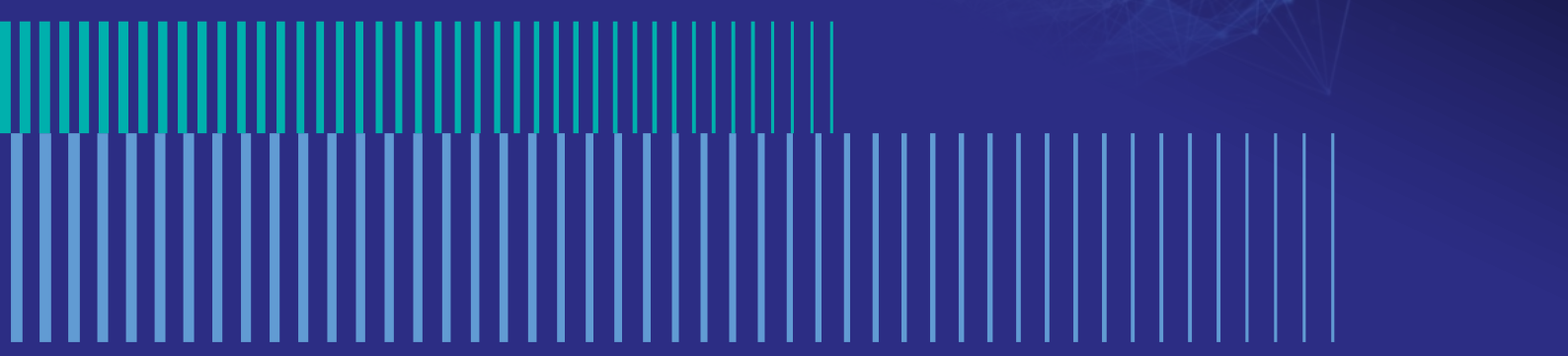


A large, detailed image of a jet engine turbine. The turbine is shown from a front-on perspective, with its numerous blades radiating from a central hub. The blades are a metallic, golden-brown color. Overlaid on the right side of the turbine is a complex, glowing blue digital network of lines and dots, resembling a circuit board or a data visualization. The background is a deep blue gradient.

THE POWER OF ENGINE HEALTH MONITORING (EHM)

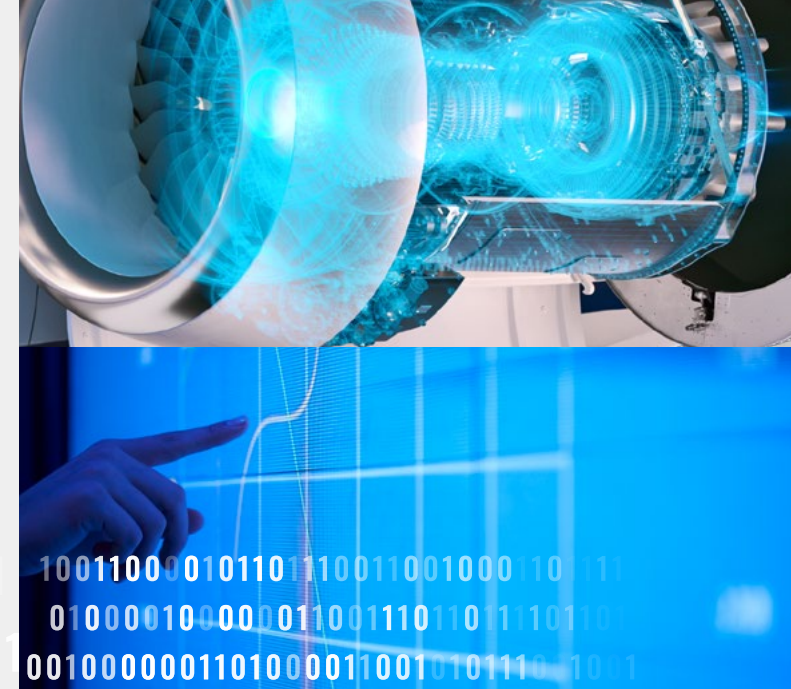
A decorative graphic consisting of two rows of vertical bars. The top row has 15 bars of varying heights in a teal color. The bottom row has 30 bars of varying heights in a light blue color.

Powered by innovation, Rolls-Royce's Engine Health Monitoring (EHM) advancements drive our services to be predictive rather than reactive to help our customers before issues arise.

rolls-royce.com/EHM

WHAT IS ENGINE HEALTH MONITORING (EHM)?

Engine Health Monitoring (EHM) tracks on-wing performance using on-board sensors as our way of analyzing data from each engine after every flight, whether snapshot data or our more advanced EHM with continuous data, to achieve the best possible engine availability and keep your aircraft flying as often as you need it.



Data from on-board sensors recorded and transmitted for analysis



Engine data analyzed after each flight to detect any abnormalities



Diagnose the cause of any abnormalities



Rolls-Royce provides timely recommendations to keep your aircraft flying



EHM optimizes maintenance and address potential issues before they become a possible AOG scenario

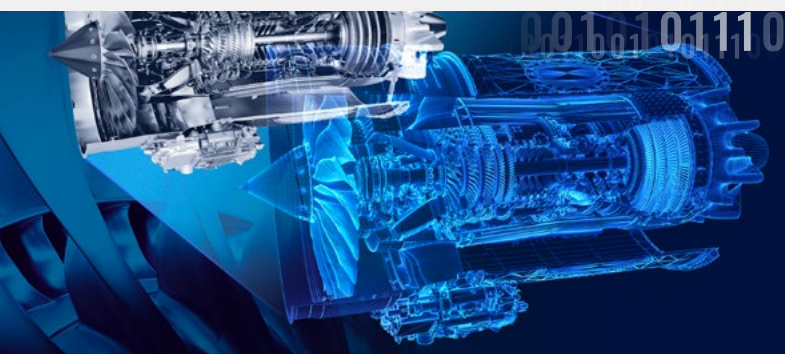
ADVANCEMENT OF EHM TO EVHMU

The Pearl engine family expands its capabilities by showcasing Rolls-Royce's IntelligentEngine vision with it's Engine Vibration Health Monitoring Unit (EVHMU).

With its state-of-the-art EVHMU, the Pearl family features a step-change in 'on-wing' engine intelligence to deliver best-in-class engine availability. It is enabled to be connected to the 'Internet-of-Things', it can provide instant access to over 10,000 engine performance and health parameters with unprecedented levels of data quality, including:

- Pressure
- Temperature
- Vibration
- Line Replaceable Units (LRUs)

This ultimately enables us to remove a unit before it ever causes a problem.



WHAT DATA DOES EHM COLLECT?



STANDARD EHM

- Snapshot data comparing left-hand and right-hand engine
- 5 data points per flight
- Step change or long-term trend determination



ADVANCED EHM

- Continuous data that compares the EEC, CHA and CHB
- LRU continuous data
- Able to receive one data point per second
- Early emerging issue detection

Note: Advanced EHM capabilities are enabled by aircraft health monitoring



DEVELOPING CAPABILITIES WITH EVHMU

- 2-way communications on-ground to reconfigure data transmitted
- HF vibration data from the entire flight (once on ground)
- Live streaming ground runs in real time



Make Your Data Work for You

Contact your Sales Director today for
more information or pricing on EHM.

rolls-royce.com/EHM



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