

Han PHI

The New Paradigm of Predictive Analytics

Introducing HanPHI

Plant Health Index

A powerful solution that predicts maintenance needs and keeps your valuable assets in optimal condition

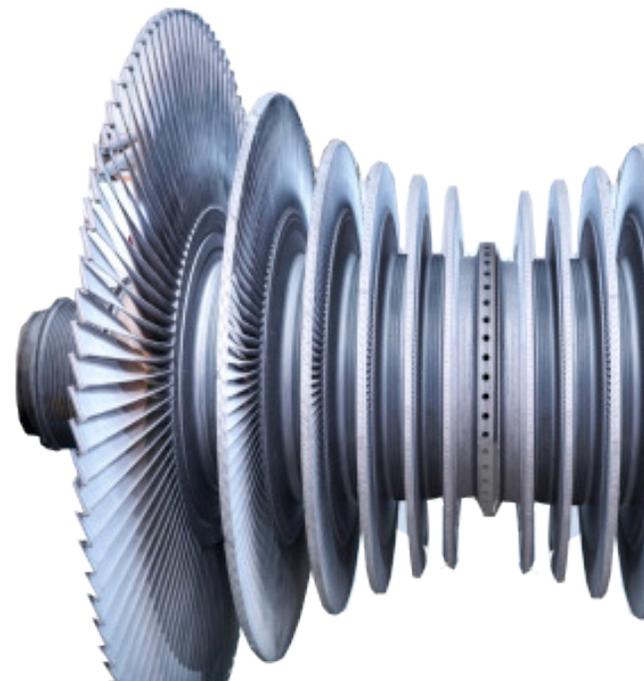
HanPHI, a powerful predictive analytics software, identifies impending equipment failure days, weeks, or months in advance. This intelligent software learns, models, and analyzes data to provide actionable early warnings to plant operators, engineers, and managers before a catastrophic failure occurs. With HanPHI, plant personnel implement predictive maintenance, keeping their valuable assets in optimal condition.

Plants are constantly exposed to the risk of unscheduled downtime. Failure to identify the point of equipment failure in advance requires extra time and resources to locate the cause. Other technologies provide warnings only seconds or minutes before imminent failure. With limited warning time, the plant may not have enough time to successfully react to critical failures.

With HanPHI's actionable information about the time and point of potential and hidden failures given well before an incident, HanPHI users can thoroughly prepare for impending failures.

HanPHI allows you to monitor the condition of all your equipment at a glance. HanPHI continuously monitors and identifies anomalies across assets and provides early warnings of impending equipment failures.

Our intelligent predictive-modeling and health-indexing technologies make HanPHI a powerful solution that has significant benefits for plant operations. Early warnings identify areas for predictive maintenance, reducing maintenance costs, unscheduled downtime, and equipment failures. With HanPHI, you can eliminate potential operational risks, extend equipment lifecycles, and increase asset reliability, efficiency, and safety within your limited budget.



Our Proven and Advanced Technology

Intelligent Predictive-Modeling Technology

As seen in historical data, every plant asset has unique characteristics. The intelligent predictive-modeling technology embedded in HanPHI builds prediction models for equipment, systems, and plants based on normal historical data. Thanks to intelligent predictive-modeling technology, HanPHI monitors and analyzes each and every operating condition across systems, variables, and operation processes to identify deviations in actual values from expected values.

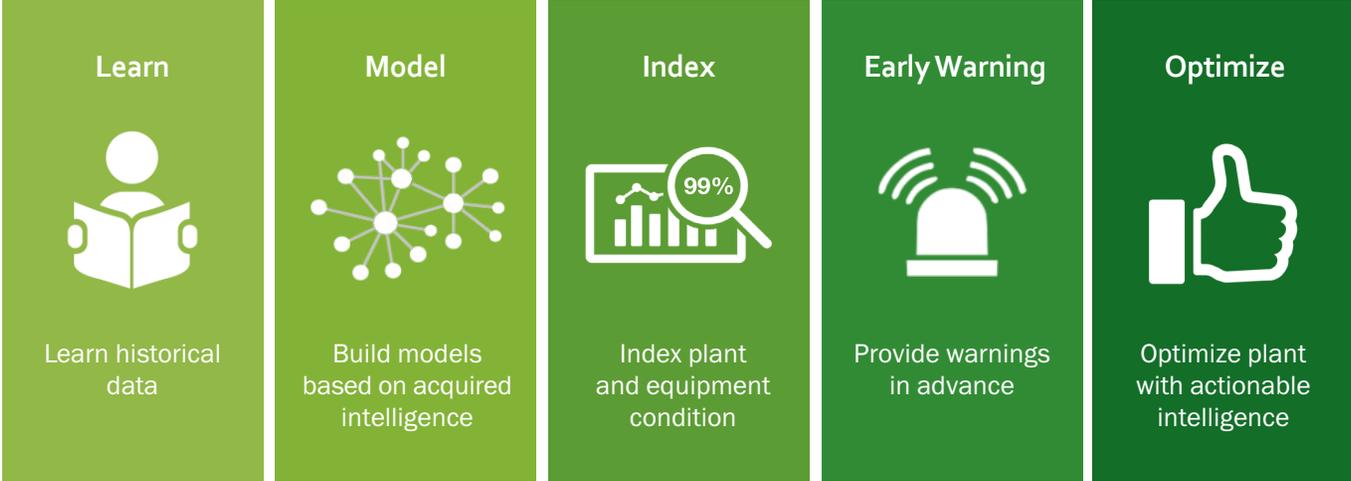
HanPHI compares and analyzes actual and predicted values in real time, rather than threshold values, to identify abnormal equipment conditions in advance. By identifying abnormal events and equipment behavior beforehand, our solution provides enough time for the plant to act. HanPHI configures each asset in its unique SuccessTree, enabling immediate identification of anomalies. With HanPHI, process plants can achieve optimized efficiency and performance.

Intelligent Health-Indexing Technology

HanPHI's intelligent health-indexing technology provides a real-time, comprehensive view of complex and dispersed assets across the entire fleet. The index (0–100%) provides an intuitive illustration of plant health. Our indexing technology analyzes real-time and predicted data to convert complex process conditions into a simple, easily read index. The index gives our customers actionable intelligence on functional, hidden, and potential failures.

SuccessTree and Integrated Index

You can view real-time asset conditions with a simple index that indicates the differences between current and normal conditions. You can constantly monitor deviations from normal conditions. HanPHI detects abnormal situations and identifies the root causes of anomalies through the SuccessTree. You can take advantage of our technology to take proactive actions against impending failures.



Value

Reacting to functional failures or relying on time-based maintenance lowers a plant's reliability and availability.

Plants can monitor their dispersed assets across their fleet in a simple and intuitive index. HanPHI enables our users to immediately respond to impending failures and keep their valuable assets in optimal condition.

Every day, HanPHI monitors a wide variety of assets across the globe, accurately predicting impending failures for our users.

HanPHI helps our users reduce unscheduled downtime, decrease maintenance costs, and increase reliability and availability.

About HanAra Software

HanAra Software is a subsidiary of South Korean-based BNF Technology. BNF Technology is a professional software development company that provides optimized software solutions for operational management of process plants. Nuclear, coal-fired, combined-cycle, seawater desalination, and petrochemical plants use our solutions. BNF Technology provides solutions to over 100 sites across 2 continents to help them achieve operational excellence.

For over 16 years, we have developed data historian, data infrastructure, predictive analytics, DCS HMI, and performance monitoring solutions. We provide innovative technology based on our years of experience in the process industry. We help our customers achieve operational excellence by making plant management easy and simple and by maximizing return on assets.



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